

REFERENCES*

(Documents issued in the WHO/SE, SE and SME series are listed on pages 1404–1409)

- Ada, G.L., Jackson, D.C., Blanden, R.V., Tha Hla, R. & Bowern, N.A. (1976) Changes in the surface of virus-infected cells recognized by cytotoxic T cells. I. Minimal requirements for lysis of ectromelia-infected P-815 cells. *Scandinavian journal of immunology*, **5**: 23–30. [3]
- Ada, G.L., Leung, K.-N. & Ertl, H. (1981) An analysis of effector T cell generation and function in mice exposed to influenza A or Sendai viruses. *Immunological reviews*, **58**: 5–24. [3]
- Ahmad, H.B. (1933) *Smallpox in Egypt. Its history and control*. Cairo, Government Press. [8]
- Alécaut, B., Breman, J.G. & Famba, M.K. (1970) Concurrent assessment during the smallpox eradication and measles control programme in Guinea—December 1967 to February 1969. In: United States National Communicable Diseases Center, *op. cit.*, No. 2, 90–96. [17]
- Alekseeva, A.K. & Akopova, I.I. (1966) [Studies of properties of rabbit smallpox virus isolated from *M. rhesus* tissue culture]. *Voprosy virusologii*, **11**: 532–539 (in Russian). [3]
- Alexander, A.D., Flyger, V., Herman, Y.F., McConnell, S.J., Rothstein, N. & Yager, R.H. (1972) Survey of wild mammals in a Chesapeake Bay area for selected zoonoses. *Journal of wildlife diseases*, **8**: 119–126. [2]
- Ali, A. & Heiner, G.G. (1971) Survey of vaccination status and past smallpox experience of an urban population of West Pakistan. *American journal of epidemiology*, **94**: 327–340. [4, 14]
- Alivizatos, G.P. (1950) *The early smallpox epidemics in Europe and the Athens plague after Thucides*, Athens (in Greek, with English summary). [5]
- Al-Razi, Abu Bakr Muhammad ibn Zakariya (Rhazes) *De variolis et morbillis commentarius*, London, G. Bowyer, 1766. English translation: *Medical classics* (1939), **4**: 22–84. [5]
- Amano, H., Ueda, Y. & Tagaya, I. (1979) Orthopoxvirus strains deficient in surface antigen induction. *Journal of general virology*, **44**: 265–269. [2]
- Amaral, C.G. do (1960) História da variola. *Medicina contemporânea*, **78**: 537–571. [8]
- Amies, C.R. (1961) Loss of immunogenic properties of vaccinia virus inactivated by formaldehyde. *Canadian journal of microbiology*, **7**: 141–152. [2]
- Anders, W. & Posch, J. (1962) Die Pockenausbrücke 1961/62 in Nordrhein-Westfalen. *Bundesgesundheitsblatt*, **17**: 265–269. [4]
- Andersen, A.A. (1958) New sampler for the collection, sizing and enumeration of viable airborne particles. *Journal of bacteriology*, **76**: 471–484. [4]
- Anderson, A. (1861) *Study of fever*, London, Churchill. Quoted in: Councilman, W.T., *op. cit.*, p. 272. [30]
- Anderson, R.M. & May, R.M. (1983) Vaccination against rubella and measles: quantitative investigations of different policies. *Journal of hygiene*, **90**: 259–325. [31]
- Andrewes, C.H., Glover, R.E., Himmelweit, F. & Smith, W. (1944) Influenza virus as a laboratory contaminant. *British journal of experimental pathology*, **25**: 130–134. [30]
- Andrews, J.M. (1951) Nation-wide malaria eradication projects in the Americas. I. The eradication program in the U.S.A. *Journal of the National Malaria Society*, **10**: 99–121. [9]
- Andrews, J.M. & Langmuir, A.D. (1963) The philosophy of disease eradication. *American journal of public health*, **53**: 1–6. [9]
- Angulo, J.J., Rodrigues-da-Silva, G. & Rabello, S.I. (1964) Variola minor in a primary school. *Public health reports*, **79**: 355–365. [4]
- Angulo, J.J., Rodrigues-da-Silva, G. & Rabello, S.I. (1967) Spread of variola minor in households. *American journal of epidemiology*, **86**: 479–487. [4]
- Angulo, J.J., Rodrigues-da-Silva, G. & Rabello, S.I. (1968) Sociological factors in the spread of variola minor in a semi-rural school district. *Journal of hygiene*, **66**: 7–18. [4]
- Annual Reports of the Public Health Commissioners with the Government of India for 1930 to 1946–47. Calcutta, Government of India Central Publication Branch. [5]
- Appleyard, G. & Westwood, J.C.N. (1964a) The growth of rabbitpox virus in tissue culture. *Journal of general microbiology*, **37**: 391–401. [2, 3]
- Appleyard, G. & Westwood, J.C.N. (1964b) A protective antigen from the pox-viruses: II. Immunisation of animals. *British journal of experimental pathology*, **45**: 162–173. [3]
- Appleyard, G., Hapel, A.J. & Boulter, E.A. (1971) An antigenic difference between intracellular and extracellular rabbitpox virus. *Journal of general virology*, **13**: 9–17. [2, 3]
- Aragão, H. de B. (1911) Studien über Alastrim. *Memorias do Instituto Oswaldo Cruz*, **3**: 309–319. [8]
- Aragão, H. de B. (1927) Myxoma of rabbits. *Memorias do Instituto Oswaldo Cruz*, **20**: 237–247. [2]
- Archard, L.C. & Mackett, M. (1979) Restriction endonuclease analysis of red cowpox virus and its white pock variant. *Journal of general virology*, **45**: 51–63. [2]
- Archard, L.C., Mackett, M., Barnes, D.E. & Dumbell, K.R. (1984) The genome structure of cowpox virus white pock variants. *Journal of general virology*, **65**: 875–886. [2]

* The numbers in square brackets that follow the bibliographical details of each reference refer to the chapters in which that reference is cited.

- Arita, I. (1973) The control of vaccine quality in the smallpox eradication programme. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October, 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 79–87. [10, 11]
- Arita, I. & Henderson, D.A. (1968) Smallpox and monkeypox in non-human primates. *Bulletin of the World Health Organization*, **39**: 277–283. [2, 10, 29, 30]
- Arita, I. & Henderson, D.A. (1976) Monkeypox and whitepox viruses in West and Central Africa. *Bulletin of the World Health Organization*, **53**: 347–353. [30]
- Arita, I., Shafa, E. & Kader, M.A. (1970) Role of hospital in smallpox outbreak in Kuwait. *American journal of public health*, **60**: 1960–1966. [4, 23]
- Arita, I., Gispen, R., Kalter, S.S., Lim Teong Wah, Marennikova, S.S., Netter, R. & Tagaya, I. (1972) Outbreaks of monkeypox and serological surveys in non-human primates. *Bulletin of the World Health Organization*, **46**: 625–631. [29]
- Arita, I., Jezek, Z., Khodakevich, L. & Kalisa Ruti (1985) Human monkeypox: a newly emerged orthopoxvirus zoonosis in the tropical rain forests of Africa. *American journal of tropical medicine and hygiene*, **34**: 781–789. [29]
- Arita, I., Wickett, J. & Fenner, F. (1986) Impact of population density on immunization programmes. *Journal of hygiene*, **96**: 459–466. [4]
- Arita, M. & Tagaya, I. (1980) Virion polypeptides of poxviruses. *Archives of virology*, **63**: 209–225. [2]
- Arnt, N. & Morris, L. (1972) Smallpox outbreaks in two Brazilian villages: epidemiologic characteristics. *American journal of epidemiology*, **95**: 363–370. [12]
- Austin, J.E. (1979) *The management bottleneck in family planning programmes*, Cambridge, Harvard University School of Business Administration. [31]
- Ayalew, S. (1982) Ethiopia: time-budgeting for development. *World health forum*, **3**: 129–131. [21]
- Azeredo Costa, E. & Morris, L. (1975) Smallpox epidemic in a Brazilian community. *American journal of epidemiology*, **101**: 552–561. [4, 12]
- Azeredo Costa, E., Ribeiro, J. & Morris, L. (1971) Variola na feira de Canarama. *Gazeta médica da Bahia*, **71**: 1–6. [12]
- Bacteriological reviews*, 1966, **30**: 485–696 (Airborne infections). [4]
- Ballard, E. (1868) *On vaccination: its value and alleged dangers*, London, Longman, Green. [6]
- Barker, L.F. (1969) Further attenuated vaccinia virus: a possible alternative for primary immunization. In: *Sixth Annual Immunization Conference, Atlanta, March 11–13, 1969*, Atlanta, United States Communicable Disease Center, p. 55. [11]
- Barojan, O.V. & Serenko, A.F. (1961) [The smallpox outbreak in Moscow in 1959–60]. *Zhurnal mikrobiologii, epidemiologii i immunobiologii*, **32**: 672–680 (in Russian). [8]
- Baron, J. (1838) *The life of Edward Jenner*, 2 vols., London, Colburn. [6]
- Baroudy B.M., Venkatesan S. & Moss B. (1982) Incompletely base-paired flip-flop terminal loops link the two DNA strands of the vaccinia virus genome into one uninterrupted polynucleotide chain. *Cell*, **28**: 315–324. [2]
- Barry, F.W. (1889) *Report on an epidemic of smallpox in Sheffield, 1887–8*, London, H.M. Stationery Office. [3]
- Bartlett, M.S. (1957) Measles periodicity and community size. *Journal of the Royal Statistical Society, Series A*, **120**: 48–59. [2, 4]
- Bartlett, M.S. (1960) The critical community size for measles in the United States. *Journal of the Royal Statistical Society, Series A*, **123**: 27–44. [2]
- Basu, R.N. & Khodakevich, L.N. (1978a) The national commission for the assessment of the smallpox eradication programme in India. *Indian journal of public health*, **22**: 16–30. [25]
- Basu, R.N. & Khodakevich, L.N. (1978b) Surveillance at weekly markets in the smallpox eradication programme in India. *Indian journal of public health*, **22**: 44–49. [15]
- Basu, R.N., Ježek, Z. & Ward, N.A. (1979) *The eradication of smallpox from India*, Geneva, World Health Organization (History of International Public Health, No. 2; also WHO Regional Publications: South-East Asia Series, No. 5). [1, 4, 10, 15, 25, 28, 30, 31]
- Bauer, D.J. (1972) Thiosemicarbazones. In: Bauer, D.J., ed. *Chemotherapy of virus diseases. (International Encyclopedia of Pharmacology and Therapeutics, Section 61)*, Oxford, Pergamon Press, Vol. 1, pp. 35–113. [1]
- Bauer, D.J. & Sadler, P.W. (1960) The structure-activity relationships of the antiviral chemotherapeutic activity of isatin β -thiosemicarbazone. *British journal of pharmacology and therapeutics*, **15**: 101–110. [1]
- Bauer, D.J., St. Vincent, L., Kempe, C.H. & Downie, A.W. (1963) Prophylactic treatment of smallpox contacts with N-methylisatin β -thiosemicarbazone (compound 33T57, Marboran). *Lancet*, **2**: 494–496. [1]
- Bauer, D.J., St. Vincent, L., Kempe, C.H., Young, P.A. & Downie, A.W. (1969) Prophylaxis of smallpox with methisazone. *American journal of epidemiology*, **90**: 130–145. [1]
- Baxby, D. (1972) Smallpox-like viruses from camels in Iran. *Lancet*, **2**: 1063–1065. [2, 29]
- Baxby, D. (1974) Differentiation of smallpox and camelpox viruses in cultures of human and monkey cells. *Journal of hygiene*, **72**: 251–254. [2]
- Baxby, D. (1975) Identification and interrelationships of the variola/vaccinia subgroup of poxviruses. *Progress in medical virology*, **19**: 215–246. [2]
- Baxby, D. (1977a) Is cowpox misnamed? A review of 10 human cases. *British medical journal*, **1**: 1379–1381. [29]
- Baxby, D. (1977b) Poxvirus hosts and reservoirs. *Archives of virology*, **55**: 169–179. [2]
- Baxby, D. (1977c) The origins of vaccinia virus. *Journal of infectious diseases*, **136**: 453–455. [2]
- Baxby, D. (1981) *Jenner's smallpox vaccine. The riddle of the origin of vaccinia virus*, London, Heinemann. [2, 6, 7, 29]
- Baxby, D. (1982a) The surface antigens of orthopoxviruses detected by cross-neutralization tests on cross-absorbed sera. *Journal of general virology*, **58**: 251–262. [2]
- Baxby, D. (1982b) The natural history of cowpox. *Bristol medico-chirurgical journal*, **97**: 12–16. [29]
- Baxby, D. & Ghabousi, B. (1977) Laboratory characteristics of poxviruses isolated from captive elephants in Germany. *Journal of general virology*, **37**: 407–414. [29]
- Baxby, D. & Hill, B.J. (1971) Characteristics of a new poxvirus isolated from Indian buffaloes. *Archiv für die gesamte Virusforschung*, **35**: 70–79. [2, 29]
- Baxby, D., Shackleton, W.B., Wheeler, J. & Turner, A. (1979) Comparison of cowpox-like viruses isolated from European zoos. *Archives of virology*, **61**: 337–340. [29]
- Baxby, D., Ashton, D.G., Jones, D.M. & Thomsett, L.R. (1982) An outbreak of cowpox in captive cheetahs: virological and epidemiological studies. *Journal of hygiene*, **89**: 365–372. [29]

- Bayoumi, A. (1972) Mecca pilgrimage: the socio-medical problems it presents in the Sudan. *Sudan medical journal*, **10**: 108–116. [8]
- Bayoumi, A. (1974) Smallpox in the Sudan, 1925–1965. *East African medical journal*, **51**: 131–140. [8]
- Bedson, H.S. (1964) *The ceiling temperature of pox viruses*. M.D. thesis, University of London. [29, 30]
- Bedson, H.S. (1982) Enzyme studies for the characterization of some orthopoxvirus isolates. *Bulletin of the World Health Organization*, **60**: 377–380. [2]
- Bedson, H.S. & Duckworth, M.J. (1963) Rabbit pox: an experimental study of the pathways of infection in rabbits. *Journal of pathology and bacteriology*, **85**: 1–20. [3]
- Bedson, H.S. & Dumbell, K.R. (1961) The effect of temperature on the growth of pox viruses in the chick embryo. *Journal of hygiene*, **59**: 457–469. [2]
- Bedson, H.S. & Dumbell, K.R. (1964a) Hybrids derived from the viruses of alastrim and rabbit pox. *Journal of hygiene*, **62**: 141–146. [2]
- Bedson, H.S. & Dumbell, K.R. (1964b) Hybrids derived from the viruses of variola major and cowpox. *Journal of hygiene*, **62**: 147–158. [2]
- Bedson, H.S., Dumbell, K.R. & Thomas, W.R.G. (1963) Variola in Tanganyika. *Lancet*, **2**: 1085–1088. [2]
- Bell, R. & Torrigiani, G., ed. (1984) *New approaches to vaccine development*, Basel, Schwabe. [28]
- Benenson, A.S. (1950) Immediate (so-called "immune") reaction to smallpox vaccination. *Journal of the American Medical Association*, **143**: 1238–1249. [3]
- Benenson, A.S. (1974) Routine vaccination for all is still indicated. In: Ingelfinger, F.J., Ebert, R.V., Finland, M. & Relman, A.S., ed. *Controversy in internal medicine*, II, Philadelphia, Saunders, pp. 371–381. [7]
- Benn, E.C. (1963) Smallpox in Bradford 1962: a clinical review. *Proceedings of the Royal Society of Medicine*, **56**: 343–345. [1]
- Bennett, M., Gaskell, C.J., Gaskell, R.M., Baxby, D. & Gruffydd-Jones, T.J. (1986) Poxvirus infection in the domestic cat: some clinical and epidemiological observations. *Veterinary record*, **118**: 387–390. [29]
- Berger, K. & Heinrich, W. (1973) Decrease in postvaccinal deaths in Austria after introducing a less pathogenic virus strain. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October, 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 199–203. [7]
- Berger, K. & Puntigam, F. (1954) Ueber die Erkrankungshäufigkeit verschiedener Altersklassen von Erstimpflingen an postvakzinaler Enzephalitis nach subcutaner Pockenschutzimpfung. *Wiener medizinische Wochenschrift*, **104**: 487–492. [7]
- Berke, Z. (1956) Pockenbekämpfung in Afghanistan. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **165**: 301–304. [8, 14]
- Berry, G.P. & Dedrick, H.M. (1936) A method for changing the virus of rabbit fibroma (Shope) into that of infectious myxomatosis (Sanarelli). *Journal of bacteriology*, **31**: 50. [2]
- Best, E.W.R. & Davis, J.W. (1965) Smallpox control in Canada. *Canadian Medical Association Journal*, **92**: 1247–1252. [23]
- Bharucha, P.B. (1975) Role of voluntary organisations in intensified campaign against smallpox in Chotanagpur Division, Bihar. *Journal of communicable diseases*, **7**: 218–221. [15]
- Bhattacharyya, L.M., Sengupta, D.N., Pain, G.C., Bose, D.K., Mukherjee, S. & Mondal, A. (1965) ABO blood group and smallpox. *Journal of the Indian Medical Association*, **45**: 234–236. [3]
- Black, F.L. (1966) Measles endemicity in insular populations: critical community size and its evolutionary implication. *Journal of theoretical biology*, **11**: 207–211. [2, 4]
- Black, F.L. (1982) Geographic and sociologic factors in the epidemiology of virus diseases. In: Mackenzie, J.S., ed. *Viral diseases in South-East Asia and the Western Pacific*, Sydney, Academic Press, pp. 23–33. [2]
- Black, F.L., Hierholzer, W.J., Pinheiro, F. deP., Evans, A.S., Woodall, J.P., Opton, E.M., Emmons, J.E., West, B.S., Edsall, G., Downs, W.G. & Wallace, G.D. (1974) Evidence for persistence of infectious agents in isolated human populations. *American journal of epidemiology*, **100**: 230–250. [4]
- Blackman, K.E. & Bubel, H.C. (1972) Origin of the vaccinia virus hemagglutinin. *Journal of virology*, **9**: 290–296. [3]
- Blake, J.B. (1953) Smallpox inoculation in colonial Boston. *Journal of the history of medicine*, **8**: 284–300. [6]
- Blake, J.B. (1957) *Benjamin Waterhouse and the introduction of vaccination; a reappraisal*, Philadelphia, University of Pennsylvania Press. [6]
- Blake, J.B. (1959) *Public health in the town of Boston 1630–1822*, Cambridge, Harvard University Press. [5, 6]
- Blanden, R.V. (1970) Mechanisms of recovery from a generalized viral infection: mousepox. I. The effects of anti-thymocyte serum. *Journal of experimental medicine*, **132**: 1035–1054. [3]
- Blanden, R.V. (1971a) Mechanisms of recovery from a generalized viral infection: mousepox. II. Passive transfer of recovery mechanisms with immune lymphoid cells. *Journal of experimental medicine*, **133**: 1074–1089. [3]
- Blanden, R.V. (1971b) Mechanisms of recovery from a generalized viral infection: mousepox. III. Regression of infectious foci. *Journal of experimental medicine*, **133**: 1090–1104. [3]
- Blanden, R.V. (1974) T cell response to viral and bacterial infection. *Transplantation reviews*, **19**: 56–88. [3]
- Blattner, R.J., Norman, J.O., Heys, F.M. & Aksu, I. (1964) Antibody response to cutaneous inoculation with vaccinia virus: viremia and viruria in vaccinated children. *Journal of pediatrics*, **64**: 839–852. [3]
- Bleyer, J.C. (1922) Ueber Auftreten von Variola unter Affen der Genera *Mycetes* und *Cebus* bei Vordringen einer Pockenepidemie im Urwaldgebiete an den Nebenflüssen des Alto Uruguay in Südbrasilien. *Münchener medizinische Wochenschrift*, **69**: 1009–1010. [30]
- Boobbyer, P. (1894) In "Report to Nottingham Medico-Chirurgical Society". *British medical journal*, **1**: 1245. [1]
- Boobbyer, P. (1901) Small-pox in Nottingham and elsewhere. *Lancet*, **1**: 1232. [8]
- Boorstin, D.J. (1958) *The Americans: the colonial experience*, New York, Random House. [5]
- Boulter, E.A. & Appleyard, G. (1973) Differences between extracellular and intracellular forms of poxvirus and their implications. *Progress in medical virology*, **16**: 86–108. [2, 3]

- Boulter, E.A., Maber, H.B. & Bowen, E.T.W. (1961a) Studies on the physiological disturbances occurring in experimental rabbit pox: an approach to rational therapy. *British journal of experimental pathology*, **42**: 433-444. [3]
- Boulter, E.A., Westwood, J.C.N. & Maber, H.B. (1961b) Value of serotherapy in a virus disease (rabbit pox). *Lancet*, **2**: 1012-1015. [3]
- Boulter, E.A., Zwartouw, H.T., Titmuss, D.H.J. & Maber, H.B. (1971) The nature of the immune state produced by inactivated vaccinia virus in rabbits. *American journal of epidemiology*, **94**: 612-620. [3]
- Bourke, A.T.C. & Dumbell, K.R. (1972) An unusual poxvirus from Nigeria. *Bulletin of the World Health Organization*, **46**: 621-623. [2]
- Bowers, J.Z. (1981) The odyssey of smallpox vaccination. *Bulletin of the history of medicine*, **55**: 17-33. [6]
- Boyd, W.L. & Boyd, J.B. (1964) The presence of bacteria in permafrost in the Alaska Arctic. *Canadian journal of microbiology*, **10**: 917-919. [30]
- Braginskaya, V.P., Sokolova, A.F. & Livanova, L.V. (1971) [Complications following immunization of children with certain vaccines]. *Voprosy okhrany materinstva i detstva*, **16** (8): 18-24 (in Russian). [7]
- Brainerd, H.D., Hanna, L. & Jawetz, E. (1967) Methisazone in progressive vaccinia. *New England journal of medicine*, **276**: 620-622. [7]
- Bras, G. (1952a) The morbid anatomy of smallpox. *Documenta de medicina geographica et tropica*, **4**: 303-351. [1, 3, 30]
- Bras, G. (1952b) Observations on the formation of smallpox scars. *Archives of pathology*, **54**: 149-156. [1, 3]
- Breman, J.G. (1971) *Smallpox epidemiology and eradication in Guinea, West Africa*. Dissertation for the Diploma in Tropical Public Health. Ross Institute, London School of Hygiene and Tropical Medicine, University of London. [17]
- Breman, J.G., Coffi, E., Bomba-Ires, K.R., Foster, S.O. & Hermann, K.L. (1975) Evaluation of a measles-smallpox vaccination campaign by a sero-epidemiologic method. *American journal of epidemiology*, **102**: 564-571. [7]
- Breman, J.G., Alécaut, A.B. & Lane, J.M. (1977a) Smallpox in the Republic of Guinea, West Africa. I. History and epidemiology. *American journal of tropical medicine and hygiene*, **26**: 756-764. [8, 17]
- Breman, J.G., Alécaut, A.B., Malberg, D.R., Charter, R.S. & Lane, J.M. (1977b) Smallpox in the Republic of Guinea, West Africa. II. Eradication using mobile teams. *American journal of tropical medicine and hygiene*, **26**: 765-774. [17]
- Breman, J.G., Bernadou, J. & Nakano, J.H. (1977c) Poxvirus in West African nonhuman primates: serological survey results. *Bulletin of the World Health Organization*, **55**: 605-612. [29]
- Breman, J.G., Kalisa-Ruti, Stenioski, M.V., Zanotto, E., Gromyko, A.I. & Arita, I. (1980) Human monkeypox, 1970-79. *Bulletin of the World Health Organization*, **58**: 165-182. [29]
- Brenner, S. & Horne, R.W. (1959) A negative staining method for high resolution electron microscopy of viruses. *Biochimica et biophysica acta*, **34**: 103-110. [2]
- Brilliant, L.B. (1985) *The management of smallpox eradication in India: a case study and analysis*, Ann Arbor, University of Michigan Press. [10, 15, 28, 31]
- Brinckerhoff, W.R. & Tyyzer, E.E. (1906) Studies upon experimental variola and vaccinia in Quadrumania. *Journal of medical research*, **14**: 223-359. [2, 3]
- Briody, B.A., Hauschka, T.S. & Mirand, E.A. (1956) The role of genotype in resistance to an epidemic of mouse pox (ectromelia). *American journal of hygiene*, **63**: 59-68. [3]
- British medical journal*, 1896, **1**: 1245-1307 (Jenner Centenary Number, May 23, 1896). [6]
- British medical journal*, 1962, **1**: 164-165 (Smallpox in England). [8]
- Bronson, L.H. & Parker, R.F. (1941) Neutralization of vaccine virus by immune serum. Titration by means of intracerebral inoculation of mice. *Journal of immunology*, **41**: 269-278. [3]
- Brown, F., Schild, G.C. & Ada, G.L. (1986) Recombinant vaccinia viruses as vaccines. *Nature*, **319**: 549-550. [28]
- Brown, S.T., Nalley, J.F. & Kraus, S.J. (1981) Molluscum contagiosum. *Sexually transmitted diseases*, **8**: 227-234. [29]
- Brown, W.C. (1896) The differential diagnosis of smallpox in recent epidemics in the Cape colony. *South African medical journal*, **4**: 103-110. [5]
- Browne, S.G. & Davis, E.M. (1962) Reaction in leprosy precipitated by smallpox vaccination. *Leprosy review*, **33**: 252-254. [7]
- Brunell, P.A., Cohen, B.H. & Granat, M. (1971) A gel-precipitin test for the diagnosis of varicella. *Bulletin of the World Health Organization*, **44**: 811-814. [1]
- Bryant, C.E. (1968) *Operation Brother's Brother*, New York, Lippincott. [17]
- Buchanan, G.S. (1905) On the spread of small-pox occasioned by small-pox hospitals during the epidemic period, 1900-1904; and its relation to atmospheric convection. *Transactions of the Epidemiological Society of London, New Series*, **24**: 143-258. [4]
- Buddingh, G.J. (1953) The nomenclature and classification of the pox group of viruses. *Annals of the New York Academy of Sciences*, **56**: 561-566. [2]
- Bugbee, L.M., Like, A.A. & Stewart, R.B. (1960) The effects of cortisone on intradermally induced vaccinia infection in rabbits. *Journal of infectious diseases*, **106**: 166-173. [3]
- Bulletin of the World Health Organization*, 1984, **62**: 703-713 (The current status of human monkeypox. Memorandum of a WHO meeting). [28]
- Burgasov, P.N. (1968) [Human infectious diseases in the USSR (statistical review)], Moscow, Meditsina (in Russian). [9]
- Burke, J.P., Hopkins, D.R., Hume, J.C., Perine, P.L. & St. John, R., ed. (1985) International symposium on yaws and other endemic treponematoses. *Reviews of infectious diseases*, **7**: S217-S351. (31)
- Burnet, F.M. (1936) The use of the developing egg in virus research. *Medical Research Council Special Report Series*, No. 220. [2]
- Burnet, F.M. (1940) *Biological aspects of infectious diseases*, Cambridge, Cambridge University Press. [9]
- Burnet, F.M. (1946) Vaccinia haemagglutinin. *Nature*, **158**: 119-120. [2]
- Burnet, F.M. (1952) The pattern of disease in childhood. *Australasian annals of medicine*, **1**: 93-108. [1]
- Burnet, F.M. & Boake, W.C. (1946) The relationship between the virus of infectious ectromelia of mice and vaccinia virus. *Journal of immunology*, **53**: 1-13. [2]
- Burnet, F.M. & Stone, J.D. (1946) The haemagglutinins of vaccinia and ectromelia viruses. *Australian journal of experimental biology and medical science*, **24**: 1-8. [2]
- Burton, R.F. (1860) *The lake regions of central Africa*, London, Longman, Green. [5]

