

Supplementary Material

Peter Orlebar Bishop 1917–2012

Jack D. Pettigrew^A and Bogdan Dreher^{B,C}

^AQueensland Brain Institute, University of Queensland, Brisbane, Qld 4072, Australia.

^BSchool of Medical Sciences and Bosch Institute, University of Sydney, NSW 2006, Australia.

^CCorresponding author. Email: bogdan.dreher@bosch.org.au



Lord Howe Island group September 1983

1 Jon Kaas, 2 Don Mitchell, 3 Guy Orban, 4 Heinz Wässle, 5 Horace Barlow, 6 Jack Pettigrew, 7 Jonathan Stone,
 8 David Rapaport, 9 Bogdan Dreher, 10 Rick van Sluyters, 11 Eva Henry, 12 Ross Day, 13 Lindsay Aitkin, 14
 Jean Bullier, 15 Geoff Henry, 16 Bill Levick, 17 Austin Hughes, 18 Paul Wilson, 19 Phillipa Baird (née Bishop),
 20 Peter Bishop, 21 Peter Spear, 22 Jim McLeod, 23 Tetsuro Ogawa, 24 Gurli Hughes, 25 Doug Baird,
 26 Michael Arbib, 27 Bob Rodieck, 28 Trish Levick, 29 Ken & Aaron Sanderson, 30 Hilare Bishop, 31 Liam
 Burke, 32 Janus Kulikowski, 33 Jim Lance,
 34 Larry & Megan Thibos, 35 Elspeth Thibos, 36 Ann Sefton, 37 Klaus-Peter Hoffmann, 39 Sheila & Ben
 Crewther, 41 Janet & David Sanderson, 42 Mollie Sanderson, 44 Rosalyn Weller, 45 Esther Peterhans.

Note that people labelled by numbers 38, 40, 43 and 46 are not identified.

Bibliography

1. Bishop, P. O. 1939 The nature of consciousness. *Sydney Univ. Med. J.* **32**, 61–74.
2. Bishop, P. O. 1940 ‘What is Truth?’ said Pontius Pilate, *Sydney Univ. Med. J.* **33**, 12–16.
3. Bishop, P. O. & Harris, E. J. 1947 Electroencephalograph amplifier. *Wireless Engineer*, **24**, 375.
4. Harris, E.J. & Bishop, P. O. 1948 Low-frequency noise from thermionic valves working under amplifying conditions. *Nature*, **161**, 971.
5. Bishop, P. O. 1949 A note on interstage coupling for D.C. amplifiers. *Electron. Eng.* **21**, 61.
6. Harris, E.J. & Bishop, P. O. 1949 The design and limitations of D.C. amplifiers. Part I. *Electron. Eng.* **21**, 332–335.
7. Harris, E. J. & Bishop, P. O. 1949 The design and limitations of D.C. amplifiers. Part II. *Electron. Eng.* **21**, 355–359.
8. Bishop, P. O. 1949 A high impedance input stage for a valve amplifier. *Electron. Eng.* **21**, 469–470.
9. Bishop, P. O. & Harris, E. J. 1950 A D.C. amplifier for biological application. *Rev. Sci. Instr.* **21**, 366–377.
10. Bishop, P. O. & Collin, R. 1951 Steel microelectrodes. *J. Physiol., (Lond.)* **112**, 8–10 P.
11. Bishop, P. O., Brown, G. L. & Kearney, A. 1951 A modified Czermak head-holder. *J. Physiol. (Lond.)*, **114**, 19–20 P.
12. Bishop, P. O. 1953 Synaptic transmission. An analysis of the electrical activity of the lateral geniculate nucleus in the cat after optic nerve stimulation. *Proc. R. Soc. B*, **141**, 362–392.

