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MOST SIGNIFICANT PUBLICATIONS (2000—)

Huijben, S., Bell, A.S., Sim, D.G., Salathe, R., Tomasello, D., Mideo, N., Day, T. & **Read, A.F.** (in press). Aggressive chemotherapy and the selection of drug resistant pathogens. *PLoS Pathogens*.

Barclay, V.C., Sim, D., Chan, B.H.K., Nell, L.A., Rabaa, M.A., Bell, A.S., Anders, R.F. & **Read, A.F.** (2012). The evolutionary consequences of blood-stage vaccination on the rodent malaria *Plasmodium chabaudi*. *PLoS Biology* 10: e1001368.

Read, A.F., Day, T. & Huijben, S. (2011). The evolution of drug resistance and the curious orthodoxy of aggressive chemotherapy. *Proceedings of the National Academy of Science USA* 108: 10871-10877.

Read, A.F., Lynch, P.A. & Thomas, M.B. (2009). How to build an evolution-proof insecticide for malaria control. *PLoS Biology* 7: e1000058.

Read, A.F. & Mackinnon, M.J. (2008). Pathogen evolution in a vaccinated world. In: Stearns, S.C. & Koella, J. *Evolution in Health and Disease* 2nd ed. pp139-152. Oxford University Press.

Wargo, A. R., Huijben, S., de Roode, J.C., Shepard, J. & **Read, A.F.** (2007). Competitive release and facilitation of drug resistant parasites following therapeutic chemotherapy in a rodent malaria model. *Proceedings of the National Academy of Science USA* 104: 19914-19919.

Råberg, L., Sim, D. & **Read, A.F.** (2007). Disentangling genetic variation for resistance and tolerance to infectious diseases in animals. *Science* 318: 812-814.

de Roode, R.C., Pansini, R., Cheesman, S.J., Helinski, M.E.H., Huijben, S., Wargo, A.R., Bell, A.S., Chan, B.H.K., Walliker, D. & **Read, A.F.** (2005). Virulence and competitive ability in genetically diverse malaria infections. *Proceedings of the National Academy of Science USA* 102: 7624-7628.

Blanford, S., Chan, B.H.K., Jenkins, N., Sim, D., Turner, R.J., **Read, A.F.** & Thomas, M.B. (2005) Fungal pathogen reduces potential for malaria transmission. *Science* 308: 1638-1641.

Mackinnon, M.J. & **Read, A.F.** (2004). Immunity promotes virulence evolution in a malaria model. *PLoS Biology* 2: e230.

Gandon, S., Mackinnon, M. J., Nee, S. & **Read, A.F.** (2001). Imperfect vaccines and the evolution of pathogen virulence. *Nature* 414: 751-756.

PEER-REVIEWED PUBLICATIONS

Submitted (MS available on request)

Kerr, P.J., Rogers, M.B., Fitch, A., DePasse, J.V., Hudson, P.J., Tscharke, D.C., **Read, A.F**., Holmes, E.C. & Ghedin, E. (submitted). Genome scale evolution of myxoma virus (MYXV) reveals host-pathogen adaptation and rapid geographic spread.

Santhanam, J., Råberg, L., **Read, A.F.** & Savill, N.J. (submitted). Immune-mediated competition in rodent malaria is most likely caused by induced changes in innate immune clearance of merozoites.

Fairlie-Clark, K.J., Langhone, J., Anders, R., Allen, J.R., **Read, A.F**. & Graham, A.L. (submitted). Quantifying variation in the potential for antibody mediated competition among nine genotypes of the rodent malaria parasite *Plasmodium chabaudi*.

De Moraes, C.M., Stanczyk, N.M., Betz, H., Sims, D., **Read, A.F**. & Mescher, M.C. (submitted). Malaria-induced changes in host odors: implications for vector transmission and diagnoses.

Pollitt, L.C., Huijben, S., Sim, D.G., Salathe, R.M., Jones, M. & **Read, A.F.** (submitted). Rapid response to selection, competitive release and increased transmission potential of artesunate-selected *Plasmodium chabaudi* malaria parasites.

Cator, L.C., Lynch, P.A., Thomas, M.B. & **Read, A.F.** (submitted). Alterations in mosquito behaviour by malaria parasites: potential impact on force of infection.

In press

173. Barclay, V.C., Kennedy, D., Weaver, V.C., Sim, D., Lloyd-Smith, J.O. & **Read, A.F.** (in press). The effect of immunodeficiency on the evolution of virulence: an experimental test with the rodent malaria *Plasmodium chabaudi*. *American Naturalist.*

172. Beck-Johnson, L.M., Nelson, W.A., Paaijmans, K.P., **Read, A.F.**, Thomas, M.B., Bjørnstad, O. (in press). The effect of temperature on *Anopheles* mosquito population dynamics and on the potential for malaria transmission. *PLoS One*

171. Greischer, M.A., **Read, A.F.** & Bjørnstad, O.N. (in press). Synchrony in malaria infections: how intensifying within-host competition can be adaptive. *American Naturalist.*

170. Huijben, S., Bell, A.S., Sim, D.G., Salathe, R., Tomasello, D., Mideo, N., Day, T. & **Read, A.F.** (in press). Aggressive chemotherapy and the selection of drug resistant pathogens. *PLoS Pathogens*.

2013

169. **Read, A.F.** (2013). Science in general education. *Journal of General Education* 62: 28-36.

168. Mideo, N., Kennedy, D.A., Carlton, J.M., Bailey, J.A., Juliano, J.J. & **Read, A.F.** (2013). Ahead of the curve: next generation estimators of drug resistance in malaria infections. *Trends in Parasitology* 29: 321-328.

167. Cator, L.J., George, J., Blanford, S., Murdock, C.C., Baker, T.C., Read, A.F. & Thomas, M.B. (2013). 'Manipulation' without the parasite: altered feeding behaviour of mosquitoes is not dependent on infection with malaria parasites. *Proceedings of the Royal Society of London Series B* 280: 20130711. http://dx.doi.org/10.1098/rspb.2013.0711

166. Baigent, S.J., Kgosana, L., Gamawa, A.A., Smith, L.P., **Read, A.F**. & Nair, V.K. (2013). Relationship between levels of very virulent MDV in poultry dust and in feather tips from vaccinated chickens. *Avian Diseases* 57: 440-447.

165. Cator, C.J., Thomas, S., Paaijmans, K.P., Ravishankaran, S., Justin, J.A., Mathai, M.T., **Read, A.F**., Thomas, M.B. & Eapen, A. Characterizing microclimate in urban malaria transmission settings: a case study from Chennai, India. *Malaria Journal* 12: 84. doi:10.1186/1475-2875-12-84

2012

164. Cator, L., Lynch, P.A., **Read, A.F.** & Thomas, M.B. (2012). Do malaria parasites manipulate mosquitoes? *Trends in Parasitology* 28: 466-470.

163. Lynch, P.A., Grimm, U. Thomas, M.B. & **Read, A.F.** (2012). Prospective malaria control using entomopathogenic fungi: comparative evaluation of impact on transmission and selection for resistance. *Malaria Journal* 11: 383. doi:10.1186/1475-2875-11-383.

162. Blanford, S., Jenkins, N.E., Christian, R., Chan, B.H.K., Luisa, N., Michael, O., Koekemoer, L., Coetzee, M., **Read, A.F**. & Thomas, M.B. (2012). Storage and persistence of a candidate fungal biopesticide for use against adult malaria vectors. *Malaria Journal* 11: 354. doi:10.1186/1475-2875-11-354

161. Blanford, S., Jenkins, N.E., **Read, A.F**. & Thomas, M.B. (2012). Evaluating the lethal and pre-lethal effect of a range of fungi against adult mosquitoes. *Malaria Journal* 11: 365. doi:10.1186/1475-2875-11-365.

160. Murdock, C.M., Paaijmans, K.P., **Read, A.F.** & Thomas, M.B. (2012). Rethinking vector immunology: the role of environmental temperature in shaping resistance. *Nature Microbiology Reviews* 10: 869-876.

159. Atkins, K.E., **Read, A.F**., Savill, N.J., Renz, K.G., Fakhrul Islam, A.F.M., Walkden-Brown, S.W. & Woolhouse, M.E. (2012). Vaccination and reduced cohort duration can drive virulence evolution: Marek's disease virus and intensified agriculture. *Evolution* 67: 851-860.

