

## Sylvia Richardson

### PUBLICATIONS (Journals, letters and discussion, books and chapters)

- 171 Leday GG, Vértés PE, **Richardson S**, Greene JR, Regan T, Khan S, Henderson R, Freeman TC, Pariente CM, Harrison NA, Perry VH.  
Replicable and coupled changes in innate and adaptive immune gene expression in two case-control studies of blood microarrays in major depressive disorder. *Biological Psychiatry*. 2017 Jul 6.
- 170 Petersen R, Lambourne JJ, Javierre BM, ....., Richardson S, ....., Turro E, Spivakov M, Astle WJ, Ouwehand W H, Downes K, Kostadima M & Frontini M.  
Platelet function is modified by common sequence variation in megakaryocyte super enhancers. *Nat Commun* **8**:16058 13 Jul 2017
- 169 D Greene, **S Richardson** and E Turro  
A fast test for identifying pathogenic variants involved in rare diseases, *American Journal of Human Genetics* **101(1)**, 104-114 (2017)
- 168 C.C. Drovandi, C. Holmes, J.M. McGree, K. Mengersen, **S. Richardson** and E.G. Ryan  
Principles of Experimental Design for Big Data Analysis, to appear in *Statistical Science* (2017)
- 167 D. Greene, E Turro and **S. Richardson**  
ontologyX: A suite of R packages for working with ontological data. *Bioinformatics*, advanced access, 2017 (5<sup>th</sup> January)
- 166 **S Richardson**, GC Tseng and W Sun  
Statistical Methods in Integrative Genomics. *Annual Review of Statistics and its Applications*, **3**: 181-209 (2016)
- 165 CA Vallejos, **S Richardson** and J. Marioni.  
Beyond comparisons of means: understanding changes in gene expression at the single-cell level. *Genome Biology*, 17:70, (2016). DOI: 10.1186/s13059-016-0930-3
- 164 JE Peters, PA Lyons, JC Lee, AC Richard, MD Fortune, PJ Newcombe, **S Richardson** and KG Smith  
Insight into Genotype-Phenotype Associations through eQTL Mapping in Multiple Cell Types in Health and Immune-Mediated Disease. *PLoS Genetics* 12(3):e1005908 (2016)
- 163 M. Papathomas and **S Richardson**.  
Exploring dependence between categorical variables: Benefits and limitations of using variable selection within Bayesian clustering in relation to log-linear modelling with interaction terms. *Journal of Statistical Planning and Inference*, 173:47-63, (2016).
- 162 Liquet B., Bottolo L., Campanella G., **Richardson S.** and Chadeau-Hyam, M.

R2GUESS: A Graphics Processing Unit-Based R Package for Bayesian Variable Selection Regression of Multivariate Responses. *Journal of Statistical Software*, 69 (2), (2016).  
[10.18637/jss.v069.i02](https://doi.org/10.18637/jss.v069.i02)

161 Mattei, F., ..., **Richardson S** and Stucker I.  
Multidimensional analysis of the effect of occupational exposure to organic solvents on lung cancer risk: the ICARE study. *Occupational and Environmental Medicine*. doi:10.1136/oemed-2015-103177(2016)

160 Turro, E., Greene, D., ..., **Richardson S.**, Freson K. and Ouwehand W.  
A dominant gain-of-function mutation in universal tyrosine kinase SRC causes thrombocytopenia, myelofibrosis, bleeding, and bone pathologies. *Science translational medicine*, 8(328), (2016).

159 Stritt, S., Nurden, P., Turro, E., Greene, D.,... , **Richardson S.**, Freson K., Ouwehand W. and Mumford M (2016). A gain-of-function variant in DIAPH1 causes dominant macrothrombocytopenia and hearing loss. *Blood*, (February 24, 2016)  
<http://dx.doi.org/10.1182/blood-2015-10-675629>

158 Greene, D., Richardson, S., Turro, E. and BioResource, N.I.H.R., 2016.  
Phenotype similarity regression for identifying the genetic determinants of rare diseases. *The American Journal of Human Genetics*, 98(3), pp.490-499.

157 Newcombe PJ, Conti DV, **Richardson S**  
JAM: A scalable Bayesian framework for joint analysis of marginal SNP effects. *Genetic Epidemiology* 40(3), 188-201, (2016).