13. Bishop, P. O., Jeremy, D. & McLeod, J. G. 1953 Phenomenon of repetitive firing in lateral geniculate of cat. *J. Neurophysiol.* **16**, 437–447.
14. Bishop, P. I., Jeremy, D. & McLeod, J. G. 1953 Repetitive post-synaptic discharge in a sensory nucleus. *Nature*, **171**, 844–845.
15. Bishop, P. O., Jeremy, D. & Lance, J. W. 1953 Properties of pyramidal tract. *J. Neurophysiol.* **16**, 537–550.
16. Bishop, P. O., Jeremy, D. & Lance, J. W. 1953 The optic nerve. Properties of a central tract. *J. Physiol. (Lond.)*, **121**, 415–432.
17. Bishop, P.O. & Davis, R. 1953 Bilateral interaction in the lateral geniculate body. *Science*, **118**, 241–243.
18. Bishop, P.O. & McLeod, J. G. 1954 Nature of potentials associated with synaptic transmission in lateral geniculate of cat. *J. Neurophysiol.* **17**, 387–414.
19. Bishop, P.O. 1955 Synaptic and neuromuscular transmission. *Bull. Post-grad. Comm. Med. Univ. Sydney*, **10**, 263–278.
20. Bishop, P. O. 1955 The future of physiology and its relation to medicine. *Sydney Univ. Med. J.* **45**, 14–19.
21. Bishop, P.O. & Levick, W.R. 1956 Saltatory conduction in single isolated and non-isolated myelinated nerve fibres. *J. Cell Comp. Physiol.* **48**, 1–34.
22. Bishop, P. O. & Evans, W. A. 1956 The refractory period of the sensory synapses of the lateral geniculate nucleus. *J. Physiol. (Lond.)*, **134**, 538–557.
23. Bishop, P. O., Field, G., Hennessy, B. L. & Smith, J. R. 1958 Action of d-lysergic acid diethylamide on lateral geniculate synapses. *J. Neurophysiol.* **21**, 529–549.
24. Bishop, P. O., Burke, W. & Davis, R. 1958 Synapse discharge by single fibre in mammalian visual system. *Nature*, **182**, 728–730.

25. Bishop, P. O., Burke, W., Davis, R. & Hayhow, W. R. 1958 Binocular interaction in the lateral geniculate nucleus – a general review. *Trans. Ophthal. Soc. Aust.* **18**, 15–35.
26. Bishop, P. O., Burke, W. & Davis, R. 1959 Activation of single lateral geniculate cells by stimulation of either optic nerve. *Science*, **130**, 506–507.
27. Bishop, P. O., Burke, W. & Hayhow, W.R. 1959 Repetitive stimulation of optic nerve and lateral geniculate synapses. *Exp. Neurol.* **1**, 534–555.
28. Bishop, P., Burke, W. & Hayhow, W. R. 1959 Lysergic acid diethylamide block of lateral geniculate synapses and relief by repetitive stimulation. *Exp. Neurol.* **1**, 556–568.
29. Bishop, P. O. 1959 Neurophysiological problems. Au niveau des voies et des centres. In Mechanisms of Colour Discrimination – Proceedings of International Symposium on Fundamental Mechanisms of Chromatic Discrimination in Animals and Man. London: Pergamon Press.
30. Bishop, P. O. & Davis, R. 1960 The recovery of responsiveness of the sensory synapses in the lateral geniculate nucleus. *J. Physiol. (Lond.)*, **150**, 214–238.
31. Bishop, P. O. & Davis, R. 1960 Synaptic potentials, after-potentials and slow rhythms of lateral geniculate neurones. *J. Physiol. (Lond.)*, **154**, 514–546.
32. Bishop, P. O., Burke, W., Davis, R. & Hayhow, W. R. 1960 Drugs as tools in visual physiology with particular reference to (a) the effects of prolonged disuse, and (b) the origin of the electroencephalogram. *Trans. Ophthal. Soc. Aust.* **20**, 50–65.
33. Levick, W. R., Bishop, P. O., Williams, W. O. & Lampard, D. G. 1961 Probability distribution analyser programmed for neurophysiological research. *Nature*, **192**, 629–630.