158. Schneider, P., Bell, A.S., Sim, D.G., O'Donnell, A.J., Blanford, S., Paaijmans, K.P., **Read, A.F. &** Reece, S.E. (2012). Virulence affects drug sensitivity and transmission success in the rodent malaria, *Plasmodium chabaudi*. *Proceedings of the Royal Society of London Series B* 279: 4677-4685.

157. Kerr, P.J., Ghedin, E., DePasse, J.V., Fitch, A., Cattadori, I.M., Hudson, P.J., Tscharke, D.C., **Read, A.F**. & Holmes, E.C. (2012). Evolutionary history and attenuation of myxoma virus on two continents. *PLoS Pathogens* 8: e1002950. doi:10.1371/journal.ppat.1002950.

156. Barclay, V.C., Sim, D., Chan, B.H.K., Nell, L.A., Rabaa, M.A., Bell, A.S., Anders, R.F. & **Read, A.F.** (2012). The evolutionary consequences of blood-stage vaccination on the rodent malaria *Plasmodium chabaudi*. *PLoS Biology* 10: e1001368. doi:10.1371/journal.pbio.1001368

155. Bell, A.S, Huijben, S., Paaijmans, K.P, Sim, D., Chan, B.H.K., Nelson, W.A. & **Read A.F.** (2012). Enhanced transmission of drug-resistance parasites to mosquitoes following drug treatment in rodent malaria. *PLoS One* 7: e37172. doi:10.1371/journal.pone.0037172

154. Murdock, C.C., Paaijmans, K.P., Bell, A.S., King, J., Hillyer, J.F., **Read, A.F.** & Thomas, M.B. (2012). Complex effects of temperature on mosquito immune function. *Proceedings of the Royal Society of London Series B* 279: 3357-3366.

153. Das, A., Anvikar, A.R., Cator, L.J., Dhiman, R.C., Eapen, A., Mishra, N., Nagpal, B.N., Nanda, N., Raghavendra, K., **Read, A.F**., Sharma, S.K., Singh, O.P., Singh, V., Sinnis, P., Srivastav, H.C., Sullivan, S.A., Sutton, P.L., Thomas, M.B., Carlton, J.M., Valecha, N. (2012). Malaria in India: The Center for the Study of Complex Malaria in India. *Acta Tropica* 121: 267-273.

2011

152. Atkins, K.E., **Read, A.F**., Savill, N.J., Renz, K.G., Walken-Brown, S.W. & Woolhouse, M.E.J. (2011). Modeling Marek's disease virus (MDV) infection: Parameter estimates for mortality rate and infectiousness. *BMC Veterinary Research* 7: 70. doi:10.1186/1746-6148-7-70.

151. Mideo, N., Savill, N.J., Chadwick, W., Schneider, P., **Read A.F.,** Day, T. & Reece, S.E. (2011). Causes of variation in malaria infection dynamics: insights from theory and data. *American Naturalist* 178: 174-188. doi:10.1086/662670.

150. Glunt, K.D., Thomas, M.B. & **Read, A.F.** (2011). The effects of age, exposure history and malaria infection on susceptibility of *Anopheles* mosquitoes to low concentrations of pyrethroid. *PLoS One* 6; e24968. doi:10.1371/journal.pone.0024968

149. Blanford, S., Shi, W., Christian, R., Marden, J.H., Koekemoer, L.L., Brooke, B.D., Coetzee, M., **Read, A.F.** & Thomas, M.B. (2011). Lethal and pre-lethal effects of a fungal biopesticide contribute to substantial and rapid control of malaria vectors. *PLoS One* 6: e23591. doi:10.1371/journal.pone.0023591

148. Huijben, S., Sim, D., Nelson, W.A. & **Read, A.F.** (2011). The fitness of drug resistant malaria parasites in a rodent model: multiplicity of infection. *Journal of Evolutionary Biology* 24: 2410-2422. doi:10.1111/j.1420-9101.2011.02369.x

147. Metcalf, C.J.E., Graham, A.L., Huijben, S., Barclay, V.C., Long, G.H., Grenfell, B.T., **Read, A.F**. & Bjørnstad, O.N. (2011). Partitioning regulatory mechanisms of within host malaria using the effective propagation number. *Science* 333: 984-988.

146. George, J., Blanford, S., Domingue, M.J., Thomas, M.B., **Read, A.F.** & Baker, T.C. (2011). Reduction in host-finding behavior in fungus-infected mosquitoes is correlated with reduction in olfactory receptor neuron responsiveness. *Malaria Journal* 10:219. doi:10.1186/1475-2875-10-219.

145. Mideo, N., Nelson, WA., Reece, S.E., Bell, A.S., **Read A.F.** & Day, T. (2011). Bridging scales in the evolution of infectious disease life histories: application. *Evolution* 65: 3298-3310.

144. **Read, A.F.**, Day, T. & Huijben, S. (2011). The evolution of drug resistance and the curious orthodoxy of aggressive chemotherapy. *Proceedings of the National Academy of Science USA* 108: 10871-10877.

2010

143. Juliano, J.J., Porter, K., Mwapasa, V., Sem, R., Rogers, W.O., Ariey, F., Wongsrichanalai, C., **Read, A.F**. & Meshnick, S.R. (2010). Massively parallel pyrosequencing: exposing malaria in-host diversity and estimating population diversity by capture-recapture. *Proceedings of the National Academy of Science USA* 107: 20138-20143.

142. Long, G.H., Sinha, D., **Read, A.F.**, Pritt, S., Kline, B., Harvill, E.T., Hudson, P.J. & Bjørnstad, O.N. (2010). Identifying the age cohort responsible for transmission in a natural outbreak of *Bordetella bronchiseptica*. *PLoS Pathogens* 6: e1001224. doi:10.1371/journal.ppat.1001224.

141. Pepin, K.M., Lass, S., Pulliam, J.R.C., **Read, A.F**. & Lloyd-Smith, J.O. (2010). Identifying genetic markers of adaptation for surveillance of viral host jumps. *Nature Reviews Microbiology* 8: 802-813.

140. Babayan, S.A., **Read, A.F.**, Bain, O. & Allen, J.E. (2010) Filarial parasites develop fast and reproduce younger in life-threatening immune environments. *PLoS Biology* 8: e1000525. doi:10.1371/journal.pbio.1000525

139. Miller, M.R., Råberg, L., **Read, A.F.** & Savill, N.J. (2010). Quantitative analysis of immune response and erthropoiesis during rodent malaria infection. *PLoS Computational Biology* 6: e1000946. doi:10.1371/journal.pcbi.1000946.

138. Paaijmans, K.P., Blanford, S., Bell, A.S., Blanford, J.I., **Read, A.F**. & Thomas, M.B. (2010). Re-evaluating the link between malaria and climate. *Proceedings of the National Academy of Science USA.* 107: 15135-15139. doi:10.1073/pnas.1006422107.

137. Rivero, A. Vezilier, J., Weill, M., **Read, A.F**. & Gandon, S. (2010) Insecticide control of vector-borne diseases: when is insecticide resistance a problem? *PLoS Pathogens* 6: e1001000. doi:10.1371/journal.ppat.1001000

136. Huijben, S., Nelson, W.A., Wargo, A.R., Sim, D.G., Drew, D.R. & **Read, A.F.** (2010). Chemotherapy, within-host ecology and the fitness of drug resistant malaria parasites. *Evolution* 64: 2952-2968.

135. Long, G.H., Karanikas, A.T., Harvill, E.T., **Read, A.F**. & Hudson, P.J. (2010) Acellular pertussis vaccination facilitates *Bordetella parapertussis* infection in a rodent model of bordetellosis. *Proceedings of the Royal Society of London Series B* 277:2017-2025.

134. Pulkkinen, K., Suomalainen, L-R, **Read, A.F.**, Ebert, D, Rintamäki, P. & Valtonen E.T. (2010). Intensive fish farming and the evolution of pathogen virulence: the case of columnaris disease in Finland. *Proceedings of the Royal Society of London Series B* 277: 593-600. doi: 10.1098/rspb.2009.1659133.

2009

133. Paaijmans, K.P., **Read, A.F**. & Thomas, M.B. (2009). Understanding the link between malaria risk and climate. *Proceedings of the National Academy of Science USA* 106: 13844-13849.

