## Supplementary Material

## 1 Instructions for Matlab Code

MCMC samples for the Bayesian nonparametric regression model with normalized weights are obtained via the function NPRegNW.mat. This function calls several additional functions, which are all included in the NPRegNW.zip file. We have included the code for the example discussed in Section 5 in the file example.mat, which demonstrates how to call the function NPRegNW.mat.

Some of the additional functions may also be of interest on their own, particularly those which sample from truncated normal (tnormrnd.mat), gamma (tgamrnd.mat), and Dirichlet (tdirichletrnd.mat) distributions.

All code is commented. For any questions, comments, or concerns please contact the authors.

## 2 Acknowledgments for ADNI Data

Data collection and sharing for the application in Section 6 of this work was funded by the Alzheimer's Disease Neuroimaging Initiative (ADNI) (National Institutes of Health Grant U01 AG024904). ADNI is funded by the National Institute on Aging, the National Institute of Biomedical Imaging and Bioengineering, and through generous contributions from the following: Abbott; Alzheimer's Association; Alzheimer's Drug Discovery Foundation; Amorfix Life Sciences Ltd.; AstraZeneca; Bayer HealthCare; BioClinica, Inc.; Biogen Idec Inc.; Bristol-Myers Squibb Company; Eisai Inc.; Elan Pharmaceuticals Inc.; Eli Lilly and Company; F. Hoffmann-La Roche Ltd and its affiliated company Genentech, Inc.; GE Healthcare; Innogenetics, N.V.; Janssen Alzheimer Immunotherapy Research & Development, LLC.; Johnson & Johnson Pharmaceutical Research & Development LLC.; Medpace, Inc.; Merck &

Co., Inc.; Meso Scale Diagnostics, LLC.; Novartis Pharmaceuticals Corporation; Pfizer Inc.; Servier; Synarc Inc.; and Takeda Pharmaceutical Company. The Canadian Institutes of Health Research is providing funds to support ADNI clinical sites in Canada. Private sector contributions are facilitated by the Foundation for the National Institutes of Health (www.fnih.org). The grantee organization is the Northern California Institute for Research and Education, and the study is coordinated by the Alzheimer's Disease Cooperative Study at the University of California, San Diego. ADNI data are disseminated by the Laboratory for Neuro Imaging at theUniversity of California, Los Angeles. This research was also supported by NIH grants P30 AG010129, K01 AG030514, and the Dana Foundation.