- Butlin, N.G. (1983) *Our original aggression. Aboriginal populations of southeastern Australia 1788–1850*, Sydney, Allen & Unwin. [5]
- Butlin, N.G. (1985) Macassans and aboriginal smallpox: the '1789' and '1829' epidemics. *Historical studies*, **21**: 315–335. [5]
- Cairns, J. (1960) The initiation of vaccinia infection. *Virology*, **11**: 603–623. [2]
- Calmette, A. & Guérin, C. (1901) Recherches sur la vaccine expérimentale. *Annales de l'Institut Pasteur*, **15**: 161–168. [2]
- Campbell, J. (1983) Smallpox in aboriginal Australia, 1829–31. *Historical studies*, **20**: 536–556. [5]
- Campbell, J. (1985) Smallpox in aboriginal Australia, the early 1830s. *Historical studies*, **21**: 336–358. [5]
- Camus, L. (1909) Quelques modifications à la préparation et à la conservation du vaccin sec. *Comptes rendus des séances de la Société de Biologie*, **67**: 626–629. [2, 7]
- Camus, L. (1917) De l'influence de la vaso-dilatation sur la localisation des pustules vaccinales spontanées. *Bulletin de l'Académie de Médecine*, **77** (Series 3): 111–113. [3]
- Cantrelle, P. (1965) Mortalité et morbidité par rougeole dans les pays francophones de l'Ouest africain. *Archiv für die gesamte Virusforschung*, **16**: 35–45. [17]
- Carini, A. (1911) À propos d'une épidémie très bénigne de variole. *Bulletin de la Société de Pathologie exotique*, **4**: 35–37. [8]
- Carl, A. (1799) *Darstellung des dritten Jahrgangs der zu Brunn gestiften Blätternimpfanstalt*, Brno. [6]
- Carl, A. (1802) *Ausrottung der Menschenblattern durch Kuehpocken*, Prague. [6, 9]
- Carmichael, A.G. (1983) Infection, hidden hunger and history. *Journal of interdisciplinary history*, **14**: 249–264. [5]
- Cassel, W.A. (1957) Multiplication of vaccinia virus in the Ehrlich ascites carcinoma. *Virology*, **3**: 514–526. [3]
- Ceely, R. (1842) Further observations on the variolae vaccinae. *Transactions of the Provincial Medical and Surgical Association*, **10**: 209–276. Reproduced in: Crookshank, E.M., *op. cit.* [6, 29]
- Chandra, R.K. (1979) Nutritional deficiency and susceptibility to infection. *Bulletin of the World Health Organization*, **57**: 167–177. [3]
- Chapin, C.V. (1913) Variation in type of infectious disease as shown by the history of smallpox in the United States, 1895–1912. *Journal of infectious diseases*, **13**: 171–196. [1, 5, 8]
- Chapin, C.V. (1926) Changes in type of contagious disease with special reference to smallpox and scarlet fever. *Journal of preventive medicine*, **1**: 1–29. [1, 8]
- Chapin, C.V. & Smith, J. (1932) Permanency of the mild type of smallpox. *Journal of preventive medicine*, **6**: 273–320. [2, 5, 8]
- Chase, A. (1982) *Magic shots. A human and scientific account of the long struggle to eradicate infectious diseases by vaccination*, New York, Morrow. [6]
- Chaveau J.-B. (1866) Des conditions qui président au développement de la vaccine dite primitive. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences, D: sciences naturelles*, **63**: 573–576. [6]
- Chaveau, J.-B. A. (1868) Nature du virus vaccin. Détermination expérimentale des éléments qui constituent le principe actif de la sérosité vaccinale virulente. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences, D: sciences naturelles*, **66**: 289–293. [2]
- Chen, L.C. & Rohde, J.E. (1973) Civil war in Bangladesh: Famine averted? In: Chen, L.C., ed. *Disaster in Bangladesh*, New York, Oxford University Press, pp. 190–205. [16]
- Chernos, V.I., Belanov, E.G. & Vasilieva, N.N. (1978) Temperature sensitive mutants of vaccinia virus. 1. Isolation and preliminary characterization. *Acta virologica*, **22**: 81–90. [2]
- Cherry, J.D., McIntosh, K., Connor, J.D., Benenson, A.S., Alling, D.W., Rolfe, U.T., Todd, W.A., Schanberger, J.E. & Mattheis, M.J. (1977) Primary percutaneous vaccination. *Journal of infectious diseases*, **135**: 145–154. [4]
- Cho, C.T. & Wenner, H.A. (1973) Monkeypox virus. *Bacteriological reviews*, **37**: 1–18. [3]
- Christensen, L.R., Bond, E. & Matanic, B. (1967) "Pock-less" rabbit pox. *Laboratory animal care*, **17**: 281–296. [3]
- Christie, A.B. (1980) *Infectious diseases: epidemiology and clinical practice*, 3rd ed., Edinburgh, Churchill Livingstone. [1, 4]
- Chu, C.M. (1948) Studies on vaccinia haemagglutinin. I. Some physicochemical properties. *Journal of hygiene*, **46**: 42–48. [2]
- Clausell, D.T. (1963) Preparo de vacina antivariólica na membrana córion-alantóide de embrião de galinha. *Hospital*, **63**: 1055–1070. [11]
- Cockburn, A. (1963) *The evolution and eradication of infectious diseases*, Baltimore, Johns Hopkins University Press. [9]
- Cockburn, W.C., Cross, R.M., Downie, A.W., Dumbell, K.R., Kaplan, C., McClean, D. & Payne, A.M.-M. (1957) Laboratory and vaccination studies with dried smallpox vaccines. *Bulletin of the World Health Organization*, **16**: 63–77. [4, 7]
- Cockshott, P. & MacGregor, M. (1958) Osteomyelitis variolosa. *Quarterly journal of medicine*, **27**: 369–387. [1]
- Cockshott, W.P. (1965) Osteomyelitis variolosa. *Zeitschrift für Tropenmedizin und Parasitologie*, **16**: 199–206. [1]
- Cohen, W.B. (1971) *Rulers of empire: The French colonial service in Africa*, Stanford, Hoover Institute Press. [17]
- Cole, G.A. & Blanden, R.V. (1982) Immunology of poxviruses. In: Nahmias, A.J. & O'Reilly, R. J., ed. *Comprehensive immunology, volume 9, Immunology of human infection, part II: Viruses and parasites; immunodiagnosis and prevention of infectious diseases*, New York, Plenum Press, pp. 1–19. [3]
- Coleman, D.V., Wolfendale, M.R., Daniel, R.A., Dhanjal, N.K., Gardner, S.D., Gibson, P.E. & Field, A.M. (1980) A prospective study of human polyomavirus infection in pregnancy. *Journal of infectious diseases*, **142**: 1–8. [3]
- Collie, A. (1912) *Small-pox and its diffusion*, Bristol, Wright. [4]
- Collier, L.H. (1951) The preservation of vaccinia virus by freeze-drying. In: Harris, R.J.C., ed. *Freezing and drying*, London, Institute of Biology, pp. 133–137. [7]
- Collier, L.H. (1954) The preservation of vaccinia virus. *Bacteriological reviews*, **18**: 74–86. [7]
- Collier, L.H. (1955) The development of a stable smallpox vaccine. *Journal of hygiene*, **53**: 76–101. [7]
- Collier, W.A. (1953) Vaccins antivarioliques secs. Préparation du vaccin d'Otten à l'Institut Pasteur de Bandoeng, Indonésie. *Boletín de la Oficina Sanitaria Panamericana*, **34**: 143–163. [7]
- Conacher, D.G. (1957) Smallpox in Tanganyika 1918–1954. *East African medical journal*, **34**: 157–181. [8]

- Congrès Médical de Lyon (1864) Compte-rendu des travaux et des discussions. *Gazette médicale de Lyon*, 19: 449–471. [6]
- Conybeare, E.T. (1950) Cases in which smallpox was suspected but unconfirmed. *Monthly Bulletin of the Ministry of Health and the Public Health Laboratory Service*, 9: 56–61. [1]
- Conybeare, E.T. (1964a) Illness attributed to smallpox vaccination during 1951–1960. *Monthly Bulletin of the Ministry of Health and the Public Health Laboratory Service*, 23: 126–133. [7]
- Conybeare, E.T. (1964b) Illnesses attributed to smallpox vaccination, 1951–1960. Part II—Illnesses reported as affecting the central nervous system. *Monthly Bulletin of the Ministry of Health and the Public Health Laboratory Service*, 23, 150–159. [3, 7]
- Cook, E.B.M., Bell, M., Forsyth, P., Irons, J.V. & Cox, G.W. (1953) Use of chorio-allantoic membrane culture smallpox vaccine in Texas. *Texas reports on biology and medicine*, 11: 522–529. [11]
- Copeman, S.M. (1892) The bacteriology of vaccine lymph. In: Shelly, C.E., ed. *Transactions of the Seventh International Congress of Hygiene and Demography*, London, August, 10th–17th, 1891, London, Eyre & Spottiswoode, Vol. 2, pp. 319–326. [6, 7]
- Copeman, S.M. (1894) Variola and vaccinia, their manifestations and inter-relations in the lower animals: a comparative study. *Journal of pathology and bacteriology*, 2: 407–427. [30]
- Copeman, S.M. (1899) *Vaccination: its natural history and pathology*, London, Macmillan. [6, 7]
- Copeman, S.M. (1920) The relationship of small-pox and alastrim. In: England and Wales, Ministry of Health, *Annual Report of the Chief Medical Officer, 1919–20*, London, H. M. Stationery Office, Appendix II, pp. 271–282. [8]
- Cort, W.W. (1921) Investigations on the control of hookworm disease. I. General introduction. *American journal of hygiene*, 1: 557–568. [9]
- Couch, R.B., Douglas, R.G. Jr, Lindgren, K.M., Gerone, P.J. & Knight, V. (1970) Airborne transmission of respiratory infection with coxsackievirus A type 21. *American journal of epidemiology*, 91: 78–86. [4]
- Coulanges, P. (1977) Variole et vaccine à Madagascar et aux Comores. *Archives de l'Institut Pasteur de Madagascar*, 45: 127–204. [8]
- Coult, R. (1731) Operation of inoculation of the smallpox as performed in Bengall (from R. Coult to Dr Oliver Coult in *An account of the diseases of Bengall* (dated Calcutta, Feb 10. 1731). Reprinted in: Dharmpal (1971) *Indian science and technology in the eighteenth century*, Delhi, Impex India, pp. 141–143. [6]
- Councilman, W.T. (1907) Smallpox. In: Osler, W. & McCrae, T., ed. *A system of medicine*, London, Oxford University Press, Vol. 2, pp. 250–300. [1]
- Councilman, W.T., Magrath, G.B. & Brinckerhoff, W.R. (1904) The pathological anatomy and histology of variola. *Journal of medical research*, 11: 12–135. [3]
- [Cox, P.J. (Chairman)] (1974) *Report of the committee of enquiry into the smallpox outbreak in London in March and April 1973*, London, H. M. Stationery Office. [23, 30]
- Craigie, J. & Wishart, F.O. (1936) Complement-fixation reaction in variola. *Canadian journal of public health*, 27: 371–379. [2]
- Creighton, C. (1887) *The natural history of cow-pox and vaccinal syphilis*, London, Cassell. [6]
- Creighton, C. (1889) *Jenner and vaccination*, London, Sonnenschein. [6]
- Creighton, C. (1894) *History of epidemics in Britain*, 2 vols., Cambridge, Cambridge University Press. Reprinted 1965, London, Cass. [6]
- Crookshank, E.M. (1889) *History and pathology of vaccination*, 2 vols., London, Lewis. [2, 6]
- Crosby, A.W., Jr (1967) Conquistador y pestilencia: the first new world pandemic and the fall of the great Indian empires. *Hispanic American historical review*, 47: 321–337. [4]
- Crosby, A.W. (1976) Virgin soil epidemics as a factor in the aboriginal depopulation in America. *William and Mary quarterly*, 33: 289–299. [5]
- Cross, R.M., Kaplan, C. & McClean, D. (1957) The heat resistance of dried smallpox vaccine. *Lancet*, 1: 446–448. [11]
- Cruickshank, J.G., Bedson, H.S. & Watson, D.H. (1966) Electron microscopy in the rapid diagnosis of smallpox. *Lancet*, 2: 527–530. [2]
- Cumpston, J.H.L. (1914) *The history of small-pox in Australia, 1788–1908*, Melbourne, Government Printer, (Commonwealth of Australia, Quarantine Service Publication No. 3). [5, 6, 7]
- Cumpston, J.H.L. & McCallum, F. (1925) *The history of small-pox in Australia, 1909–1923*, Melbourne, Government Printer (Commonwealth of Australia, Department of Health Service Publication No. 29). [4, 7, 8]
- Curschmann, H. (1875) Small-pox. In: Ziemssen, H. von, *Cyclopaedia of the practice of medicine*, London, Sampson Low, Marston, Low, & Searle, Vol. II, pp. 319–416. [1]
- Dahaby, H. El, Sabbagh, A. El, Nassar, M., Kamell, M. & Iskander, M. (1966) Investigations on an outbreak of cowpox, with special reference to the disease in Egypt, UAR. *Journal of the Arab Veterinary Medical Association*, 26: 11–24. [2]
- Dales, S. (1963) The uptake and development of vaccinia virus in strain L cells followed with labeled viral deoxyribonucleic acid. *Journal of cell biology*, 18: 51–72. [2]
- Dales, S. & Siminovitch, L. (1961) The development of vaccinia virus in Earle's strain L cells as examined by electron microscopy. *Journal of biophysical and biochemical cytology*, 10: 475–503. [2]
- Dales, S., Milovanovitch, V., Pogo, B.G.T., Weintraub, S.B., Huima, T., Wilton, S. & McFadden, G. (1978) Biogenesis of vaccinia: isolation of conditional lethal mutants and electron microscopic characterization of their phenotypically expressed defects. *Virology*, 84: 403–428. [2]
- D'Amanda, C. (1970) Experiences in Upper Volta with inter-country coordination of containment activities. In: United States National Communicable Disease Center, *op. cit.*, No. 2, pp. 80–81. [17]
- Dann, T.C. (1966) Routine skin preparation before injection: an unnecessary procedure. *Practitioner*, 196: 546–550. [11]
- Dauer, C.C. (1940) Smallpox in the United States: its decline and geographic distribution. *Public health reports*, 55: 2303–2312. [8]
- Davies, J.H.T., Janes, L.R. & Downie, A.W. (1938) Cowpox infection in farm workers. *Lancet*, 2: 1534–1538. [2, 29]
- Dawson, I.M. & McFarlane, A.S. (1948) Structure of an animal virus. *Nature*, 161: 464–466. [2]
- Dawson, M.H. (1979) Smallpox in Kenya, 1880–1920. *Social science and medicine*, 13B: 245–250. [8]

- Dekking, F. (1964) Cowpox and vaccinia. In: Hoeden, J. van der, ed. *Zoonoses*, Amsterdam, Elsevier, pp. 411–418. [2, 29]
- Dekking, F., Rao, A.R., St. Vincent, L. & Kempe, C.H. (1967) The weeping mother, an unusual source of variola virus. *Archiv für die gesamte Virusforschung*, **22**: 215–218. [1]
- Delas, A. (1970) Investigation of imported cases during the smallpox eradication programme in Cameroon. In: United States National Communicable Disease Center, *op. cit.*, No. 2, pp. 183–187. [17]
- Dennis, D.T., Doberstyn, E.B., Awoke, S., Royer, G.L., Jr & Renis, H.E. (1974) Failure of cytosine arabinoside in treating smallpox. *Lancet*, **2**: 377–379. [1]
- Depaul, M. (1867) Expériences faites à l'Académie impériale de Médecine avec le cow-pox ou vaccin animal. *Mémoires de l'Académie impériale de Médecine*, **28**: 1–55. [6]
- Deria, A., Ježek, Z., Markvart, K., Carrasco, P. & Weisfeld, J. (1980) The world's last endemic case of smallpox: surveillance and containment measures. *Bulletin of the World Health Organization*, **58**: 279–283. [4, 22]
- Dick, G. (1966) Smallpox: a reconsideration of public health policies. *Progress in medical virology*, **8**: 1–29. [7]
- Dick, G. (1971) Routine smallpox vaccination. *British medical journal*, **3**: 163–166. [7]
- Dick, G. (1973) Complications of smallpox vaccination in the United Kingdom. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 205–215. [7]
- Dimmick, R.L., Vogl, W.F. & Chatigny, M.A. (1973) Potential for accidental aerosol transmission in the biological laboratory. In: Hellman, A., Oxman, M.N. & Pollack, R., ed. *Biohazards in biological research*, Cold Spring Harbor, Cold Spring Harbor Laboratory, pp. 246–266. [30]
- Dimsdale, T. (1767) *On the present method of inoculation for the small-pox*, London, Owen. [4, 6]
- Dimsdale, T. (1781) *Tracts on inoculation written and published in St. Petersburg, 1768, with additional observations*, London, Phillips. [6]
- Dinger, J.E. (1956) Difference in persistence of smallpox and alastrim virus on the chorio-allantois. *Documenta de medicina geographica et tropica*, **8**: 202–206. [2]
- Dixon, C.W. (1948) Smallpox in Tripolitania, 1946; an epidemiological and clinical study of 500 cases, including trials of penicillin treatment. *Journal of hygiene*, **46**: 351–377. [4]
- Dixon, C.W. (1962) *Smallpox*, London, Churchill. [1, 3, 4, 6, 8, 10, 30]
- Dold, H. (1915) Periodisches Auftreten der Pocken in Schanghai. *Zeitschrift für Hygiene und Infektionskrankheiten*, **80**: 467–480. [8]
- Donaldson, A.I. (1979) Airborne foot-and-mouth disease. *Veterinary bulletin*, **49**: 653–659. [4]
- Donnally, H.H. & Nicholson, M.M. (1934) A study of vaccination in five hundred new-born infants. *Journal of the American Medical Association*, **103**: 1269–1275. [7]
- Doré, H. (1915–1925) *Recherches sur les superstitions en Chine, Shanghai, T'u-se-wei*. [5]
- Douglas, J. & Edgar, W. (1962) Smallpox in Bradford, 1962. *British medical journal*, **1**: 612–614. [23]
- Downie, A.W. (1939a) A study of the lesions produced experimentally by cowpox virus. *Journal of pathology and bacteriology*, **48**: 361–379. [2, 7, 29]
- Downie, A.W. (1939b) The immunological relationship of the virus of spontaneous cowpox to vaccinia virus. *British journal of experimental pathology*, **20**: 158–176. [2, 3, 7, 29]
- Downie, A.W. (1946) The laboratory diagnosis of smallpox. *Monthly Bulletin of the Ministry of Health and the Emergency Public Health Laboratory Service*, **5**: 114–116. [2]
- Downie, A.W. (1951) Jenner's cowpox inoculation. *British medical journal*, **2**: 251–256. [29]
- Downie, A.W. (1965a) Poxvirus group. In: Horsfall, F.L., Jr & Tamm, I., ed. *Viral and rickettsial infections of man*, 4th ed., Philadelphia, Lippincott, pp. 932–964. [3, 29]
- Downie, A.W. (1965b) John Haygarth of Chester and inoculation against smallpox. *Transactions and report of the Medical Institution, Liverpool*, 26–42. [6]
- Downie, A.W. & Dumbell, K.R. (1947a) Survival of variola virus in dried exudate and crusts from smallpox patients. *Lancet*, **1**: 550–553. [2]
- Downie, A.W. & Dumbell, K.R. (1947b) The isolation and cultivation of variola virus on the chorio-allantois of chick embryos. *Journal of pathology and bacteriology*, **59**: 189–198. [2]
- Downie, A.W. & España, C. (1972) Comparison of tanapox virus and yaba-like viruses causing epidemic disease in monkeys. *Journal of hygiene*, **70**: 23–32. [29]
- Downie, A.W. & Haddock, D.W. (1952) A variant of cowpox virus. *Lancet*, **1**: 1049–1050. [2]
- Downie, A.W. & Kempe, C.H. (1969) Poxviruses. In: Lennette, E.H. & Schmidt, N.J., ed. *Diagnostic procedures for viral and rickettsial infections*, 4th ed., New York, American Public Health Association, pp. 281–320. [2]
- Downie, A.W. & McCarthy, K. (1950) The viruses of variola, vaccinia, cowpox and ectromelia. Neutralization tests on the chorio-allantois with unabsorbed and absorbed immune sera. *British journal of experimental pathology*, **31**: 789–796. [2, 3]
- Downie, A.W. & McCarthy, K. (1958) The antibody response in man following infection with viruses of the pox group. III. Antibody response in smallpox. *Journal of hygiene*, **56**: 479–487. [1, 3]
- Downie, A.W., McCarthy, K. & Macdonald, A. (1950) Viraemia in smallpox. *Lancet*, **2**: 513–514. [1, 3]
- Downie, A.W., McCarthy, K., Macdonald, A., MacCallum, F.O. & Macrae, A.D. (1953) Virus and virus antigen in the blood of smallpox patients. Their significances in early diagnosis and prognosis. *Lancet*, **2**: 164–166. [1, 3]
- Downie, A.W., St. Vincent, L., Meiklejohn, G., Ratnakanan, N.R., Rao, A.R., Krishnan, G.N.V. & Kempe, C.H. (1961a) Studies on the virus content of mouth washings in the acute phase of smallpox. *Bulletin of the World Health Organization*, **25**: 49–53. [4]
- Downie, A.W., Hobday, T.L., St. Vincent, L. & Kempe, C.H. (1961b) Studies of smallpox antibody levels of sera from samples of the vaccinated adult population of Madras. *Bulletin of the World Health Organization*, **25**: 55–61. [1]
- Downie, A.W., Dumbell, K.R., Ayroza Galvao, P.O. & Zatz, I. (1963) Alastrim in Brazil. *Tropical and geographical medicine*, **15**: 25–28. [2]
- Downie, A.W., Meiklejohn, M., St. Vincent, L., Rao, A.R., Sundara Babu, B.V. & Kempe, C.H. (1965a) The recovery of smallpox virus from patients and their environment in a smallpox hospital. *Bulletin of the World Health Organization*, **33**: 615–622. [1, 4]

- Downie, A.W., Meiklejohn, G., St. Vincent, L., Rao, A.R., Sundara Babu, B.V. & Kempe, C.H. (1965b) Smallpox frequency and severity in relation to A, B and O blood groups. *Bulletin of the World Health Organization*, **33**: 623–625. [3]
- Downie, A.W., St. Vincent, L., Goldstein, L., Rao, A.R. & Kempe, C.H. (1969a) Antibody response in non-haemorrhagic smallpox patients. *Journal of hygiene*, **67**: 609–618. [1, 3]
- Downie, A.W., Fedson, D.S., St. Vincent, L., Rao, A.R. & Kempe, C.H. (1969b) Haemorrhagic smallpox. *Journal of hygiene*, **67**: 619–629. [1, 3]
- Downie, A.W., Taylor-Robinson, C.H., Caunt, A.E., Nelson, G.S., Manson-Bahr, P.E.C. & Matthews, T.H.C. (1971) Tanapox: a new disease caused by a poxvirus. *British medical journal*, **1**: 363–368. [29]
- Downs, W.G. (1981) A new look at yellow fever and malaria. *American journal of tropical medicine and hygiene*, **30**: 516–522. [9]
- Driessen, J.H. & Greenham, L.W. (1959) Haemadsorption in vaccinia-infected tube tissue cultures. *Archiv für die gesamte Virusforschung*, **9**: 45–55. [3]
- Dubay, L. (1972) Der Stadt- und Kreisphysikus J.A. Reiman und die Variolisation in Prešov. In: *Zborník vedeckej konferencie*, Prešov, Osveta, pp. 58–67. [6]
- Dubos, R. (1959) *Mirage of health*, New York, Doubleday. [9]
- Dubos, R. (1965) *Man adapting*, New Haven, Yale University Press. [9, 31]
- Ducor, D.H. (1947) An improved method of producing smallpox vaccine of low bacterial content. Part I. General methods of production—including description of quarters, equipment and procedures. *Public health reports*, **62**: 565–581. [7]
- Dudgeon, J.A. (1963) Development of smallpox vaccine in England in the eighteenth and nineteenth centuries. *British medical journal*, **1**: 1367–1372. [6]
- Duffy, J., ed. (1977) *Ventures in world health. The memoirs of Fred Lowe Soper*, Washington, Pan American Health Organization. [9]
- Duguid, J.P. (1946) The size and the duration of air-carriage of respiratory droplets and droplet-nuclei. *Journal of hygiene*, **44**: 471–479. [4]
- Duguid, J.P. & Wallace, A.T. (1948) Air infection with dust liberated from clothing. *Lancet*, **2**: 845–849. [4]
- Dumbell, K.R. (1968) Laboratory aids to the control of smallpox in countries where the disease is not endemic. *Progress in medical virology*, **10**: 388–397. [23]
- Dumbell, K.R. (1974) "Wild white" viruses and smallpox. *Lancet*, **2**: 585. [23]
- Dumbell, K.R. & Archard, L.C. (1980) Comparison of white pock (h) mutants of monkeypox virus with parental monkeypox and with variola-like viruses isolated from animals. *Nature*, **286**: 29–32. [2, 30]
- Dumbell, K.R. & Bedson, H.S. (1964) The use of ceiling temperature and reactivation in the isolation of pox virus hybrids. *Journal of hygiene*, **62**: 133–140. [2]
- Dumbell, K.R. & Bedson, H.S. (1966) Adaptation of variola virus to growth in the rabbit. *Journal of pathology and bacteriology*, **91**: 459–465. [2, 6]
- Dumbell, K.R. & Huq, F. (1975) Epidemiological implications of the typing of variola isolates. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **69**: 303–306. [2]
- Dumbell, K.R. & Huq, F. (1986) The virology of variola minor: Correlation of laboratory tests with the geographic distribution and human virulence of variola isolates. *American journal of epidemiology*, **123**: 403–415. [2, 30]
- Dumbell, K.R. & Kapsenberg, J.G. (1982) Laboratory investigation of two "whitepox" viruses and comparison with two variola strains from southern India. *Bulletin of the World Health Organization*, **60**: 381–387. [2, 30]
- Dumbell, K.R. & Wells, D.G.T. (1982) The pathogenicity of variola virus. A comparison of the growth of standard strains of variola major and variola minor viruses in cell cultures from human embryos. *Journal of hygiene*, **89**: 389–398. [2, 3]
- Dumbell, K.R., Bedson, H.S. & Rossier, E. (1961) The laboratory differentiation between variola major and variola minor. *Bulletin of the World Health Organization*, **25**: 73–78. [2]
- Dumbell, K.R., Bedson, H.S. & Nizamuddin, M. (1967) Thermo-efficient strains of variola major virus. *Journal of general virology*, **1**: 379–381. [2]
- Dutta, M., Arora, R.R. & Rao, C.K. (1975) Lessons learnt from the intensified campaign against smallpox in India and their applicability to other national health programmes. *Journal of communicable diseases*, **7**: 209–213. [15, 31]
- Easterbrook, K.B. (1966) Controlled degradation of vaccinia virions *in vitro*: an electron-microscopic study. *Journal of ultrastructure research*, **14**: 484–496. [2]
- Edsall, G. (1973) [Comment on Marennikov (1973)]. In: *International Symposium on Smallpox Vaccine, Biltmore, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, p. 260. [11]
- Edwardes, E.J. (1902) *A concise history of small-pox and vaccination in Europe*, London, Lewis. [6]
- Eeckels, R., Vincent, J. & Seynhaeve, V. (1964) Bone lesions due to smallpox. *Archives of disease in childhood*, **39**: 591–597. [1]
- Emmons, R.W. (1979) Destruction of variola virus stock—California. *Morbidity and mortality weekly report*, **28**: 172–173. [30]
- England and Wales, Department of Health and Social Security (1981) *Whooping cough. Report from the Committee on Safety of Medicines and the Joint Committee on Vaccination and Immunization*, London, H. M. Stationery Office. [7]
- England and Wales, Ministry of Health (1923) *On the state of the public health. Annual report of the Chief Medical Officer of the Ministry of Health for the year 1922*, London, H. M. Stationery Office, p. 83. [8]
- England and Wales, Ministry of Health (1924) *Smallpox and vaccination*, London, H. M. Stationery Office (Reports on public health and medical subjects, No. 8). [7]
- England and Wales, Ministry of Health (1928a) *Report of the committee on vaccination*, London, H. M. Stationery Office. [7]
- England and Wales, Ministry of Health (1928b) *On the state of the public health. Annual report of the Chief Medical Officer of the Ministry of Health for the year 1927*, London, H. M. Stationery Office, pp. 23–25. [30]
- England and Wales, Ministry of Health (1956) *Memorandum on vaccination against smallpox*, London, H. M. Stationery Office. [7]
- England and Wales, Ministry of Health (1962) *Memorandum on vaccination against smallpox*, London, H. M. Stationery Office. [11]
- England and Wales, Ministry of Health (1963) *Smallpox, 1961–1962*, London, H. M. Stationery Office. [23]