132. Koella, J.C., Lynch., P.A., Thomas, M.B. & **Read, A.F**. (2009). Towards evolution-proof malaria control with insecticides. *Evolutionary Applications* 2: 469-480. doi: 10.1111/j.1752-4571.2009.00072.x

131. Blanford, S., **Read, A.F**. & Thomas, M.B. (2009). Thermal behaviour of *Anopheles stephansi* in response to infection with malaria and fungal entomopathogens. *Malaria Journal* 8:72. doi:10.1186/1475-2875-8-72.

130. **Read, A.F**., Lynch, P.A. & Thomas, M.B. (2009). How to build an evolution-proof insecticide for malaria control. *PLoS Biology* 7: e1000058. doi:10.1371/journal.pbio.1000058.

129. Bell, A.S., Blanford, S., Jenkins, N., Thomas, M.B. & **Read, A.F**. (2009). Real-time quantitative PCR for analysis of candidate fungal biopesticides against malaria: technique validation and first applications. *Journal of Invertebrate Pathology* 100: 160-169.

128. **Read, A.F.** & Huijben, S. (2009). Evolutionary biology and the avoidance of antimicrobial resistance. *Evolutionary Applications* 2: 40-51.

127. Råberg, L., Graham, A.L. & **Read, A.F.** (2009). Decomposing health: tolerance and resistance to parasites in animals. *Philosophical Transactions of the Royal Society of London Series B* 364: 37-49.

2008

126. Schneider, P., Chan, B.H.K., Reece, S.E. & **Read, A.F**. (2008). Does drug sensitivity of malaria parasites depend on their virulence? *Malaria Journal* 7: 257. doi:10.1186/1475-2875-7-257.

125. Barclay, V.C., Chan, B.H.K., Anders, R.F. & **Read, A.F.** (2008). Mixed allele malaria vaccines: host protection and within-host selection. *Vaccine* 26: 6099-6107.

124. Mideo, N., Barclay, V.C., Chan, B.H.K., Savill, N.J., **Read, A.F**. & Day, T. (2008). Understanding and predicting strain-specific patterns of pathogenesis in the rodent malaria, *Plasmodium chabaudi*. *American Naturalist* 172: E214-E238.

123. Mideo, N., Day, T. & **Read, A.F**. (2008). Modelling malaria pathogenesis. *Cellular Microbiology* 10: 1947-1955.

122. Grech, K., Chan, B.H.K. & **Read, A.F**. (2008). The impact of immunisation on competition within *Plasmodium* infections. *Evolution* 62: 2359-2371.

121. Mackinnon, M.J., Gandon, S. & **Read, A.F.** (2008). Virulence evolution in response to vaccination: the case of malaria. *Vaccine* 26S: C42-C52.

120. Long, G.H., Chan. B.H.K., Allen, J.E., **Read, A.F.** & Graham, A.L. (2008). Experimental manipulation of immune-mediated disease and its fitness costs for rodent malaria parasites. *BMC Evolutionary Biology* 8: 128. doi:10.1186/1471-2148-8-128.

119. Barclay, V.C., Råberg, L., Chan, B.H.K., Brown, S., Gray, D. & **Read, A.F.** (2008). $CD4^+$ T cells do not mediate within-host competition between genetically diverse malaria parasites. *Proceedings of the Royal Society of London Series B* 275: 1171-1179.

118. Lynch, P.A., Grimm, U. & **Read, A.F.** (2008). How will public and animal health interventions drive life history evolution in parasitic nematodes? *Parasitology* 135: 1599-1611.

117. Long, G.H., Chan. B.H.K., Allen, J.E., **Read, A.F.** & Graham, A.L. (2008). Blockade of TNF receptor 1 reduces disease severity but increases parasite transmission during *Plasmodium chabaudi chabaudi* infection. *International Journal for Parasitology* 38: 1073-1081.

116. Lamb, T.J., Harris, A., Le Goff, L., **Read, A.F.** & Allen, J.E. (2008). *Litomosoides sigmodontis:* Vaccine-induced immune responses against *Wolbachia* surface protein can enhance the survival of filarial nematodes during primary infection. *Experimental Parasitology* 118: 285-289.

2007

115. Wargo, A. R., Huijben, S., de Roode, J.C., Shepard, J. & **Read, A.F.** (2007). Competitive release and facilitation of drug resistant parasites following therapeutic chemotherapy in a rodent malaria model. *Proceedings of the National Academy of Science USA* 104: 19914-19919.

114. Råberg, L., Sim, D. & **Read, A.F.** (2007). Disentangling genetic variation for resistance and tolerance to infectious diseases in animals. *Science* 318: 812-814.

113. Grech, K., Maung, L.A. & **Read, A.F**. (2007). The effect of parental rearing conditions on offspring life history in *Anopheles stephensi*. *Malaria Journal* 6: 130.

112. Day, T., Graham, A.L. & **Read, A.F**. (2007). Evolution of parasite virulence when host responses cause disease. *Proceedings of the Royal Society of London Series B* 274: 2685-2692.

111. Wargo, A. R., de Roode, J.C., Huijben, S., Drew, D.R. & **Read, A.F.** (2007). Transmission stage investment of malaria parasites in response to in-host competition. *Proceedings of the Royal Society of London Series B* 274: 2759-2768.

110. Lythgoe, K.A., Morrison, L.J., **Read, A.F.** & Barry, J.D. (2007). Parasite-intrinsic factors can explain ordered progression of trypanosome antigenic variation. *Proceedings of the National Academy of Science USA* 104: 8095-8100.

109. Thomas, M.B. & **Read, A.F.** (2007). Can fungal biopesticides control malaria? *Nature Microbiology Reviews* 5: 377-383.

2006

108. Long, G.H., Chan, B.H.K., Allen, J.E., **Read, A.F.** & Graham, A.L. (2006). Parasite genetic diversity does not influence TNF-mediated effects on the virulence of primary rodent malaria infections. *Parasitology*133: 673-684.

107. Grech, K., Watt, K. & **Read, A.F.** (2006). Host-by-parasite interactions for virulence and resistance in a malaria model system. *Journal of Evolutionary Biology* 19: 1620-1630.

106. Bell, A.S, de Roode, J.C., Sim, D. & **Read, A.F.** (2006) Within-host competition in genetically diverse malaria infections: parasite virulence and competitive success. *Evolution* 60: 1358-1371.

105. Råberg, L., de Roode, J.C., Bell, A.S., Stamou, P., Gray, D. & **Read, A.F.** (2006). The role of immune-mediated apparent competition in genetically diverse malaria infections. *American Naturalist* 168: 41-53.

104. Wargo, A.R., Randle, N., Chan, B.H.K., Thompson, J., **Read, A.F.** & Babiker, H. (2006) *Plasmodium chabaudi*: reverse transcriptase PCR (RT-PCR) for the detection and quantification of the transmission stage malaria parasites. *Experimental Parasitology* 112: 13-20.

2005

103. Barry, J.D., Marcello, L., Morrison, L.J., **Read, A.F**., Lythgoe, K., Jones, N., Carrington, M., Blandin, G., Böhme, U., Caler, E., Hertz-Fowler, C., Renauld, H., El-Sayed, N. & Berriman, M. (2005). What the genome sequence is telling us about trypanosome antigenic variation. *Biochemical Society Transactions* 33: 986-989.

102. Mitchell, S.E. & **Read, A.F.** (2005). Poor maternal environment enhances offspring disease resistance in an invertebrate. *Proceedings of the Royal Society of London Series B* 272: 2601-2607.

101. Shutler, D., Reece, S.E., Mullie, A., Billingsley, P.F. & **Read, A.F.** (2005). Rodent malaria parasites *Plasmodium chabaudi* and *P. vinckei* do not increase their rates of gametocytogenesis in response to mosquito probing. *Proceedings of the Royal Society of London Series B* 272: 2397-2402.

100. de Roode, J.C., Helinski, M.E.H., Anwar, M. & **Read, A.F.** (2005). Dynamics of multiple infection and within-host competition in genetically diverse malaria infections. *American Naturalist* 166: 531-542.

99. Graham, A.L., Allen, J.E. & **Read, A.F.** (2005). Evolutionary causes and consequences of immunopathology. *Annual Review in Ecology, Evolution and Systematics* 36: 337-397.

98. Ferguson, H.M., Gouagna, L. C., Obare, P., Babiker, H., Githure, J., **Read, A.F**. & Beier, J.C. (2005) The presence of *Plasmodium falciparum* in human blood increases the gravidity of *Anopheles gambiae* mosquitoes. *American Journal of Tropical Medicine and Hygiene* 73: 312-320.