34. Bishop, P. O., Burke, W. & Davis, R. 1962 The identification of single units in central visual pathways. *J. Physiol. (Lond.)*, **162**, 409–431.
35. Bishop, P. O., Burke, W. & Davis, R. 1962 Single-unit recording from antidromically activated optic radiation neurones. *J. Physiol. (Lond.)*, **162**, 432–450.
36. Bishop, P. O., Burke, W. & Davis, R. 1962 The interpretation of the extracellular response of single lateral geniculate cells. *J. Physiol. (Lond.)*, **162**, 451–472.
37. Bishop, P. O., Kozak, W., Levick, W. R. & Vakkur, G. J. 1962 The determination of the projection of the visual field onto the lateral geniculate nucleus in the cat. *J. Physiol. (Lond.)*, **163**, 503–539.
38. Bishop, P. O., Kozak, W. & Vakkur, G. J. 1962 Some quantitative aspects of the cat's eye: axis and plane of reference, visual field co-ordinates and optics. *J. Physiol. (Lond.)*, **163**, 466–502.
39. Vakkur, G. J., Bishop, P. O. & Kozak, W. 1963 Visual optics in the cat, including posterior nodal distance and retinal landmarks. *Vision Res.* **3**, 289–314.
40. Vakkur, G. J. & Bishop, P. O. 1963 The schematic eye in the cat. *Vision Res.* **3**, 357–381.
41. Bishop, P. O. 1964 Properties of afferent synapses and sensory neurons in the lateral geniculate nucleus. *Int. Rev. Neurobiol.* **6**, 191–255.
42. Bishop, P. O., Levick, W. R. & Williams, W. O. 1964 Statistical analysis of the dark discharge of lateral geniculate neurones. *J. Physiol. (Lond.)*, **170**, 598–612.
43. Bishop, P. O. 1965 The neurophysiological basis of form vision. *Trans. Asia-Pacif. Acad. Ophthal.*, **2**, 198–210.
44. Kozak, W., Rodieck, R. W. & Bishop, P. O. 1965 Response of single units in lateral geniculate nucleus of cat to moving visual patterns. *J. Neurophysiol.* **28**, 19–47.

45. Bishop, P. O. 1965 The nature of the representation of the visual fields in the lateral geniculate nucleus. *Proc. Aust. Assoc. Neurolog.* **3**, 15–25.
46. Taub, A. & Bishop, P. O. 1965 The spinocervical tract: dorsal column linkage, conduction velocity, primary afferent spectrum. *Exp. Neurol.* **13**, 1–21.
47. Bishop, P. O. & Rodieck, R. W. 1965 Discharge patterns of cat retinal ganglion cells. In Information Processing in Sight Sensory Systems, (ed. P. W. Nye), pp. 116–127. Pasadena, California: California Institute of Technology.
48. Ogawa, T., Bishop, P. O. & Levick, W. R. 1966 Temporal characteristics of responses to photic stimulation by single ganglion cells in the unopened eye of the cat. *J. Neurophysiol.* **29**, 1–30.
49. Bishop, P. O. 1967 Central nervous system: afferent mechanisms and perception. *Ann. Rev. Physiol.* **29**, 427–484.
50. Rodieck, R. W., Pettigrew, J. D., Bishop, P. O. & Nikara, T. 1967 Residual eye movement in receptive field studies of paralyzed cats. *Vision Res.* **7**, 107–110.
51. Pettigrew, J. D., Nikara, T. & Bishop, P. O. 1968 Neural mechanisms concerned in the development of amblyopia ex anopsia. *Proc. Aust. Ass. Neurol.* **5**, 221–224.
52. Nikara, T., Bishop, P. O. & Pettigrew, J. D. 1968 Analysis of retinal correspondence by studying receptive fields of binocular single units in-cat striate cortex. *Exp. Brain Res.* **6**, 353–372.
53. Pettigrew, J. D., Nikara, T. & Bishop, P. O. 1968 Responses to moving slits by single units in cat striate cortex. *Exp. Brain Res.* **6**, 373–390.
54. Pettigrew, J. D., Nikara, T. & Bishop, P. O. 1968 Binocular interaction on single units in cat striate cortex: simultaneous stimulation by single moving slit with receptive fields in correspondence. *Exp. Brain Res.* **6**, 391–410.