- Epidemiological and vital statistics report*, 1953, **6**: 227–256 (A study of smallpox endemicity in the world during 1936–1950). [8]
- Espmark, J.A. (1969) Egg vaccine against smallpox: appraisal of efficacy and innocuity. In: Gušić, B., ed. *Proceedings of the Symposium on Smallpox*, 2 & 3 September, 1969, Zagreb, Yugoslav Academy of Sciences and Arts, pp. 155–165. [11]
- Espmark, J.Å. & Magnusson, B. (1964) A non-specific inhibitor to vaccinia haemagglutination in post mortem human sera. *Acta pathologica et microbiologica Scandinavica*, **62**: 595–599. [3]
- Espmark, J.Å. & Rabo, E. (1965a) Smallpox vaccination with serial dilutions of vaccine. III. Comparisons of take rates in two series of infants (less than 10 weeks and 5–12 months old). *Acta paediatrica Scandinavica*, **54**: 149–154. [7, 11]
- Espmark, J.Å. & Rabo, E. (1965b) The formation of neutralizing antibody following smallpox vaccination in young infants with maternal immunity. *Acta paediatrica Scandinavica*, **54**: 341–347. [7, 11]
- Espmark, J.Å., Rabo, E. & Heller, L. (1973) Smallpox vaccination before the age of three months: evaluation of safety. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 243–247. [7]
- Esposito, J.J. & Knight, J.C. (1984) Nucleotide sequence of the thymidine kinase gene region of monkeypox and variola viruses. *Virology*, **135**: 561–567. [2]
- Esposito, J.J. & Knight, J.C. (1985) Orthopoxvirus DNA: a comparison of restriction profiles and maps. *Virology*, **143**: 230–251. [2, 28, 29]
- Esposito, J.J., Obijeski, J.F. & Nakano, J.H. (1977a) Serological relatedness of monkeypox, variola, and vaccinia viruses. *Journal of medical virology*, **1**: 35–47. [2, 3]
- Esposito, J.J., Obijeski, J.F. & Nakano, J.H. (1977b) The virion and soluble antigen proteins of variola, monkeypox and vaccinia viruses. *Journal of medical virology*, **1**: 95–110. [2]
- Esposito, J.J., Obijeski, J.F. & Nakano, J.H. (1978) Orthopoxvirus DNA: strain differentiation by electrophoresis of restriction endonuclease fragmented virion DNA. *Virology*, **89**: 53–66. [2, 30]
- Esposito, J.J., Nakano, J.H. & Obijeski, J.F. (1985) Can variola-like viruses be derived from monkeypox virus? An investigation based on DNA mapping. *Bulletin of the World Health Organization*, **63**: 695–703. [30]
- Evans, W.H.M. & Foreman, H.M. (1963) Smallpox handler's lung. *Proceedings of the Royal Society of Medicine*, **56**: 274–275. [1]
- Ewart, W.B. (1983) Causes of mortality in a subarctic settlement (York Factory, Man.) 1713–1946. *Canadian Medical Association Journal*, **129**: 571–574. [30]
- Fabre, J. (1948) Smallpox prevalence throughout the world during and after the second world war. *Epidemiological and vital statistics report*, **1**: 268–289. [4, 8]
- Farid, M.A. (1980) The malaria programme—from euphoria to anarchy. *World health forum*, **1**: 8–33. [9]
- Fasquelle, R. & Fasquelle, A. (1949) La vacuna desecada y la lucha contra la viruela en los países cálidos. *Boletín de la Oficina Sanitaria Panamericana*, **28**: 1118–1123. [7]
- Fasquelle, R. & Fasquelle, A. (1971) À propos de l'histoire de la lutte contre la variole dans les pays d'Afrique francophone. *Bulletin de la Société de Pathologie exotique*, **64**: 734–754. [8, 17]
- Federal Register, 1969, **34**: 2610–2612 (Biological products. Additional standards: smallpox vaccine). [11]
- Felsenfeld, O. (1966) *The epidemiology of tropical diseases*, Springfield, Thomas, pp. 336–343. [17]
- Fenner, J. (1948) Quoted in: Wilson, G.S., *op. cit.* [7]
- Fenner, F. (1947a) Studies in infectious ectromelia of mice. I. Immunization of mice against ectromelia with living vaccinia virus. *Australian journal of experimental biology and medical science*, **25**: 257–274. [3]
- Fenner, F. (1947b) Studies in infectious ectromelia of mice. II. Natural transmission: the portal of entry of the virus. *Australian journal of experimental biology and medical science*, **25**: 275–282. [4]
- Fenner, F. (1948a) The clinical features and pathogenesis of mouse-pox (infectious ectromelia of mice). *Journal of pathology and bacteriology*, **60**: 529–552. [3]
- Fenner, F. (1948b) The pathogenesis of the acute exanthems. *Lancet*, **2**: 915–920. [3]
- Fenner, F. (1948c) The epizootic behaviour of mousepox (infectious ectromelia). *British journal of experimental pathology*, **29**: 69–91. [3]
- Fenner, F. (1948d) The epizootic behaviour of mousepox (infectious ectromelia of mice). II. The course of events in long-continued epidemics. *Journal of hygiene*, **46**: 383–393. [3]
- Fenner, F. (1949a) Mouse-pox (infectious ectromelia of mice): a review. *Journal of immunology*, **63**: 341–373. [2]
- Fenner, F. (1949b) Studies in mousepox (infectious ectromelia of mice). IV. Quantitative investigations on the spread of virus through the host in actively and passively immunized animals. *Australian journal of experimental biology and medical science*, **27**: 1–18. [3]
- Fenner, F. (1958) The biological characters of several strains of vaccinia, cowpox and rabbitpox virus. *Virology*, **5**: 502–529. [2, 3]
- Fenner, F. (1959) Genetic studies with mammalian poxviruses. II. Recombination between two strains of vaccinia virus in single HeLa cells. *Virology*, **8**: 499–507. [2]
- Fenner, F. (1962) The reactivation of animal viruses. *British medical journal*, **2**: 135–142. [2]
- Fenner, F. (1982) Mousepox. In: Foster, H., Small, D. & Fox, J., ed. *The mouse in biomedical research*, New York, Academic Press, Vol II, pp. 209–230. [2]
- Fenner, F. (1983) Biological control as exemplified by smallpox eradication and myxomatosis. *Proceedings of the Royal Society, Series B*, **218**: 259–285. [2, 3]
- Fenner, F. (1985) Smallpox, "the most dreadful scourge of the human species". Its global spread and recent eradication. *Medical journal of Australia*, **2**: 728–735, 841–846. [5]
- Fenner, F. & Burnet, F.M. (1957) A short description of the poxvirus group (vaccinia and related viruses). *Virology*, **4**: 305–314. [2]
- Fenner, F. & Ratcliffe, F.N. (1965) *Myxomatosis*, Cambridge, Cambridge University Press. [2, 3, 4]
- Fenner, F. & Sambrook, J.F. (1966) Conditional lethal mutants of rabbitpox virus. II. Mutants (*p*) that fail to multiply in PK-2a cells. *Virology*, **28**: 600–609. [2]
- Fenner, F., Dumbell, K.R., & Wittek, R. (1987) *The orthopoxviruses*, Orlando, Academic Press. [2]
- Fernández del Castillo, F. (1960) *Los viajes de Don Francisco Xavier de Balmis*, Mexico, Galas de México. [6]
- Finkle, J.L. & Crane, B.B. (1976) The World Health Organization and the population issue: organizational issues in the United Nations. *Population and development review*, **2**: 367–393. [10]

- Finsen, N.R. (1901) The chemical rays of light and smallpox. In: Finsen, N.R. (transl. J.H. Sequiera), *Phototherapy*, London, Arnold, pp. 1–36. [5]
- Fleming, A. (1929) On the antibacterial action of cultures of penicillium, with special reference to their use in the isolation of *B. influenzae*. *British journal of experimental pathology*, **10**: 226–236. [30]
- Fleming, G. (1880) Human and animal variola: a study in comparative pathology. *Lancet*, **1**: 164–166, 246–248, 443–445, 484–486, 832–834; **2**: 374–375, 453–455. [2]
- Flosdorff, E.W. & Mudd, S. (1938) An improved procedure and apparatus for preservation of sera, microorganisms and other substances—the cryochemical process. *Journal of immunology*, **34**: 469–490. [7]
- Foege, W.H. & Eddins, D.L. (1973) Mass vaccination programs in developing countries. *Progress in medical virology*, **15**: 205–243. [17]
- Foege, W.H. & Foster, S.O. (1974) Multiple antigen vaccine strategies in developing countries. *American journal of tropical medicine and hygiene*, **23**: 685–689. [7]
- Foege, W.H., Millar, J.D. & Lane, J.M. (1971) Selective epidemiologic control in smallpox eradication. *American journal of epidemiology*, **94**: 311–315. [17]
- Foege, W.H., Millar, J.D. & Henderson, D.A. (1975) Smallpox eradication in West and Central Africa. *Bulletin of the World Health Organization*, **52**: 209–222. [4, 17]
- Fontaine, R.E., Mulrennan, J.A. & Schliessmann, D.J. (1965) 1964 progress report of the *Aedes aegypti* eradication program. *American journal of tropical medicine and hygiene*, **14**: 900–903. [9]
- Food and Agriculture Organization of the United Nations (1981) *Forest resources of tropical Africa*, Rome. [29]
- Fornaciari, G. & Marchetti, A. (1986) Intact smallpox virus particles in an Italian mummy of sixteenth century. *Lancet*, **2**: 625. [28]
- Fosdick, R.B. (1952) *The story of the Rockefeller Foundation*, New York, Harper and Brothers. [9]
- Foster, E.A. (transl. and ed.) (1950) *Motolinia's history of the Indians of New Spain*, Berkeley, The Cortés Society. (Reprinted in 1973 by Greenwood Press, Westport, Conn.) [5]
- Foster, S.O. (1977) Smallpox eradication: lessons learned in Bangladesh. *WHO chronicle*, **31**: 245–247. [31]
- Foster, S.O. & Deria, A. (1983) Smallpox eradication in Somali nomadic encampments: the search for a culturally acceptable method of case detection, case isolation and outbreak control. *Medical anthropology*, **7** (2): 19–25. [22]
- Foster, S.O. & Pifer, J.M. (1971) Mass measles control in West and Central Africa. *African journal of medical sciences*, **2**: 151–158. [17]
- Foster, S.O. & Smith, E.A. (1970) The epidemiology of smallpox in Nigeria. *Journal of the Nigeria Medical Association*, **7**: 41–45. [17]
- Foster, S.O., Brink, E.W., Hutchins, D.L., Pifer, J.M., Lourie, B., Moser, C.R., Cummings, E.C., Kuteyi, O.E.K., Eke, R.E.A., Titus, J.B., Smith, E.A., Hicks, J.W. & Foege, W.H. (1972) Human monkeypox. *Bulletin of the World Health Organization*, **46**: 569–576. [29]
- Foster, S.O., El Sid, A.G.H. & Deria, A. (1978) Spread of smallpox among a Somali nomadic group. *Lancet*, **2**: 831–833. [4, 10, 22]
- Foster, S.O., Ward, N.A., Joarder, A.K., Arnt, N., Tarantola, D., Rahman, M. & Hughes, K. (1980) Smallpox surveillance in Bangladesh: I. Development of surveillance containment strategy. *International journal of epidemiology*, **9**: 329–334. [16]
- Fracastoro, G. (1546) *De contagione et contagiosis morbis* (transl. W.C. Wright, 1930), New York, Putnam. [5, 6]
- Franco, R., Martínez-Santamaría, J. & Torro-Villa, G. (1911) Fiebre amarilla y fiebre espiroquetal; endemias e epidemias en Muzo, de 1907 a 1910. *Academia Nacional de Medicina, Sesiones Científicas del Centenario, Bogotá*, **1**: 169–228. [30]
- Fraser, D.W., Campbell, C.C., Monath, T.M., Goff, P.A. & Gregg, M.B. (1974) Lassa fever in the Eastern Province of Sierra Leone, 1970–1972. I. Epidemiologic studies. *American journal of tropical medicine and hygiene*, **23**: 1131–1139. [28]
- Fraser, S.M.F. (1980) Leicester and smallpox: the Leicester method. *Medical history*, **24**: 315–332. [6, 9]
- Frederiksen, H. (1962) Strategy and tactics for smallpox eradication. *Public health reports*, **77**: 617–622. [17]
- Frederiksen, H., Munoz, N.T. & Molina, A.J. (1959) Smallpox eradication. *Public health reports*, **74**: 771–778. [12]
- Freed, E.R., Dumar, R.J. & Escobar, M.R. (1972) Vaccinia necrosis and its relationship to impaired immunologic responsiveness. *American journal of medicine*, **52**: 411–420. [3]
- Fröbelius, W. (1869) Eine geschichtliche Notiz über die Vaccination im St. Petersburger Findelhause. *St. Petersburger medicinische Zeitschrift*, **16**: 1–28. [7]
- Fulginiti, V.A., Eller, J.J., Downie, A.W. & Kempe, C.H. (1967) Altered reactivity to measles virus. Atypical measles in children previously immunized with inactivated measles virus vaccines. *Journal of the American Medical Association*, **202**: 1075–1080. [3]
- Fulginiti, V.A., Kempe, C.H., Hathaway, W.E., Pearlman, D.S., Serber O.F., Jr, Eller, J.J., Joyner, J.J., Sr & Robinson, A. (1968) Progressive vaccinia in immunologically deficient individuals. *Birth defects original article series*, **4**: 129–145. [3]
- Gabaldón, A. (1951) Nation-wide malaria eradication projects in the Americas. II. Progress of the malaria campaign in Venezuela. *Journal of the National Malaria Society*, **10**: 124–141. [9]
- Galasso, G.J. (1970) Report of a conference. Project studies on immunization against smallpox. *Journal of infectious diseases*, **121**, 575–577. [11]
- Galasso, G.J., Karzon, D.T., Katz, S.L., Krugman, S., Neff, J. & Robbins, F.C., ed. (1977) Clinical and serologic study of four smallpox vaccines comparing variations of dose and route of administration. *Journal of infectious diseases*, **135**: 131–186. [11]
- Galbiati, G. (1810) *Memoria sulla inoculazione vaccina coll' umore ricavato immediatamente dalla vacca precedentemente inoculata*, Naples. [6]
- Ganiev, M.K. & Farzaliev, I.A. (1964) [Pox in buffaloes from contact with vaccinated human beings]. *Veterinariya*, **41**: 31–34 (in Russian). [29]
- Gardner, I.D. & Blanden, R.V. (1976) The cell-mediated immune response to ectromelia virus infection. II. Secondary response *in vitro* and kinetics of memory T cell production *in vivo*. *Cellular immunology*, **22**: 283–296. [3]
- Gardner, S.D. (1977) The new human papovaviruses, their nature and significance. In: Waterson, A.P., ed. *Recent advances in clinical virology*, Edinburgh, Churchill Livingstone, Vol. 1, pp. 93–115. [3]

- Garon, C.F., Barbosa, E. & Moss, B. (1978) Visualization of an inverted terminal repetition in vaccinia virus DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **75**: 4863-4867. [2]
- Gehring, H., Mahnel, H. & Mayer, H. (1972) Elefantepocken. *Zentralblatt für Veterinärmedizin, Reihe B*, **19**: 258-261. [29]
- Gelfand, H.M. (1966) A critical examination of the Indian smallpox eradication program. *American journal of public health*, **56**: 1634-1651. [10, 15]
- Gelfand, H.M. & Henderson, D.A. (1966) Mass preventive medicine: a program for smallpox eradication and measles control throughout West Africa. *Journal of international health*, **2**: 24-34. [9]
- Gell, P.G.H., Coombs, R.A.A. & Lachmann, P.J. (1975) *Clinical aspects of immunology*, Oxford, Blackwell. [3]
- Gemmell, A. & Fenner, F. (1960) Genetic studies with mammalian poxviruses. III. White (*u*) mutants of rabbitpox virus. *Virology*, **11**: 219-235. [2]
- Gerlitt, J. (1940) The development of quarantine. *Ciba symposium*, **2**: 566-580. [6]
- Geshelin, P. & Berns, K.I. (1974) Characterization and localization of the naturally occurring cross-links in vaccinia virus DNA. *Journal of molecular biology*, **88**: 785-796. [2]
- Ghendon, Y.Z. & Chernos, V.I. (1964) Comparative study of genetic markers of some pox virus strains. *Acta virologica*, **8**: 359-368. [2]
- Gibbs, A. & Fenner, F. (1984) Methods for comparing sequence data such as restriction endonuclease maps or nucleotide sequences of viral nucleic acid molecules. *Journal of virological methods*, **9**: 317-324. [2, 30]
- Gibbs, E.P.J. & Osborne, A.D. (1974) Observations on the epidemiology of pseudocowpox in south-west England and south Wales. *British veterinary journal*, **130**: 150-159. [29]
- Gibbs, E.P.J., Johnson, R.H. & Osborne, A.D. (1970) The differential diagnosis of viral skin infections of the bovine teat. *Veterinary record*, **87**: 602-609. [29]
- Gibbs, E.P.J., Johnson, R.H. & Collings, D.F. (1973) Cowpox in a dairy herd in the United Kingdom. *Veterinary record*, **92**: 56-64. [29]
- Gillespie, J.H. & Timoney, J.F. (1981) *Hagan and Bruner's infectious diseases of domestic animals*, 7th ed., Ithaca, Cornell University Press, pp. 283, 534-535. [2]
- Gins, H.A. (1924) Beiträge zur Geschichte der Kuhpockenimpfung. Die Degeneration der humanisierten Vaccine im 19. Jahrhundert. *Klinische Wochenschrift*, **3**: 634-637. [7]
- Gins, H.A., Hackenthal, H. & Kamentzwa, N. (1929) Experimentelle Untersuchungen über die Generalisierung des Vaccine-virus beim Menschen und Versuchstier. *Zeitschrift für Hygiene und Infektionskrankheiten*, **110**: 429-441. [3]
- Ginsberg, A.H. & Johnson, K.P. (1977) The effect of cyclophosphamide on intracerebral vaccinia virus infection in Balb/C mice. *Experimental and molecular pathology*, **27**: 285-294. [3]
- Gispen, R. (1949) De herbesmetting van Indonesië met pokken. *Nederlandsch tijdschrift voor geneeskunde*, **93**: 3686-3695. [3, 30]
- Gispen, R. (1952) Silver impregnation of smallpox elementary bodies after treatment with xylol. *Antonie van Leeuwenhoek. Journal of microbiology and serology*, **18**, 107-108. [2]
- Gispen, R. (1955) Analysis of pox-virus antigens by means of double diffusion. A method for direct serological differentiation of cowpox. *Journal of immunology*, **74**: 134-141. [3]
- Gispen, R. (1972) Onderscheiding van een pokvirus afkomstig uit een woestijnmuis. *Volksgezondheid verslagen*, **24**: 164-165. [2]
- Gispen, R. (1973) In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11-13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, p. 26. [30]
- Gispen, R. & Brand-Saathof, B. (1972) "White" poxvirus from monkeys. *Bulletin of the World Health Organization*, **46**: 585-592. [29, 30]
- Gispen, R. & Brand-Saathof, B. (1974) Three specific antigens produced in vaccinia, variola and monkeypox infections. *Journal of infectious diseases*, **129**: 289-295. [2, 3, 29, 30]
- Gispen, R. & Kapsenberg, J.G. (1966) Monkeypox virus-infectie in culturen van apeniercellen zonder duidelijk epizoottisch verband met pokken, en in een kolonie van apen lijdende aan pokken. *Verlagen en mededelingen betreffende de volksgezondheid*, **12**: 140-144. [25, 29, 30]
- Gispen, R., Huisman, J., Brand-Saathof, B. & Hekker, A.C. (1974) Immunofluorescence test for persistent poxvirus antibodies. *Archiv für die gesamte Virusforschung*, **44**: 391-395. [2, 3]
- Gispen, R., Brand-Saathof, B. & Hekker, A.C. (1976) Monkeypox-specific antibodies in human and simian sera from the Ivory Coast and Nigeria. *Bulletin of the World Health Organization*, **53**: 355-360. [3, 29]
- Gledhill, A.W. (1962a) Latent ectromelia. *Nature*, **196**: 298. [3]
- Gledhill, A.W. (1962b) Viral diseases in laboratory animals. In: Harris, R.J.C., ed. *The problems of laboratory animal disease*, New York, Academic Press, pp. 99-112. [3]
- Glokpor, G.F. (1970) Notes on variolation. In: United States National Communicable Disease Center, *op. cit.*, No. 1, pp. 59-61. [17]
- Gloster, J., Sellers, R.F. & Donaldson, A.I. (1982) Long distance transport of foot-and-mouth disease virus over the sea. *Veterinary record*, **110**: 47-52. [4]
- Gold, C. & Kirtland, G. (1806) *Plates of the small pox and cow pox drawn from nature*, London, G. Kirtland. [6]
- Goodfield, J. (1985) *Quest for the killers*, Boston, Birkhäuser. [16]
- Goodpasture, E.W. (1933) Borrelioses: fowl-pox, molluscum contagiosum, variola-vaccinia. *Science*, **77**: 119-121. [2]
- Goodpasture, E.W. & Buddingh, G.J. (1935) Preparation of an antismallpox vaccine by culture of virus in chorio-allantoic membrane of chick embryos, and its use in human immunization. *American journal of hygiene*, **21**: 319-360. [11]
- Goodpasture, E.W., Woodruff, A.M. & Buddingh, G.J. (1932) Vaccinal infection of the chorio-allantoic membrane of the chick embryo. *American journal of pathology*, **8**: 271-282. [2, 11]
- Gordon, J.E. (1976) Synergism of malnutrition and infectious disease. In: Beaton, G.H. & Bengoa, J.M., ed. *Nutrition in preventive medicine*, Geneva, World Health Organization, pp. 93-209. (Monograph Series No. 62). [4]
- Gordon, M. (1937) Virus bodies. John Buist and the elementary bodies of vaccinia. *Edinburgh medical journal*, **44**: 65-71. [2]

- Gorgas, W.C. (1908) Method of the spread of yellow fever. *Medical record*, **73**: 1062–1073. [9]
- Gorgas, W.C. (1911a) Report of Maj. W.C. Gorgas, Medical Corps, United States Army—July 12, 1902. *U.S. Senate Document No. 822*, Washington, Government Printing Office, pp. 234–238. [9, 24]
- Gorgas, W.C. (1911b) A few general directions with regard to destroying mosquitoes, particularly the yellow-fever mosquito. *U.S. Senate Document No. 822*, Washington, Government Printing Office, pp. 239–250. [9]
- Gorgas, W.C. (1917) Quoted in: Soper, F.L. (1935), *op. cit.* [30]
- Goyal, R.K., Rameshwar Sharma, Mathur, G.M. & Andleigh, H.S. (1969) Pathogenicity of different strains of vaccinia virus. *Indian journal of medical sciences*, **23**: 247–251. [11]
- Grant, F.C. (1970) Surveillance techniques for detecting importations of smallpox. In: United States National Communicable Disease Center, *op. cit.*, No. 2, pp. 66–68. [17]
- Great Britain (1898) *A report on vaccination and its results, based on evidence taken by the Royal Commission during the years 1889–1897*, London, The New Sydenham Society, Vol. 164. [6]
- Greaves, R.N. (1946) The preservation of proteins by drying, with special reference to the production of dried human serum and plasma for transfusion. *Medical Research Council Special Report Series*, No. 258. [7]
- Greenberg, M. (1948) Complications of vaccination against smallpox. *American journal of diseases of children*, **76**: 492–502. [7, 9]
- Greenberg, M. & Appelbaum, E. (1948) Postvaccinal encephalitis: a report of 45 cases in New York City. *American journal of the medical sciences*, **216**: 565–570. [7]
- Greene, H.S.N. (1933) A pandemic of rabbit-pox. *Proceedings of the Society for Experimental Biology and Medicine*, **30**: 892–894. [2]
- Greenough, W.B. & Cash, R.A. (1973) Post-civil war in Bangladesh: health problems and programs. In: Chen, L.C., ed. *Disaster in Bangladesh*, London, Oxford University Press, pp. 241–254. [16]
- Gregory, P.H. & Monteith, J.L., ed. (1967) *Airborne microbes. XVIIth Symposium of the Society for General Microbiology, London, April 1967*, London, Cambridge University Press. [4]
- Grön, K. (1928) Syphilis-Endemien. In: Jadassohn, J., ed. *Handbuch der Haut- und Geschlechtskrankheiten*, Berlin, Springer, Vol. XVII/3, pp. 283–350. [6]
- Grose, C. (1981) Variation on a theme by Fenner: the pathogenesis of chickenpox. *Pediatrics*, **68**: 735–737. [3]
- Guarnieri, G. (1892) Ricerche sulla patogenesi ed etiologia dell'infezione vaccinica e variolosa. *Archivio per le scienze mediche*, **16**: 403–423. [2]
- Guha Mazumder, D.N. & Chakraborty, A.K. (1973) Epidemic of smallpox among the evacuees from Bangladesh in Salt Lake area near Calcutta. *Journal of Indian Medical Association*, **60**: 275–280. [15]
- Guha Mazumder, D.N., De, S., Mitra, A.C. & Mukherjee, M.K. (1975) Clinical observations on smallpox: a study of 1233 patients admitted to the Infectious Diseases Hospital, Calcutta, during 1973. *Bulletin of the World Health Organization*, **52**: 301–306. [1]
- Gupta, S.K. & Srivasta, T.P. (1973) Roentgen features of skeletal involvement in smallpox. *Australian radiologist*, **17**: 205–211. [1]
- Gurvich, E.B., Braginskaya, V.P., Shenkman, L.S., Sokolova, A.F. & Davydova, A.V. (1974) Isolation of vaccinia virus from the pharynx of children vaccinated against smallpox. *Journal of hygiene, epidemiology, microbiology and immunology*, **18**: 69–76. [7]
- Gurvich, E.B., Movsesyants, A.A. & Stepanenkova, L.P. (1979) [Role of vaccinia virus in the pathogenesis of clinical forms of postvaccinal complications. Communication 1. Frequency of vaccinia virus detection in vaccinees with normal and complicated reaction to vaccination]. *Zhurnal mikrobiologii, epidemiologii i imunobiologii*, **56** (11): 73–78 (in Russian). [3, 7]
- Gurvich, E.B., Lakotkina, E.A., Kossova, E.T., Stepanenkova, L.P., Pozdnyakova, I.S. & Ozeretskovskii, N.A. (1980) Lack of correlation between complications after smallpox vaccination and the ABO blood group system. *Journal of hygiene, epidemiology, microbiology and immunology*, **24**: 200–205. [3]
- Gušić, B., ed. (1969) *Proceedings of the Symposium on Smallpox, 2 & 3 September, 1969*, Zagreb, Yugoslav Academy of Sciences and Arts. [11]
- Guthe, T. (1960) The treponematoses as a world problem. *British journal of venereal diseases*, **36**: 67–77. [9]
- Guy, W.A. (1882) Two hundred and fifty years of smallpox in London. *Journal of the Royal Statistical Society*, **45**: 399–433. [5]
- Gwaltney, J.M., Jr & Hendley, J.O. (1978) Rhinovirus transmission. One if by air, two if by hand. *American journal of epidemiology*, **107**: 357–361. [4]
- Hagan, W.A. (1958) The control and eradication of animal diseases in the United States. *Annual review of microbiology*, **12**: 127–144. [9]
- Hagelsten, J.O. & Jessen, K. (1973) Air-transport, a main cause of smallpox epidemics today. *Aerospace medicine*, **44**: 772–774. [4]
- Hahn, R.G. (1951) A combined yellow-fever-smallpox vaccine for cutaneous application. *American journal of hygiene*, **54**: 50–70. [7]
- Hahon, N. (1958) Cytopathogenicity and propagation of variola virus in tissue culture. *Journal of immunology*, **81**: 426–432. [2]
- Hahon, N. (1961) Smallpox and related poxvirus infections in the simian host. *Bacteriological reviews*, **25**: 459–476. [30]
- Hahon, N. & McGavran, M.H. (1961) Airborne infectivity of the variola-vaccinia group of poxviruses for the cynomolgus monkey, *Macaca irus*. *Journal of infectious diseases*, **109**: 294–298. [4]
- Hahon, N. & Wilson, B.J. (1960) Pathogenesis of variola in *Macaca irus* monkeys. *American journal of hygiene*, **71**: 69–80. [3]
- Halsey, R.H. (1936) *How the President, Thomas Jefferson and Dr Benjamin Waterhouse established vaccination as a public health procedure*, New York, New York Academy of Medicine (History of Medicine Series, No. 5). [6]
- Hamre, D., Bernstein, J. & Donovick, R. (1950) Activity of p-aminobenzaldehyde, 3-thiosemicarbazone on vaccinia virus in the chick embryo and in the mouse. *Proceedings of the Society for Experimental Biology and Medicine*, **73**: 275–278. [1]
- Hanna, W. (1913) *Studies in small-pox and vaccination*, Bristol, Wright [1, 7]
- Hansson, O., Johansson, S.G.O. & Vahlquist, B. (1966) Vaccinia gangrenosa with normal humoral antibodies. A case possibly due to deficient cellular immunity treated with N-methylisatin β -thiosemicarbazone (compound 33T57, Marboran). *Acta paediatrica Scandinavica*, **55**: 264–272. [3]

- Harper, G.J. (1961) Airborne micro-organisms: survival tests with four viruses. *Journal of hygiene*, **59**: 479–486. [2, 4]
- Harper, L., Bedson, H.S. & Buchan, A. (1979) Identification of orthopoxviruses by polyacrylamide gel electrophoresis of intracellular polypeptides. I. Four major groupings. *Virology*, **93**: 435–444. [2, 29, 30]
- Hartsock, R.J. (1968) Postvaccinal lymphadenitis. Hyperplasia of lymphoid tissue that simulates malignant lymphomas. *Cancer*, **21**: 632–650. [3]
- Hartwig, G.W. (1981) Smallpox in the Sudan. *International journal of African historical studies*, **14**: 1–33. [8]
- Hashizume, S. (1975) [A new attenuated strain of vaccinia virus, LC16m8: basic information]. *[Journal of clinical virology]*, **3**: 229–235 (in Japanese). [11]
- Hashizume, S., Morita, T., Yoshizawa H., Suzuki, K., Arita, M., Komatsu, T., Amario, H. & Tagaya, I. (1973) Intracerebral inoculation of monkeys with several vaccinia strains: an approach to the comparison of different strains. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 325–331. [11]
- Haygarth, J. (1785) *An enquiry how to prevent the smallpox*, London, Johnson. [6]
- Haygarth, J. (1793) *Sketch of a plan to exterminate the casual small-pox from Great Britain*, London, Johnson. [6]
- Heagerty, J.J. (1928) *Four centuries of medical history in Canada*, Toronto, MacMillan, Vol. I. [5]
- Heberling, R.L., Kalter, S.S. & Rodriguez, A.R. (1976) Poxvirus infection of the baboon (*Papio cynocephalus*). *Bulletin of the World Health Organization*, **54**: 285–294. [3]
- Hedrich, A.W. (1936) Changes in the incidence and fatality of smallpox in recent decades. *Public health reports*, **51**: 363–392. [8]
- Hedström, K.-G. (1970) Freeze-drying of vaccinia virus grown on chick embryo membranes. *Zeitschrift für Immunitätsforschung, Allergie und klinische Immunologie*, **139**: 245–252. [11]
- Heiner, G.G., Fatima, N., Daniel, R.W., Cole, J.L., Anthony, R.L. & McCrum, F.R., Jr (1971a) A study of inapparent infection in smallpox. *American journal of epidemiology*, **94**: 252–268. [1, 3, 4, 11, 14, 29]
- Heiner, G.G., Fatima, N. & McCrum, F.R., Jr (1971b) A study of intrafamilial transmission of smallpox. *American journal of epidemiology*, **94**: 316–326. [4, 11, 14]
- Heiner, G.G., Fatima, N., Russell, P.K., Haase, A.T., Ahmad, N., Mahomed, N., Thomas, D.B., Mack, T.M., Kahn, M.M., Knatterud, G.L., Anthony, R.L. & McCrum, F.R., Jr (1971c) Field trials of methisazone as a prophylactic agent against smallpox. *American journal of epidemiology*, **94**: 435–449. [1]
- Hekker, A.C. & Ramshorst, J.D. van. (1969) Phenolization of smallpox vaccine. *Progress in immunological standardization*, **3**: 204–209. [11]
- Hekker, A.C., Bos, J.M. & Smith, L. (1973a) A stable freeze-dried smallpox vaccine made in monolayer cultures of primary rabbit kidney cells. *Journal of biological standardization*, **1**: 21–32. [11]
- Hekker, A.C., Huisman, J., Polak, M.F., Swart-van der Hoeven, J. Th., O'Brien, M.H., Gertenbach, J. & Mollema, R.M. (1973b) Field work with a stable freeze-dried vaccine prepared in monolayers of primary rabbit kidney cells. *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 187–195. [11]
- Hekker, A.C., Bos, J.M., Kumara Rai, N., Keja, J., Cuboni, G., Emmet, B. & Djalins, J. (1976) Large-scale use of freeze-dried smallpox vaccine prepared in primary cultures of rabbit kidney cells. *Bulletin of the World Health Organization*, **54**: 279–284. [11]
- Helbert, D. (1957) Smallpox and alastrim. Use of the chick embryo to distinguish between the viruses of variola major and variola minor. *Lancet*, **1**: 1012–1014. [2]
- Hemming, J. (1970) *The conquest of the Incas*, London, Macmillan. [4]
- Hemming, J. (1978) *Red gold. The conquest of the Brazilian Indians*, London, Macmillan. [3, 4]
- Henderson, D.A. (1967) Smallpox-eradication and measles-control programs in west and central Africa—theoretical and practical approaches and problems. In: *Industry and tropical health: VI*, Cambridge, Harvard School of Public Health, pp. 112–120. [9, 17]
- Henderson, D.A. (1974) Importations of smallpox into Europe, 1961–1973. *WHO chronicle*, **28**: 428–430. [4]
- Henderson, D.A. (1981) Round table discussion: lessons from the big eradication campaigns. *World health forum*, **2**: 482–484. [9]
- Henderson, R.H. & Yekpe, M. (1969) Smallpox transmission in southern Dahomey. A study of a village outbreak. *American journal of epidemiology*, **90**: 423–428. [4, 17]
- Henderson, R.H., Davis, H., Eddins, D.L. & Foege, W.H. (1973) Assessment of vaccination coverage, vaccination scar rates, and smallpox scarring in five areas of West Africa. *Bulletin of the World Health Organization*, **48**: 183–194. [17]
- Hendrickse, R.G., Montefiore, D., Sherman, P.M. & Sofoluwe, G.O. (1965) A further study on measles vaccination in Nigerian children. *Bulletin of the World Health Organization*, **32**: 803–808. [17]
- Henneberg, G. (1956) The distribution of smallpox in Europe 1919–1948. In: Rodenwaldt, E. & Jusatz, H.J., ed. *World-atlas of epidemic diseases, Part II*, Hamburg, Falk, pp. 69–72. [8]
- Henneberg, G. (1961) Global distribution of smallpox, 1949–1955. In: Rodenwaldt, E. & Jusatz, H.J., ed. *World atlas of epidemic diseases, Part III*, Hamburg, Falk, pp. 49–50. [8]
- Herbert, E.W. (1975) Smallpox inoculation in Africa. *Journal of African history*, **16**: 539–559. [6]
- Herrlich, A. (1954) Probleme der Pocke und Pockenschutzimpfung. *Münchener medizinische Wochenschrift*, **96**: 529–533. [7]
- Herrlich, A. (1958) Variola. Eindrücke von einer Epidemie in Bombay im Jahre 1958. *Deutsche medizinische Wochenschrift*, **83**: 1426–1428. [1]
- Herrlich, A. (1959) Über Vakzine-Antigen. Versuch einer Prophylaxe neuraler Impfschäden. *Münchener medizinische Wochenschrift*, **101**: 12–14. [11]
- Herrlich, A. (1964) Welchen Nutzen hat die Prophylaxe der postvakzinale Enzephalitis? *Deutsche medizinische Wochenschrift*, **89**: 968–974. [11]
- Herrlich, A., Mayr, A., Mahnel, H. & Munz, E. (1963) Experimental studies on transformation of the variola virus into the vaccinia virus. *Archiv für die gesamte Virusforschung*, **12**: 579–599. [2, 6, 8, 11, 30]
- Herrlich, A., Mayr, A., Munz, E. & Rodenwaldt, E. (1967) *Die Pocken; Erreger, Epidemiologie und klinisches Bild*, 2nd ed., Stuttgart, Thieme. [1]
- Hers, J.F.P.L. & Winkler, K.C., ed. (1973) *Airborne transmission and airborne infection*, New York, Wiley. [4]