97. Little, T.J., Hultmark, D. & **Read, A.F.** (2005). Invertebrate immunity and the limits of mechanistic immunology. *Nature Immunology* 6: 651-654. doi:10.1038/ni1219.

96. Morrison, L.J., Majiwa, P.A.O., **Read, A.F.** & Barry, J.D. (2005). Probabilistic order in antigenic variation of *Trypanosoma brucei*. *International Journal for Parasitology* 35: 961-972.

95. Blanford, S., Chan, B.H.K., Jenkins, N., Sim, D., Turner, R.J., **Read, A.F.** & Thomas, M.B. (2005). Fungal pathogen reduces potential for malaria transmission. *Science* 308: 1638-1641.

94. de Roode, J.C., Pansini, R., Cheesman, S.J., Helinski, M.E.H., Huijben, S., Wargo, A.R., Bell, A.S., Chan, B.H.K., Walliker, D. & **Read, A.F.** (2005). Virulence and competitive ability in genetically diverse malaria infections. *Proceedings of the National Academy of Science USA* 102: 7624-7628.

93. Reece, S.E., Duncan, A.B., West, S.A. & **Read, A.F.** (2005) Host cell preferences and variable transmission strategies in malaria parasites. *Proceedings of the Royal Society of London Series B* 272: 511-517.

92. Mackinnon, M.J., Bell, A. & **Read, A.F.** (2005). The effects of mosquito transmission and population bottlenecking on virulence, multiplication rate and resetting in rodent malaria. *International Journal for Parasitology* 35: 145-153.

91. Mitchell, S.E., Rogers, E.S. & Little, T. & **Read, A.F.** (2005). Host-parasite and genotype by environment interactions: temperature modifies potential for selection by a sterilising pathogen. *Evolution* 59: 70-80.

90. Graham, A.J., Lamb, T.J., **Read, A.F.** & Allen, J.E. (2005). Malaria-filaria co-infection in mice makes malarial disease more severe unless filarial infection achieves patency. *Journal of Infectious Diseases* 191: 410-421.

2004

89. de Roode, J.C., Culleton, R., Bell, A.S. & **Read, A.F.** (2004). Competitive release of drug resistance following drug treatment of mixed *Plasmodium chabaudi* infections. *Malaria Journal.*3: 33. doi:10.1186/1475-2875-3-33.

88. Mackinnon, M.J. & **Read, A.F.** (2004). Immunity promotes virulence evolution in a malaria model. *PLoS Biology* 2: e230. doi:10.1371/journal.pbio.0020230

87. Mitchell, S.E., **Read, A.F. &** Little, T. (2004). The effect of a pathogen epidemic on the genetic structure and reproductive strategy of the crustacean *Daphnia magna*. *Ecology Letters* 7: 848-858.

86. Ferguson, H.M. & **Read, A.F.** (2004). Mosquito appetite for blood is stimulated by malaria infections in themselves and their vertebrate hosts. *Malaria Journal* 3:12. doi:10.1186/1475-2875-3-12.

85. Mackinnon, M.J**. & Read, A.F.** (2004). Virulence in malaria: an evolutionary viewpoint. *Philosophical Transactions of the Royal Society of London. Biological Sciences* 359: 965-986.

84. de Roode, J.C., Culleton, R., Cheesman, S.J., Carter, R. & **Read, A.F.** (2004). Host heterogeneity is a determinant of competitive exclusion or coexistence in genetically diverse malaria infections. *Proceedings of the Royal Society of London Series B* 271: 1073-1080.

83. Lamb, T.J., Le Goff, L., Kurniawan, A., Guiliano, D.B., Fenn, K., Blaxter, M.L., **Read, A.F.** & Allen, J.E. (2004). The majority of the response elicited against *Wolbachia* surface protein in filarial nematode infection is due to infective larval stage. *Journal of Infectious Diseases* 120: 120-127.

2003

82. Ferguson, H.M., Mackinnon, M.J., Chan, B.H. & **Read, A.F.** (2003). Mosquito mortality and the evolution of malaria virulence. *Evolution* 57: 2792-2804.

81. Guinnee, M.A., Gemmill, A.W., Chan, B.H.K., Viney, M.E. & **Read, A.F.** (2003). Host immune status affects maturation time in two nematode species – but not as predicted by a simple life history model. *Parasitology* 127: 507-512.

80. de Roode, J.C., **Read, A.F.**, Chan, B.H.K. & Mackinnon, M.J. (2003). Rodent malaria parasites suffer from the presence of conspecific clones in three-clone *Plasmodium chabaudi* infections. *Parasitology* 127: 411-418.

79. Reece, S.E., Duncan, A.B., West, S.A. & **Read, A.F.** (2003). Sex ratios in the rodent malaria parasite *Plasmodium chabaudi*. *Parasitology* 127: 419-425.

78. Cheesman, S.J., de Roode, J.C., **Read, A.F.** & Carter, R. (2003). Real-time quantitative PCR for analysis of genetically mixed infections of malaria parasites: technique validation and applications. *Molecular and Biochemical Parasitology* 131: 83-91.

77. Ferguson, H.M., Rivero, A. & **Read, A.F.** (2003). The influence of malaria parasite genetic diversity on mosquito feeding and fecundity. *Parasitology* 127: 9-19.

76. Gandon, S., Mackinnon, M., Nee, S. & **Read, A.F.** (2003). Imperfect vaccination: some epidemiological and evolutionary consequences. *Proceedings of the Royal Society of London Series B* 270: 1129-1136.

75. Little, T.J., O'Connor, B., Colegrave, N., Watt, K. & **Read, A.F.** (2003). Maternal transfer of strain-specific immunity in an invertebrate. *Current Biology* 13: 489-492.

74. Mackinnon, M.J. & **Read, A.F.** (2003). The effects of host immunity on virulence-transmissibility relationships in the rodent malaria *Plasmodium chabaudi. Parasitology* 126: 103-112.

2002

73. Gandon, S., Mackinnon, M. J., Nee, S. & **Read, A.F.** (2002). Anti-toxin vaccines and pathogen virulence. *Nature* 417: 610.

72. West, S.A., Smith, T.G., Nee, S. & **Read, A.F.** (2002). Fertility insurance and the sex ratios of malaria and related hemospororin blood parasites. *Journal of Parasitology* 88: 258-263.

71. Ferguson, H.M. & **Read, A.F.** (2002). Genetic and environmental determinants of *Plasmodium* virulence in vectors. *Proceedings of the Royal Society of London Series B* 269: 1217-1224.

70. Mackinnon, M.J., Gaffney, D.J. & **Read, A.F.** (2002). Virulence of rodent malaria parasites: host genotype by parasite genotype experiments. *Infection, Genetics and Evolution* 36: 287-296.

69. Ferguson, H.M. & **Read, A.F.** (2002). Why is the effect of malaria parasites on mosquito survival still unresolved? *Trends in Parasitology* 18: 256-261.

68. Nee, S., West, S.A. & **Read, A.F.** (2002). Inbreeding and parasite sex ratios. *Proceedings of the Royal Society of London Series B* 269: 755-760.

2001

67. Gandon, S., Mackinnon, M. J., Nee, S. & **Read, A.F.** (2001). Imperfect vaccines and the evolution of pathogen virulence. *Nature* 414: 751-756.

66. West, S.A., Reece, S.E. & **Read, A.F.** (2001). Gametocyte sex ratios of malaria and related apicomplexan (protozoa) parasites. *Trends in Parasitology* 17: 525-531.

65. Buckling, A. & **Read, A.F.** (2001). The effect of partial host immunity on the transmission of malaria parasites. *Proceedings of the Royal Society of London Series B* 268: 2325-2330.

64. Timms, R., Colegrave, N., Chan, B.H.K. & **Read, A.F.** (2001). The effect of parasite dose on severity of disease in the rodent malaria *Plasmodium chabaudi*. *Parasitology* 123: 1-11.

63. **Read, A.F.** & Taylor, L.H. (2001). The ecology of genetically diverse infections. *Science* 292: 1099-1102.

62. West, S.A., Gemmill, A.W., Graham, A., Viney, M.E. & **Read, A.F.** (2001). Immune stress and facultative sex in a parasitic nematode. *Journal of Evolutionary Biology* 14: 333-337.