55. Sanderson, K. J., Darian-Smith, I. & Bishop, P. O. 1969 Binocular corresponding receptive fields of single units in the cat dorsal lateral geniculate nucleus. *Vision Res.* **9**, 1297–1303.
56. Henry, G. H., Bishop, P. O. & Coombs, J. S. 1969 Inhibitory and sub-liminal excitatory receptive fields of simple units in cat striate cortex. *Vision Res.* **9**, 1289–1296.
57. Kinston, W. J., Vadas, M. A. & Bishop, P. O. 1969 Multiple projection of the visual field to the medial portion of the dorsal lateral geniculate nucleus and the adjacent nuclei of the thalamus of the cat. *J. Comp. Neurol.* **136**, 295–316.
58. Bishop, P. O. 1970 Beginning of form vision and binocular depth discrimination in cortex. In *The Neurosciences: Second Study Program*, (ed. F. O. Schmitt,) pp. 471–485. New York: Rockefeller University Press.
59. Joshua, D. E. & Bishop, P. O. 1970 Binocular single vision and depth discrimination. Receptive field disparities for central and peripheral vision and binocular interaction on peripheral single units in cat striate cortex. *Exp. Brain Res.* **10**, 389–416.
60. Bishop, P. O. 1970 Seeing with two eyes. *Aust. J. Sci.* **32**, 383–391.
61. Bishop, P. O. & Henry, G. H. 1971 Spatial vision. *Ann. Rev. Physiol.* **22**, 119–160.
62. Bishop, P. O., Henry, G. H. & Smith, C. J. 1971 Binocular interaction fields of single units in the cat striate cortex. *J. Physiol. (Lond.)*, **216**, 39–68.
63. Henry, G. H. & Bishop, P. O. 1971 Simple cells of the striate cortex. In *Contributions to Sensory Physiology*, vol. 5, (ed. W. D. Neff), pp. 1–46. New York: Academic Press.

64. Bishop, P. O., Coombs, J. S. & Henry, G. H. 1971 Responses to visual contours: spatio-temporal aspects of excitation in the receptive fields of simple striate neurones. *J. Physiol. (Lond.)*, **219**, 625–657.
65. Bishop, P. O., Coombs, J. S. & Henry, G. H. 1971 Interaction effects of visual contours on the discharge frequency of simple striate neurones. *J. Physiol. (Lond.)*, **219**, 659–687.
66. Bishop, P. O., Dreher, B. & Henry, G. H. 1971 Stimulus specificities of the discharge centre in the receptive field of simple striate neurones in the cat. *J. Physiol. (Lond.)*, **218**, 53–55P.
67. Sanderson, K. J., Bishop, P. O. & Darian-Smith, I. 1971 The Properties of the binocular receptive fields of lateral geniculate neurones. *Exp. Brain Res.* **13**, 178–207.
68. Henry, G. H., Bishop, P. O. & Coombs, J. S. 1971 The beginning of form recognition at the level of the simple striate neuron. From: Proceedings of the Workshops of the 9th International Conference on Medical and Biological Engineering, Melbourne, 1971; Workshop No. 7. In *Information Processing in the Visual Pathway*, pp. 5–9. Canadian Medical & Biological Engineering Society.
69. Bishop, P. O. & Henry, G. H. 1972 Striate neurons: receptive field concepts. *Invest. Ophthal.* **11**, 346–354.
70. Henry, G. H. & Bishop, P. O. 1972 Striate neurons: receptive field organization. *Invest. Ophthal.* **11**, 357–368.
71. Bishop, P. O., Dreher, B. & Henry, G. H. 1972 Simple striate cells: comparison of responses to stationary and moving stimuli. *J. Physiol. (Lond.)*, **227**, 15–17P.