- Herzberg-Kremmer, H. & Herzberg, K. (1930a) Untersuchungen über postvakzinale Enzephalitis. Verhalten des Vakzinevirus im Menschen bei normalem und gestörtem Impfverlauf. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **115**: 271–280. [3]
- Herzberg-Kremmer, H. & Herzberg, K. (1930b) Untersuchungen über postvakzinale Enzephalitis. Weitere Untersuchungen über das Verhalten des Vakzinevirus im menschlichen Körper. *Zentralblatt für Bakteriologie Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **119**: 175–192. [3]
- Hiller, G., Weber, K., Schneider, L., Parajsz, C. & Jungwirth, C. (1979) Interaction of assembled progeny pox viruses with the cellular cytoskeleton. *Virology*, **98**: 142–153. [2]
- Hime, T.W. (1896) Animal vaccination. *British medical journal*, **1**: 1279–1289. [1, 6]
- Hingson, R.A., Davis, H.S. & Rosen, M. (1963) The historical development of jet injection and envisioned uses in mass immunization and mass therapy based upon two decades' experience. *Military medicine*, **128**: 516–524. [9, 11]
- Hinman, E.H. (1966) *World eradication of infectious diseases*, Springfield, Thomas. [9]
- Hirsch, A. (1883) *Handbook of geographical and historical pathology* (translated from the second German edition by C. Creighton), Vol. 1, *Acute infective diseases*, London, The New Sydenham Society, pp. 123–153. [4, 5]
- Hishinuma, S. (1976) *Historical reviews on the longevity of human beings*, Tokyo, Institute of Actuaries of Japan (special lecture delivered to the 20th meeting of the International Conference of Actuaries held in Tokyo, 25 October to 1 November 1976). [6]
- Hoagland, C.L., Lavin, G.I., Smadel, J.E. & Rivers, T.M. (1940) Constituents of the elementary bodies of vaccinia. II. Properties of nucleic acid obtained from vaccine virus. *Journal of experimental medicine*, **72**: 139–147. [2]
- Hobday, T.L., Rao, A.R., Kempe, C.H. & Downie, A.W. (1961) Comparison of dried vaccine with fresh Indian buffalo-calf vaccine in revaccination against smallpox. *Bulletin of the World Health Organization*, **25**: 69–71. [7]
- Hochstein-Mintzel, V., Hanichen, T., Huber, H.C. & Stickl, H. (1975) Vaccinia- und variolaprotektive Wirkung des modifizierten Vaccinia-Stammes MVA bei intramuskularer Immunisierung. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **230**, 283–297. [11]
- Hoffman, F.L. (1916) A plea and a plan for the eradication of malaria throughout the Western Hemisphere. In: *Malaria problems (Collected papers of F.L. Hoffman)*, Newark, Prudential Press, 1928. [9]
- Holowczak, J. (1982) Poxvirus DNA. *Current topics in microbiology and immunology*, **97**: 27–79. [2]
- Holwell, J.Z. (1767) *An account of the manner of inoculating for small pox in the East Indies*, London, College of Physicians. Reprinted in: Dharmpal (1971) *Indian science and technology in the eighteenth century: some contemporary European accounts*, Delhi, Impex India, pp. 143–163. [5]
- Hope Simpson, R.E. (1952) Infectiousness of communicable diseases in the household (measles, chickenpox and mumps). *Lancet*, **2**: 549–554. [4]
- Hopkins, D.R. (1976) After smallpox eradication: yaws? *American journal of tropical medicine and hygiene*, **25**: 860–865. [9, 31]
- Hopkins, D.R. (1983a) *Princes and peasants. Smallpox in history*, Chicago, University of Chicago Press. [5, 6, 8]
- Hopkins, D.R. (1983b) Dracunculiasis, an eradicable scourge. *Epidemiologic reviews*, **5**: 208–219. [9, 31]
- Hopkins, D.R. (1985) Lessons learned beyond smallpox eradication. *Assignment children*, **69/72**: 235–242. [31]
- Hopkins, D.R., Lane, J.M., Cummings, E.C. & Millar, J.D. (1971a) Smallpox in Sierra Leone. I. Epidemiology. *American journal of tropical medicine and hygiene*, **20**: 689–696. [17]
- Hopkins, D.R., Lane, J.M., Cummings, E.C., Thornton, J.N. & Millar, J.D. (1971b) Smallpox in Sierra Leone. II. The 1968–1969 eradication programme. *American journal of tropical medicine and hygiene*, **20**: 697–704. [17]
- Hopkins, D.R., Lane, J.M., Cummings, E.C. & Millar, J.D. (1971c) Two funeral-associated smallpox outbreaks in Sierra Leone. *American journal of epidemiology*, **94**: 341–347. [4, 17]
- Hopkins, D.R., Hinman, A.R., Koplan, J.P. & Lane, J.M. (1982) The case for global measles eradication. *Lancet*, **1**: 1396–1398. [9, 31]
- Horgan, E.S. & Haseeb, M.A. (1939) Cross immunity experiments in monkeys between variola, alastrim and vaccinia. *Journal of hygiene*, **39**: 615–637. [3]
- Horgan, E.S. & Haseeb, M.A. (1944) Some observations on accidental vaccinations on the hands of workers in a vaccine lymph institute. *Journal of hygiene*, **43**: 273–274. [3]
- Hornibrook, J.W. (1949) A simple, inexpensive apparatus for the desiccation of bacteria and other substances. *Journal of laboratory and clinical medicine*, **34**: 1315–1320. [7]
- Hornibrook, J.W. & Gebhard, W.H. (1951) Dried smallpox vaccine. *Public health reports*, **66**: 38–43. [7]
- Horstmann, D.M., Quinn, T.C. & Robbins, F.C. ed. (1984) *International symposium on poliomyelitis control. Reviews of infectious diseases*, **6**, Suppl. 2: S301–S601. [31]
- Hossain, M.S., Foerster, J., Hryniuk, W., Israels, L.G., Chowdhury, A.S. & Biswas, M.K. (1972) Treatment of smallpox with cytosine arabinoside. *Lancet*, **2**: 1230–1232. [1]
- Howard, W.T. & Perkins, R.G. (1905) Studies on the etiology and pathology of vaccinia in the rabbit and in man. *Journal of medical research*, **14**: 51–66. [3]
- Howard-Jones, N. (1975) *The scientific background of the International Sanitary Conferences, 1851–1938*, Geneva, World Health Organization (History of International Public Health, No. 1). [4, 8]
- Howard-Jones, N. (1980) The Pan American Health Organization: origins and evolution. *WHO chronicle*, **34**: 367–375, 419–426. [9, 12]
- Howat, H.T. & Arnott, W.M. (1944) Outbreak of pneumonia in smallpox contacts. *Lancet*, **2**: 312. [1]
- Hughes, K., Foster, S.O., Tarantola, D., Mehta, H., Tulloch, J.L. & Joarder, A.K. (1980) Smallpox surveillance in Bangladesh: II. Smallpox facial scar survey assessment of surveillance effectiveness. *International journal of epidemiology*, **9**: 335–340. [4, 16]
- Huq, F. (1972) *Studies on the variants of variola virus*. Ph.D. thesis, University of London. [2]
- Huq, F. (1976) Effect of temperature and relative humidity on variola virus in crusts. *Bulletin of the World Health Organization*, **54**: 710–712. [2, 4]
- Hurst, E.W. (1953) The post-infection encephalitides. *British medical bulletin*, **9**: 234–236. [3, 7]

- Hutchinson, H.D., Ziegler, D.W., Wells, D.E. & Nakano, J.H. (1977) Differentiation of variola, monkeypox, and vaccinia antisera by radioimmunoassay. *Bulletin of the World Health Organization*, **55**: 613–623. [2, 3, 29]
- Hutchinson, J.R. (1946) A historical note on the prevention of smallpox in England and the foundation of the Government Lymph Establishment. In: England and Wales. *Report of the Ministry of Health for the year ended 31 March 1946*, London, H.M. Stationery Office, Appendix A, pp. 119–130. [6]
- Ichihashi, Y. & Matsumoto, S. (1968) The relationship between poxvirus and A-type inclusion body during double infection. *Virology*, **36**: 262–270. [2]
- Ichihashi, Y., Matsumoto, S. & Dales, S. (1971) Biogenesis of poxviruses: role of A-type inclusions and host cell membranes in virus dissemination. *Virology*, **46**: 507–532. [2]
- Ikeda, K. (1925) The blood in purpuric smallpox. Clinical review of forty-eight cases. *Journal of the American Medical Association*, **84**: 1807–1813. [1]
- Ikuta, K., Miyamoto, H. & Kato, S. (1979) Serologically cross-reactive polypeptides in vaccinia, cowpox and Shope fibroma viruses. *Journal of general virology*, **44**: 557–563. [2, 3]
- Immermann, H. (1895) Variola (inclusive Vaccination). In: Nothnagel, H., ed. *Specielle Pathologie und Therapie*, Vienna, Holder, Vol. 4, part 2, pp. 1–295. [1]
- Imperato, P.J. (1970) The transmission pattern of smallpox in West African school population. *Journal of tropical pediatrics*, **16**: 204–209. [4, 17]
- Imperato, P.J. (1975) *A wind in Africa*, St Louis, Green. [17]
- Imperato, P.J., Sow, O. & Benitieni-Fofana (1972) The epidemiology of smallpox in the Republic of Mali. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **66**: 176–182. [17]
- Imperato, P.J., Sow, O. & Benitieni-Fofana (1973) The persistence of smallpox in remote unvaccinated villages during eradication programme activities. *Acta tropica*, **30**: 261–268. [17]
- Index Medicus*, 1897, Boston and Washington, Billings & Fletcher, Vol. 19, pp. 65, 120, 176, 304, 372, 431, 443, 493, 569, 649. [6]
- India, Ministry of Health and Family Planning (1966) *National smallpox eradication programme in India*, New Delhi, Government of India. [15]
- India, National Institute of Communicable Diseases (1968) *Evaluation of the national smallpox eradication programme in Karnal district, Haryana*, New Delhi, Government of India. [17]
- Indian journal of public health, 1978, **22**: 1–162 (Special Issue on Smallpox Eradication, January–March 1978). [15]
- International Cooperation Administration, Expert Panel on Malaria (1961) Report and recommendations on malaria: a summary. *American journal of tropical medicine and hygiene*, **10**: 451–502. [9]
- Isaacs, A. & Westwood, M.A. (1959) Inhibition by interferon of the growth of vaccinia virus in the rabbit skin. *Lancet*, **2**: 324–325. [3]
- Isaev, L.M. (1956) [Dracunculosis and its eradication in Uzbekistan]. *Trudy Uzbeckskogo Instituta Malarii i Medicinskoy Parazitologii*, **2**: 3–14 (in Russian). [9]
- Jackson, D.C., Ada, G.L. & Tha Hla, R. (1976) Cytotoxic T cells recognize very early, minor changes in ectromelia virus-infected target cells. *Australian journal of experimental biology and medical science*, **54**: 349–363. [3]
- Jackson, E.B., Ley, A.C., Binn, L.N. & Smadel, J.E. (1956) Vaccination against smallpox. I. Lyophilized vaccinia virus from infected chorio-allantoic membranes. *Journal of immunology*, **77**: 332–339. [11]
- Jackson, T.M., Zaman, S.N. & Huq, F. (1977) T and B rosetting lymphocytes in the blood of smallpox patients. *American journal of tropical medicine and hygiene*, **26**: 517–519. [3]
- Jacobson, H.K. (1973) WHO: medicine, regionalism and managed politics. In: Cox, R.W. & Jacobson, H.K., ed. *The anatomy of influence*, New Haven, Yale University Press, pp. 175–215. [10]
- Jamison, D.T. (1985) China's health care system: policies, organization, inputs and finance. In: Halstead, S.B., Walsh, J.A. & Warren, K.S., ed. *Good health at low cost*, New York, Rockefeller Foundation, pp. 21–32. [31]
- Janeway, C.A. (1944) Clinical use of products of human plasma fractionation. I. Albumin in shock and hypoproteinemia. II. α -globulin in measles. *Journal of the American Medical Association*, **126**: 674–680. [1]
- Jansen, J. (1946) Immunity in rabbit plague—immunological relationship with cow-pox. *Antonie van Leeuwenhoek. Journal of microbiology and serology*, **11**: 139–167. [2]
- Janson, C. (1891) Versuche zur Erlangung künstlicher Immunität bei Variola Vaccina. *Centralblatt für Bakteriologie, Parasitenkunde, und Infektionskrankheiten*, **10**: 40–45. [11]
- Japan, Ministry of Health (1975) [Report of committee on smallpox vaccination. Investigation of treatment of complications caused by smallpox vaccination]. *[Journal of clinical virology]*, **3**: 269–278 (in Japanese). [11]
- Jarrett, S.W. (1985) Lessons learned: smallpox eradication—selected management issues. *Assignment children*, **69/72**: 243–261. [31]
- Jeffery, G.M. (1976) Malaria control in the twentieth century. *American journal of tropical medicine and hygiene*, **25**: 361–371. [9]
- Jenner, E. (1788) *An inquiry into the causes and effects of the variolae vaccinae, a disease discovered in some of the western counties of England, particularly Gloucestershire, and known by the name of the cow pox*, London. Reprinted in: Camac C.N.B., ed. (1959) *Classics of medicine and surgery*, New York, Dover, pp. 213–240. [2, 3, 6]
- Jenner, E. (1799) *Further observations on the variolae vaccinae or cow pox*, London. Reprinted in: Camac C.N.B., ed. (1959) *Classics of medicine and surgery*, New York, Dover, pp. 241–276. [3, 29]
- Jenner, E. (1800) *A continuation of facts and observations relative to the variolae vaccinae, or cow pox*, London, Sampson Low. [9]
- Jenner, E. (1801) *The origin of the vaccine inoculation*, London, Shury. [Reproduced in Chapter 6]
- Jenner, E. (1804) On the varieties and modifications of the vaccine pustule, occasioned by an herpetic state of the skin. *Medical and physical journal*, **12**: 97–102. [3]
- Jenner, E. (1809) Two cases of small-pox infection, communicated to the foetus in utero under peculiar circumstances, with additional remarks. *Medico-chirurgical transactions*, **1**: 271–277. [7]
- Ježek, Z. & Hardjotanjojo, W. (1980) Residual skin changes in patients who have recovered from variola minor. *Bulletin of the World Health Organization*, **58**: 139–140. [1, 3, 24]
- Ježek, Z. & Kanth, M.H. (1978) Assessment of Ladakh smallpox eradication programme activities. *Indian journal of public health*, **22**: 63–74. [10, 25]

- Ježek, Z., Das, M.N., Das, A., Aggarwal, M.L. & Arya, Z.S. (1978a) The last known outbreak of smallpox in India. *Indian journal of public health*, **22**: 31–38. [15]
- Ježek, Z., Arora, R.R., Arya, Z.S. & Hussain, Z. (1978b) Smallpox surveillance in remote and inaccessible areas of India. *Indian journal of public health*, **22**: 56–62. [10, 25]
- Ježek, Z., Basu, R.N. & Arya, Z.S. (1978c) Reinvestigation of smallpox outbreaks. *Indian journal of public health*, **22**: 82–94. [25]
- Ježek, Z., Basu, R.N. & Arya, Z.S. (1978d) Problem of persistence of facial pock marks among smallpox patients. *Indian journal of public health*, **22**: 95–101. [1, 3]
- Ježek, Z., Basu, R.N. & Arya, Z.S. (1978e) Investigation of smallpox suspected cases in the final stage of the Indian smallpox eradication programme. *Indian journal of public health*, **22**: 107–112. [1, 25]
- Ježek, Z., Basu, R.N., Sehgal, S., Balasubramanian, S. & Arya, Z.S. (1978f) Role of laboratory diagnosis in the smallpox eradication programme in India. *Indian journal of public health*, **22**: 113–119. [2]
- Ježek, Z., Basu, R.N. & Arya, Z.S. (1978g) Fever with rash surveillance in India. *Indian journal of public health*, **22**: 120–126. [25]
- Ježek, Z., Al Aghbari, M., Hatfield, R. & Deria, A. (Tulloch, J., ed.) (1981) *Smallpox eradication in Somalia*, Alexandria, WHO Regional Office for the Eastern Mediterranean and Somali Democratic Republic, Ministry of Health. [1, 4, 10, 22, 27, 28]
- Ježek, Z., Šerý, V., Zikmund, V. & Slonim, D. (1982) [*Smallpox and its eradication*], Prague, Avicenum (in Czech). [8, 23]
- Ježek, Z., Kříž, B. & Rothbauer, V. (1983) Camelpox and its risk to the human population. *Journal of hygiene, epidemiology, microbiology and immunology*, **27**: 29–42. [2, 29]
- Ježek, Z., Arita, I., Szczeniowski, M., Paluku, K.M., Kalisa Ruti & Nakano, J. H. (1985) Human tanapox in Zaire: clinical and epidemiological observations on cases confirmed by laboratory studies. *Bulletin of the World Health Organization*, **63**: 1027–1035. [29]
- Ježek, Z., Arita, I., Mutombo, M., Dunn, C., Nakano, J.H. & Szczeniowski, M. (1986a) Four generations of probable person-to-person transmission of human monkeypox. *American journal of epidemiology*, **123**: 1004–1012. [29]
- Ježek, Z., Marennikova, S.S., Mutombo, M., Nakano, J.H., Paluku, K.M. & Szczeniowski, M. (1986b) Human monkeypox: a study of 2,510 contacts of 214 patients. *Journal of infectious diseases*, **154**: 551–555. [29]
- Ježek, Z., Nakano, J.H., Arita, I., Mutombo, M., Szczeniowski, M. & Dunn, C. (1987a) Serological survey for human monkeypox infections in a selected population in Zaire. *Journal of tropical medicine and hygiene*, **90**: 31–38. [29]
- Ježek, Z., Grab, B. & Dixon, H. (1987b) Stochastic model for interhuman spread of monkeypox. *American journal of epidemiology*, **126**: No. 6 (in press). [29]
- Jha, S.P. & Achari, A.G. (1975) Smallpox eradication programme in Bihar. *Journal of communicable diseases*, **7**: 183–187. [15]
- Jiang, Y.T. (1985) [Smallpox epidemiology]. In: Jiang, Y.T., Chen, N.Q., Gao, S.D., Qui, Y.S. & Lin, Y.J., ed. [*The Chinese medical encyclopedia. Medical defence against biological weapons*], Shanghai, [Shanghai Science and Technology Press], pp. 46–48 (in Chinese). [8, 27, 30]
- Joarder, A.K., Tarantola, D. & Tulloch, J. (1980) *The eradication of smallpox from Bangladesh*, New Delhi (WHO Regional Publications: South-East Asia Series, No 8). [4, 10, 16, 25, 28]
- Johannessen, J.V., Krogh, H.-K., Solberg, I., Dalen, A., Wyjingaarden, H. van & Johannsen, B. (1975) Human orf. *Journal of cutaneous pathology*, **2**: 265–283. [29]
- Johnson, H.A. (1946) Malaria in the post-war era. *Journal of the National Malaria Society*, **5**: 1–6. [9]
- Johnson, R.T. (1982) *Viral infections of the nervous system*, New York, Raven Press. [3, 7]
- Joklik, W.K. (1962) Some properties of poxvirus deoxyribonucleic acid. *Journal of molecular biology*, **5**: 265–274. [2]
- Jones, E.R. (1914) Smallpox in Germany. *Public health reports*, **29**: 164–168. [8]
- Jong, M. de (1956) The alastrim epidemic in The Hague, 1953–1954. *Documenta de medicina geographica et tropica*, **8**: 207–235. [1, 3]
- Journal of the American Medical Association*, 1985, **253**: 2348 (Contact spread of vaccinia from a national guard vaccinee—Wisconsin). [7, 28]
- Journal of communicable diseases*, 1975, **7**: 165–231 (Special Commemorative Issue on Achievements of “Target Zero” in India, 15 August 1975). [15]
- Jurin, J. (1722) A letter to the learned Dr Caleb Cotesworth ... containing a comparison between the danger of the natural smallpox, and of that given by inoculation. *Philosophical Transactions of the Royal Society*, **32**: 213–217. [6]
- Kaempfer, E. (1906) *The history of Japan*, 1690–92 (transl. J.G. Scheuchzer in 1727; reprinted 1906), Glasgow, MacLehose, Vol.—I, p. 296. [5]
- Kaiser, M. (1937) Zur Frage der Herstellung eines bakterienfreien Trockenimpfstoffes gegen Pocken. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **139**: 405–416 [7]
- Kaiser, M. (1942) Bericht über Versuche einen Trockenimpfstoff für den Pockenschutz herzustellen und über den Einfluss von Kälte und Trockenheit auf das Vacciniavirus. *Archiv für die gesamte Virusforschung*, **2**: 426–459. [7]
- Kaiser, M. & Zappert, J. (1938) *Die “postvaccinale Encephalitis”. Nach amtlichen österreichischen Daten*, Vienna, Springer. [3]
- Kalter, S.S. & Heberling, R.L. (1971) Comparative virology of primates. *Bacteriological reviews*, **35**: 310–364. [29]
- Kalter, S.S., Rodriguez, A.R., Cummins, L.B., Heberling, R.L. & Foster, S.O. (1979) Experimental smallpox in chimpanzees. *Bulletin of the World Health Organization*, **57**: 637–641. [3, 30]
- Kaminjolo, J.S., Jr, Johnson, L.W., Frank, H. & Gicho, J.N. (1974a) Vaccinia-like pox virus identified in a horse with a skin disease. *Zentralblatt für Veterinärmedizin, Reihe B*, **21**: 202–206. [2]
- Kaminjolo, J.S., Jr, Nyaga, P.N. & Gicho, J.N. (1974b) Isolation, cultivation and characterization of a poxvirus from some horses in Kenya. *Zentralblatt für Veterinärmedizin, Reihe B*, **21**: 592–601. [2]
- Kaplan, C. (1958) The heat inactivation of vaccinia virus. *Journal of general microbiology*, **18**: 58–63. [2]
- Kaplan, C. (1962) A non-infectious smallpox vaccine. *Lancet*, **2**: 1027–1028. [11]
- Kaplan, C. (1969) Immunization against smallpox. *British medical bulletin*, **25**: 131–135. [2, 3, 11]

- Kaplan, C., Healing T.D., Evans, N., Healing, L. & Prior, A. (1980) Evidence of infection by viruses in small British field rodents. *Journal of hygiene*, **84**: 285–294. [2, 29]
- Karchmer, A.W., Friedman, J.P., Casey, H.L., Shope, T.C., Riker, J.B., Kappelman, M.M. & Witte, J.J. (1971) Simultaneous administration of live virus vaccines. Measles, mumps, poliomyelitis and smallpox. *American journal of diseases of children*, **121**: 382–388 [7]
- Kato, S., Takahashi, M., Kameyama, S. & Kamahora, J. (1959) A study on the morphological and cyto-immunological relationship between the inclusions of variola, cowpox, rabbitpox, vaccinia (variola origin) and vaccinia IHD and a consideration of the term "Guarnieri body". *Biken's journal*, **2**: 353–363. [2]
- Katz, S.L., Krugman, S. & Quinn, T.C., ed. (1983) International symposium on measles immunization. *Reviews of infectious diseases*, **5**: 389–627. (31)
- Keidan, S.E., McCarthy, K. & Haworth, J.C. (1953) Fatal generalized vaccinia with failure of antibody production and absence of serum gamma globulin. *Archives of disease in childhood*, **28**: 110–116. [3]
- Kelsch, Teissier & Camus (1909) De la variole-vaccine. Recherche expérimentelle présentée à l'Académie de Médecine. *Bulletin de l'Académie de Médecine*, **62**: 13–22. [6]
- Kemp, G.E., Causey, O.R., Setzer, H.W. & Moore, D.L. (1974) Isolation of viruses from wild mammals in West Africa, 1966–1970. *Journal of wildlife diseases*, **10**: 279–293. [2]
- Kempe, C.H. (1960) Studies on smallpox and complications of smallpox vaccination. *Pediatrics*, **26**: 176–189. [3, 7]
- Kempe, C.H. (1968) Smallpox vaccination of eczema patients with attenuated live vaccinia virus. *Yale journal of biology and medicine*, **41**: 1–12. [7]
- Kempe, C.H. (1980) Acceptance of the Howland Award. *Pediatric research*, **14**: 1155–1161. [3]
- Kempe, C.H. & Benenson, A.S. (1965) Smallpox immunization in the United States. *Journal of the American Medical Association*, **194**: 161–166. [7]
- Kempe, C.H., Berge, T.O. & England, B. (1956) Hyperimmune vaccinal gamma globulin. Source, evaluation, and use in prophylaxis and therapy. *Pediatrics*, **18**: 177–188. [1]
- Kempe, C.H., Bowles, C., Meiklejohn, G., Berge, T.O., St. Vincent, L., Sundara Babu, B.V., Govindarajan, S., Ratnakannan, N.R., Downie, A.W. & Murthy, V.R. (1961) The use of vaccinia hyperimmune gammaglobulin in the prophylaxis of smallpox. *Bulletin of the World Health Organization*, **25**: 41–48. [1]
- Kempe, C.H., Fulginiti, V., Minamitani, M. & Shinefield, H. (1968) Smallpox vaccination of eczema patients with a strain of attenuated live vaccinia (CVI-78). *Pediatrics*, **42**: 980–989. [11]
- Kempe, C.H., Dekking, F., St. Vincent, L., Rao, A.R. & Downie, A.W. (1969) Conjunctivitis and subclinical infection in smallpox. *Journal of hygiene*, **67**: 631–636. [1, 3]
- Keogh, E.V. (1936) Titration of vaccinia virus on chorio-allantoic membrane of the chick embryo and its application to immunological studies of neurovaccinia. *Journal of pathology and bacteriology*, **43**: 441–454. [2, 3, 7]
- Khodakevich, L. & Arita, I. (1985) Investigating rumours of smallpox. *World health forum*, **6**: 171–173 [28]
- Khodakevich, L.N. & Rao, H.N. (1978) Search at the weekly markets for detection of smallpox outbreaks which occurred during previous year. *Indian journal of public health*, **22**: 50–55. [15]
- Khodakevich, L., Widy-Wirsiki, R., Arita, I., Marennikova, S.S., Nakano, J. & Meunier, D. (1985) Orthopoxvirose simienne de l'homme en République centrafricaine. *Bulletin de la Société de Pathologie exotique*, **78**: 311–320. [29]
- Khodakevich, L., Ježek, Z. & Kinzana, K. (1986) Isolation of monkeypox virus from a wild squirrel infected in nature. *Lancet*, **1**: 98–99. [29]
- Khodakevich, L., Szczepiowski, M., Mambu-ma-Disu, Ježek, Z., Marennikova, S.S., Nakano, J.H. & Messinger, D. (1987a) Role of squirrels in sustaining monkeypox virus transmission. *Tropical and geographical medicine*, **39**: 115–122. [29]
- Khodakevich, L., Szczepiowski, M., Mambu-ma-Disu, Ježek, Z., Marennikova, S.S., Nakano, J.H. & Meier, F. (1987b) Monkeypox virus in relation to the ecological features surrounding human settlements in Bumba zone, Zaire. *Tropical and geographical medicine*, **39**: 56–63. [29]
- Kii, N. & Ando, K. (1937) [The etiological relationship between contagious pustular dermatitis of horses and vaccinia]. *[Journal of the Japanese Society of Veterinary Science]*, **16**: 407–426 (in Japanese). [2]
- Kinchington, D., Dollery, A., Greenaway, P. & Dumbell, K. (1984) The detection of subtle differences between different orthopoxvirus genomes by heteroduplex analysis. *Virus research*, **1**: 351–363. [2]
- Kitamura, T. (1968) Studies on the formation of hyperplastic focus by variola virus in human cell cultures. I. *In vitro* quantitation of variola virus by focus counting in HeLa and FL cell cultures. *Virology*, **36**: 174–179. [2]
- Kitamura, T. & Shinjo, N. (1972) Assay of neutralizing antibody against variola virus by the degree of focus reduction on HeLa cell cultures and its application to revaccination with smallpox vaccines of various potencies. *Bulletin of the World Health Organization*, **46**: 15–26. [3]
- Kitamura, T. & Tanaka, Y. (1973) Differential diagnosis of variola viruses by microfocus assay. *Bulletin of the World Health Organization*, **48**: 495–496. [2]
- Kitamura, T., Kitamura, Y. & Tagaya, I. (1967) Immunogenicity of an attenuated strain of vaccinia virus on rabbits and monkeys. *Nature*, **215**: 1187–1188. [11]
- Kitamura, T., Aoyama, Y., Kurata, T., Arita, M. & Imagawa, Y. (1977a) Virological studies of smallpox in an endemic area. I. Evaluation of immunofluorescence staining as a rapid diagnostic procedure in the field. *Japanese journal of medical science and biology*, **30**: 215–227. [2]
- Kitamura, T., Aoyama, Y., Kurata, T., Arita, M. & Imagawa, Y. (1977b) Virological studies of smallpox in an endemic area. II. Virus content of clinical specimens and typing of virus isolates. *Japanese journal of medical science and biology*, **30**: 229–239. [2, 4]
- Klauber, M.R. & Angulo, J.J. (1974a) Variola minor in Bragança Paulista County, 1956: space-time interactions among variola minor cases in two elementary schools. *American journal of epidemiology*, **99**: 65–74. [4]
- Klauber, M.R. & Angulo, J.J. (1974b) Variola minor in Bragança Paulista County, 1956: lack of evidence indicating the influence of contaminated classrooms on spread of disease. *Journal of hygiene*, **72**: 281–288. [4]