2000

61. Harvey, S.C., Gemmill, A.W., **Read, A.F.** & Viney, M.E. (2000). The control of morph development in the parasitic nematode *Strongyloides ratti*. *Proceedings of the Royal Society of London Series B* **267**: 2057-2063.

60. Gemmill, A.W., Viney, M.E. & **Read, A.F.** (2000). The evolutionary ecology of host-specificity: experimental studies with *Strongyloides ratti*. *Parasitology* 120: 429-437.

59. West, S.A., Smith, T.G. & **Read, A.F.** (2000). Sex allocation and population structure in Apicomplexan (Protozoa) parasites. *Proceedings of the Royal Society of London Series B* 267: 257-263.

58. Pickering, J., **Read, A.F.**, Guerrero, S. & West, S.A. (2000). Sex ratio and virulence in two species of lizard malaria parasites. *Evolutionary Ecology Research* 2: 171-184.

Last century

57. West, S.A., Lively, C.M. & **Read, A.F.** (1999). A pluralist approach to the evolution of sex and recombination. *Journal of Evolutionary Biology* 12: 1003-1012.

56. Buckling, A.G.J., Crooks, L. & **Read, A.F**. (1999). *Plasmodium chabaudi*: Effect of antimalarial drugs on gametocytogenesis. *Experimental Parasitology* 93: 45-54.

55. Gemmill, A.W., Skorping, A. & **Read, A.F.** (1999). Optimal timing of first reproduction in parasitic nematodes. *Journal of Evolutionary Biology* 12: 1148-1156.

54. Mackinnon, M. J. & **Read, A.F.** (1999). Genetic relationships between parasite virulence and transmission in the rodent malaria *Plasmodium chabaudi*. *Evolution* 53: 689-703.

53. Buckling, A.G.J. & **Read, A.F.** (1999). The effects of chloroquine on the infectivity of *Plasmodium chabaudi* gametocytes. *International Journal for Parasitology* 29: 619-625

52. Buckling, A.G.J., Ranford-Cartwright, L., Miles, A. & **Read, A.F.** (1999). Chloroquine increases *Plasmodium falciparum* gametocytogenesis *in vitro*. *Parasitology* 118: 339-346.

51. Mackinnon, M. J. & **Read, A.F.** (1999). Selection for high and low virulence in the malaria parasite *Plasmodium chabaudi*. *Proceedings of the Royal Society of London Series B* 266: 741-748.

50. Arneberg, P., Skorping, A., Grenfell, B. & **Read, A.F.** (1998). Host densities as determinants of abundance in parasite communities. *Proceedings of the Royal Society of London Series B* 265: 1283-1289.

49. Arneberg, P., Skorping, A. & **Read, A.F**. (1998). Parasite abundance, body size, life histories and the energetic equivalence rule. *American Naturalist* 151: 497-513.

48. Braithwaite, V.A., Salkeld, D.J., MacAdam, H. M., Hockings, C.G., Ludlow, A.M. & **Read, A.F**. (1998). Spatial and discrimination learning in rodents infected with the nematode *Strongyloides ratti. Parasitology* 117: 145-154.

47. Skorping, A. & **Read, A.F.** (1998). Drugs and parasites: global experiments in life history evolution? *Ecology Letters* 1: 10-12.

46. Shutler, D. & **Read, A.F.** (1998). Local mate competition, and extraordinary and ordinary blood parasite sex ratios. *Oikos* 82: 417-424.

45. Taylor, L.H. & **Read, A.F.** (1998). Determinants of transmission success of individual clones from mixed-clone infections of the rodent malaria *Plasmodium chabaudi*. *International Journal for Parasitology* 28: 719-725.

44. Taylor, L.H., Mackinnon, M.J. & **Read, A.F.** (1998). Virulence of mixed-clone and single-clone infections of the rodent malaria *Plasmodium chabaudi*. *Evolution* 52: 489-497.

43. Arneberg, P., Skorping, A. & **Read, A.F**. (1997). Is population density a species character? Comparative analyses of the nematode parasites of mammals. *Oikos* 80: 289-300.

42. Buckling, A.G.J., Taylor, L.H., Carlton, J.M.-R. & **Read, A.F.** (1997). Adaptive changes in *Plasmodium* transmission strategies following chloroquine chemotherapy. *Proceedings of the Royal Society of London Series B* 264: 553-559.

41. Gemmill, A.W., Viney, M.E. & **Read, A.F**. (1997). Host immune status determines sexuality in a parasitic nematode. *Evolution* 51: 393-401.

40. Taylor, L.H. & **Read, A.F**. (1997). Why so few transmission stages? Reproductive restraint by malaria parasites. *Parasitology Today* 13: 135-140.

39. Taylor, L.H., Walliker, D. & **Read, A.F**. (1997). Mixed-genotype infections of malaria parasites: within-host dynamics and transmission success of competing clones. *Proceedings of the Royal Society of London Series B* 264: 927-935.

38. Taylor, L.H., Walliker, D. & **Read, A.F**. (1997). Mixed-genotype infections of the rodent malaria *Plasmodium chabaudi* are more infectious to mosquitoes than single-genotype infections. *Parasitology* 115: 121-132.

37. **Read, A.F.** & Viney, M.E. (1996). Helminth immunogenetics: why bother? *Parasitology Today* 12: 337-343.

36. Robert, V., **Read, A.F.**, Essong, J., Tchuinkam, T., Mulder, B., Verhave, J.-P. & Carnevale, P. (1996). Effect of gametocyte sex ratio on infectivity of *Plasmodium falciparum* to *Anopheles gambiae*. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 90: 621-624.

35. Schrag, S.J. & **Read, A.F.** (1996). Loss of male outcrossing ability in simultaneous hermaphrodites: phylogenetic analyses of pulmonate snails. *Journal of Zoology* 238: 287-299.

34. **Read, A.F.** & Skorping, A. (1995). The evolution of tissue migration by parasitic nematode larvae. *Parasitology* 111: 359-371.

33. **Read, A.F.**, Anwar, M., Shutler, D. & Nee, S. (1995). Sex allocation and population structure in malaria and related parasitic protozoa. *Proceedings of the Royal Society of London Series B* 260: 359-363.

32. **Read, A.F.** & Nee, S. (1995). Inference from binary comparative data. *Journal of Theoretical Biology* 173: 99-108.

31. **Read, A.F**. (1994). The evolution of virulence. *Trends in Microbiology* 2: 73-76.

30. Norris, K., Anwar, M. & **Read, A.F.** (1994). Reproductive effort influences the prevalence of haematozoan parasites in great tits. *Journal of Animal Ecology* 63: 601-610.

29. Schrag, S.J., Nidifon, G.T. & **Read, A.F.** (1994). Temperature determined outcrossing in wild populations of a simultaneous hermaphrodite snail. *Ecology* 75: 2066-2077.

28. Schrag, S.J., Mooers, A. Ø., Nidifon, G.T. & **Read, A.F.** (1994). Ecological correlates of male outcrossing ability in a simultaneous hermaphrodite snail. *American Naturalist* 143: 636-655.

27. **Read, A.F.**, Narara, A., Nee, S., Keymer, A.E. & Day, K. (1992). Gametocyte sex ratios as an indirect measure of outcrossing rates in malaria. *Parasitology* 104: 387-395

26. **Read, A.F.** & Day, K.P. (1992). The genetic structure of malaria parasite populations. *Parasitology Today* 8: 239-242.

25. **Read, A.F.** & Weary, D.M. (1992). The evolution of bird song: comparative evidence. *Philosophical Transactions of the Royal Society Series B* 338: 165-187.

24. Day, K.P., Koella, J.C., Nee, S., Gupta, S. & **Read, A.F.** (1992). Population genetics and dynamics of *Plasmodium falciparum*: an ecological view. *Parasitology* 104: S35-S52.

23. Schrag, S.J. & **Read, A.F.** (1992). Temperature determination of male outcrossing ability in a simultaneous hermaphrodite. *Evolution* 46: 1698-1707.

22. Schrag, S.J., Rollinson, D., Keymer, A.E. & **Read, A.F.** (1992). Heritability of male outcrossing ability in the simultaneous hermaphrodite, *Bulinus truncatus* (Gastopoda: Planorbidae). *Journal of Zoology (London)* 226: 311-319.

21. Young, R.P., Hart, B.J., Merrett, T.G., **Read, A.F. &** Hopkin, J.M. (1992). House dust mite sensitivity: interactions of genetics and allergen doseage. *Clinical & Experimental Allergy* 22:205-211.