156 Lewin A, Saadi H, Peters JE, Moreno-Moral A, Lee JC, Smith KG, Petretto E, Bottolo L & **Richardson S**.  
MT-HESS: an efficient Bayesian approach for simultaneous association detection in OMICS datasets, with application to eQTL mapping in multiple tissues. *Bioinformatics* (2016) doi: 10.1093/bioinformatics/btv568

155 Papageorgiou G, **Richardson S** & Best N.  
Bayesian non-parametric models for spatially indexed data of mixed type. *Journal of the Royal Statistical Society Series B*, 77(5):973-999. (2015) <http://dx.doi.org/10.1111/rssb.12097>

154 Chong HP, Cordeaux Y, Ranjan YS, **Richardson S**, **Liquet B**, Smith GC & Charnock-Jones DS.  
Age-related changes in murine myometrial transcript profile are mediated by exposure to the female sex hormones. *Aging Cell*. 2015;10.1111/ace1.12406:n/a-n/a.  
<http://www.ncbi.nlm.nih.gov/pubmed/26490259>

153 Liverani, S., Hastie, D. I., Azizi, L., Papatomas, M., & **Richardson, S**.  
PREmMiuM: An R Package for Profile Regression Mixture Models Using Dirichlet Processes. *Journal of Statistical Software*, 64(7), 1-30, (2015).

152. Vallejos, C. A., Marioni, J. C., & **Richardson, S.**  
BASiCS: Bayesian analysis of single-cell sequencing data. *PLoS computational biology*, *11*(6), p.e1004333. (2015)
151. C Wallace, ...**S Richardson**, Antony J Cutler, Linda S Wicker.  
Dissection of a Complex Disease Susceptibility Region Using a Bayesian Stochastic Search Approach to Fine Mapping. *PLoGenetics*, (2015) DOI: 10.1371 / journal.pgen.1005272
150. S Geneletti, AG O'Keeffe, LD Sharples, **S Richardson**, and G Baio, G.  
Bayesian regression discontinuity designs: incorporating clinical knowledge in the causal analysis of primary care data. *Statistics in Medicine*. (2015), doi: 10.1002/sim.6486
149. SK Westbury, E Turro, D Greene, ... & WH Ouwehand, **S Richardson**, AD Mumford & K Freson.  
Human phenotype ontology annotation and cluster analysis to unravel genetic defects in 707 cases with unexplained bleeding and platelet disorders. *Genome Medicine*, *7*(1), 36, (2015)
148. JB Pettit, R Tomer, K Achim, **S Richardson**, L Azizi & J Marioni.  
Identifying cell types from spatially referenced single-cell expression datasets. *PLoS computational biology*. 2014;**10**(9):e1003824.
147. L Chen, M Kostadima, J H.A. Martens, G Canu, 56 authors, **S Richardson**, A Cvejic, N Soranzo, W H Ouwehand, H G Stunnenberg, M Frontini & A Rendon.  
Transcriptional diversity during lineage commitment of human blood progenitors. *Science* (26 September 2014).
146. J Molitor, I Brown, Q Chan, M Papatomas, S Liverani, NT Molitor, **S Richardson**, L Van Horn, M Daviglus, A Dyer, J Stamler, & P Elliott  
Blood pressure differences associated with Optimum Macronutrient Intake Trial for Heart Health (OMNIHEART)-like diet compared with a typical American diet. *Hypertension* (8 September 2014)
145. PJ Newcombe, H Raza Ali, FM Blows, E Provenzano, PD Pharoah, C Caldas, ..., & **S Richardson**  
Weibull regression with Bayesian variable selection to identify prognostic tumour markers of breast cancer survival. *Statistics Methods in Medical Research*, (4 September 2014).
144. T Truong, B Liquef, F Menegaux, S Plancoulaine, P Laurent-Puig, C Mulot, E. Cordina-Duverger, M Sanchez, P Arveux, P Kerbrat, **S Richardson** & P Guenel  
Breast cancer risk, nightwork, and circadian clock gene polymorphisms. *Endocrine-Related Cancer* **21**, 629–638, (2014)
143. DI Hastie, S Liverani & **S Richardson**  
Sampling from Dirichlet process mixture models with unknown concentration parameters: mixing issues in large data implementations. *Statistics and Computing*, (May 2014).  
DOI 10.1007/s11222-014-9471-3