- Klein, J. (1975) *Biology of the mouse histocompatibility-2 complex*, New York, Springer. [3]
- Knight, V., ed. (1973) *Viral and mycoplasmal infections of the respiratory tract*, Philadelphia, Lea & Febiger. [4]
- Koplan, J.P., Monsur, K.A., Foster, S.O., Huq, F., Rahaman, M.M., Huq, S., Buchanan, R.A. & Ward, N.A. (1975) Treatment of variola major with adenine arabinoside. *Journal of infectious diseases*, **131**: 34–39. [1]
- Koplan, J.P., Azizullah, Md. & Foster, S.O. (1978) Urban hospital and rural village smallpox in Bangladesh. *Tropical and geographical medicine*, **30**: 355–358. [1, 4]
- Korns, J.M. (1921) Incidence of vaccination and smallpox in north China. *China medical journal*, **35**: 561–563. [8]
- Korté, W.E. de (1904) Amaas, or kaffir milk-pox. *Lancet*, **1**: 1273–1276. [1, 5]
- Koszinowski, U. & Ertl, H. (1976) Role of early viral surface antigens in cellular immune response to vaccinia virus. *European journal of immunology*, **6**: 679–683. [3]
- Krag, P. & Bentzon, M.W. (1963) The international reference preparation of smallpox vaccine. *Bulletin of the World Health Organization*, **29**: 299–309. [7, 11]
- Kravchenko, A.T. (1970) [Smallpox eradication in the USSR]. *Zhurnal mikrobiologii, epidemiologii i immunobiologii*, **47** (2): 3–8 (in Russian). [8]
- Krieger, H. & Vicente, A.T. (1969) Smallpox and the ABO system in southern Brazil. *Human heredity*, **19**: 654–657. [3]
- Kříž, B. (1982) A study of camelpox in Somalia. *Journal of comparative pathology*, **92**: 1–8. [29]
- Krugman, S., Giles, J.P., Friedman, H. & Stone, S. (1965) Studies on immunity to measles. *Journal of pediatrics*, **66**: 471–488. [17]
- Krupenko, S.S. (1972) [Camelpox caused by vaccinia virus]. *Veterinariya*, **49** (8): 61–62 (in Russian). [2]
- Külz (1905) Pockenbekämpfung in Togo. *Archiv für Schiffs- und Tropenhygiene*, **9**: 241–253. [8]
- Kumar, L., Salam, N.M.A., Datta, U. & Walia, B.N.S. (1977) Cell-mediated immuno-deficiency with normal immunoglobulins (Nezelof's syndrome) with progressive vaccinia. *Indian pediatrics*, **14**: 69–72. [3]
- Kurata, T., Aoyama, Y. & Kitamura, T. (1977) Demonstration of vaccinia virus antigen in brains of postvaccinal encephalitis cases. *Japanese journal of medical science and biology*, **30**: 137–147. [3]
- Kyrle, J. & Morawetz, G. (1915) Tierexperimentelle Studien über Variola. *Wiener klinische Wochenschrift*, **28**: 697–701. [1]
- Laboratory animal science*, 1981, **31**: 549–636 (Ectromelia (mousepox) in the United States). [3]
- Laboratory Centre for Disease Control (1981) Vaccinia outbreak—Newfoundland. *Canada disease weekly report*, **7**: 29–30. [28]
- Labusquière, R. (1967) Mass rubella immunization in Africa. In: *Proceedings of the first international conference on vaccines against viral and rickettsial diseases of man*, Washington, Pan American Health Organization, pp. 312–317. [17]
- Ladnyj, I.D., Ziegler, P. & Kima, E. (1972) A human infection caused by monkeypox virus in Basankusu Territory, Democratic Republic of the Congo. *Bulletin of the World Health Organization*, **46**: 593–597. [2, 29, 30]
- Ladnyj, I.D., Ogorodnikova, Z.I., Šeluhina, E.M., Gerashchenko, R.T. & Voronin, Ju.S. (1975) [On the occurrence of smallpox-type viruses in animals.] *Problemy osobopočasnykh infekciy*, No. 3–4: 165–167 (in Russian). [3, 29]
- Laidlaw, S.I.A. & Horne W.A. (1950) Smallpox outbreak in Glasgow, 1950. *Medical officer*, **83**: 187–192. [4]
- Lake, J.R. & Cooper, P.D. (1980) Deletions of the terminal sequences in the genomes of the white pock (*u*) and host-restricted (*p*) mutants of rabbitpox virus. *Journal of general virology*, **48**: 135–147. [2]
- Lal, S.M. & Singh, I.P. (1977) Buffalopox—a review. *Tropical animal health and production*, **9**: 107–112. [2, 29]
- Lambert, H.P. & Farrar, W.E. (1982) *Infectious diseases illustrated: an integrated text and colour atlas*, London, Gower. [1]
- Lambotte, C. & Israel, E. (1967) Variole et groupes sanguins au Congo. *Annales des Sociétés belges de Médecine tropicale, de Parasitologie et de Mycologie humaine et animale*, **47**: 405–411. [3]
- Lancaster, M.C., Boulter, E.A., Westwood, J.C.N. & Randles, J. (1966) Experimental respiratory infection with poxviruses. II. Pathological studies. *British journal of experimental pathology*, **47**: 466–471. [4]
- Lance, G.N. & Williams, W.T. (1967) Mixed-data classificatory programs. I. Agglomerative systems. *Australian computer journal*, **1**: 15–20. [2]
- Lancet*, 1901, **1**: 898 (Smallpox inoculation in Algeria). [6]
- Lancet*, 1903, **2**: 326–327 (Anomalous smallpox and its lessons). [8]
- Lancet*, 1963, **2**: 501 (Smallpox prophylaxis). [1]
- Landrigan, P.J. & Witte, J.J. (1973) Neurological disorders following live measles-virus vaccination. *Journal of the American Medical Association*, **223**: 1459–1462. [7]
- Lane, J.M. & Millar, J.D. (1969) Routine childhood vaccination against smallpox reconsidered. *New England journal of medicine*, **281**: 1220–1224. [7]
- Lane, J.M., Ruben, F.L., Neff, J.M. & Millar, J.D. (1969) Complications of smallpox vaccination, 1968. National surveillance in the United States. *New England journal of medicine*, **281**: 1201–1208. [7]
- Lane, J.M., Mack, T.M. & Millar, J.D. (1970a) Take rates by double versus single insertions of smallpox vaccine in revaccinees. *Public health reports*, **85**: 928–932. [11]
- Lane, J.M., Ruben, F.L., Neff, J.M. & Millar, J.D. (1970b) Complications of smallpox vaccination, 1968: Results of ten statewide surveys. *Journal of infectious diseases*, **122**: 303–309. [7]
- Langmuir, A.D. (1963) The surveillance of communicable diseases of national importance. *New England journal of medicine*, **268**: 182–192. [9, 10]
- Langmuir, A.D. (1973) Contact and airborne infection. In: Sartwell, P.E., ed. *Preventive medicine and public health*, 10th ed., New York, Appleton-Century-Crofts, pp. 247–274. [4]
- Langmuir, A.D. (1974) Vaccination should be abolished in the United States except for selected populations. In: Ingelfinger, F.J., Ebert, R.V., Finland, M. & Relman, A.S., ed. *Controversy in internal medicine, II*, Philadelphia, Saunders, pp. 363–370. [7]
- Lavigne de Lemos, A. & Morris, L. (1969) Avaliação na campanha de erradicação da varíola. *Revista brasileira de estatística*, **30**: 300–302. [12]
- Leake, J.P. (1927) Questions and answers on smallpox and vaccination. *Public health reports*, **42**: 221–238. [7]

- Ledingham, J.C.G. (1931) The aetiological importance of the elementary bodies in vaccinia and fowl-pox. *Lancet*, 2: 525–526. [2]
- LeFanu, W. (1951) *A bio-bibliography of Edward Jenner 1749–1823*, London, Harvey & Blythe. [6]
- Lehmann, W. (1937) Über die Brauchbarkeit der Carbolsäure zur Gewinnung keimfreier Pockenschutzlymphe. *Zeitschrift für Hygiene und Infektionskrankheiten*, 119: 21–27. [7]
- Lerner, R. A., Chanock, R. M. & Brown, F. (1985) *Vaccines 85*, Cold Spring Harbor, Cold Spring Harbor Laboratory. [28]
- Leroux, Amphoux, Billaud, Bouillaud, Cadoret, G., Delord, Duhamel, Y., Lobrichon, Baldrich & Audouy (1955) Epidémie de variole à Vannes de Décembre 1954–Mars 1955. *Presse médicale*, 63: 639–642. [1]
- Levaditi, C., Harvier, P. & Nicolau, S. (1922) Etude expérimentale de l'encéphalite dite "léthargique", XVI. *Annales de l'Institut Pasteur*, 36: 139–144. [2]
- Levaditi, C., Fasquelle, R., Beguinon, R. & Reinie, L. (1938) Influence des sélecteurs sur le potentiel encéphalitogène du vaccin jennérien. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences*, 207: 688–690. [2]
- Lewin, P.K. (1967) Palaeo-electron microscopy of mummified tissue. *Nature*, 213: 416–417. [5]
- Lieberman, B.L. (1927) Vaccination of pregnant women and newborn infants. *American journal of obstetrics and gynecology*, 14: 217–220. [7]
- Lillie, R.D. (1930) Smallpox and vaccinia: the pathologic histology. *Archives of pathology*, 10: 241–291. [3]
- Lin, H.T. (1965) A study of the effect of simultaneous vaccination with BCG and smallpox vaccine in newborn infants. *Bulletin of the World Health Organization*, 33: 321–336. [7]
- Littman, R.J. & Littman, M.L. (1969) The Athenian plague: smallpox. *Proceedings of the American Philological Association*, 100: 261–275. [5]
- Littman, R.J. & Littman, M.L. (1973) Galen and the Antonine plague. *American journal of philology*, 94: 243–255. [5]
- Litvinov, S.K. (1970) [On the centenary year of the discovery by A.P. Fedchenko of the intermediate host of *Dracunculus medinensis*]. *Meditinskaya parazitologiya i parazitarnye bolezni*, 39: 728–729 (in Russian). [9]
- Lloyd, W.S. & Mahaffy, A.F. (1935) Cultivation of vaccinia virus by Rivers' method. *Proceedings of the Society for Experimental Biology and Medicine*, 33: 154–156. [7]
- Logan, J.A. (1953) *The Sardinian project: an experiment in the eradication of an indigenous malarious vector*, Baltimore, The Johns Hopkins Press. [9]
- Loubère, S. de la (1969) *The kingdom of Siam*, Kuala Lumpur, Oxford University Press (reprint of 1693 edition). [5]
- Lourie, B., Bingham, P.G., Evans, H.H., Foster, S.O., Nakano, J.H. & Herrman, K.L. (1972) Human infection with monkeypox virus: laboratory investigation of six cases in West Africa. *Bulletin of the World Health Organization*, 46: 633–639. [29]
- Lourie, B., Nakano, J.H., Kemp, G.E. & Setzer, H.W. (1975) Isolation of a poxvirus from an African rodent. *Journal of infectious diseases*, 132: 677–681. [2, 3, 29]
- Low, R.B. (1918) *The incidence of small-pox throughout the world in recent years*, London, H. M. Stationery Office. (Reports to the Local Government Board on Public Health and Medical Subjects, NS No. 117). [4, 8]
- Loy, J.G. (1801) *An account of some experiments on the origin of the cow-pox*, London, Phillips. [2, 6]
- Lum, G.S., Soriano, F., Trejos, A. & Llerena, J. (1967) Vaccinia epidemic and epizootic in El Salvador. *American journal of tropical medicine and hygiene*, 16: 332–338. [29]
- Lürman (1885) Eine Icterusepidemie. *Berliner klinische Wochenschrift*, 22: 20–23. [6]
- Lyons, J. & Dixon, C.W. (1953) Smallpox in the industrial Pennines, 1953. *Medical officer*, 90: 293–300, 307–310. [1]
- MacCallum, F.O. & McDonald, J.R. (1957) Survival of variola virus in raw cotton. *Bulletin of the World Health Organization*, 16: 247–254. [2, 4]
- MacCallum, W.G. & Moody, L.M. (1921) Alastrim in Jamaica. *American journal of hygiene*, 1: 388–409. [1, 3]
- McCarthy, K. & Helbert, D. (1960) A comparison of the haemagglutinins of variola, alastrim, vaccinia, cowpox and ectromelia viruses. *Journal of pathology and bacteriology*, 79: 416–420. [2]
- McCarthy, K., Downie, A.W. & Armitage, P. (1958a) The antibody response in man following infection with viruses of the pox group. I. An evaluation of the pock counting method for measuring neutralizing antibody. *Journal of hygiene*, 56: 84–100. [3]
- McCarthy, K., Downie, A.W. & Bradley, W.H. (1958b) The antibody response in man following infection with viruses of the pox group. II. Antibody response following vaccination. *Journal of hygiene*, 56: 466–478. [3]
- McClean, D. (1949) "Purification" of vaccine virus. *Lancet*, 2: 476–477. [7]
- McConnell, S.J., Herman, Y.F., Mattson, D.E. & Erickson, L. (1962) Monkey pox disease in irradiated cynomolgus monkeys. *Nature*, 195: 1128–1129. [29]
- McConnell, S., Herman, Y.F., Mattson, D.E., Huxsoll, L., Lang, C.M. & Yager, R.H. (1964) Protection of rhesus monkeys against monkeypox by vaccinia virus immunization. *American journal of veterinary research*, 25: 192–195. [3]
- McConnell, S., Hickman, R.L., Wooding, W.J., Jr & Huxsoll, D.L. (1968) Monkeypox: experimental infection in chimpanzee (*Pan satyrus*) and immunization with vaccinia virus. *American journal of veterinary research*, 29: 1675–1680. [3]
- McCormick, J.B. & Johnson, K.M. (1984) Viral hemorrhagic fevers. In: Warren, K.S. & Mahmoud, A.A.F., ed. *Tropical and geographical medicine*, New York, McGraw-Hill, pp. 676–697. [28]
- McCullough, D. (1977) *The path between the seas*, New York, Simon and Schuster. [9]
- Macdonald, G. (1957) *The epidemiology and control of malaria*, London, Oxford University Press. [9]
- McEvedy, C. & Jones, R. (1978) *Atlas of world population history*, Harmondsworth, Penguin Books. [5]
- Macgowan, D.J. (1884) Dr D.J. Macgowan's report on the health of Wenchow for the half-year ended 31 March 1884. *China, imperial maritime customs medical reports*, 27: 9–18. [5, 6]
- McGregor, I. (1984) Malaria—recollections and observations. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 78: 1–8. [9]
- McIntosh, S.K. & McIntosh, R.J. (1981) West African prehistory. *American scientist*, 69: 602–613. [2]
- Mack, T.M. (1972) Smallpox in Europe, 1950–1971. *Journal of infectious diseases*, 125: 161–169. [1, 4, 23]
- Mack, T.M. & Noble, J., Jr (1970) Natural transmission of smallpox from man to performing monkeys. An ecological curiosity. *Lancet*, 1, 752–754. [2, 30]

- Mack, T.M., Thomas, D.B. & Khan, M.M. (1970) Variola major in West Pakistan. *Journal of infectious diseases*, **122**: 479–488. [1, 14]
- Mack, T.M., Thomas, D.B., Ali, A. & Khan, M.M. (1972a) Epidemiology of smallpox in West Pakistan. I. Acquired immunity and the distribution of disease. *American journal of epidemiology*, **95**: 157–168. [4, 11, 14, 17]
- Mack, T.M., Thomas, D.B. & Khan, M.M. (1972b) Epidemiology of smallpox in West Pakistan. II. Determinants of intravillage spread other than acquired immunity. *American journal of epidemiology*, **95**: 169–177. [4, 14, 17]
- McKenzie, P.J., Githens, J.H., Harwood, M.E., Roberts, J.F., Rao, A.R. & Kempe, C.H. (1965) Haemorrhagic smallpox. 2. Specific bleeding and coagulation studies. *Bulletin of the World Health Organization*, **33**: 773–782. [1]
- Mackett, M. (1981) *Restriction endonuclease analysis of orthopoxvirus DNA*. Ph.D. thesis, University of London. [2, 29]
- Mackett, M. & Archard, L.C. (1979) Conservation and variation in Orthopoxvirus genome structure. *Journal of general virology*, **45**: 683–701. [2]
- Mackett, M., Smith, G.L. & Moss, B. (1984) General method for production and selection of infectious vaccinia virus recombinants expressing foreign genes. *Journal of virology*, **49**: 857–864. [11]
- Maclean, F.S. (1964) *Challenge for health. A history of public health in New Zealand*, Wellington, Government Printer. [5]
- MacLeod, R.M. (1967) Law, medicine and public opinion: the resistance to compulsory health legislation 1870–1907. *Public law* 1967: 107–128, 189–211. [6]
- McNalty, A.S. (1968) The prevention of smallpox: from Edward Jenner to Monckton Copeman. *Medical history*, **12**: 1–18. [6]
- McNeill, T.A. (1965) The antibody response of rabbits to inactivated vaccinia virus. *Journal of hygiene*, **63**: 525–535. [3]
- McNeill, T.A. (1968) The neutralization of pox viruses. II. Relationship between vaccinia, rabbitpox, cowpox and ectromelia. *Journal of hygiene*, **66**: 549–555. [2, 3]
- McNulty, W.P., Jr, Lobitz, W.C., Hu, F., Maruffo, C.A. & Hall, A.S. (1968) A pox disease in monkeys transmitted to man. *Archives of dermatology*, **97**: 286–293. [29]
- Macrae, A.D. (1982) Laboratory diagnosis of smallpox: role of the Virus Reference Laboratory, Colindale, 1947–70. *Journal of hygiene*, **89**: 399–407. [2]
- McVail, J.C. (1923) Smallpox and vaccination in the Philippines. *British medical journal*, **1**: 158–162. [8]
- Madeley, C.R. (1968) The immunogenicity of heat-inactivated vaccinia virus in rabbits. *Journal of hygiene*, **66**: 89–107. [3]
- Magnus, P. von, Andersen, E.K., Petersen, K.B., & Birch-Andersen, A. (1959) A pox-like disease in cynomolgus monkeys. *Acta pathologica et microbiologica Scandinavica*, **46**: 156–176. [2, 3, 10, 29, 30]
- Maiboroda, A.D. (1982) Experimental infection of Norwegian rats (*Rattus norvegicus*) with ratpox virus. *Acta virologica*, **26**: 288–291. [3, 29]
- Maltseva, N.N. & Marenikova, S.S. (1976) A method for serological differentiation of closely related poxviruses. *Acta virologica*, **20**: 250–252. [2]
- Maltseva, N.N., Akatova-Shelukhina, E.M., Yumasheva, M.A. & Marenikova, S.S. (1966) The aetiology of certain smallpox-like infections in cattle and methods of differentiating vaccinia, cowpox and swinepox viruses. *Journal of hygiene, epidemiology, microbiology and immunology*, **10**: 202–209. [2, 29]
- Mandl, P.-E. (1985) Accelerated immunization programmes and CSIR: their meaning and broader implications for development. *Assignment children*, **69/72**, vii–xxvi. [31]
- Manson-Bahr, P.E.C. & Downie, A.W. (1973) Persistence of tanapox in Tana River valley. *British medical journal*, **2**: 151–153. [29]
- Marchal, J. (1930) Infectious ectromelia. A hitherto undescribed virus disease of mice. *Journal of pathology and bacteriology*, **33**: 713–728. [2]
- Marenikova, S.S. (1962) The use of hyperimmune antivaccinia gamma-globulin for the prevention and treatment of smallpox. *Bulletin of the World Health Organization*, **27**: 325–330. [1]
- Marenikova, S.S. (1973) Evaluation of vaccine strains by their behaviour in vaccinated animals and possible implications of the revealed features for smallpox vaccination practice. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 253–260. [11]
- Marenikova, S.S. (1979) Field and experimental studies of poxvirus infections in rodents. *Bulletin of the World Health Organization*, **57**: 461–464. [3]
- Marenikova, S.S. & Macević, G.R. (1975) Experimental study of the role of inactivated vaccine in two-step vaccination against smallpox. *Bulletin of the World Health Organization*, **52**: 51–56. [2, 3]
- Marenikova, S.S. & Shelukhina, E.M. (1976) White rats as a source of pox infection in carnivora of the family Felidae. *Acta virologica*, **20**: 442. [29]
- Marenikova, S.S. & Shelukhina, E.M. (1978) Whitepox virus isolated from hamsters inoculated with monkeypox virus. *Nature*, **276**: 291–292. [29, 30]
- Marenikova, S.S., Akatova, E.M., Gurvich, E.G., Fuev, V.A., Ogorodnikova, F.T. & Yumasheva, M.A. (1961) [Laboratory diagnostic techniques for smallpox and their comparative evaluation (data of Moscow outbreak, 1960)]. In: Marenikova, S.S., ed. [Smallpox. Proceedings of a conference on epidemiology, clinical features, laboratory diagnosis, specific prophylaxis and therapy. Moscow 1960] Moscow, [Mechnikov Research Institute for Vaccines and Sera] (in Russian). [2]
- Marenikova, S.S., Gurvich, E.B. & Yumasheva, M.A. (1963) Laboratory diagnosis of smallpox and similar viral diseases by means of tissue culture methods. I. Sensitivity of tissue culture methods in the detection of variola virus. *Acta virologica*, **7**: 124–130. [1]
- Marenikova, S.S., Chimishkyan, K.L., Maltseva, N.N., Shelukhina, E.M. & Fedorov, V.V. (1969) Characteristics of virus strains for production of smallpox vaccines. In: Gušić, B., ed. *Proceedings of the Symposium on Smallpox, 2 & 3 September 1969*, Zagreb, Yugoslav Academy of Sciences and Arts, pp. 65–79. [7, 11]
- Marenikova, S.S., Gurvich, E.B. & Shelukhina, E.M. (1971) Comparison of the properties of five pox virus strains isolated from monkeys. *Archiv für die gesamte Virusforschung*, **33**: 201–210. [2, 30]
- Marenikova, S.S., Šeluhina, E.M., Mal'ceva, N.N., Čimiškjan, K.L. & Macević, G.R. (1972a) Isolation and properties of the causal agent of a new variola-like disease (monkeypox) in man. *Bulletin of the World Health Organization*, **46**: 599–611. [2, 29]

- Marenikova, S.S., Šeluhina, Ě.M., Mal'ceva, N.N. & Ladnyj, I.D. (1972b) Poxviruses from clinically ill and asymptotically infected monkeys and a chimpanzee. *Bulletin of the World Health Organization*, **46**: 613–620. [30]
- Marenikova, S.S., Shelukhina, E.M. & Shenkman, L.S. (1973) Role of the temperature of incubation of infected chick embryos in the differentiation of certain poxviruses according to pock morphology. *Acta virologica*, **17**: 362. [2]
- Marenikova, S.S., Shelukhina, E.M., Shenkman, L.S., Maltseva, N.N. & Matsevich, G.R. (1975) [The results of examinations of wildlife monkeys for the presence of antismallpox antibody and viruses of the smallpox group]. *Voprosy virusologii*, **20** (3): 321–326 (in Russian). [29, 30]
- Marenikova, S.S., Shelukhina, E.M. & Shenkman, L.S. (1976) "White-wild" (variola-like) poxvirus strains from rodents in equatorial Africa. *Acta virologica*, **20**: 80–82. [30]
- Marenikova, S.S., Maltseva, N.N., Korneeva, V.I. & Garanina, N.M. (1977) Outbreak of pox disease among carnivorae (Felidae) and Edentata. *Journal of infectious diseases*, **135**: 358–366. [29]
- Marenikova, S.S., Shelukhina, E.M. & Fimina, V.A. (1978a) Pox infection in white rats. *Laboratory animals*, **12**: 33–36. [29]
- Marenikova, S.S., Ladnyj, I.D., Ogorodnikova, Z.I., Shelukhina, E.M. & Maltseva, N.N. (1978b) Identification and study of a poxvirus isolated from wild rodents in Turkmenia. *Archives of virology*, **56**: 7–14. [3, 29]
- Marenikova, S.S., Gančeva, C., Dončev, D., Macevič, G.R., Petrov, V., Rumenova, I. & Matova, E. (1978c) [Reactogenicity and immunologic effectiveness of the two-stage method of vaccination against smallpox]. *Epidemiologija, mikrobiologija i infekciozni bolesti*, **15**: 229–236 (in Bulgarian). [11]
- Marenikova, S.S., Shelukhina, E.M., Maltseva, N.N. & Matsevich, G.R. (1979) Monkeypox virus as a source of whitepox viruses. *Intervirology*, **11**: 333–340. [29, 30]
- Marenikova, S.S., Malceva, N.N. & Habahpaševa, N.A. (1981) ELISA—a simple test for detecting and differentiating antibodies to closely related orthopoxviruses. *Bulletin of the World Health Organization*, **59**: 365–369. [2, 29]
- Marmelzat, W.L. (1968) Malignant tumors in smallpox vaccination scars. A report of 24 cases. *Archives of dermatology*, **97**: 400–406. [7]
- Marsden, J.P. (1936) *A critical review of the clinical features of 13,686 cases of smallpox (variola minor)*, London, London County Council (Report No. 3209). [Reprinted as: Variola minor. A personal analysis of 13,686 cases. *Bulletin of hygiene*, 1948, **23**: 735–746.] [1, 3, 7]
- Marsden, J.P. & Greenfield, C.R.M. (1934) Inherited smallpox. *Archives of disease in childhood*, **9**: 309–314. [1, 3]
- Marsden, J.P. & Hurst, E.W. (1932) Acute perivasicular myelinoclasia ("acute disseminated encephalomyelitis") in smallpox. *Brain*, **55**: 181–225. [1, 3]
- Marshall, I.D. (1959) The influence of ambient temperature on the course of myxomatosis in rabbits. *Journal of hygiene*, **57**: 484–497. [3]
- Masso, A.R. (1970) A study of smallpox in the Tuaregs in Tahoua, Niger. In: United States National Communicable Disease Center, *op. cit.*, No. 1, pp. 57–58. [17]
- Matthews, R.E.F., ed. (1983) *A critical appraisal of viral taxonomy*, Boca Raton, CRC Press. [2]
- Mayhew, C.J. & Hahon, N. (1970) Assessment of aerosol mixtures of different viruses. *Applied microbiology*, **20**: 313–316. [2]
- Mayr, A., Mahnel, H. & Munz, E. (1972) Systematisierung und Differenzierung der Pockenviren. *Zentralblatt für Veterinärmedizin, Reihe B*, **19**: 69–88. [2]
- Mayr, A., Stickl, H., Müller, H.K., Danner, K. & Singer, H. (1978) Der Pockenimpfstamm MVA: Marker, genetische Struktur, Erfahrungen mit der parenteralen Schutzimpfung und Verhalten im abwehrgeschwächten Organismus. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **167**: 375–390. [11]
- Medzon, E.L. & Bauer, H. (1970) Structural features of vaccinia virus revealed by negative staining, sectioning, and freeze-etching. *Virology*, **40**: 860–867. [2]
- Meers, P.D. (1960) Further observations on 17D-yellow fever vaccination by scarification, with and without simultaneous smallpox vaccination. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **54**: 493–501. [7]
- Meiklejohn, G., Kempe, C.H., Downie, A.W., Berge, T.O., St. Vincent, L. & Rao, A.R. (1961) Air sampling to recover variola virus in the environment of a smallpox hospital. *Bulletin of the World Health Organization*, **25**: 63–67. [4]
- Meyer, H.M., Jr, Hostetler, D.D., Jr, Bernheim, B.C., Rogers, N.G., Lambin, P., Chassary, A. & Smadel, J.E. (1964a) Response of Volta children to live attenuated measles virus vaccine. *Bulletin of the World Health Organization*, **30**: 769–781. [9, 17]
- Meyer, H.M., Jr, Hostetler, D.D., Jr, Bernheim, B.C., Rogers, N.G., Lambin, P., Chassary, A., Labusquière, R. & Smadel, J.E. (1964b) Response of Volta children to jet inoculation of combined live measles, smallpox and yellow fever vaccines. *Bulletin of the World Health Organization*, **30**: 783–794. [7]
- Michelson, H.E. & Ikeda, K. (1927) Microscopic changes in variola. *Archives of dermatology and syphilis*, **15**: 138–164. [3]
- Mielke, J.H., Jorde, L.B., Trapp, G., Anderton, D.L., Pitkanen, K. & Erikson, A.W. (1984) Historical epidemiology of smallpox in Åland, Finland: 1751–1890. *Demography*, **21**: 271–295. [4]
- Mikloucho-Maclay, N.N. (1975) *New Guinea diaries, 1871–1883* (transl. by C.L. Sentinella), Madang, Kristen Press, pp. 91 and 179. [5]
- Milhaud, C., Klein, M. & Virat, J. (1969) Analyse d'un cas de variole du singe (monkey-pox) chez le chimpanzé (*Pan troglodytes*). *Expérimentation animale*, **2**: 121–135. [29]
- Millar, J.D. (1965) Smallpox—a continuing threat. *Hospitals. Journal of the American Hospital Association*, **39** (19): 57–59. [4]
- Millar, J.D. (1970) Epidemiological characteristics of measles in west and central Africa. In: United States National Communicable Disease Center, *op. cit.*, No. 2, pp. 4–8. [17]
- Millar, J.D. & Foege, W.H. (1969) Status of eradication of smallpox (and control of measles) in West and Central Africa. *Journal of infectious diseases*, **120**: 725–732. [17]
- Millar, J.D., Roberto, R.R., Wulff, H., Wenner, H.A. & Henderson, D.A. (1969) Smallpox vaccination by intradermal jet injection. 1. Introduction, background and results of pilot studies. *Bulletin of the World Health Organization*, **41**: 749–760. [9, 11, 17]

