

## Andrew Fraser READ: PUBLICATIONS

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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* 2<sup>nd</sup> 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., Tschärke, 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., Langhorne, 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., Fakhru 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., Tschärke, 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.
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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, W.A., 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.

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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 erythropoiesis 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.

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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.

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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.
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119. Barclay, V.C., Råberg, L., Chan, B.H.K., Brown, S., Gray, D. & **Read, A.F.** (2008). CD4<sup>+</sup> 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.

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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.
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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.
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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.
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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.

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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.
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### SCIENTIFIC COMMENTARIES:

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Andrew Fraser's 10 research works with 128 citations and 220 reads, including: Imprisonment and women's health: Concerns about gender sensitivity, human rights and public health. Andrew Fraser's research while affiliated with UK Department of Health and other places. Publications (10). Source. Imprisonment and women's health: Concerns about gender sensitivity, human rights and public health. About Andrew Feenberg. News. Publications. Translations. Courses. Andrew Feenberg is Canada Research Chair in Philosophy of Technology in the School of Communication, Simon Fraser University, where he directs the Applied Communication and Technology Lab. He has also taught for many years in the Philosophy Department at San Diego State University, and at Duke University, the State University of New York at Buffalo, the Universities of California, San Diego and Irvine, the Sorbonne, the University of Paris-Dauphine, the Ecole des Hautes Etudes en Sciences Sociales, and the University of Tokyo and the University of Brasilia.