142. M Chadeau-Hyam, P Tubert-Bitter, C Guihenneuc-Jouyaux, G Campanella, **S Richardson**, R Vermeulen, M De Iorio, S Galea, & P Vineis  
Dynamics of the risk of smoking-induced lung cancer: a compartmental hidden Markov models for longitudinal analysis. *Epidemiology*, **25**(1):28-34 (2014)
141. DI Hastie, S Liverani, L Azizi, **S Richardson** and I Stucker  
A semi-parametric approach to estimate risk functions associated with multidimensional exposure profiles: application to smoking and lung cancer. *BMC Medical Research Methodology*, **13**(1):129. (23 Oct 2013)
140. AL Hansell, M Blangiardo, L Fortunato, coll. & **S Richardson**, P Elliott.  
Aircraft noise and cardiovascular disease near London Heathrow Airport. *British Medical Journal*, **347**, f5432, (2013)
139. L Bottolo, M Chadeau-Hyam, coll. & **S Richardson**.  
GUESS-ing polygenic associations with multiple phenotypes using a GPU-based Evolutionary Stochastic Search algorithm. *PLoS Genetics*, **9**(8), e1003657, (2013)
138. P Kirk, A Witkover, CRM Bangham, **S Richardson**, AM Lewin, MPH Stumpf  
Balancing the Robustness and Predictive Performance of Biomarkers, *Journal of Computational Biology*, **20**(10): 1-11 (2013)
137. S Geneletti, N Best, MB Toledano, P Elliott & **S Richardson**.  
Uncovering selection bias in case-control studies using Bayesian post-stratification. *Statistics in Medicine*, **32**(15), 2555-2570 (2013)
136. G Li, R Haining, **S Richardson** & N Best  
Evaluating the No Cold Calling zones in Peterborough, England: application of a novel statistical method for evaluating neighbourhood policing policies. *Environment and Planning A*. **45**(8): 2012-2026 (2013)
135. W Astle, M De Iorio, **S Richardson**, D Stephens & T Ebbels.  
A Bayesian Model of NMR Spectra for the Deconvolution and Quantification of Metabolites in Complex Biological Mixtures. *Journal of the American Statistical Association*. **107**(500), 1259-1271 (2012).
134. L McCandless; **S Richardson**; N Best.  
Adjustment for Missing Confounders Using External Validation Data and Propensity Scores. *Journal of the American Statistical Association*. **107**:40-51 (2012)
133. M Papatomas, J Molitor; C Hoggart; D Hastie; **S Richardson**.  
Exploring Data From Genetic Association Studies Using Bayesian Variable Selection and the Dirichlet Process: Application to Searching for Gene  $\times$  Gene Patterns. *Genetic Epidemiology*. **36**:663-674 (2012)
132. S Ancelet; JJ Abellan; VJ Del Rio Vilas; C Birch; **S Richardson**.

Bayesian shared spatial-component models to combine and borrow strength across sparse disease surveillance sources. *Biometrical Journal*. 54:385-404 (2012)

131. C Petit, M Blangiardo, **S Richardson**, F Coquet, C Chevrier, S Cordier  
Association of Environmental Insecticide Exposure and Fetal Growth With a Bayesian Model Including Multiple Exposure Sources: The PELAGIE Mother-Child Cohort.  
*Am J Epidemiol* 175 (11): 1182-1190 (2012)

130. A Mason, **S Richardson**, I Plewis, and N Best.  
Strategy for modelling non-random missing data mechanisms in observational studies using Bayesian methods.  
*Journal of Official Statistics* 28(2):279-302 (2012)

129. D Ginestet, N Best and **S Richardson**  
Classification Loss Function for Parameter Ensembles in Bayesian Hierarchical Models.  
*Statistics and Probability Letters*, 82(4): 859-863 (2012).

128. G Li; N Best; AL Hansell; I Ahmed; **S Richardson**.  
BaySTDetect: detecting unusual temporal patterns in small area data via Bayesian model choice.  
*Biostatistics* 13 (4): 695-710 (2012)

127. A Mason, **S Richardson** and N Best.  
Two-pronged Strategy for Using DIC to Compare Selection Models with Non-Ignorable Missing Responses.  
*Bayesian Analysis*, 7(1): 109-146 (2012)

126. LC McCandless; P Gustafson; AR Levy; **S Richardson**.  
Hierarchical priors for bias parameters in Bayesian sensitivity analysis for unmeasured confounding.  
*Statistics in Medicine*. 31:383-396 (2012)