- Millar, J.D., Morris, L., Macedo Filho, A., Mack, T.M., Dyal, W. & Medeiros, A.A. (1971) The introduction of jet injection mass vaccination into the national smallpox eradication program of Brazil. *Tropical and geographical medicine*, **23**: 89–101. [9, 11, 12, 17]
- Millard, C.K. (1914) *The vaccination question in the light of modern experience*, London, Lewis. [6]
- Miller, G. (1957) *The adoption of inoculation for smallpox in England and France*, Philadelphia, University of Pennsylvania Press. [1, 4, 6]
- Miller, G. (1981) Putting Lady Mary in her place: a discussion of historical causation. *Bulletin of the history of medicine*, **55**: 2–16. [6]
- Mills, T. & Pratt, B.C. (1980) Differentiation of ectromelia virus haemagglutinin from haemagglutinins of other poxviruses. *Archives of virology*, **63**: 153–157. [2]
- Mims, C.A. (1964) Aspects of the pathogenesis of virus diseases. *Bacteriological reviews*, **28**: 30–71. [3]
- Mims, C.A. (1966) Pathogenesis of rashes in virus diseases. *Bacteriological reviews*, **30**: 739–760. [3]
- Mims, C.A. (1969) Effect on the fetus of maternal infection with lymphocytic choriomeningitis (LCM) virus. *Journal of infectious diseases*, **120**: 582–597. [3]
- Mitra, A.C., Chatterjee, S.N., Sarkar, J.K., Manji, P. & Das, A.K. (1966) Viraemia in haemorrhagic and other forms of smallpox. *Journal of the Indian Medical Association*, **47**: 112–114. [1, 3]
- Mitra, A.C., Sarkar, J.K. & Mukherjee, M.K. (1974) Virus content of smallpox scabs. *Bulletin of the World Health Organization*, **51**: 106–107. [4]
- Monro, A. (1818) *Observations on the different kinds of smallpox and especially that which sometimes follows vaccination*, Edinburgh, Constable. [6]
- Monsur, K.A., Hossain, M.S., Huq, F., Rahaman, M.M. & Haque, M.Q. (1975) Treatment of variola major with cytosine arabinoside. *Journal of infectious diseases*, **131**: 40–43. [1]
- Moodie, A.S. & Cheng, G.K.K. (1962) Concurrent BCG and smallpox vaccination in newborn babies. *Tubercle*, **43**: 155–160. [10]
- Moody, L.M. (1922) Alastrim; or Kaffir milk pox. *Annals of tropical medicine and parasitology*, **16**: 21–46. [1]
- Moore, J. (1815) *The history of the smallpox*, London, Longman, Hurst, Rees Orme & Brown. [5]
- Moore, J. (1817) *The history and practice of vaccination*, London, Callow. [6, 11]
- Morbidity and mortality weekly report*, 1984, **33**: 37–38 (Contact spread from a recently vaccinated marine—Louisiana). [28]
- Morley, D.C. (1962) Measles in Nigeria. *American journal of diseases of children*, **103**: 230–233. [17]
- Morosow, M.A. (1926) Die Färbung der Paschenschen Körperchen durch Versilberung. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene, I. Abt. Orig.*, **100**: 385–387. [2]
- Morris, L., Lavigne de Lemos, A. & Silva, O.J. da (1970a) Investigation of hospital-associated smallpox—Victoria, Espírito Santo. *American journal of public health*, **60**: 2331–2335. [4, 12]
- Morris, L., Silva, O.J. da & Martinez, A.V. (1970b) Epidemiological investigation of a smallpox outbreak in a town reported to be “100% vaccinated”. *American journal of epidemiology*, **92**: 294–300. [12]
- Morris, L., Cappello, H., Soares, R., Leon, J.P. de & Leser, W. (1971) Smallpox occurrence in the Município of São Paulo, Brazil, 1945–69. *HSMHA health reports*, **86**: 87–91. [4, 12]
- Moss, B. (1978) Poxviruses. In: Nayak, D.P., ed. *The molecular biology of animal viruses*, New York, Marcel Dekker, Vol. 2, pp. 849–890. [2]
- Moss, B. (1985) Replication of poxviruses. In: Fields, B.N. et al., ed. *Virology*, New York, Raven Press, pp. 685–703. [2]
- Mourant, A.E., Kopec, A.C. & Domaniewska-Sobczak, K. (1978) *Blood groups and diseases*, Oxford, Oxford University Press. [3]
- Moyer, R.W. & Rothe, C.T. (1980) The white pock mutants of rabbit poxvirus. I. Spontaneous host range mutants contain deletions. *Virology*, **102**: 119–132. [2]
- Moyer, R.W., Graves, R.L. & Rothe, C.T. (1980) The white pock (μ) mutants of rabbit poxvirus. III. Terminal DNA sequence duplication and transposition in rabbit poxvirus. *Cell*, **22**: 545–553. [2]
- Müller, H.K., Wittek, R., Schaffner, W., Schümperli, D., Menna, A. & Wyler, R. (1978) Comparison of five poxvirus genomes by analysis with restriction endonucleases HindIII, BamI and EcoRI. *Journal of general virology*, **38**: 135–147. [2]
- Mukherjee, M.K., Sarkar, J.K. & Mitra, A.C. (1974) Pattern of intrafamilial transmission of smallpox in Calcutta, India. *Bulletin of the World Health Organization*, **51**: 219–225. [4, 11]
- Mukherjee, M.K., Sarkar, J.K., Mitra, A.C., De, S., Roy, I., Dumbell, K.R. & Almeida, J.D. (1976) Coxsackie virus infection simulating smallpox. *Indian journal of dermatology*, **22**: 1–3. [1]
- Mumford, E.P. & Mohr, J.L. (1943) Preliminary report on infectious diseases of enemy-occupied territories. Part I. The Japanese Mandated Islands and Guam. *Journal of tropical medicine and hygiene*, **46**: 15–23. [5]
- Murray, L.H. (1951) A world review of smallpox incidence (September 1951). *Epidemiological and vital statistics report*, **4**: 398–420. [8]
- Murthy, G.S., Chand, D. & Lal, K.M. (1958) Influence of climate, season and sunlight on the incidence of smallpox and forecasting of epidemics. *Indian journal of public health*, **2**: 249–257. [4]
- Mutombo, M.W., Arita, I. & Ježek, Z. (1983) Human monkeypox transmitted by a chimpanzee in a tropical rain-forest area of Zaire. *Lancet*, **1**: 735–737. [29]
- Nagington, J. & Horne, R.W. (1962) Morphological studies of orf and vaccinia viruses. *Virology*, **16**: 248–260. [2]
- Nagler, F.P.O. (1942) Application of Hirst's phenomenon to the titration of vaccinia virus and vaccinia immune serum. *Medical journal of Australia*, **1**: 281–283. [2]
- Nagler, F.P.O. & Rake, G. (1948) The use of the electron microscope in diagnosis of variola, vaccinia, and varicella. *Journal of bacteriology*, **55**: 45–51. [2]
- Nair, C.P. (1978) Assessment of smallpox eradication status in Abhujmar Bestar district, Madhya Pradesh state, India. *Indian journal of public health*, **22**: 75–81. [10]
- Nakano, E., Panicali, D. & Paoletti, E. (1982) Molecular genetics of vaccinia virus: demonstration of marker rescue. *Proceedings of the National Academy of Sciences of the United States of America*, **79**: 1593–1596. [28]
- Nakano, J.H. (1973) Evaluation of virological laboratory methods for smallpox diagnosis. *Bulletin of the World Health Organization*, **48**: 529–534. [2]
- Nakano, J.H. (1978) Comparative diagnosis of poxvirus diseases. In: Kurstak, E. & Kurstak, C., ed. *Comparative diagnosis of viral diseases: human and related viruses, Part A*, New York, Academic Press, Vol. 1, pp. 287–339. [29]

- Nakano, J.H. (1979) Poxviruses. In: Lennette, E.H. & Schmidt, N.J., ed. *Diagnostic procedures for viral, rickettsial and chlamydial infections*, 5th ed., New York, American Public Health Association, pp. 257–308. [2]
- Nakano, J.H. (1982) Human poxvirus diseases and laboratory diagnosis. In: Maza, L.M. de la & Peterson, E.M., ed. *Medical virology*, New York, Elsevier, pp. 125–147. [2]
- Nakano, J.H. (1985) Human poxvirus diseases. In: Lennette, E.H., ed. *Laboratory diagnosis of viral infections*, New York, Marcel Dekker, pp. 401–423. [3, 29]
- Nanning, W. (1962) Prophylactic effect of antivaccinia gammaglobulin against post-vaccinal encephalitis. *Bulletin of the World Health Organization*, **27**: 317–324. [7]
- Needham, J. (1980) *China and the origins of immunology*, Hong Kong, University of Hong Kong, Centre of Asian Studies (Occasional Papers and Monographs, No. 41). [3, 5, 6, 8]
- Needham, J. & Lu, G.-D. (in press) Smallpox in history. In: *Science and civilization in China*, Cambridge, Cambridge University Press, Vol. 6, Part 4. [5]
- Neff, J.M., Lane, J.M., Pert, J.H., Moore, R., Millar, J.D. & Henderson, D.A. (1967) Complications of smallpox vaccination. I. National survey in the United States 1963. *New England journal of medicine*, **276**: 125–132. [7]
- Neff, J.M., Millar, J.D., Roberto, R.R. & Wulff, H. (1969) Smallpox vaccination by intradermal jet injection. 3. Evaluation in a well-vaccinated population. *Bulletin of the World Health Organization*, **41**: 771–778. [11, 17]
- Negri, A. (1906) Über Filtration des Vaccinevirus. *Zeitschrift für Hygiene und Infektionskrankheiten*, **54**: 327–346. [2]
- Nelson, J.B. (1943) The stability of variola virus propagated in embryonated eggs. *Journal of experimental medicine*, **78**: 231–239. [6]
- New England journal of medicine*, 1965, **273**: 335–336 (Choice of a measles vaccine). [17]
- Nicholas, R. (1981) The goddess Sitalā and epidemic smallpox in Bengal. *Journal of Asian studies*, **41**: 21–44. [5]
- Nizamuddin, M. & Dumbell, K.R. (1961) A simple laboratory test to distinguish the virus of smallpox from that of alastrim. *Lancet*, **1**: 68–69. [2]
- Noble, J., Jr (1970) A study of New and Old World monkeys to determine the likelihood of a simian reservoir of smallpox. *Bulletin of the World Health Organization*, **42**: 509–514. [30]
- Noble, J., Jr & Rich, J.A. (1969) Transmission of smallpox by contact and by aerosol routes in *Macaca irus*. *Bulletin of the World Health Organization*, **40**: 279–286. [3, 4, 30]
- Noble, J., Jr, Long, G.W., Kirchner, E. & Sesso, J. (1970) A clinical and laboratory study of smallpox in Brazil. Accuracy of the laboratory diagnosis of smallpox with Brazilian variola minor infection. *American journal of tropical medicine and hygiene*, **19**: 1021–1028. [1, 2, 3, 12]
- Noordaa, J. van der, Dekking, F., Posthuma, J. & Beunders, B.J.W. (1967) Primary vaccination with an attenuated strain of vaccinia virus. *Archiv für die gesamte Virusforschung*, **22**: 210–214. [11]
- North, E.A., Broben, J.A. & Mengoni, A.H. (1944) The use of the chorioallantois of the developing chick embryo in the diagnosis of smallpox. *Medical journal of Australia*, **1**: 437–438. [2]
- Nyerges, G., Hollos, L., Losonczy, G., Erdos, L. & Petras, G. (1972) Development of vaccination immunity in hospital personnel revaccinated at three-year intervals. *Acta microbiologica Academiae Scientiarum hungaricae*, **19**: 63–68. [7]
- Nyerges, G., Erdos, L. & Melly, F. (1973) Smallpox vaccination immunity in relation to number of insertions. *Bulletin of the World Health Organization*, **48**: 397–400. [11]
- Oldstone, M.B.A. & Lampert, P.W. (1979) Antibody mediated complement dependent lysis of virus infected cells. *Springer seminars on immunopathology*, **2**: 261–283. [3]
- Olitsky, P.K. & Long, P.H. (1929) Relation of vaccinal immunity to the persistence of the virus in rabbits. *Journal of experimental medicine*, **50**: 263–277. [3]
- Olsen, R.G., Blakeslee, J.R., Mathes, L. & Nakano, J.H. (1977) Preparation and evaluation of a noninfectious monkey pox virus vaccine. *Journal of clinical microbiology*, **6**: 50–54. [3]
- Ono, K. & Kato, S. (1968) Lack of cell proliferation in the foci of variola virus-infected FL cells. *Biken's journal*, **11**: 333–341. [2]
- Otten, L. (1927) Trockenlymph. *Zeitschrift für Hygiene und Infektionskrankheiten*, **107**: 677–696. [2, 7, 8]
- Otten, L. (1932) Dry lymph (2nd communication). *Mededeelingen van den Dienst der Volksgezondheid in Nederlandsch-Indie*, **21**: 196–205. [7, 13]
- Outschoorn, A.S. (1973) The biological standardization programme of the World Health Organization. *Journal of biological standardization*, **1**: 203–213. [7]
- Padgett, B.L. & Tomkins, J.K.N. (1968) Conditional lethal mutants of rabbitpox virus. III Temperature-sensitive (*ts*) mutants; physiological properties, complementation and recombination. *Virology*, **36**: 161–167. [2]
- Palmquist, E.E. (1947) The 1946 smallpox experience in Seattle. *Canadian journal of public health*, **38**: 213–218. [8]
- Pampana, E.J. (1948) Malaria as a problem for the World Health Organization. In: *Proceedings of the Fourth International Congress of Tropical Medicine and Malaria, Washington, D.C., 1948*, Washington, United States Department of State (Publication 3246), pp. 940–946. [9]
- Pampana, E.J. (1963) *A textbook of malaria eradication*, London, Oxford University Press. [9]
- Pan American Health Organization (1959) Smallpox. In: *Annual report of the Director of the Pan American Sanitary Bureau 1958*, Washington (Official Document No. 30, pp. 34–39). [9]
- Pan American Health Organization (1966) *Status of smallpox eradication in the Americas. Précis Minutes of the XVI Meeting of the Directing Council of the PAHO*, Washington (Official Document No. 69, Annex 5, pp. 374–380). [9]
- Pan American Health Organization (1967) *Status of smallpox eradication in the Americas and the estimated requirements for achieving it. XVII Pan American Sanitary Conference*, Washington (C.S.P. 17/20, Rev. 1., Official Document No. 77, pp. 548–568). [12]
- Pan American Health Organization (1971a) *Handbook of resolutions of the governing bodies of the Pan American Health Organization*, Washington, pp. 27–33. [9, 12]
- Pan American Health Organization (1971b) *Guide for the reports on the Aedes aegypti eradication campaign in the Americas*, Washington (PAHO Scientific Publication No. 228). [24]

- Pan American Health Organization (1973) *Report on the status of smallpox eradication in the Americas. XXII Meeting of the Directing Council, Washington (C.C. 22/19).* [12]
- Pan American Sanitary Organization (1949) *Proposal of the Director of the Pan American Sanitary Bureau regarding a programme for cooperation of the Bureau in the eradication of smallpox in the Americas. Seventh Meeting of the Executive Committee, Washington (OSP, CE 7, W-15).* [12]
- Pan American Sanitary Organization (1950a) *Final reports of the first, second and third meetings of the Directing Council, Washington (PASO Publication No. 247).* [9]
- Pan American Sanitary Organization [1950b] *Report of the Director of the Pan American Sanitary Bureau ... January 1947–April 1950, Washington (CSP 13/6).* [9]
- Pan American Sanitary Organization (1958) Smallpox. In: *Report of the Director of the Pan American Sanitary Bureau ... January 1954–December 1957: Annual report of the Director of the Pan American Sanitary Bureau, 1957, Washington* (Official Document No. 25, pp. 15–16). [9]
- Pandit, C.G., Masilamani, S.E.D., Krishnan, G.N.V. & Seal, S.C. (1959) Smallpox in Madras City—a study in retrospect. *Indian journal of public health*, **3**: 245–260. [4]
- Pankhurst, R. (1965) The history and traditional treatment of smallpox in Ethiopia. *Medical history*, **9**: 343–355. [5, 8]
- Parish, H.J. (1944) Smallpox vaccination by the multiple-pressure method. *British medical journal*, **2**: 781–784. [7]
- Parker, R.F. (1938) Statistical studies of the nature of the infectious unit of vaccine virus. *Journal of experimental medicine*, **67**: 725–738. [4]
- Parker, R.F. (1939) The neutralization of vaccine virus by serum of vaccine-immune animals. *Journal of immunology*, **36**: 147–157. [3]
- Paschen, E. (1906) Was wissen wir über den Vakzineerreger? *Münchener medizinische Wochenschrift*, **53**: 2391–2393. [2]
- Pasteur, L. (1881) Vaccination in relation to chicken-cholera and splenic fever. *Transactions of the International Medical Congress, Seventh Session, London, August 2–9, 1881*, Vol. 1, pp. 85–90. [Reproduced in: Vallery-Radot, P. (1933) *Oeuvres de Pasteur*, Vol. 6, pp. 370–378, Paris, Masson.] [3, 6, 7]
- Pattanayak, S., Arora, D.D., Sehgal, C.L., Raghavan, N.G.S., Topa, P.K. & Subrahmanyam, Y.K. (1970) Comparative studies of smallpox vaccination by the bifurcated needle and rotary lancet techniques. *Bulletin of the World Health Organization*, **42**: 305–310. [11, 15]
- Paul, G. (1915) Zur Differentialdiagnose der Variola und der Varicellen. Die Erscheinungen an der variolierten Hornhaut des Kaninchens und ihre frühzeitige Erkennung. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **75**: 518–524. [2]
- Payne, L.G. (1978) Polypeptide composition of extracellular enveloped vaccinia virus. *Journal of virology*, **27**: 28–37. [2]
- Payne, L.G. (1979) Identification of the vaccinia hemagglutinin polypeptide from a cell system yielding large amounts of extracellular enveloped virus. *Journal of virology*, **31**: 147–155. [2]
- Payne, L.G. (1980) Significance of extracellular enveloped virus in the *in vitro* and *in vivo* dissemination of vaccinia. *Journal of general virology*, **50**: 89–100. [2, 3]
- Payne, L.G. & Kristensson, K. (1979) Mechanism of vaccinia virus release and its specific inhibition by N₁-isonicotinoyl-N₂-3-methyl-4-chlorobenzoylhydrazine. *Journal of virology*, **32**: 614–622. [2]
- Payne, L.G. & Kristensson, K. (1985) Extracellular release of enveloped vaccinia virus from mouse nasal epithelial cells *in vivo*. *Journal of general virology*, **66**: 643–646. [2]
- Payne, L.G. & Norrby, E. (1976) Presence of haemagglutinin in the envelope of extracellular vaccinia virus particles. *Journal of general virology*, **32**: 63–72. [2, 3]
- Paytherus, T. (1801) *A comparative statement of facts and observations relative to the cow pox*, 2nd ed., London, Shury. [6]
- Perkins, J.E. (1959) Global tuberculosis eradication. *American review of respiratory diseases*, **80** (Supplement, October): 138–139. [9]
- Perrenoud, A. (1980) Contribution à l'histoire cyclique des maladies. Deux cent ans de variole à Genève (1580–1810). In: Imhof, A.E., ed. *Mensch und Gesundheit in der Geschichte*, **39**: 175–198. [5, 6]
- Perrin, L.H., Zinkernagel, R.M. & Oldstone, M.B.A. (1977) Immune response in humans after vaccination with vaccinia virus: generation of a virus-specific cytotoxic activity by human peripheral lymphocytes. *Journal of experimental medicine*, **146**: 949–969. [3]
- Peters, D. (1956) Morphology of resting vaccinia virus. *Nature*, **178**: 1453–1455. [2]
- Peters, D., Nielsen, G. & Bayer, M.E. (1962) Variola. Reliability of rapid electron microscopic diagnosis. *Deutsche medizinische Wochenschrift*, **87**: 2240–2246. [2]
- Peters, J.C. (1966) A monkey pox-enzooty in the "Blijdorp" Zoo. *Tijdschrift voor diergeneeskunde*, **91**: 387–391. [29]
- Pettenkofer, H.J., Stoss, B., Helmbold, W. & Vogel, F. (1962) Alleged causes of the present-day world distribution of the human ABO blood groups. *Nature*, **193**: 445–446. [3]
- Pfeiffer, L. (1896) E. Jenner in der medicinischen Presse des Jahres 1896. *Blätter des allgemeinen ärztlichen Vereins von Thüringen*, **25**: 281–292. [6]
- Phadke, A.M., Samant, N.R. & Dewal, S.D. (1973) Smallpox as an etiologic factor in male infertility. *Fertility and sterility*, **24**: 802–804. [1]
- Pianka, E.R. (1970) On r- and K-selection. *American naturalist*, **104**: 592–597. [2]
- Pike, R.M. (1979) Laboratory-associated infections: incidence, fatalities, causes and prevention. *Annual review of microbiology*, **33**: 41–66. [30]
- Pincus, W.B. & Flick, J.A. (1963) The role of hypersensitivity in the pathogenesis of vaccinia virus infection in humans. *Journal of pediatrics*, **62**: 57–62. [3]
- Pirsich, J.B., Mika, L.A. & Purlson, E.H. (1963) Growth characteristics of variola virus in tissue culture. *Journal of infectious diseases*, **113**: 170–178. [2]
- Pogo, B.G.T. & Dales, S. (1969) Two deoxyribonuclease activities within purified vaccinia virus. *Proceedings of the National Academy of Sciences of the United States of America*, **63**: 820–827. [2]
- Polak, M.F. (1968) Smallpox control in Indonesia during the second quarter of the century and re-establishment of endemic smallpox from 1947. *Tropical and geographical medicine*, **20**: 243–250. [8, 13]
- Polak, M.F. (1973) Complications of smallpox vaccination in the Netherlands, 1959–1970. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 235–242. [7]

- Polak, M.F., Beunders, B.J.W., Werff, A.R. Van der, Sanders, E.W., Klaveren, J.N. Van & Brans, L.M. (1963) A comparative study of clinical reactions observed after application of several smallpox vaccines in primary vaccination of young adults. *Bulletin of the World Health Organization*, **29**: 311–322. [1]
- Porterfield, J.S. & Allison, A.C. (1960) Studies with poxviruses by an improved plaque technique. *Virology*, **10**: 233–244. [2]
- Postlethwaite, R. (1970) Molluscum contagiosum. A review. *Archives of environmental health*, **21**: 432–452. [29]
- Power, W.H. (1886) Statistics of small-pox incidence upon the registration districts of London, relatively to the operations of small-pox hospitals in the metropolis. In: *Annual Report of the Medical Officer of the Local Government Board*, London, H. M. Stationery Office, Appendix A, No. 7, pp. 41–96. [4]
- Presthus, G.T. (1974) Smallpox eradication in Botswana. *Journal of the Medical and Dental Association of Botswana*, **4**: 20–24. [4, 20]
- Prier, J.E., Sauer, R.M., Malsberger, R.G. & Sillaman, J.M. (1960) Studies on a pox disease of monkeys. II. Isolation of the etiologic agent. *American journal of veterinary research*, **21**: 381–384. [29]
- Prinzing, F. (1916) *Epidemics resulting from wars*, Oxford, Clarendon Press. [5]
- Prowazek, S. (1905) Untersuchungen über die Vaccine. *Arbeiten aus dem Reichsgesundheitsamt*, **22**: 535–556. [2]
- Quadros, C.A. de, Morris, L., Azeredo Costa, E.A., Arnt, N., Tigre, C.H. (1972) Epidemiology of variola minor in Brazil based on a study of 33 outbreaks. *Bulletin of the World Health Organization*, **46**: 165–171. [12]
- Quadros, C.A. de, Weithaler, K.L. & Siemon, J. (1973) Active search operations for smallpox—an Ethiopian experience. *International journal of epidemiology*, **2**: 237–240. [21]
- Quinnan, G.V., Jr, ed. (1985) *Vaccinia viruses as vectors for vaccine antigens*, New York, Elsevier. [2, 11, 28]
- Ramaiah, T.J. (1976a) Cost-benefit analysis of the intensified campaign against smallpox in India. *National Institute of Health Administration and Education bulletin*, **9**: 169–203. [31]
- Ramaiah, T.J. (1976b) Cost-effectiveness analysis of the intensified campaign against smallpox in India. *National Institute of Health Administration and Education bulletin*, **9**: 205–219. [31]
- Ramyar, H. & Hessami, M. (1972) Isolation, cultivation and characterization of camel pox virus. *Zentralblatt für Veterinärmedizin, Reihe B*, **19**: 182–189. [2]
- Rao, A.R. (1967) Quoted in: Ramsay, A.M. & Emond, R.T.D. *Infectious diseases*, London, Heinemann, pp. 34–35. [1]
- Rao, A.R. (1972) *Smallpox*, Bombay, The Kothari Book Depot. [1, 3, 4, 7, 11, 15]
- Rao, A.R. & Balakrishnan, A. (1963) Vaccination of the new-born against smallpox. *Medicine and surgery*, **3**: 10–16. [7, 15]
- Rao, A.R., Prahlad, I. & Swaminathan, M. (1960) A study of 1,000 cases of smallpox. *Journal of the Indian Medical Association*, **35**: 296–307. [4]
- Rao, A.R., McFadzean, J.A. & Squires, S. (1965) The laboratory and clinical assessment of an isothiazole thiosemicarbazone (M & B 7714) against pox viruses. *Annals of the New York Academy of Sciences*, **130**: 118–127. [1]
- Rao, A.R., McFadzean, J.A. & Kamalakshi, K. (1966a) An isothiazole thiosemicarbazone in the treatment of variola major in man. *Lancet*, **1**: 1068–1072. [1]
- Rao, A.R., McKendrick, G.D.W., Velayudhan, L. & Kamalakshi, K. (1966b) Assessment of an isothiazole thiosemicarbazone in the prophylaxis of contacts of variola major. *Lancet*, **1**: 1072–1074. [1]
- Rao, A.R., Jacob, E.S., Kamalakshi, S., Appaswamy, S. & Bradbury (1968a) Epidemiological studies in smallpox. A study of intrafamilial transmission in a series of 254 infected families. *Indian journal of medical research*, **56**: 1826–1854. [4, 11]
- Rao, A.R., Savithri Sukumar, M., Kamalakshi, S., Paramasivam, T.V., Parasuraman, T.A.R., & Shantha, M. (1968b) Experimental variola in monkeys. Part I. Studies on disease enhancing property of cortisone in smallpox: a preliminary report. *Indian journal of medical research*, **56**: 1855–1865. [3]
- Rao, A.R., Jacobs, E.S., Kamalakshi, S., Bradbury & Appa Swamy (1969a) Chemoprophylaxis and chemotherapy in variola major. Part I. An assessment of CG662 and Marboran in prophylaxis of contacts of variola major. *Indian journal of medical research*, **57**: 477–483. [1]
- Rao, A.R., Jacobs, E.S., Kamalakshi, S., Bradbury & Appa Swamy (1969b) Chemoprophylaxis and chemotherapy in variola major. Part II. Therapeutic assessment of CG662 and Marboran in treatment of variola major in man. *Indian journal of medical research*, **57**: 484–494. [1]
- Rao, A.R., Sukumar, M.S., Kamalakshi, S., Paramasivam, T.V., Shantha, M. & Parasuraman, A.R. (1970) Precipitation in gel test in diagnosis of smallpox. *Indian journal of medical research*, **58**: 271–282. [1, 2]
- Raska, K. (1964) The epidemiological surveillance programme. *Journal of hygiene, epidemiology, microbiology and immunology*, **8**: 137–168. [10]
- Raska, K. (1966) Global eradication of smallpox. In: *IX International Congress for Microbiology, 24–30 July 1966, Moscow, USSR. Symposia*, pp. 613–617, Moscow, Ivanovsky Institute of Virology (world sales rights: Pergamon Press, Oxford). [9]
- Raska, K. (1976) Measures for smallpox eradication in the Czech countries at the beginning of the 19th century. *International journal of epidemiology*, **5**: 227–229. [6]
- Raynaud, M. (1877) Etude expérimentale sur le rôle du sang dans la transmission de l'immunité vaccinale. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences*, **84**: 453–456. [3]
- Razzell, P. (1976) Smallpox extinction—a note of caution. *New scientist*, **71**: 35. [30]
- Razzell, P.E. (1977a) *Edward Jenner's cowpox vaccine: the history of a medical myth*, Firle, Caliban. [6]
- Razzell, P. (1977b) *The conquest of smallpox*, Firle, Caliban. [1, 6]
- Reed, W. & Carroll, J. (1902) The etiology of yellow fever. A supplemental note. *American medicine*, **3**: 301–305. [9]
- Reed, W., Carroll, J., Agramonte, A. & Lazear, J.W. (1900) The etiology of yellow fever. A preliminary note. *Philadelphia medical journal*, **6**: 790–796. [9]
- Regamey, R.H. & Cohen, H., ed. (1973) *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19. [11]
- Regöly-Mérei, G. (1966) Paläopathologische und epigraphische Angaben zur Frage der Pocken in Altagypten. *Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften*, **50**: 411–417. [5]