72. Bishop, P. O. 1973 Neurophysiology of binocular single vision and stereopsis. In Handbook of Sensory Physiology, vol. vii/3A, (ed. R. Jung), pp. 255–305. Berlin: Springer-Verlag.
73. Bishop, P. O., Coombs, J. S. & Henry, G. H. 1973 Receptive fields of simple cells in the cat striate cortex. *J. Physiol. (Lond.)*, **231**, 31–60.
74. Henry, G. H., Bishop, P. O., Tupper, R. M. & Dreher, B. 1973 Orientation specificity and responses variability of cells in the striate cortex. *Vision Res.* **13**, 1771–1779.
75. Bishop, P. O. 1974 Stereopsis and fusion. *Trans. Ophthal. Soc. N.Z.* **26**, 17–27.
76. Bishop, P. O., Goodwin, A. W. & Henry, G. H. 1974 Direction selective sub-regions in striate simple cell receptive fields. *J. Physiol. (Lond.)*, **238**, 25–27P.
77. Bishop, P. O. 1974 Grafton Elliot Smith's contribution to visual neurology and the influence of Thomas Henry Huxley. In Grafton Elliot Smith: The Man and his Work, (ed. A. P. Elkin & M. W. G. Macintosh), pp. 50–57. Sydney: Sydney University Press.
78. Henry, G. H., Bishop, P. O. & Dreher, B. 1974 Orientation, axis and direction as stimulus parameters for striate cells. *Vision Res.* **14**, 767–777.
79. Henry, G. H., Dreher, B. & Bishop, P. O. 1974 Orientation specificity of cells in the cat striate cortex. *J. Neurophysiol.* **37**, 1394–1409.
80. Bishop, P. O. 1975 Binocular vision. In Adler's Physiology of the Eye: Clinical Application, 6th edn, (ed. R. A. Moses), pp. 558–614. St Louis: C. V. Mosby.
81. Bishop, P. O. 1975 Visual disability and vision research. *Aust. J. Optom.* **58**, 202–209.
82. Goodwin, A. W., Henry, G. H. & Bishop, P. O. 1975 Direction selectivity of simple striate cells: properties and mechanism. *J. Neurophysiol.* **38**, 1500–1523.

83. Goodwin, A. W., Henry, G. H. & Bishop, P. O. 1975 Inhibitory mechanism for direction selectivity in simple cells in striate cortex. *Proc. Aust. Physiol. Pharmacol. Soc.* **6**, 205–206.
84. Bishop, P. O., Kato, H. & Nelson, J. I. 1976 Position and orientation disparities as depth cues for striate neurons. *J. Physiol. (Lond.)*, **263**, 168–169P.
85. Nelson, J. I., Kato, H. & Bishop, P. O. 1977 The discrimination of orientation and position disparities by binocularly-activated neurons in cat striate cortex. *J. Neurophysiol.* **40**, 260–284.
86. Bishop, P. O. 1977 Receptive field concepts. In Spatial Contrast, (ed. L. H. van der Tweel & H. Spekreijse), pp. 19–23. Amsterdam: Royal Netherlands Academy of Arts and Science.
87. Henry, G. H., Goodwin, A. W. & Bishop, P. O. 1978 Spatial summation of responses in receptive fields of single cells in cat striate cortex. *Exp. Brain Res.* **32**, 245–266.
88. Bishop, P. O. (1978) Orientation and position disparities in stereopsis. In Frontiers in Visual Sciences, (ed. S. J. Cool & E. L. Smith, III), pp. 336–350. New York: Springer-Verlag.
89. Orban, G. A., Kato, H. & Bishop, P. O. 1978 Properties of striate hypercomplex cells in the cat. *Arch. Int. Physiol. Biochem.* **86**, 1157–1158.
90. Kato, H., Bishop, P. O. & Orban, G. A. 1978 Hypercomplex and simple/complex cell classification in cat striate cortex. *J. Neurophysiol.* **41**, 1071–1095.
91. Kulikowski, J. J., Bishop, P. O. & Kato, H. 1979 Sustained and transient responses by cat striate cells to stationary flashing light and dark bars. *Brain Res.* **170**, 362–367.