20. **Read, A.F.** (1991). Passerine polygyny: a role for parasites? *American Naturalist* 138: 434-459.

19. **Read, A.F.** & Nee, S. (1991). Is Haldane's Rule significant? *Evolution* 45: 1707-1709.

18. Balmford, A. & **Read, A.F.** (1991). Testing alternative models of sexual selection through female choice. *Trends in Ecology and Evolution* 6: 274-276.

17. Keymer, A.E., Gregory, R.D., Harvey, P., **Read, A.F.** & Skorping, A. (1991). Parasite-host ecology: case studies in population dynamics, life-history evolution and community structure. *Acta Œcologica* 12: 105-118.

16. Nee, S., **Read, A.F.**, Greenwood, J.J.D. & Harvey, P.H. (1991). The relationship between abundance and body size in British birds. *Nature* 351: 312-313.

15. Skorping, A., **Read, A.F.** & Keymer, A.E. (1991). Life history covariation in intestinal nematodes of mammals. *Oikos* 60: 365-371.

14. **Read, A.F.** & Weary, D.M. (1990). Sexual selection and the evolution of bird song: a test of the Hamilton and Zuk hypothesis. *Behavioural Ecology and Sociobiology* 26: 47-56.

13. Elgar, M.A., Ghaffer, N. & **Read, A.F.** (1990). Sexual dimorphism in leg length among orb-weaving spiders: a possible role for sexual cannibalism. *Journal of Zoology (London)* 222: 455-470.

12. Guilford, T. & **Read, A.F.** (1990). Zahavian cuckoos and the evolution of nestling discrimination by hosts. *Animal Behaviour* 39: 600-601.

11. Lawlor, B.J., **Read, A.F.**, Keymer, A.E., Parveen, G. & Crompton, D.W.T. (1990). Non-random mating in a parasitic worm: mate choice by males? *Animal Behaviour* 40: 870-876.

10. **Read, A.F.** & Harvey. P.H. (1989). Life history differences among the eutherian radiations. *Journal of Zoology* 219: 329-353.

9. **Read, A.F.** & Harvey, P.H. (1989). Reassessment of comparative evidence for Hamilton and Zuk theory on the evolution of secondary sexual characters. *Nature* 339: 618-620.

8. Harvey, P.H., **Read, A.F.** & Promislow, D.E.L. (1989). Life history variation in placental mammals: unifying the data with theory. *Oxford Surveys in Evolutionary Biology* 6: 13-31.

7. Trevelyan, R. & **Read, A.F.** (1989). Nest predators and the evolution of avian reproductive strategies: a comparison of Australian and New Zealand birds. *Oecologia* 81: 274-278.

6. **Read, A.F.** (1988). Sexual selection and the role of parasites. *Trends in Ecology and Evolution* 3: 97-102.

5. **Read, A.F.** (1988). Habitat use by Yellowheads *Mohoua ochrocephala* (Aves: Muscicapidae) in the Hawdon River Valley, Arthur's Pass National Park. 1. Habitat preferences. *New Zealand Journal of Zoology* 15: 461-470.

4. **Read, A.F.** (1988). Habitat use by Yellowheads *Mohoua ochrocephala* (Aves: Muscicapidae) in the Hawdon River Valley, Arthur's Pass National Park. 2. Time budgets and foraging behaviour. *New Zealand Journal of Zoology* 15:471-480.

3. **Read, A.F.** (1987). Comparative evidence supports the Hamilton and Zuk hypothesis on parasites and sexual selection. *Nature* 328: 68-70.

2. **Read, A.F.** (1987). The breeding and flocking behaviour of yellowheads at Arthur's Pass National Park. *Notornis* 34: 11-18.

1. **Read, A.F.** & O'Donnell, C.F.J. (1987). Abundance of yellowheads in the Hawdon River Valley, Arthur's Pass National Park in 1983 and 1984. *Notornis* 34: 307-315.

BOOK CHAPTERS & EDITED VOLUMES:

26. **Read, A.F**. & Mackinnon, M.J. (2008). Pathogen evolution in a vaccinated world. In: Stearns, S.C. & Koella, J. *Evolution in Health and Disease* 2nd ed. pp. 139-152. Oxford University Press.

25. **Read, A.F.** (2007). The evolution of virulence: malaria, a case study. In: Nesse, R (ed.). *Evolutionary Medicine*. Henry Stewart Talks www.hstalks.com London (CD-ROM).

24. **Read, A.F.** & Clark, J.S. (Guest Ed.s). (2006). *Trends in Ecology and Evolution* 20th Anniversary Issues: Volume 21 Numbers 6 & 7. Editorials: **Read, A.F.** & Clark, J.S. The last twenty years of ecology and evolution. *Trends in Ecology and Evolution* 21: 287; The next twenty years of ecology and evolution. *Trends in Ecology and Evolution* 21: 354-355.

23. Ferguson, H.F., Gandon, S., Mackinnon, M.J. & **Read, A.F.** (2006). Malaria parasite virulence in mosquitoes and its implications for the introduction and efficacy of GMM malaria control programmes. In: Boete, C (ed.). *Genetically Modified Mosquitoes for Malaria Control*. pp 103-116. Landes Bioscience, Georgetown, Texas.

22. **Read, A.F.** (2006) Ballooning parrots and semi-lunar germs. In: Grafen, A. & Ridley, M. (ed.s). *Richard Dawkins: How a Scientist Changed the World*. pp. 3-13. Oxford University Press.

21. Renaud, F., De Meeus, T. & **Read, A.F.** (2005). Parasitism in man-made ecosystems. In: Thomas, F., Renaud, F., Guegan, J-F (ed.s) *Parasitism and Ecosystems.* pp. 155-170. Oxford University Press.

20. **Read, A.F.**, Gandon, S., Nee, S. & Mackinnon, M.J. (2004). The evolution of pathogen virulence in response to animal and public health interventions. In: Dronamraj, K. (ed.) *Infectious Disease and Host-Pathogen Evolution.* pp 265-292. Cambridge University Press.

19. **Read, A.F.**, Smith, T.G., Nee. S. & West, S.A. (2002). Sex ratios of malaria parasites and related protozoa. In: Hardy, I. (ed.) *Sex Ratios: Concepts and Research Methods*. pp. 314-332. Cambridge University Press.

18. Viney, M.E. & **Read, A.F.** (ed.s) (2002). *Parasite Variation: Ecological and Immunological Consequences.* Symposia of the British Society for Parasitology Vol. 38. (Suppl. to *Parasitology* Vol. 125). Cambridge University Press.

17. **Read, A.F.**, Mackinnon, M.J., Anwar, M. & Taylor, L. H. (2002). Kin selection models as evolutionary explanations of malaria. In: Dieckmann, U., Metz, J.A.J., Sabelis, M.W., Sigmund, K. (ed.s). *Adaptive Dynamics of Infectious Diseases: In Pursuit of Virulence Management*. pp. 165-178. Cambridge University Press.

16. Wilson, K., Bjørnstad, O.N., Dobson, A.P., Merler, S., Poglayen, G., Randolph, S.E., **Read, A.F.**, and Skorping, A. (2002). Heterogeneities in macroparasite infections: patterns and processes. In: Hudson, P.J., Rizzoli, A., Grenfell, B.T., Heesterbeek, H. & Dobson, A.P. *The Ecology of Wildlife Diseases*. pp. 6-44. Oxford University Press.

15. Grenfell, B.T., Amos, W., Arneberg, P., Bjørnstad, O.N., Greenman, J.V., Harwood, J., Lanfranchi, P., McLean, A.R, Norman, R.A., **Read, A.F.** & Skorping, A. (2002). Visions for future research in wildlife epidemiology. In: Hudson, P.J., Rizzoli, A., Grenfell, B.T., Heesterbeek, H. & Dobson, A.P. *The Ecology of Wildlife Diseases.* pp. 151-164. Oxford University Press.

14. **Read, A.F.**, Gemmill, A. & Skorping, A. (2000). Evolution of nematode life histories: theory meets reality? In: Poulin, R., Morand, S. & Skorping A. (ed.s). *Evolutionary Biology of Host-Parasite Relationships: Theory Meets Reality.* pp. 237-246. Elsevier, Amstrerdam.

13. **Read, A.F. &** Taylor, L. H. (2000). Within-host ecology of infectious diseases: patterns and consequences. In: Thompson, R.C.A. (ed.) *The Molecular Epidemiology of Infectious Diseases*. pp. 59-75. Arnold, London.