125. SJ Clark; M Falchi; B Olsson; P Jacobson; S Cauchi; B Balkau; M Marre; O Lantieri; JC Andersson; M Jernås; TJ Aitman ; **S Richardson**; L Sjöström; HY Wong; LM Carlsson; P Froguel; AJ Walley  
Association of sirtuin 1 (SIRT1) gene SNPs and transcript expression levels with severe obesity.  
*Obesity (Silver Spring)*. 20:178-185 (2012)

124. AJ Walley, P Jacobson, M Falchi, L Bottolo, JC Andersson, E. Petretto, A Bonnefond, E Vaillant, C Lecoeur, V Vatin, M Jernas, D Balding, M Petteni, YS Park, T Aitman, **S Richardson**, L Sjöstrom, LMS Carlsson and P Froguel.  
Differential co-expression analysis of obesity-associated networks in human subcutaneous adipose tissue.  
*International Journal of Obesity*, 36:137-147 (2012)

123. I Ahmed, AL Hartikainen, MJ Jarvelin, and **S Richardson**.

False Discovery Rate estimation for Stability Selection: Application to Genome-Wide association studies.

*Statistical Applications in Genetics and Molecular Biology*. **10(1)**, 1544-6115 (2011)

122. L Bottolo; E Petretto; S Blankenberg; F Cambien; SA Cook; L Tiret; **S Richardson**. Bayesian detection of expression quantitative trait loci hot spots.

*Genetics*. **189**:1449-1459 (2011)

121. J Molitor; JG Su ; NT Molitor; VG Rubio; **S Richardson**; D Hastie; R Morello-Frosch; M Jerrett.

Identifying vulnerable populations through an examination of the association between multipollutant profiles and poverty.

*Environ Sci Technol*. **45**:7754-7760 (2011)

120. PD Kirk, A Witkover, A Courtney, AM Lewin, R Wait, MP Stumpf, **S Richardson**, GP Taylor, CR Bangham.

Plasma proteome analysis in HTLV-1-associated myelopathy/tropical spastic paraparesis. *Retrovirology*. 2011 Oct 12; 8:81.

119. AA Brown; **S. Richardson**; J. Whittaker.

Application of the Lasso to Expression Quantitative Trait Loci Mapping.

*Statistical Applications in Genetics and Molecular Biology*, **10**.(2011)

118. L. Bottolo, M. Chadeau-Hyam, D.I. Hastie, S.R. Langley, E. Petretto, L. Tiret, D.Tregouet and **S. Richardson**..

ESS++: a C++ objected-oriented algorithm for Bayesian stochastic search model exploration, *Bioinformatics* , **27**: 587-588 (2011).

117. E. Turro, S-Y. Su , A. Goncalves , L.J.M. Coin, **S. Richardson**, A. Lewin.

Haplotype and isoform specic expression estimation using multi-mapping RNA-seq reads.

*Genome Biology*, **12**:R13 , (2011).

116. L Fortunato; JJ Abellan; L Beale; S LeFevre; **S Richardson**.

Spatio-temporal patterns of bladder cancer incidence in Utah (1973-2004) and their association with the presence of toxic release inventory sites.

*Int J Health Geogr*. 10:16, (2011)

115. M. Blangiardo, **S. Richardson**, A. Hansell and J. Gulliver

A Bayesian analysis of the impact of air pollution episodes on cardio-respiratory hospital admissions in the Greater London area,

*Statistical Methods in Medical Research*. **20**:69-80 (2011)

114. M. Blangiardo, A. Hansell and **S. Richardson**

A Bayesian model of time activity data to investigate health effect of air pollution in time series studies.

*Atmospheric Environment* **45(2)**, 379-386 (2011)