92. Orban, G. A., Kato, H. & Bishop, P. O. 1979 End-zone region in receptive fields of hypercomplex and other striate neurons in the cat. *J. Neurophysiol.* **42**, 818–832.
93. Orban, G. A., Kato, H. & Bishop, P. O. 1979 Dimensions and properties of end-zone inhibitory areas in receptive fields of hypercomplex cells in cat striate cortex. *J. Neurophysiol.* **42**, 833–849.
94. Bishop, P. O. 1979 Stereopsis and the random element in the organization of the striate cortex. *Proc. R. Soc. Lond. B*, **204**, 415–434.
95. Bishop, P. O., Kato, H. & Orban, G. A. 1980 Direction selective cells in the complex family in cat striate cortex. *J. Neurophysiol.* **43**, 1266–1283.
96. Bishop, P. O. 1981 Binocular vision. In Adler's Physiology of the Eye: Clinical Application, 7th edn, (ed. R. A. Moses), pp. 575–649. St Louis: C. V. Mosby.
97. Kato, H., Bishop, P. O. & Orban, G. A. 1981 Binocular interaction on monocularly discharged lateral geniculate and striate neurons in the cat. *J. Neurophysiol.* **46**, 932–951.
98. Bishop, P. O. 1981 Neural mechanisms for binocular depth discrimination. In Advances in Physiological Sciences, vol. 16, Sensory Functions, (ed. E. Grastyan & P. Molnar), pp. 441–449. Oxford: Pergamon Press.
99. Kulikowski, J. J. & Bishop, P. O. 1981 Fourier analysis and spatial representation in the visual cortex. *Experientia*, **37**, 160–163.
100. Kulikowski, J. J., Bishop, P. O. & Kato, H. 1981 Spatial arrangements of responses by cells in the cat visual cortex to light and dark bars and edges. *Exp. Brain Res.* **44**, 371–385.
101. Kulikowski, J. J. & Bishop, P. O. 1981 Linear analysis of the responses of simple cells in the cat visual cortex. *Exp. Brain Res.* **44**, 386–400.

102. Kulikowski, J. J. & Bishop, P. O. 1982 Silent periodic cells in the cat striate cortex. *Vision Res.*, **22**, 191–200.
103. Kulikowski, J. J., Marcelja, S. & Bishop, P. O. 1982 Theory of spatial position and spatial frequency relations in the receptive fields of simple cells in the visual cortex. *Biol. Cybern.* **43**, 187–198.
104. Yamane, S., Maske, R. & Bishop, P. O. 1982 New observation on direction selectivities of simple cells in cat striate cortex.] *Bull. Electrotech. Lab.* **46**, 336–342.
(In Japanese)
105. Bishop, P. O. 1983 Physiology in Sydney in the 1950's. *Proc. Aust. Physiol. Pharmac. Soc.* **14**, 48–57.
106. Bishop, P. O. 1983 Vision with two eyes. *Nihon Sierigakukai Zasshi (J. Physiol. Soc. Japan)*, **45**, 1–18.
107. Maske, R., Yamane, S. & Bishop, P. O. 1983 Simple striate cells: binocular receptive field properties for local stereopsis. *Neurosci. Lett. NELED, Suppl.* **11**, 517.
108. Bishop, P. O. 1984 Processing of visual information within the retinostriate system. In *Handbook of Physiology, Section I: The Nervous System*, vol. 3, Sensory Processes, part 1, (ed. I. Darian-Smith), pp. 341–424. Bethesda, MD: American Physiological Society.
109. Bishop, P. O. 1984 The striate cortex: feature detector or Fourier analyzer. *Proc. Aust. Physiol. Pharmac. Soc.* **15**(1), 1–20.
110. Bishop, P. O. & Everitt, A. V. 1984 The Medical Sciences: Physiology. In *Centenary Book of the University of Sydney Faculty of Medicine*, (ed. J. A. Young *et al.*) pp. 238–265. Sydney: University of Sydney Press.