- Reiman, J.A. (1721) [Variolation trial against smallpox] (in Slovak). (Translated into Czech and published in: Duka, H. (1968) *Dějiny vedy a techniky*, 1: 48.) [6]
- Ribeiro, A.M., Salles-Gomes, L.F. de, Schmidt, B.J., Kopelman, B.I., Pimenta de Campos, E. & Carvalho, A.A. (1965) Fetal variola. Report of two cases. *Helvetica paediatrica acta*, 20: 369–373. [1]
- Richet, P. (1965) L'histoire et l'oeuvre de l'O.C.C.G.E. en Afrique occidentale francophone. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 59: 234–251. [17]
- Rickard, E.R. (1931) Viscerotome, instrument for removal of fragments of liver for pathological examination without autopsy. *Rockefeller Foundation quarterly bulletin*, 5: 310–313. [9]
- Ricketts, T.F. (1893) A classification of cases of smallpox by the numerical severity of the eruption. *Annual Report of the Metropolitan Asylums Board, United Kingdom*, London, McCorquodale. [1]
- Ricketts, T.F. (1908) *The diagnosis of smallpox*, London, Cassell. [1, 3]
- Ricketts, T.F. & Byles, J.B. (1904) The red light treatment of smallpox. *Lancet*, 2: 287–290. [5]
- Rivers, T.M. (1931) Cultivation of vaccine virus for Jennerian prophylaxis in man. *Journal of experimental medicine*, 54: 453–461. [11]
- Rivers, T.M. & Ward, S.M. (1933) Further observation on the cultivation of vaccine virus for Jennerian prophylaxis in man. *Journal of experimental medicine*, 58: 635–648. [7]
- Rivers, T.M. & Ward, S.M. (1935) Jennerian prophylaxis by means of intradermal injections of culture vaccine virus. *Journal of experimental medicine*, 62: 549–560. [7, 11]
- Rivers, T.M., Ward, S.M. & Baird, R.D. (1939) Amount and duration of immunity induced by intradermal inoculation of cultured vaccine virus. *Journal of experimental medicine*, 69: 857–866. [11]
- Robbins, G.E. (1970) The role of fetish practices in vaccination campaigns. In: United States National Communicable Disease Center, *op. cit.*, No. 1, pp. 62–64. [17]
- Roberto, R.R., Wulff, H. & Millar, J.D. (1969) Smallpox vaccination by intradermal jet injection. 2. Cutaneous and serological responses to primary vaccination in children. *Bulletin of the World Health Organization*, 41: 761–769. [11, 17]
- Roberts, J.A. (1962a) Histopathogenesis of mousepox. I. Respiratory infection. *British journal of experimental pathology*, 43: 451–461. [3]
- Roberts, J.A. (1962b) Histopathogenesis of mousepox. II. Cutaneous infection. *British journal of experimental pathology*, 43: 462–468. [3]
- Roberts, J.A. (1964) Enhancement of the virulence of attenuated ectromelia virus in mice maintained in a cold environment. *Australian journal of experimental biology and medical science*, 42: 657–666. [3]
- Roberts, J.F., Coffee, G., Creel, S.M., Gaal, A., Githens, J.H., Rao, A.R., Sundara Babu, B.V. & Kempe, C.H. (1965) Haemorrhagic smallpox. 1. Preliminary haematological studies. *Bulletin of the World Health Organization*, 33: 607–613. [1]
- Rodrigues, B.A. (1975) Smallpox eradication in the Americas. *Bulletin of the Pan American Health Organization*, 9: 53–68. [8, 12]
- Rodrigues-da-Silva, G., Rabello, S.I. & Angulo, J.J. (1963) Epidemic of variola minor in a suburb of São Paulo. *Public health reports*, 78: 165–171. [1, 4]
- Rogers, L. (1926) Small-pox and climate in India. Forecasting of epidemics. *Medical Research Council Special Report Series*, No. 106, 3–23. [4]
- Rogers, L. (1928) Small-pox and climate in England and Wales. *British medical journal*, 1: 300–302. [4]
- Rogers, L. (1944) Smallpox and vaccination in British India during the last seventy years. *Proceedings of the Royal Society of Medicine*, 38: 135–139. [15]
- Rogers, L. (1948) Further work on forecasting smallpox epidemics in India and British tropical countries based on previous climatic data. *Journal of hygiene*, 46: 19–33. [4]
- Rohde, J.E. & Gardner, P. (1973) Refugees in India: innovative health care programs. In: Chen, L.C., ed. *Disaster in Bangladesh*, New York, Oxford University Press, pp. 167–189. [16]
- Rolleston, J.D. (1933) The smallpox pandemic of 1870–74. *Proceedings of the Royal Society of Medicine. Section of epidemiology and state medicine*, 37: 15–30. [5]
- Rondle, C.J.M. & Dumbell, K.R. (1962) Antigens of cowpox virus. *Journal of hygiene*, 60: 41–49. [2, 3]
- Rondle, C.J.M. & Dumbell, K.R. (1982) A poxvirus antigen associated with pathogenicity for rabbits. *Journal of hygiene*, 89: 383–388. [2]
- Rondle, C.J.M. & Sayeed, K.A.R. (1972) Studies on monkeypox virus. *Bulletin of the World Health Organization*, 46: 577–583. [2]
- Rosahn, P.D. & Hu, C.-K. (1935) Rabbit pox. Report of an epidemic. *Journal of experimental medicine*, 62: 331–347. [2]
- Rose, H.C. (1871) New instrument for vaccination. *Lancet*, 1: 592–593. [7]
- Ross, A.H. (1962) Modification of chickenpox in family contacts by administration of gamma globulin. *New England journal of medicine*, 267: 369–376. [4]
- Ross, R. (1911) *The prevention of malaria*, London, John Murray. [9]
- Roux, J.M. (1970) Advantages and disadvantages of specialized and multi-purpose medical teams. In: United States National Communicable Disease Center, *op. cit.*, No. 2, pp. 208–212. [17]
- Ruben, F.L. & Lane, J.M. (1970) Ocular vaccinia. An epidemiologic analysis of 348 cases. *Archives of ophthalmology*, 84: 45–48. [7]
- Ruben, F.L., Smith, E.A., Foster, S.O., Casey, H.L., Pifer, J.M., Wallace, R.B., Atta, A.I., Jones, W.L., Arnold, R.B., Teller, B.E., Shaikh, Z.Q., Lourie, B., Eddins, D.L., Doko, S.M. & Foeye, W.H. (1973) Simultaneous administration of smallpox, measles, yellow fever, and diphtheria-pertussis-tetanus antigens to Nigerian children. *Bulletin of the World Health Organization*, 48: 175–181. [7]
- Ruffer, M.A. (1921) In: Moodie, R.L., ed. *Studies in the palaeopathology of Egypt*, Chicago, University of Chicago Press, pp. 175–176. [5]
- Ruffer, M.A. & Ferguson, A.R. (1911) Note on an eruption resembling that of variola in the skin of a mummy of the twentieth dynasty (1200–1100 BC). *Journal of pathology and bacteriology*, 15: 1–3. [5]
- Sack, P.G. & Clark, D. (ed. and transl.) (1980) *Albert Hahl. Governor in New Guinea*. Canberra, Australian National University Press. [5]
- Salles-Gomes, L.F. de, Angulo, J.J., Menezes, E. & Zamith, V.A. (1965) Clinical and subclinical variola minor in a ward outbreak. *Journal of hygiene*, 63: 49–58. [1]

- Sam, C.K. & Dumbell, K.R. (1981) Expression of poxvirus DNA in coinfecting cells and marker rescue of thermosensitive mutants by subgenomic fragments of DNA. *Annales de virologie*, **132E**: 135–150. [28]
- Sambrook, J.F., Padgett, B.L. & Tomkins, J.K.N. (1966) Conditional lethal mutants of rabbitpox virus. I. Isolation of host cell-dependent and temperature-dependent mutants. *Virology*, **28**: 592–599. [2]
- Sarkar, J.K. & Mitra, A.C. (1963) Influence of certain bacteria on the growth of variola and vaccinia viruses. *Indian journal of medical sciences*, **17**: 866–870. [2]
- Sarkar, J.K. & Mitra, A.C. (1967) Virulence of variola virus isolated from smallpox cases of varying severity. *Indian journal of medical research*, **55**: 13–20. [2]
- Sarkar, J.K. & Mitra, A.C. (1968) A search for the causes of severity in smallpox. *Journal of the Indian Medical Association*, **51**: 272–274. [2]
- Sarkar, J.K., Neogy, K.N. & Lahiri, D.C. (1959) Behaviour of variola and vaccinia viruses in mice. *Journal of the Indian Medical Association*, **32**: 279–281. [3]
- Sarkar, J.K., Chatterjee, S.N. & Mitra, A.C. (1967) Antibody response in haemorrhagic smallpox. *Indian journal of medical research*, **55**: 1143–1149. [1]
- Sarkar, J.K., Ray, S. & Mitra, A.C. (1968) Serum proteins and antibody studies in smallpox. *Indian journal of medical research*, **56**: 386–390. [1]
- Sarkar, J.K., Chatterjee, S.N., Mitra, A.C. & Mondal, A. (1969) Relation between the neutralizing and haemagglutination-inhibiting antibodies in smallpox. *Indian journal of medical research*, **57**: 8–12. [1, 3]
- Sarkar, J.K., Ray, S. & Manji, P. (1970) Epidemiological and virological studies on the off-season smallpox cases in Calcutta. *Indian journal of medical research*, **58**: 829–839. [4]
- Sarkar, J.K., Mitra, A.C. & Chakravarty, M.S. (1972) Relationship of clinical severity, antibody level, and previous vaccination state in smallpox. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **66**: 789–792. [1]
- Sarkar, J.K., Mitra, A.C., Mukherjee, M.K., De, S.K. & Guha Mazumdar, D. (1973a) Virus excretion in smallpox. 1. Excretion in the throat, urine, and conjunctiva of patients. *Bulletin of the World Health Organization*, **48**: 517–522. [1, 3, 4]
- Sarkar, J.K., Mitra, A.C., Mukherjee, M.K. & De, S.K. (1973b) Virus excretion in smallpox. 2. Excretion in the throats of household contacts. *Bulletin of the World Health Organization*, **48**: 523–527. [3, 4]
- Sarkar, J.K., Hati, A.K. & Mitra, A.C. (1973c) Role of mosquitoes in the spread of smallpox. *Journal of infectious diseases*, **128**: 781–783. [4]
- Sarkar, J.K., Mitra, A.C. & Mukherjee, M.K. (1974) Duration of virus excretion in the throat of asymptomatic household contacts of smallpox patients. *Indian journal of medical research*, **62**: 1800–1803. [3, 4]
- Sarkar, J.K., Mitra, A.C., Mukherjee, M.K., Dumbell, K.R. & Almeida, J.D. (1976) Concurrent smallpox and chickenpox. *Bulletin of the World Health Organization*, **54**: 119–120. [1]
- Sauer, R.M., Prier, J.E., Buchanan, R.S., Creamer, A.A. & Fegley, H.C. (1960) Studies on a pox disease of monkeys. I. Pathology. *American journal of veterinary research*, **21**: 377–380. [29]
- Schaller, K. & Pilaski, J. (1979) Pocken bei Breitmaulnashörnern (*Ceratotherium s. simum*) im Zoologischen Garten Münster. *Der zoologische Garten*, **49**: 169–184. [29]
- Schamberg, J.F. (1904) The passing of the red light treatment of smallpox. *Journal of the American Medical Association*, **43**: 1641–1642. [5]
- Schatzmayr, H.G. & Mesquita, J.A. (1970) Examen de especímenes para el diagnóstico de la viruela en un laboratório de Brasil. *Boletín de la Oficina Sanitaria Panamericana*, **69**: 500–504. [12]
- Schell, K. (1960a) Studies on the innate resistance of mice to infection with mousepox. I. Resistance and antibody production. *Australian journal of experimental biology and medical science*, **38**: 271–288. [3]
- Schell, K. (1960b) Studies on the innate resistance of mice to infection with mousepox. II. Route of inoculation and resistance; and some observations on the inheritance of resistance. *Australian journal of experimental biology and medical science*, **38**: 289–300. [3]
- Schell, K. (1964) On the isolation of ectromelia virus from the brains of mice from a "normal" mouse colony. *Laboratory animal care*, **14**: 506–513. [3]
- Schmidt, M. (1870) In: Schmidt, M., ed. *Die Krankheiten der Affen. Zoologische Klinik*, Vol. I, Part 1, p. 97, Berlin, Hirschwald. [30]
- Scholtens, R.G., Kaiser, R.L. & Langmuir, A.D. (1972) An epidemiologic examination of the strategy of malaria eradication. *International journal of epidemiology*, **1**: 15–24. [9]
- Schönbauer, M., Schönbauer-Langle, A. & Kölbl, S. (1982) Pockeninfektion bei einer Hauskatze. *Zentralblatt für Veterinärmedizin, Reihe B*, **29**: 434–440. [29]
- Scrimshaw, N.S., Taylor, C.E. & Gordon, J.E. (1968) *Interactions of nutrition and infection*, Geneva, World Health Organization (Monograph Series, No. 57). [3]
- Sedan, J., Ourgard, A.G. & Guillot, P. (1953) Les accidents oculaires d'origine vaccinale observés dans le département des Bouches-du-Rhône au cours de l'épidémie variolique de l'hiver 1952. *Annales d'oculistique*, **186**: 34–61. [7]
- Seelmann, K. (1960) Zerebrale Komplikationen nach Pockenschutzimpfungen mit besonderer Berücksichtigung der Alterdisposition in Hamburg 1939 bis 1958. *Deutsche medizinische Wochenschrift*, **85**: 1081–1089. [7]
- Sehgal, C.L. (1974) Studies on thermostability of lyophilized smallpox vaccines. *Journal of communicable diseases*, **6**: 230–232. [15]
- Sehgal, C.L. & Ray, S.N. (1974) Potency testing of lyophilized smallpox vaccines retrieved from the field. *Journal of communicable diseases*, **6**: 226–229. [15]
- Sehgal, C.L. & Singha, P. (1972) Rapid heat stability (boiling) versus conventional heat stability (standard) test of freeze dried smallpox vaccine. *Indian journal of medical research*, **60**: 996–1001. [11]
- Sehgal, C.L., Murty, D.K., Shrivastav, J.B. & Raghavan, N.G.S. (1969) Studies on laboratory testing of smallpox vaccines used in India under the National Smallpox Eradication Programme: potency and bacterial sterility studies. *Indian journal of medical research*, **57**: 2040–2057. [11]
- Sencer, J.D. & Axford, N.W. (1973) Cost benefit analysis. In: *International Symposium on Vaccination against Communicable Diseases, Monaco, 14–17 March, 1973; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 22, pp. 37–46. [31]
- Senecal, J., Aubry, L. & Falade, S. (1962) Infectious diseases in the child of pre-school age in Senegal. *West African medical journal*, **11**: 93–105. [17]

- Serfling, R.E. & Sherman, I.L. (1965) *Attribute sampling methods*, Washington, Government Printing Office (United States Public Health Service Bulletin No. 1230). [17]
- Serruys, H. (1980) Smallpox in Mongolia during the Ming and Ching dynasties. *Zentralasiatische Studien*, **14**: 41–63. [5]
- Sewall, S. (1949) Vaccinia osteomyelitis. Report of a case with isolation of the vaccinia virus. *Bulletin of the Hospital for Joint Diseases*, **10**: 59–63. [7]
- Seymour-Price, M., Cachia, C. & Fendall, N.R.E. (1960) Smallpox in Kenya. *East African medical journal*, **37**: 670–675. [8]
- Shackell, L.F. (1909) An improved method of desiccation, with some applications to biological problems. *American journal of physiology*, **24**: 325–340. [7]
- Sharma, M.I.D. (1980) Lessons learnt from the intensified campaign against smallpox in India and their possible applicability to other programmes, with particular reference to eradication of dracunculiasis. *Journal of communicable diseases*, **12**: 59–64. [31]
- Sharma, M.I.D. & Grasset, N.C. (1975) History of achievement of smallpox "target zero" in India. *Journal of communicable diseases*, **7**: 171–182. [15]
- Sharp, D.G. (1965) Quantitative use of the electron microscope in virus research. Methods and recent results of particle counting. *Laboratory investigation*, **14**: 831–863. [4]
- Sharp, J.C.M. & Fletcher, W.B. (1973) Experience of antivaccinia immunoglobulin in the United Kingdom. *Lancet*, **1**: 656–659. [7]
- Shelukhina, E.M., Marenikova, S.S., Maltseva, N.N., Matsevitch, G.R. & Hasmi, A.A. (1973) Results of a virological study of smallpox convalescents and contacts. *Journal of hygiene, epidemiology, microbiology and immunology*, **17**: 266–271. [1, 4]
- Shelukhina, E.M., Maltseva, N.N., Shenkman, L.S. & Marenikova, S.S. (1975) Properties of two isolates (MK-7-73 and MK-10-73) from wild monkeys. *British veterinary journal*, **131**: 746–748. [2, 3, 30]
- Shelukhina, E.M., Marenikova, S.S., Shenkman, L.S. & Frolosova, A.E. (1979a) Variola virus strains of 1960–1975: the range of intraspecies variability and relationships between properties and geographic origin. *Acta virologica*, **23**: 360–366. [2]
- Shelukhina, E.M., Shenkman, L.S., Rozina, E.E. & Marenikova, S.S. (1979b) [Possible mechanism of preservation of certain orthopoxviruses in nature]. *Voprosy virusologii*, **24**(4): 368–372 (in Russian). [3]
- [Shooter, R.A., Chairman] (1980) *Report of the investigation into the cause of the 1978 Birmingham smallpox occurrence*, London, H. M. Stationery Office. [4, 23]
- Siegert, R. & Schulz, W. (1953) Über den Beginn und die Dauer der Virämie nach Pockenschutzimpfung. *Zeitschrift für Hygiene und Infektionskrankheiten*, **137**: 81–91. [3]
- Simmons, J.S., Whayne, T.F., Anderson, G.W. & Horack, H.M. (1944–1954) *Global epidemiology. A geography of diseases and sanitation*. Vol. 1 (1944): India, the Far East and the Pacific area. Vol. 2 (1951): Africa and the adjacent islands. Vol. 3: (1954) The Near and Middle East, Philadelphia, Lippincott. [8]
- Simpson, J.Y. (1868) Proposal to stamp out small-pox etc. *Medical times and gazette*, **5–6**: 32–33. [6]
- Sissons, J.G.P. & Oldstone, M.B.A. (1980) Antibody-mediated destruction of virus-infected cells. *Advances in immunology*, **29**: 209–260. [3]
- Slonim, D. & Röslerová, V. (1969) The preservation of vaccinia virus with glycerin. *Journal of hygiene, epidemiology, microbiology and immunology*, **13**: 43–44. [11]
- Slonim, D., Malý, V. & Röslerová, V. (1967) Relation of the PFU value to the volume of inoculum in the titration of vaccinia virus on the chorioallantoic membrane of the chick embryo. *Journal of hygiene, epidemiology, microbiology and immunology*, **11**: 32–39. [11]
- Slonim, D., Stastný, F., Hulenová, M. & Brázdová, R. (1969) Certain factors influencing the quality and quantity of infective pulp obtained from calf skin inoculated with vaccinia virus. *Journal of hygiene, epidemiology, microbiology and immunology*, **13**: 402–404. [11]
- Smadel, J.E. & Hoagland C.L. (1942) Elementary bodies of vaccinia. *Bacteriological reviews*, **6**: 79–110. [2]
- Smadel, J.E., Rivers, T.M. & Hoagland, C.L. (1942) Nucleoprotein antigen of vaccine virus. I. A new antigen from elementary bodies of vaccinia. *Archives of pathology*, **34**: 275–285. [2]
- Smillie, W.G. (1922) The results of hookworm disease prophylaxis in Brazil. *American journal of hygiene*, **2**: 77–95. [9]
- Smith, E.A. & Foster, S.O. (1970a) The effect of the smallpox eradication measles control programme on measles admissions to the Lagos Infectious Diseases Hospital, Yaba, Nigeria. *West African medical journal and Nigerian practitioner*, **19**: 51–56. [17]
- Smith, E.A. & Foster, S.O. (1970b) Epidemiology of measles and measles control in Nigeria. *Bulletin of the International Epidemiological Association*, **20**: 17–28. [17]
- Smith, E.A., Foster, S.O., Adetosoye, J.I.A., Mebitaghan, I.S., Adeoye, P.O. & Pifer, J.M. (1970) The value, efficiency and limitations of collecting points in mass vaccination programmes. In: United States National Communicable Disease Center, *op. cit.*, No. 2, pp. 199–204. [17]
- Smith, E.C., Pratt, B.C. & Baxby, D. (1973) *In vitro* dissociation and reconstitution of poxvirus haemagglutinin. *Journal of general virology*, **18**: 111–118. [2]
- Smith, G.E. (1912) *The royal mummies*. Catalogue général des Antiquités égyptiennes du Musée de Caire, Nos. 61051–61100, Cairo, Imprimerie de l'Institut français d'Archéologie orientale. [5]
- Smith, G.L., Mackett, M. & Moss, B. (1983) Infectious vaccinia virus recombinants that express hepatitis B virus surface antigen. *Nature*, **302**: 490–495. [2]
- Smith, M.M. (1974) The "Real Expedición Marítima de la Vacuna" in New Spain and Guatemala. *Transactions of the American Philosophical Society*, new series, **64**, part 1. [5, 6]
- Smith, T. (1934) *Parasitism and disease*, Princeton, Princeton University Press. [9]
- Soberneheim (1929) Variola und Alastrim. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **110**: 97–115. [8]
- Soekawa, M. (1984) Contributions of Shibusaburo Kitasato to the improvement of smallpox vaccine in Japan. *Journal of the Japanese Society of Medical History*, **29**: 348–352. [8]
- Soloski, M.J. & Holowczak, J.A. (1981) Characterization of supercoiled nucleoprotein complexes released from detergent-treated vaccinia virions. *Journal of virology*, **37**: 770–783. [2]
- Sommer, A. (1974) The 1972 smallpox outbreak in Khulna Municipality, Bangladesh. II. Effectiveness of surveillance and containment in urban epidemic control. *American journal of epidemiology*, **99**: 303–313. [16]

- Sommer, A. & Foster, S.O. (1974) The 1972 smallpox outbreak in Khulna municipality, Bangladesh. I. Methodology and epidemiologic findings. *American journal of epidemiology*, **99**: 291-302. [4, 16]
- Sommer, A., Arnt, N., & Foster, S.O. (1973) Post-civil war in Bangladesh: the smallpox epidemic. In: Chen, L.C., ed. *Disaster in Bangladesh*, New York, Oxford University Press, pp. 225-240. [16]
- Soper, F.L. (1935) Fiebre amarilla rural, fiebre amarilla de la selva, como problema nuevo de sanidad en Colombia. *Revista de higiene*, **4**: 49-84. [30]
- Soper, F.L. (1936) Jungle yellow fever; new epidemiological entity in South America. *Revista de higiene e saúde pública*, **10**: 107-144. [9, 24, 30]
- Soper, F.L. (1951) International health. 3. Some aspects of the WHO's programs in the Americas. *American journal of public health*, **41**: 1464-1468. [12]
- Soper, F.L. (1960) The epidemiology of a disappearing disease: malaria. *American journal of tropical medicine and hygiene*, **9**: 357-366. [9]
- Soper, F.L. (1962) Problems to be solved if the eradication of tuberculosis is to be realized. *American journal of public health*, **52**: 734-745. [9]
- Soper, F.L. (1965) Rehabilitation of the eradication concept in prevention of communicable diseases. *Public health reports*, **80**: 855-869. [9]
- Soper, F.L. (1966) Smallpox—world changes and implications for eradication. *American journal of public health*, **56**: 1652-1656. [7]
- Soper, F.L. & Wilson, D.B. (1943) *Anopheles gambiae in Brazil 1930 to 1940*, New York, Rockefeller Foundation. [9, 24]
- Soper, F.L., Penna, H.A., Cardoso, E., Serafim, J., Jr, Frobisher, M., Jr & Pinheiro, J. (1933) Yellow fever without *Aedes aegypti*. Study of a rural epidemic in the Valle do Chanaan, Espírito Santo, Brazil, 1932. *American journal of hygiene*, **18**: 555-587. [9]
- Soper, F.L., Rickard, E.R. & Crawford, P.J. (1934) The routine post-mortem removal of liver tissue from rapidly fatal fever cases for the discovery of silent yellow fever foci. *American journal of hygiene*, **19**: 549-566. [9]
- Soper, F.L., Knipe, F.W., Casini, G., Riehl, L.A. & Rubino, A. (1947) Reduction of anopheline density effected by the pre-season spraying of building interiors with DDT in kerosene, at Castel Volturno, Italy, in 1944-1945 and in the Tiber Delta in 1945. *American journal of tropical medicine*, **27**: 177-200. [9]
- Southwood, T.R.E., May, R.M., Hassell, M.P. & Conway, G.R. (1974) Ecological strategies and population parameters. *American naturalist*, **108**: 791-804. [2]
- Sow, O. (1970) Role of migrant groups in the transmission of smallpox in Mali. In: United States National Communicable Disease Center, *op. cit.*, No. 1, pp. 55-56. [17]
- Sparkes, J.D. & Fenje, P. (1972) The effect of residual moisture in lyophilized smallpox vaccine on its stability at different temperatures. *Bulletin of the World Health Organization*, **46**: 729-734. [11]
- Spence, J.D. (1974) *Emperor of China. Self-portrait of K'ang-hsi*, New York, Knopf. [5]
- Spillane, J.D. & Wells, C.E. (1964) The neurology of Jennerian vaccination. A clinical account of the neurological complications which occurred during the smallpox epidemic in South Wales in 1962. *Brain*, **87**: 1-44. [7]
- Spring, B.F. (1975) Special programme of smallpox searches conducted among the floating population of Calcutta, April to July, 1975. *Journal of communicable diseases*, **7**: 214-217. [15]
- Srivastava, G.P. & Agarwala, R.S. (1975) Intensive campaign against smallpox in Uttar Pradesh. *Journal of communicable diseases*, **7**: 188-194. [15]
- Stalleybrass, C.O. (1931) *The principles of epidemiology and the process of infection*, London, Routledge. [4]
- Stearn, E.W. & Stearn, A.E. (1945) *The effect of smallpox on the destiny of the Amerindian*, Boston, Humphries. [3, 4, 5]
- Steffensen, J. (1977) Smallpox in Iceland. *Nordisk medicinhistorisk årsbok* 1976: 41-56. [5]
- Stern, W. & Dales, S. (1976) Biogenesis of vaccinia: isolation and characterization of a surface component that elicits antibody suppressing infectivity and cell-cell fusion. *Virology*, **75**: 232-241. [2]
- Stetten, D., Jr (1980) Eradication. *Science*, **210**: 1203. [9]
- Stickl, H., Hochstein-Mintzel, V., Mayr, A., Huber, H.Ch., Schäfer, H. & Holzner, A. (1974) MVA-Stufenimpfung gegen Pocken. *Deutsche medizinische Wochenschrift*, **99**: 2386-2392. [11]
- Stojkovic, L., Birtasevic, B., Borjanovic, S., Litvinjenko, S., Perisic, Z. & Suvakovic, V., ed. (1974) *Variola u Jugoslaviji 1972 godine*, Ljubljana, CCP Delo. [1, 4, 23]
- Stone, J.D. (1946) Inactivation of vaccinia and ectromelia haemagglutinins by lecithinase. *Australian journal of experimental biology and medical science*, **24**: 191-196. [2]
- Stowman, K. (1945) Smallpox at bay and at large. *UNRR-A epidemiological bulletin*, **1**: 371-376. [8]
- Strode, G.K., ed. (1951) *Yellow fever*, New York, McGraw-Hill. [9]
- Ström, J. & Zetterberg, B., ed. (1966) Smallpox outbreak and vaccination problems in Stockholm, Sweden, 1963. *Acta medica Scandinavica, supplementum*, **464**: 1-171. [7, 8, 23]
- Stuart, G. (1947) Memorandum on post-vaccinal encephalitis. *Bulletin of the World Health Organization*, **1**: 36-53. [7]
- Stuart-Harris, C., Westerp, K.A. & Chamberlayne, E.C. (1982) Can infectious diseases be eradicated? *Reviews of infectious diseases*, **4**: 913-984. [31]
- Sturt, R.J., Muller, H.K. & Francis, G.D. (1971) Molluscum contagiosum in villages of the West Sepik district of New Guinea. *Medical journal of Australia*, **2**: 751-754. [29]
- Suda, K. & Soekawa, M. (1983) Smallpox mortality in a mountainous district in Japan where neither variolation or vaccination had been performed. *Journal of the Japanese Society of Medical History*, **29**: 83-94. [5]
- Sukumaran, P.K., Master, H.R., Undevia, J.F., Balakrishnan, V. & Sanghvi, L.D. (1966) ABO blood groups in active cases of smallpox. *Indian journal of medical sciences*, **20**: 119-122. [3]
- Suzart de Carvalho Filho, E., Morris, L., Lavigne de Lemos, A., Ponce de Leon, J., Escobar, A. & Silva, O.J. da (1970) Smallpox eradication in Brazil, 1967-69. *Bulletin of the World Health Organization*, **43**: 797-808. [1, 4, 12]
- Suzuki, S., Fuwa, A., Fujii, R. & Kurimoto, U. (1955) Individuals of domestic fowls in the hemagglutination of vaccinia virus. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. I. Abt. Orig.*, **162**: 405-407. [2]
- Swanepoel, R. & Cruickshank, J.G. (1972) Smallpox in Rhodesia and the use of the electron microscope in the diagnosis of this and other diseases. *Central African journal of medicine*, **18**: 68-73. [20]