12. **Read, A.F.**, Aaby, P. Antia, R., Ebert, D., Ewald, P.W., Gupta, S., Holmes, E.C., Sasaki, A., Shields, D.C., Taddei, F., Moxon, E.R. (1999). Group report: What can evolutionary biology contribute to understanding virulence? In: Stearns, S.C. (ed.) *Evolution in Health and Disease.* pp. 205-215. Oxford University Press.

11. Nee, S., **Read, A.F. &** Harvey, P.H. (1996). The comparative method. In: Martins, E.P. *Phylogenies and the Comparative Method in Animal Behaviour*. pp 399-411. Oxford University Press.

10. **Read, A.F. &** Skorping, A. (1995). Causes and consequences of life history variation in parasitic nematodes. In: Griffin, C. & Gwynn, R.L. & Masson, J.P. (ed.s) *Ecology and Transmission of Entomopathogenic Nematodes.* pp. 58-68. European Commission, Brussels EUR 1629.

9. **Read, A.F.**, Albon, S.D., Antonovics, J., Apanius, V., Dwyer, G., Holt, R.D., Judson, O. Lively, C.M., Martin-Löf, A., McLean, A.R., Metz, J.A.J, Schmidt-Hempel, P., Thrall, P.H., Via, S. & Wilson, K. (1995). Group report: genetics and evolution of infectious diseases in natural populations. In: Grenfell, B. & Dobson, A. (ed.s) *Ecology of Infectious Diseases in Natural Populations*. pp. 450-477. Cambridge University Press.

8. Harvey, P.H. & **Read, A.R.** (1992). Primate ranging behaviour. In: Jones, S., Martin, R., Pilbeam, D. & Bunney, S. (eds). *The Cambridge Encyclopedia of Human Evolution.* pp. 155-157. Cambridge University Press, Cambridge.

7. Harvey, P.H., **Read, A.F.**, John, J., Gregory, R. & Keymer, A.E. (1991). An evolutionary perspective. In: Toft, C., Aeschlimann, A. & Bolis, L. (ed.s) *Parasitism: Coexistence or Conflict?* pp. 344-355. Oxford University Press, Oxford.

6. Keymer, A.E. & **Read, A.F.** (1991). Behavioural ecology: the impact of parasitism. In: Toft, C., Aeschlimann, A. & Bolis, L. (ed.s) *Parasitism: Coexistence or Conflict?* pp. 37-61. Oxford University Press, Oxford.

5. Keymer, A.E. & **Read, A.F.** (ed.s) (1990). *The Evolutionary Biology of Parasitism*. Symposia of the British Society for Parasitology Vol. 27. (Suppl. to *Parasitology* Vol. 100). Cambridge University Press.

4. **Read, A.F.** (1990). Parasites and the evolution of host sexual behaviour. In: *Parasitism and Host Behaviour*. Barnard, C. & Behnke, J.M. (eds.) pp. 117-157. Taylor and Francis Ltd, London.

3. Harvey, P.H., Promislow, D.E.L., **Read, A.R.** (1989). Causes and correlates of life history differences among mammals. In: *Comparative Socioecology. The Behavioural Ecology of Humans and other Mammals.* Standen, V. & Foley, R. (eds). British Ecological Society Special Publication, Blackwells, Oxford. pp. 305-318.

2. **Read, A.F.** & Harvey, P.H. (1988). Genetic relatedness and the evolution of animal mating patterns. In: *Human Mating Patterns*. Symposia of the Society for the Study of Human Biology Vol. 28. Mascie-Taylor, C.G.N. & Boyce, A.J. (eds). Taylor and Francis, London. pp. 115-132.

1. Harvey, P.H. & **Read, A.R.** (1988). How and why do mammalian life histories differ? In: *Evolution of Life Histories of Mammals: Theory and Pattern.* Boyce, M.S. (ed.). pp. 213-232. Utah University Press, Utah.

SCIENTIFIC COMMENTARIES:

Read, A.F. & Mideo, N. (2013). The vector as protector. *Nature* 498: 177-178.

Thomas, M.B., Godfray, H.C.J., **Read, A.F.,** van den Berg, H., Tabashnik, B.E., van Lenteren, J.C., Waage, J.K. & Takken, W. (2012). Lessons from agriculture for the sustainable management of malaria vectors. *PLoS Medicine* 9: e1001262. doi:10.1371/journal.pmed.1001262.

Read, A.F. & Braithwaite, V.A. (2012). Healthy body, unhealthy mind? In: *Host manipulation by parasites*. Hughes, D.P., Brodeur, J. & Thomas, F. (eds). pp. 195-197. Oxford University Press.

Borer, E.Y., Antonovics, J., Kinkel, L.L., Hudson, P.J., Daszak, P., Ferrari, M.J., Garrett, K.A., Parrish, C.R., **Read, A.F. &** Rizzo, D.M. (2011). Bridging taxonomic and disciplinary divides in infectious disease. *EcoHealth* 8: 261-267 doi:10.1007/s10393-011-0718-6.

Read, A.F. & Thomas, M.B. (2009). Mosquitoes cut short. *Science* 323: 51-52.

Read, A.F., Graham, A.L, Råberg, L. (2008). Animal defenses against infectious agents: is damage control more important than pathogen control? *PLoS Biology* 6: e1000004. doi:10.1371/journal.pbio.1000004

Thomas, M.B. & **Read, A.F.** (2007). Fungal biopesticides with a sting. *Nature Biotechnology* 25: 1329-1492.

Long, G. H, & **Read, A.F.** (2007). The expanding field of evolutionary immunology: 'The impact of the environment on innate immunity: at the defence frontier – the biology of innate immunity'. *Expert Reviews in Clinical Immunology* 3: 459-461.

West, S.A., Reece, S.E. & Read, A.F. (2003). *Toxoplasma gondii*, sex and premature rejection. *Trends in Parasitology* 19: 155-157.

de Roode, J.C. & **Read, A.F.** (2003). Evolution and ecology, after the malaria genomes. *Trends in Ecology and Evolution* 18: 60-61.

Viney, M.E. & **Read, A.F.** (2002). So what if parasite vary? *Trends in Parasitology* 18: 2-4.

Read, A.F. & Allen, J. E. (2000). Evolution and immunology: The economics of immunity. *Science* 290:1104-1105.

Reece, S.E. & **Read, A.F**. (2000). Malaria sex ratios. *Trends in Ecology and Evolution* 15: 259-260.

Timms, R. & **Read, A.F.** (1999). What makes a specialist special? *Trends in Ecology and Evolution* 14: 333-334.

Kythgoe, K. & **Read, A.F**. (1998). Catching the Red Queen? The advice of the Rose. *Trends in Ecology and Evolution* 13: 473-474.

Gemmill, A. & **Read, A.F**. (1998). Counting the costs of resistance. *Trends in Ecology and Evolution* 13: 8-9.

Sheldon, B.C. & **Read, A.F**. (1997). Comparative biology and disease ecology. *Trends in Ecology and Evolution* 12: 43-44.

Read, A.F. & Harvey, P.H. (1993). Evolving in a dynamic world. *Science* 260: 1760-1762.

Read, A.F. & Harvey, P.H. (1993). The evolution of virulence. *Nature* 362: 500-501.

Read, A.F. & Schrag, S.J. (1991). The evolution of virulence: experimental evidence. *Parasitology Today* 7: 296-297.

Keymer, A.E. & **Read, A.F.** (1990). Evolutionary biology of parasitism. *Parasitology Today* 6: 2-3

Bennun, L.A. & **Read, A.F.** (1988). Joint nesting in Acorn Woodpeckers. *Trends in Ecology Evolution* 3: 319.

Harvey, P.H. & **Read, A.R.** (1988). When incest is not best. *Nature* 336: 513-514.

Read, A.F. (1986). Female mate choice in pied flycatchers: an answer and a problem. *Trends in Ecology Evolution* 1: 85.

Read, A.F. & Harvey, P.H. (1986). Genetic management in zoos. *Nature* 332: 408-10.

PUBLISHED NOTES, BOOK REVIEWS & EDITORIALS:

Read, A.F. (2011). Taming Evolution. How best to manage the "natural" selection created by medical practice? *Science Journal* (PSU's Eberly College Alumni magazine) Fall/Winter 2011.