111. Bishop, P. O. 1984 *Terra Australis Incognita*: the emergence of physiology in Australia. In Frontiers of Physiological Research, (ed. D. G. Garlick & P. I. Korner). Canberra: Australian Academy of Science.
112. Maske, R., Yamane, S. & Bishop, P. O. 1984 Binocular simple cells for local stereopsis: comparison of receptive field organizations for the two eyes. *Vision Res.* **24**, 1921–1929.
113. Peterhans, E., Bishop, P. O. & Camarda, R. M. 1985 Direction selectivity of simple cells in cat striate cortex to moving light bars. I. Relation to stationary flashing bar and moving edge responses. *Exp. Brain Res.* **51**, 512–522.
114. Yamane, S., Maske, R. & Bishop, P. O. 1985 Direction selectivity of simple cells in cat striate cortex to moving light bars, II. Relation to moving dark bar responses. *Exp. Brain Res.* **57**, 523–536.
115. Maske, R., Yamane, S. & Bishop, P. O. 1985 Simple and B-cells in cat striate cortex. Complementarity of responses to moving light and dark bars. *J. Neurophysiol.* **53**, 670–685.
116. Camarda, R. M., Peterhans, E. & Bishop, P. O. 1985 Spatial organization of subregions in receptive fields of simple cells in cat striate cortex as revealed by stationary flashing bars and moving edges. *Exp. Brain Res.* **60**, 136–150.
117. Camarda, R. M., Peterhans, E. & Bishop, P. O. 1985 Simple cells in cat striate cortex: responses to stationary flashing and to moving light bars. *Exp. Brain Res.* **60**, 151–158.
118. Yamane, S., Maske, R. & Bishop, P. O. 1985 Properties of end-zone inhibition of hypercomplex cells in cat striate cortex. *Exp. Brain Res.* **60**, 200–203.
119. Bishop, P. O. 1986. Binocular vision. In: Adler's Physiology of the Eye: Clinical Application, 8th edn, (ed. R. A. Moses) pp. 619–689. St. Louis: C. V. Mosby.

120. Bishop, P. O. & Pettigrew, J. D. 1986 Neural mechanisms of binocular vision. *Vision Res.*, **26**, 1587–1600.
121. Maske, R., Yamane, S. & Bishop, P. O. 1986a Stereoscopic mechanisms: binocular responses of cat striate cells to moving light and dark bars. *Proc. R. Soc. Lond. B.* **229**, 227–256.
122. Maske, R., Yamane, S. & Bishop, P. O. 1986b End-stopped cells and binocular depth discrimination in striate cortex of cats. *Proc. R. Soc. Lond. B.* **229**, 257–276.
123. Wright, M. J., Campbell, F. W. & Bishop, P. O. 1988 Optical diffraction limits and contrast sensitivity as determinants of stereo and separation acuities. *Perception*, **17**(3), 370.
124. Bishop, P. O. 1989 Vertical disparity, egocentric distance and stereoscopic depth constancy – a new interpretation. *Proc. R. Soc. Lond. B.* **237**, 445–469.
125. Bishop, P. O. 1994 Size constancy, depth constancy and vertical disparities – a further quantitative interpretation. *Biol. Cyber.* **71**(1), 34–47.
126. Bishop, P. O. 1996a Can random-dot stereograms serve as a model for the perception of depth in relation to real three-dimensional objects?. *Vision Res.* **36**(10), 1473–1477.
127. Bishop, P. O. 1996b Stereoscopic depth perception and vertical disparity: Neural mechanisms. *Vision Res.* **36**(13), 1969–1972.