- Swinhoe, P.H. (1970) An outbreak of smallpox in the Trucial Oman States. *Journal of the Royal Army Medical Corps*, **116**: 24–33. [23]
- Symmers, W. St. C. (1978) The lymphoreticular system. In: Symmers, W. St. C., ed. *Systemic pathology*, 2nd ed., Edinburgh, Churchill Livingstone, Vol. 2, pp. 644–645. [3]
- Tagaya, I., Kitamura, T. & Sano, Y. (1961) A new mutant of dermovaccinia virus. *Nature*, **192**: 381–382. [11]
- Tagaya, I., Amano, H., Kitamura, T., Komatsu, T., Heda, Y., Tanaka, Y., Uchida, N. & Kodama, H. (1973) Properties of an attenuated mutant of vaccinia virus, strain DIs. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 299–307. [11]
- Takahashi, M., Kameyama, S., Kato, S. & Kamahora, H. (1959) The immunological relationship of the poxvirus group. *Biken's journal*, **2**: 27–29. [2]
- Tandy, E.C. (1923) Local quarantine and inoculation for smallpox in the American colonies (1620–1775). *American journal of public health*, **13**: 203–207. [6]
- Tanganyika Territory (1920) Annual Reports of the Principal Medical Officer and the Senior Sanitary Officer. Period, November 1918 to November 1920, pp. 67–68. [7]
- Tao, C.S. (1935) A study of smallpox prevalence and inoculation data in some districts of Kiangsu Province. In: *Transactions of the Ninth Congress of the Far Eastern Association of Tropical Medicine, Nanking, October 2–8, 1934*, Nanking, National Health Administration, Vol. 2, pp. 499–501. [6]
- Tarantola, D.J.M., Huq, F., Nakano, J.H. & Foster, S.O. (1981) Immunofluorescence staining for detection of variola virus. *Journal of clinical microbiology*, **13**: 723–725. [2, 16]
- Teclemariam, A. (1965) A localized outbreak of classical smallpox in Kembata Awraja. *Ethiopian medical journal*, **3**: 134–136. [8, 22]
- Tekeste, Y., Hailu, A., Amaral, C. do, Arbani, P.R., Ismail, O., Khodakevich, L.N. & Ward, N.A. (Wickett, J. & Meiklejohn, G., ed.) [1984] *Smallpox eradication in Ethiopia*, Brazzaville, WHO Regional Office for Africa. [10, 21, 27, 28]
- Terweil, B.J. (1987) Asiatic cholera in Siam: its first occurrence and the 1820 epidemic. In: Owen, N.G., ed. *Disease and death in southeast Asia*, Singapore, Oxford University Press for the Asian Studies Association of Australia, pp. 142–161. [5]
- Thomas, D.B., McCormack, W.M., Arita, I., Khan, M.M., Islam, M.S. & Mack, T.M. (1971a) Endemic smallpox in rural East Pakistan. I. Methodology, clinical and epidemiologic characteristics of cases, and intervillage transmission. *American journal of epidemiology*, **93**: 361–372. [4, 16, 17]
- Thomas, D.B., Arita, I., McCormack, W.M., Khan, M.M., Islam, M.S. & Mack, T.M. (1971b) Endemic smallpox in rural East Pakistan. II. Intravillage transmission and infectiousness. *American journal of epidemiology*, **93**: 373–383. [4, 16, 17]
- Thomas, D.B., Mack, T.M., Ali, A. & Khan, M.M. (1972) Epidemiology of smallpox in West Pakistan. III. Outbreak detection and interlocality transmission. *American journal of epidemiology*, **95**: 178–189. [4, 14, 15, 17]
- Thomas, E.K., Palmer, E.L., Obijeski, J.F. & Nakano, J.H. (1975) Further characterization of raccoonpox virus. *Archives of virology*, **49**: 217–227. [2]
- Thomas, G. (1970a) Sampling rabbit pox aerosols of natural origin. *Journal of hygiene*, **68**: 511–517. [4]
- Thomas, G. (1970b) An adhesive surface sampling technique for airborne viruses. *Journal of hygiene*, **68**: 273–282. [4]
- Thomas, G. (1974) Air sampling of smallpox virus. *Journal of hygiene*, **73**: 1–8. [4]
- Thursfield, H. (1940) Smallpox in the American war of independence. *Annals of medical history*, third series, **2**: 312–318. [5]
- Tigre, C.H.F., Martínez, A.V. & Fischmann, A. (1973) Hemorrhagic smallpox caused by alastrim virus: report on a case in Rio Grande do Sul, Brazil. *Bulletin of the Pan American Health Organization*, **7**: 26–28. [1]
- Tint, H. (1973) The rationale for elective pre-vaccination with attenuated vaccinia (CV1-78) in preventing some vaccination complications. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series in Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 281–292. [11]
- Töndury, G. & Foukas, M. (1964) Die Gefährdung des menschlichen Keimlings durch Pockenimpfung in Gravidität. *Pathologia et microbiologia*, **27**: 602–623. [7]
- Tongeren, H.A.E. van (1952) Spontaneous mutation of cowpox-virus by means of eggpassage. *Archiv für die gesamte Virusforschung*, **5**: 35–52. [2]
- Top, F.H. (1968) *Communicable and infectious diseases*, 6th ed., St Louis, Mosley, pp. 465–473. [17]
- Topciu, Vl., Roșiu, N., Csaky, N. & Argan, P. (1972) Isolements accidentels de virus ectoméliques latents chez des souris blanches de laboratoire, à l'occasion d'études sur les arboviruses. *Archives roumaines de pathologie expérimentale et de microbiologie*, **31**: 75–80. [3]
- Topciu, Vl., Luca, I., Moldovan, E., Stoianovici, V., Plavosin, L., Milin, D. & Welter, E. (1976) Transmission of vaccinia virus from vaccinated milkers to cattle. *Revue roumaine de médecine. Virologie*, **27**: 279–282. [2, 29]
- Torres, C.M. (1936) Further studies on the pathology of alastrim and their significance in the variola-alastrim problem. *Proceedings of the Royal Society of Medicine*, **29**: 1525–1540. [3]
- Torres, C.M. & Teixeira, J. de C. (1935) Culture du virus de l'alastrim sur les membranes de l'embryon de poulet. *Comptes rendus des séances de la Société de Biologie*, **118**: 1023–1024. [2]
- Tripathy, D.N., Hanson, L.E. & Crandell, R.A. (1981) Poxviruses of veterinary importance: diagnosis of infections. In: Kurstak, E. & Kurstak, C., ed. *Comparative diagnosis of viral diseases. Vertebrate animal and related viruses. Part A, DNA viruses*, New York, Academic Press, Vol. III, pp. 267–346. [29]
- Tsuchiya, Y. & Tagaya, I. (1970) Plaque assay of variola virus in a cynomolgus monkey kidney cell line. *Archiv für die gesamte Virusforschung*, **32**: 73–81. [2]
- Tsutsui, K. (1983) Release of vaccinia virus from FL cells infected with the IHD-W strain. *Journal of electron microscopy*, **32**: 125–140. [2]
- Tucker, C.J., Townshend, J.R.G. & Goff, T.E. (1985) African land-cover classification using satellite data. *Science*, **227**: 369–375. [17]
- Tulloch, J.L. (1980) The last 50 years of smallpox in Africa. *WHO chronicle*, **34**: 407–412. [4, 8]
- Turnbull, H.M. & McIntosh, J. (1926) Encephalomyelitis following vaccination. *British journal of experimental pathology*, **7**: 181–222. [3]

- Turner, A. & Baxby, D. (1979) Structural polypeptides of *Orthopoxvirus*: their distribution in various members and location within the virion. *Journal of general virology*, **45**: 537–545. [2]
- Turner, G.S. & Kaplan, C. (1968) Photoinactivation of vaccinia virus with rose bengal. *Journal of general virology*, **3**: 433–443. [2]
- Turner, G.S. & Squires, E.J. (1971) Inactivated smallpox vaccine: immunogenicity of inactivated intracellular and extracellular vaccinia virus. *Journal of general virology*, **13**: 19–25. [3]
- Turner, G.S., Squires, E.J. & Murray, H.G.S. (1970) Inactivated smallpox vaccine. A comparison of inactivation methods. *Journal of hygiene*, **68**: 197–210. [2, 3, 11]
- Uchida, M. (1955) [*Atlas of the acute infectious diseases. Vol. 2. Smallpox*], Tokyo, Kanehara Shuppan (in Japanese). [1]
- Ueda, S., Toyoshima, K. & Kurose, T. (1969) Observation of booster infections of measles in mothers of children with measles. *Biken's journal*, **12**: 127–128. [1]
- Ueda, Y., Tagaya, I., Amano, H. & Ito, M. (1972) Studies on the early antigens induced by vaccinia virus. *Virology*, **49**: 794–800. [2, 3]
- United Nations (1961) Estimates of midyear population 1920–1960. In: *Demographic yearbook 1960*, New York. [8]
- United Nations (1970) *Chemical and bacteriological (biological) weapons and the effects of their possible use*, New York, Ballantine (United Nations Report No. E.69.I.24). [30]
- United Nations (1984) *Convention on the prohibition of the development, production and stockpiling of bacteriological (biological) and toxin weapons and on their destruction* [date of signature: 10 April 1972; date of entry into force: 26 March 1975], New York (Status of Multilateral Arms Regulation and Disarmament Agreements). [30]
- United Nations (1985) *Population prospects: estimates and projections as assessed in 1982*, New York (Population Studies No. 86). [9]
- United Nations Relief and Rehabilitation Administration, Health Division (1945) *International Sanitary Convention, 1926, as amended by International Sanitary Convention, 1944*, Washington. [7]
- United States Agency for International Development (1983) *AID malaria strategy workshop*, Washington. [9]
- United States Communicable Disease Center (1966) *Manual of operations for the West and Central African smallpox eradication/measles control program*, Atlanta. [17]
- United States National Communicable Disease Center (1970) *The SEP report. Seminar on smallpox eradication and measles control in western and central Africa. Proceedings of a meeting held in Lagos, Nigeria, May 13–20, 1969*, Atlanta, Vol. 4, Nos. 1 and 2. [17]
- Urner, J.A. (1927) Vaccination of pregnant women and newborn infants. *American journal of obstetrics and gynecology*, **13**: 70–76. [10]
- Usher, G.S. (1960) The feasibility of smallpox eradication. *Public health reports*, **75**: 37–43. [16]
- Valle, L.A.R. do, Melo, P.R. de, Salles Gomes, L.F. de & Proença, L.M. (1965) Methisazone in prevention of variola minor among contacts. *Lancet*, **2**: 976–978. [1]
- van den Berg, C.A. (1946) L'encéphalite post-vaccinale aux Pays-Bas. *Bulletin de l'Office international d'Hygiène publique*, **38**: 847–848. [7]
- van Rooyen, C.E. & Rhodes, A.J. (1948) *Virus diseases of man*, New York, Nelson. [2, 7]
- Vasil'ev, K.G. & Vasil'ev, K.K. (1982) [History of the elimination of smallpox from USSR]. *Voprosy virusologii*, **27**: 113–116 (in Russian). [8, 9]
- Vaughan, V.C. (1923) Smallpox before and after Edward Jenner. *Hysgeia*, **1**: 205–211. [8]
- Verlinde, J.D. (1951) Koepokken bij de mens. *Tijdschrift voor diergeneeskunde*, **76**: 334–342. [3, 29]
- Verlinde, J.D. & Tongeren, H.A.E. van (1952) Isolation of smallpox virus from the nasopharynx of patients with variola sine eruptione. *Antonie van Leeuwenhoek*. *Journal of microbiology and serology*, **18**: 109–112. [1]
- Vichniakov, V.E. (1968) A study of immunity to smallpox in persons who have experienced a previous attack. *Bulletin of the World Health Organization*, **39**: 433–437. [1]
- Vittachi, V.T. (1985) CSDR: the dialectics of survival and development. *Assignment children*, **69/72**: 19–31. [31]
- Voegeli, C.F. (1973) Production and use of smallpox egg vaccine. In: *International Symposium on Smallpox Vaccine, Bilthoven, the Netherlands, 11–13 October 1972; Symposia Series on Immunobiological Standardization*, Basel, Karger, Vol. 19, pp. 69–76. [11]
- Vogel, F. & Chakravarti, M.R. (1966) ABO blood groups and smallpox in a rural population of West Bengal and Bihar (India). *Humangenetik*, **3**: 166–180. [3]
- Vries, E. de (1960) *Postvaccinal perivenous encephalitis*, Amsterdam, Elsevier. [3, 7]
- Vries, R.R.P. de, Kreeftenberg, H.G., Loggen, H.G. & Rood, J.J. van (1977) In vitro responsiveness to vaccinia virus and HLA. *New England journal of medicine*, **297**: 692–696. [3]
- Waddington, E., Bray, P.T., Evans, A.D. & Richards, I.D.G. (1964) Cutaneous complications of mass vaccination in South Wales 1962. *Transactions of the St. John's Hospital Dermatological Society*, **50**: 22–42. [7]
- Waddy, B.B. (1956) Organization and work of the Gold Coast medical field units. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **50**: 313–336. [17]
- Wade, N. (1980) Another smallpox scare. *Science*, **208**: 579. [10]
- Wallace, G.D., Buller, R.M.L. & Morse, H.C., III (1985) Genetic determinants of resistance to ectromelia (mousepox) virus-induced mortality. *Journal of virology*, **55**: 890–891. [3]
- Warren, A.J. (1951) Landmarks in the conquest of yellow fever. In: Strode, G.K., ed. *Yellow fever*, New York, McGraw-Hill, pp. 5–37. [30]
- Weber, G. & Lange, J. (1961) Zur Variationsbreite der "Inkubationszeiten" postvakzinaler zerebraler Erkrankungen. *Deutsche medizinische Wochenschrift*, **86**: 1461–1468. [7]
- Webster, I.M. (1959) The response of leprosy patients to small-pox vaccine. *West African medical journal*, **8**: 322–324. [7]
- Wedum, A.G., Barkley, A.E. & Hellman, A. (1972) Handling of infectious agents. *Journal of the American Veterinary Medical Association*, **161**: 1557–1567. [30]
- Weekly epidemiological record*, 1962, **37**: 417. [23]
- Weekly epidemiological record*, 1968a, **43**: 388–389. [12]
- Weekly epidemiological record*, 1968b, **43**: 468–472. [12]
- Weekly epidemiological record*, 1968c, **43**: 599–604. [12]
- Weekly epidemiological record*, 1969a, **44**: 265–270. [13]
- Weekly epidemiological record*, 1969b, **44**: 497–502. [18]
- Weekly epidemiological record*, 1969c, **44**: 527–529. [13]
- Weekly epidemiological record*, 1969d, **44**: 613–619. [12]
- Weekly epidemiological record*, 1970a, **45**: 177–185. [13]

- Weekly epidemiological record*, 1970b, **45**: 279–282. [16, 17]
- Weekly epidemiological record*, 1970c, **45**: 485–489. [12]
- Weekly epidemiological record*, 1970d, **45**: 520–523. [13]
- Weekly epidemiological record*, 1971a, **46**: 486–490. [12]
- Weekly epidemiological record*, 1971b, **46**: 521–526. [15]
- Weekly epidemiological record*, 1973a, **48**: 161. [23]
- Weekly epidemiological record*, 1973b, **48**: 264–266. [15]
- Weekly epidemiological record*, 1974, **49**: 45. [23]
- Weekly epidemiological record*, 1986a, **61**: 198–202. [31]
- Weekly epidemiological record*, 1986b, **61**: 289–293. [28]
- Wehrle, P.F., Posch, J., Richter, K.H. & Henderson, D.A. (1970) An airborne outbreak of smallpox in a German hospital and its significance with respect to other recent outbreaks in Europe. *Bulletin of the World Health Organization*, **43**: 669–679. [4, 11]
- Weinstein, I. (1947) An outbreak of smallpox in New York City. *American journal of public health*, **37**: 1376–1384. [8, 9]
- Werner, G.T., Jentsch, U., Metzger, E. & Simon, J. (1980) Studies on poxvirus infection in irradiated animals. *Archives of virology*, **64**: 247–256. [11]
- Westergaard, H. (1932) *Contribution to the history of statistics*, London, King. [6]
- Westwood, J.C.N., Boulter, E.A., Bowen, E.T.W. & Maber, H.B. (1966) Experimental respiratory infection with pox viruses. 1: clinical, virological and epidemiological studies. *British journal of experimental pathology*, **47**: 453–465. [3, 4]
- Wheeler, D.L. (1964) A note on smallpox in Angola, 1670–1875. *Studia*, **13/14**: 351–362. [5]
- Wheelock, E.F. (1964) Interferon in dermal crusts of human vaccinia virus vaccinations. Possible explanation of relative benignity of variolation smallpox. *Proceedings of the Society for Experimental Biology and Medicine*, **117**: 650–653. [3]
- White, D.O. & Fenner, F. (1986) *Medical virology*, 3rd ed., Orlando, Academic Press. [2]
- White, E. (1978) Chickenpox in Kerala. *Indian journal of public health*, **22**, 141–151. [1, 15, 25]
- WHO Expert Committee on Biological Standardization (1967) Nineteenth report. *WHO technical report series*, No. 361. [7]
- WHO Expert Committee on Malaria (1957) Sixth report. *WHO technical report series*, No. 123. [9]
- WHO Expert Committee on Malaria (1961) Eighth report. *WHO technical report series*, No. 205. [24]
- WHO Expert Committee on Malaria (1967) Thirteenth report. *WHO technical report series*, No. 357. [9]
- WHO Expert Committee on Smallpox (1964) First report. *WHO technical report series*, No. 283. [7, 9, 10, 11, 15, 24, 31]
- WHO Expert Committee on Smallpox Eradication (1972) Second report. *WHO technical report series*, No. 493. [1, 11, 24, 30]
- WHO Expert Committee on Tuberculosis (1964) Eighth report. *WHO technical report series*, No. 290. [18]
- WHO Expert Committee on Venereal Infections and Treponematoses (1960) Fifth report. *WHO technical report series*, No. 190. [9]
- WHO Expert Group on Requirements for Biological Substances (1966) Manufacturing establishments and control laboratories—Poliomyelitis vaccine (inactivated)—Poliomyelitis vaccine (oral)—Smallpox vaccine. Report. *WHO technical report series*, No. 323. [7, 11]
- WHO Scientific Group on Smallpox Eradication (1968) Report. *WHO technical report series*, No. 393. [1, 2, 11, 24, 30]
- WHO Study Group on Requirements for Smallpox Vaccine (1959) Requirements for biological substances. 5. Requirements for smallpox vaccine. Report. *WHO technical report series*, No. 180. [7, 11]
- Wilson, G.S. (1967) *The hazards of immunization*, London, Athlone. [3, 7]
- Winter, P.A., Mason, J.H., Kuhr, E., Schaafsma, A.W., Robinson, M., Saayman, L.R. & Spence, R.G. (1963) Combined immunization against poliomyelitis, diphtheria, whooping cough, tetanus and smallpox. *South African medical journal*, **37**: 513–515. [7]
- Wise, T.A. (1867) *Review of the history of medicine*, London, Churchill, Vol. II, p. 108. [5]
- Wittek, R. & Moss, B. (1980) Tandem repeats within the inverted terminal repetition of vaccinia virus DNA. *Cell*, **21**: 277–284. [2]
- Wittek, R., Menna, A., Schümperli, D., Stoffel, S., Müller, H.K. & Wyler, R. (1977) HindIII and SstI restriction sites mapped on rabbit poxvirus and vaccinia virus DNA. *Journal of virology*, **23**: 669–678. [2]
- Wittek, R., Müller, H.K., Menna, A. & Wyler, R. (1978) Length heterogeneity in the DNA of vaccinia virus is eliminated on cloning the virus. *FEBS letters*, **90**: 41–46. [2]
- Wittek, R., Barbosa, B., Cooper, J.A., Garon, C.F., Chan, H. & Moss, B. (1980) The inverted terminal repetition in vaccinia virus DNA encodes early mRNAs. *Nature*, **285**: 21–25. [2]
- Wkly epidem. rec. See *Weekly epidemiological record*.
- Wokatsch, R. (1972) Vaccinia virus. In: Majer, M. & Plotkin, S.A., ed. *Strains of human viruses*, Basel, Karger, pp. 241–257. [2, 11]
- Wolff, H.L. & Croon, J.J.A.B. (1968) The survival of smallpox virus (*variola minor*) in natural circumstances. *Bulletin of the World Health Organization*, **38**: 492–493. [2, 10, 30]
- Woodroffe, G.M. (1960) The heat inactivation of vaccinia virus. *Virology*, **10**: 379–382. [2]
- Woodroffe, G.M. & Fenner, F. (1960) Genetic studies with mammalian poxviruses. IV. Hybridization between several different poxviruses. *Virology*, **12**: 272–282. [2]
- Woodroffe, G.M. & Fenner, F. (1962) Serological relationships within the poxvirus group: an antigen common to all members of the group. *Virology*, **16**: 334–341. [2]
- Woodville, W. (1796) *The history of the inoculation of the small-pox in Great Britain*, London, Phillips. [6]
- Woodville, W. (1799) *Reports of a series of inoculations for the variolae vaccine or cowpox*, London, Phillips. [6]
- Woodville, W. (1800) *Observations on the cowpox*, London, Phillips. [6]
- Woodward, S.B. & Feemster, R.F. (1933) The relation of smallpox morbidity to vaccination laws. *New England journal of medicine*, **208**: 317–318. [8]
- World Health Organization (1951a) Special committee on draft international sanitary regulations. *Official records of the World Health Organization*, No. 35, pp. 367–370. [7]
- World Health Organization (1951b) International Sanitary Regulations (WHO Regulations No. 2). *WHO technical report series*, No. 41. [7]
- World Health Organization (1953) Proposals for world-wide campaigns: smallpox. *Official records of the World Health Organization*, No. 48, pp. 211–215, 220–221. [9]

- World Health Organization (1956) Third Report of the Committee on International Quarantine. *Official records of the World Health Organization*, No. 72, pp. 48–49. [7]
- World Health Organization (1957) Review of work during 1956: annual report of the Director-General. *Official records of the World Health Organization*, No. 79, pp. 182–256. [9]
- World Health Organization (1958a) Eradication of smallpox. *Official records of the World Health Organization*, No. 87, Annex 19, pp. 508–512. [9]
- World Health Organization (1958b) Gifts of smallpox vaccines. *Minutes of the twenty-second session of the Executive Board*, pp. 27–30. [9]
- World Health Organization (1959a) Smallpox eradication. *Minutes of the twenty-third session of the Executive Board*, pp. 472–487 [9]
- World Health Organization (1959b) Smallpox eradication. Report by the Director-General. *Official records of the World Health Organization*, No. 95, Annex 18, pp. 572–588. [9, 10]
- World Health Organization (1961) Smallpox eradication programme. *Official records of the World Health Organization*, No. 111, pp. 280–287. [9]
- World Health Organization (1962) Smallpox eradication programme. *Official records of the World Health Organization*, No. 119, pp. 299–308. [9]
- World Health Organization (1963a) Financial report, 1 January–31 December, 1962. *Official records of the World Health Organization*, No. 126. [9]
- World Health Organization (1963b) Smallpox eradication programme. Report by the Director-General. *Official Records of the World Health Organization*, No. 127, Annex 16, pp. 195–210. [9]
- World Health Organization (1963c) Smallpox eradication programme. *Official records of the World Health Organization*, No. 128, pp. 304–314. [9]
- World Health Organization (1964a) Financial report, 1 January–31 December, 1963. *Official records of the World Health Organization*, No. 134. [9]
- World Health Organization (1964b) Smallpox eradication programme. *Official records of the World Health Organization*, No. 136, pp. 346–359, 373–374. [9]
- World Health Organization (1965a) Financial report, 1 January–31 December, 1964. *Official records of the World Health Organization*, No. 142. [9]
- World Health Organization (1965b) Smallpox eradication programme. Report by the Director-General. *Official records of the World Health Organization*, No. 143, Annex 19, pp. 161–175. [9, 14, 17]
- World Health Organization (1965c) Report on the smallpox eradication programme. *Official records of the World Health Organization*, No. 144, pp. 309–320. [9]
- World Health Organization (1965d) Proposed regular programme and budget estimates for the financial year 1 January–31 December 1967. *Official records of the World Health Organization*, No. 146, p. 12. [9]
- World Health Organization (1966a) Special account for smallpox eradication. *Official records of the World Health Organization*, No. 149, pp. 75–79. [9]
- World Health Organization (1966b) Smallpox eradication programme. Report by the Director-General. *Official records of the World Health Organization*, No. 151, Annex 15, pp. 106–121. [9, 10, 31]
- World Health Organization (1966c) Smallpox eradication programme. *Official records of the World Health Organization*, No. 152, pp. 258–264, 288–296. [10, 15]
- World Health Organization (1968a) The work of WHO, 1967. Annual report of the Director-General. *Official records of the World Health Organization*, No. 164, p. 54. [10]
- World Health Organization (1968b) Financial report, 1 January–31 December, 1967. *Official records of the World Health Organization*, No. 167. [9, 10]
- World Health Organization (1969a) *Guide to the laboratory diagnosis of smallpox for smallpox eradication programmes*, Geneva. [1, 2, 3, 30]
- World Health Organization (1969b) Re-examination of the global strategy of malaria eradication. *Official records of the World Health Organization*, No. 176, Annex 13, pp. 106–126. [9]
- World Health Organization (1970) *Health aspects of chemical and biological weapons. Report of a WHO group of consultants*, Geneva, pp. 69–70. [30]
- World Health Organization (1973a) *WHO handbook of resolutions and decisions, Volume I, 1948–1972*, Geneva [9, 10]
- World Health Organization (1973b) Smallpox eradication. *Official records of the World Health Organization*, No. 210, pp. 282–294. [15, 27]
- World Health Organization (1980) *The global eradication of smallpox. Final report of the Global Commission for the Certification of Smallpox Eradication*, Geneva (History of International Public Health, No. 4). [4, 10, 12, 24, 27, 28, 30, 31]
- World Health Organization (1983) *Laboratory biosafety manual*, Geneva. [30]
- World Health Organization (1987) *WHO handbook of resolutions and decisions, Volume III, 1985–1986*, Geneva [9, 31]
- Wulff, H., Chin, T.D.Y. & Wenner, H.A. (1969) Serologic responses of children after primary vaccination and revaccination against smallpox. *American journal of epidemiology*, 90: 312–318. [3]
- Wurtz, M.R. & Camus, M.L. (1919) Le vaccin sec. Technique de sa préparation. *Bulletin de l'Académie de Médecine*, 82: 12–16. [7]
- Xu, H. & Jiang, Y.T. (1981) The eradication of smallpox in Shanghai, China, October 1950–July 1951. *Bulletin of the World Health Organization*, 59: 913–917. [8, 27]
- Yamane, S. (1921) [Therapeutic applications of roentgen irradiation for dermatitis chronica verrucosa]. *[Army veterinarian bulletin]*, 142: 241–268 (in Japanese). [6].
- Yekpe, M. (1970) The surveillance system and methods used to improve reporting. II. Dahomey. In: United States National Communicable Disease Center, *op. cit.*, No. 2, pp. 60–62. [17]
- Yekutiel, P. (1981) Lessons from the big eradication campaigns. *World health forum*, 2: 465–481. [9, 31]
- Young, S. & Lenarcic, A. (1984) Army conducted germ warfare tests in Washington's National Airport. *Freedom*, December 1984, pp. 1–3. [30]
- Zetterberg, B., Ringertz, O., Svedmyr, A., Wallmark, G. & Alin, K. (1966) Epidemiology of smallpox in Stockholm 1963. *Acta medica Scandinavica, supplementum*, 464: 9–42. [8]
- Zhdanov, V.M. & Timakov, V.D. (1952) [Ways of elimination of some communicable diseases in the USSR.] *Vestnik Akademii Meditsinskich Nauk S.S.R.*, 3: 41–50 (in Russian). [9]

- Zikmund, V., Das, N., Krishnayengar, R., Kameswara Rao, B. (1978) Contribution to the problem of challenge vaccination. *Indian journal of public health*, 22: 102-106. [1, 3]
- Zinkernagel, R.M. (1979) Cellular immune response to viruses and the biological role of polymorphic major transplantation antigens. In: Fraenkel-Conrat, H. & Wagner, R.R., ed. *Comprehensive virology*, New York, Plenum Press, Vol. 15, pp. 171-204. [3]
- Zinkernagel, R.M. & Althage, A. (1977) Antiviral protection by virus-immune cytotoxic T cells: infect-
- ed target cells are lysed before infectious virus progeny are assembled. *Journal of experimental medicine*, 145: 644-651. [3]
- Zinsser, H. (1935) *Rats, lice and history*, Boston, Atlantic Monthly Press, p. 124. [5]
- Zuelzer, W. (1874) Zur Aetiologie der Variola. *Centralblatt für die medizinischen Wissenschaften*, 12: 82-83. [2, 3, 30]
- Zwart, P., Gispert, R. & Peters, J.C. (1971) Cowpox in *Okapi johnstoni* at Rotterdam Zoo. *British veterinary journal*, 127: 20-24. [29]

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- SME/80.4 Places visited and persons examined in preparation for and during visits by International Commissions for the Certification of Smallpox Eradication (Smallpox Eradication unit, WHO Headquarters, Geneva)
- SME/80.5 Lassa fever update (J.B. McCormick)
- SME/80.6 A system of surveillance for monkeypox and haemorrhagic fever (J.B. McCormick)

- SME/80.7 An estimation of past smallpox incidence in South-western Somalia (B. Kriz)
- SME/80.8 Biosafety procedures (V.R. Oviatt)
- SME/80.9 World smallpox situation, 1967-1977 (Smallpox Eradication unit, WHO Headquarters, Geneva)
- SME/80.11 Surveillance of Ebola/Marburg fevers (D.I.H. Simpson)