Read, A.F. (2011). Evidence based resistance management? *Plasmodium* 5: 3-4. (Newsletter of the National Institute of Malaria Research, New Delhi.)

Thomas, M.B., Blanford, S., Jenkins, N.E., Killeen, G.F., Knols, B.G.J., **Read, A.F.**, Schlote, E-J. & Takken, W. (2005). Benefits and risks in malaria control. *Science* 310: 50.

Read A.F., Gandon S., Nee, S. de Roode, J.C. and Mackinnon, M.J. (2005) Evolution of MDV virulence: an evolutionary biologist perspective. In: V. Nair (ed.) *Recent Advances in Marek's Disease Research: Proceedings of the 7th International MD Symposium, St Catherine's College, Oxford, 10 -14th July* (pp. 69-73). Institute for Animal Health, Compton, UK

Skorping, A. & **Read, A.F.** (2000). What determines the longevity of mammalian nematodes? *Bulletin of the Scandanavian Society for Parasitology* 10: 55-60.

West, S.A., Lively, C.M. & **Read, A.F.** (1999). Sex may take more than one. *Journal of Evolutionary Biology* 12:1053-1055.

Read, A.F. & Shutler, D. (1998). Darwinian medicine? Lessons from avian blood parasites. *Bulletin of the Scandanavian Society for Parasitology* 8: 30-32.

Harvey, P.H., **Read, A.F.** & Nee, S. (1995). Further remarks on the role of phylogeny in comparative ecology. *Journal of Ecology* 83: 733-734.

Harvey, P.H., **Read, A.F.** & Nee, S. (1995). Why ecologists are phylogenetically challenged. *Journal of Ecology* 83: 535-536.

Read, A.F. & Nee, S. (1993). Haldane's coincidence: a reply to Brookfield. *Evolution* 47: 1888-1889.

Harvey, P.H., Nee. S. & **Read, A.F.** (1993). Fluctuating asymmetry. *Nature* 363: 217.

Read, A.F. & Nee, S. (1990). Male schistosomes: more than just muscle? *Parasitology Today* 6: 297.

Read, A.F. & Harvey, A.R. (1989). Validity of sexual selection. *Nature* 340: 105.

Read, A. (1985). Predation of an arboreal rat by a New Zealand falcon. *Notornis* 32: 155.

Read, A. & McClelland, P. (1984). Orange-fronted parakeets in the Hawdon River Valley, Arthur's Pass National Park. *Notornis* 31: 266-7.

BOOK REVIEWS:

Matthews, G. (2012). *Integrated Vector Management: Controlling Vectors of Marlia and Other Insect Vector Borne Diseases*. Wiley-Blackwell. In: *Quarterly Review of Biology* 88:151.

Harré, R. (2009). *Pavlov's Dogs and Schrödinger's Cat: Scences from the Living Laboratory*. Oxford University Press, Oxford. In: *Nature* 458: 1113-1114 (2009).

Werth, B. (2009). *Banquest at Delmonico's. Great Minds, the Gilded Age, and the Triumph of Evolution in America*. Random House, New York. In: *Nature* 457: 663-664 (2009).

Conn. P.M. & Parker, J.V. (2008*). The Animal Research War*. Palgrave MacMillan, London. In: *Nature* 453: 592-593 (2008).

Zuk, M. (2007). *Riddled with Life: Friendly Worms, Ladybug Sex, and the Parasites That Make Us Who We Are*. Harcourt, Orlando. In: *Bioscience*58:362-363 (2008).

Esch, G.W. (2004). *Parasites, People, and Places. Essays on Field Parasitology*. Cambridge University Press, Cambridge. In: *Trends in Ecology and Evolution* 20:111-112 (2005).

Majerus, M.E.N. (2003). *Sex Wars: Genes Bacteria and Biased Sex Ratios.* Princeton University Press, Princeton. In: *Bioscience* 54: 362-363 (2004)

Grafen, A. & Hails, R. (2002). *Modern Statistics in the Life Sciences.* Oxford University Press and Crawley, M.J. 2002. *Statistical Computing. An Introduction to Data Analysis Using S-Plus.* John Wiley. In: *Trends in Ecology and Evolution* 18: 11-12 (2003).

Vetvicka, V. & Sima, P. (1998). *Evolutionary Mechanisms of Defense Reactions.* Birkhaüser Verlag. In: *Journal of Evolutionary Biology* 13: 151-152 (2000).

W.D. Hamilton and J.C. Howard (ed.s). (1997). *Infection, Polymorphism and Evolution*. Chapman & Hall and the Royal Society. In: *Quarterly Review of Biology* 74:224 (1999).

Matthews, B.E. (1998). *An Introduction to Parasitology*. Cambridge University Press. In: *Times Higher Education Supplement*, Feb 26 (1999).

Poulin, R. (1998). *Evolutionary Ecology of Parasites. From Individuals to Communities*. Chapman & Hall. In: *Trends in Ecology and Evolution* 13: 516-517 (1998).

Clayton, D.H. & Moore, J. (ed.s) (1997). *Host-Parasite Evolution: General Principles and Avian Models*. Oxford University Press. In: *Trends in Ecology and Evolution* 13: 293-294 (1998).

Roizman, B. (ed.) (1995). *Infectious Diseases in an Age of Change. The Impact of Human Ecology and Behaviour of Disease Transmission.* National Academy of Sciences, Washington. In: *American Journal of Epidemiology* 145: 861-862 (1997).

Isham, V. & Medley, G. (ed.s) (1996). *Models for Infectious Human Diseases. Their Structure and Relation to Data.* Cambridge University Press, Cambridge. In: *Parasitology Today* 13: 158-159 (1997).

Crawley, M. J. (ed.) (1992). *Natural Enemies. The Population Biology of Predators, Parasites and Diseases*. Blackwell Scientific, Oxford. In: *Quarterly Review of Biology* 69: 256-257 (1994).

Brooks, D.R. & McLennan, D.A. (1993). *Parascript. Parasites and the Language of Evolution.* Smithsonian Institution Press, Wasington. In: *Parasitology Today* 10: 203-204 (1994)

Power, D.M. (ed.) (1991). *Current Ornithology Vol. 8*. Plenum Press, New York. In: *Ibis* 135: 104-105 (1993).

Loye, J. & Zuk, M. (ed.s) (1991). *Bird-Parasite Interactions. Ecology, Evolution and Behaviour.* Oxford University Press. In: *Trends in Ecology and Evolution* 6: 411-412 (1991).

Fuller, E. (ed.) (1990). *Kiwis*. Swan Hill Press, Shrewsbury, England. In: *Ibis* 133: 427 (1991)

Galbreath, R. (1989). *Walter Buller. The Reluctant Conservationist.* GP Books, Wellington. In: *Ibis* 133: 97 (1991).

Esch, G., Bush, A. & Aho, J. (ed.s) (1990). *Parasite Communities: Patterns and Processes*. Chapman and Hall. In: *Trends in Ecology and Evolution* 5: 424-425 (1990). [with S. Nee]

Plotkin, H.C. (ed.) (1988). *The Role of Behaviour in Evolution.* MIT Press, Cambridge, MA. In: *Ibis* 132: 627 (1990).

Chambers, S. (1989). *Birds of New Zealand. Locality Guide*. Arun Books, Hamilton, New Zealand. In: *Ibis* 132: 624 (1990).

Otte, D. & Endler, J.A. (ed.s) (1989). *Speciation and its Consequences*. Sinauer, Sunderland, MA. In: *Ibis* 132: 492 (1990).

Ehrlich, N.J., Dobkin, D.S. & Wheye, D. (1988). *The Birder's Handbook: a Field Guide to the Natural History of North American Birds*. Simon an Schuster Inc., New York. In: *Ibis* 131:617 (1989).

Summers-Smith, J.D. (1988). *The Sparrows. A study of the genus* Passer. Poyser, Carlton. In: *Times Higher Education Supplement* Jan. 1989.

Andrews, J.R.H. (1987). *The Southern Ark. Zoological Discovery in New Zealand 1769-1900*. Century, London. In: *Ibis* 130: 307 (1988).

Peters, R.H. (1983). *The Ecological Implications of Body Size*. Cambridge University Press. In: *Ibis* 129: 586 (1987).

King, C. (1984). *Immigrant Killers. Introduced Predators and the Conservation of Birds in New Zealand.* Oxford University Press, Auckland. In: *Ibis* 128: 581-582 (1986).