**Supplemental file 2: Some references for the use of Bayesian statistics in the physical/natural sciences not cited in text**

Adamina, M., G. Tomlinson and U. Guller

 2009 Bayesian Statistics in Oncology: A Guide for the Clinical Investigator. *Cancer* 115(23):5371–5381.

Beaumont, M. A. and B. Rannala

 2004 The Bayesian Revolution in Genetics. *Nature Reviews Genetics* 5:251–261.

Berliner, L. M., J. A. Royle, C. K. Wikle and R. F. Milliff

 1999 Bayesian Methods in the Atmospheric Sciences*.* In *Bayesian Statistics 6: Proceedings of the sixth Valencia international meeting, June 6–10, 1998*, edited by J. M. Bernardo, J. O. Berger, A. P. Dawid and A. F. M. Smith, pp. 83–100. Oxford University Press, Oxford.

Bouckaert, R., J. Heled, D. Kühnert, T. Vaughan, Chieh-Hsi Wu, D. Xie, M. Suchard, A. Rambaut and A. J. Drummond

 2014 BEAST 2: A Software Platform for Bayesian Evolutionary Analysis. *PLoS Computational Biology* 10(4):e1003537.

Brooks, S. P.

 2003 Bayesian Computation: A Statistical Revolution. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* 361(1813):2681–2697.

Drummond, A. J., M. A. Suchard, D. Xie and A. Rambaut

 2012 Bayesian Phylogenetics with Beauti and the BEAST 1.7. *Molecular Biology and Evolution* 29(8):1969–1973.

Dunson, David B.

 2001 Commentary: Practical Advantages of Bayesian Analysis of Epidemiologic Data. *American Journal of Epidemiology* 153(12):1222–1226.

Ellison, Aaron M.

 2004 Bayesian inference in ecology. *Ecology Letters* 7:50–520.

Gregory, P. C.

 2001 A Bayesian revolution in spectral analysis*.* In *IP conference proceedings*, edited by A. Mohammad-Djafari, pp. 557–568. Springer, Berlin, Germany.

 2007 *Bayesian Logical Data Analysis for the Physical Sciences*. Cambridge University Press, Cambridge.

Hibbert, D. B. and N. Armstrong

 2009 An introduction to Bayesian methods for analyzing chemistry data: Part II: A review of applications of Bayesian methods in chemistry. *Chemometrics and Intelligent Laboratory Systems* 97(2):211–220.

Huelsenbeck, John P., Fredrik Ronquist, Rasmus Nielsen and Jonathan P. Bollback

 2001 Bayesian Inference of Phylogeny and Its Impact on Evolutionary Biology. *Science* 294(5550):2310–2314.

Kruschke, J. K.

 2010 What to believe: Bayesian methods for data analysis. *Trends in Cognitive Sciences* 14(7):293–300.

Loredo, T. J.

 1992 The promise of Bayesian inference for astrophysics*.* In *Statistical Challenges in Modern Astronomy*, edited by E. D. Feigelson and G. J. Babu, pp. 275–297. Springer-Verlag, New York.

Mila, A. L. and A. L. Carriquiry

 2004 Bayesian Analysis in Plant Pathology. *Phytopathology* 94(9):1027–1030.

Musio, Monica, Nicole H. Augustin and Klaus von Wilpert

 2008 Geoadditive Bayesian models form forestry defoliation data: a case study. *Environmetrics* 19(6):630–642.

Nazir, Nageena, Athar Ali Khan, Sameera Shafi and Anjum Rashid

 2009 Bayesian Analysis of Hierarchical Models and its Application in Agriculture. *InterStat* (April).

Shoemaker, Jennifer S., Ian S. Painter and Bruce S. Weir

 1999 Bayesian statistics in genetics: a guide form the uninitiated. *Trends in Genetics* 15(9):354–358.

Wade, P. R.

 2000 Bayesian Methods in Conservation Biology. *Conservation Biology* 14(5):1308–1316.

Wilkinson, D. J.

 2007 Bayesian Methods in Bioinformatics and Computational Systems Biology. *Briefings in Bioinformatics* 8(2):109–116.