113. VJ Del Rio Vilas VJ, S Ancelet S, J.J Abellan JJ, C.P. Birch CP and **S. Richardson**  
A Bayesian hierarchical analysis to compare classical and atypical scrapie surveillance data;  
Wales 2002-2006.  
*Prev Vet Med* **98**: 29-36 (2011)
112. M. Papathomas, J. Molitor, **S. Richardson**, E. Riboli and P. Vineis  
Examining the joint effect of multiple risk factors using exposure risk profiles: lung cancer in  
non smokers.  
*Environmental Health Perspectives*. **119**: 84-91 (2011)
111. L. Bottolo and **S. Richardson**. (2010)  
Evolutionary Stochastic Search for Bayesian model exploration.  
*Bayesian Analysis*, **5(3)**, 583--618.
110. M. Blangiardo, A. Cassese and **S. Richardson**  
Sdef: an R package to synthesize lists of significant features in related experiments. *BMC  
Bioinformatics*. **11**:270doi:10.1186/1471-2105-11-270, (2010)
109. E. Petretto, L. Bottolo, S.R. Langley, M. Heining, C. McDermott-Roe, R. Sarwar, M.  
Pravenec, N. Hübner, T. J. Aitman, S. A. Cook, **S. Richardson**.  
New Insights into the Genetic Control of Gene Expression using a Bayesian Multi-tissue  
Approach.  
*PLoS Comput Biol* **6(4)**: e1000737, (2010)
108. R. Haining, G.Q. Li, R. Maheswaran, M. Blangiardo, J. Law, **S. Richardson** & N. Best  
Inference from ecological models: estimating the relative risk of stroke from air pollution  
exposure using small area data.  
*Spatial and Spatio-temporal Epidemiology*,**1**:123-131, (2010)
107. J. T. Molitor, M. Papathomas, M. Jerrett and **S. Richardson**.  
Bayesian Profile Regression with an Application to the National Survey of Children's Health,  
*Biostatistics* **11**, 484-498, (2010)
106. A.J. W. Paige, M. Zucknick, S. Janczar, J. Paul, C. A. Mein, K. J. Taylor, M. Stewart, C.  
Gourley, **S. Richardson**, T. Perren, T. S. Ganesan, J.F. Smyth, R. Brown, F. Balkwill, and H.  
Gabra  
WWOX Tumour Suppressor Gene Polymorphisms and Ovarian Cancer Pathology and  
Prognosis,  
*European Journal of Cancer*;**46(4)**: 818-25 (2010).
105. P Gustafson, L.C Mc Candless, A.R. Levy and **S. Richardson**  
Simplified Bayesian sensitivity analysis for mismeasured and unobserved  
confounders,  
*Biometrics*, **66(4)**, 1129-1137, (2010).
104. E Turro; A Lewin; A Rose; MJ Dallman; **S Richardson**.

MMBGX: a method for estimating expression at the isoform level and detecting differential splicing using whole-transcript Affymetrix arrays.

*Nucleic Acids Res.* **38**:e4-e4 (2010)

103. P. Broet, P. Tan, M Alifano, S. Camilleri-Broet, and **S Richardson**

Finding exclusively deleted or amplified genomic areas in lung adenocarcinomas using a novel chromosomal pattern analysis.

*BMC Medical Genomics*, **2**:43 (2009).

102. **S. Richardson** and C. Guihenneuc-Jouyaux

Impact of Cliff and Ord (1969, 1981) on Spatial Epidemiology

*Geographical Analysis*, **41**(4): 444-451 (2009).

101. S Gorla; C Daniau; P de Crouy-Chanel; P Empereur-Bissonnet; P Fabre; M Colonna; C Duboudin; JF Viel; **S Richardson**.

Risk of cancer in the vicinity of municipal solid waste incinerators: importance of using a flexible modelling strategy.

*Int J Health Geographics*. **8**, (2009)

100. O Ratmann; C Andrieu; C Wiuf; **S Richardson**.

Model criticism based on likelihood-free inference, with an application to protein network evolution.

*Proc Natl Acad Sci U S A.* **106**:10576-10581, (2009)

99. NT Molitor; N Best; C Jackson; **S Richardson**.

Using Bayesian graphical models to model biases in observational studies and to combine multiple sources of data: application to low birth weight and water disinfection by-products.

*Journal of the Royal Statistical Society, Series A: Statistics In Society*, **172**:615-637 (2009).

98. S. Geneletti, N. Best and **S. Richardson**. (2009)

Adjusting for selection bias in retrospective case control studies.

*Biostatistics*, **10**(1):17-31.

97. P. Elliott, **S. Richardson**, J. J. Abellan, A. Thomson, D. Briggs, C. de Hoogh, L. Jarup. (2009).

Geographic density of landfill sites and risk of congenital anomalies in England.

*Occupational and Environmental Medicine*: **66**:81-89.

96. C. Jackson, N. Best and **S. Richardson**. (2009)

Bayesian graphical models for regression on multiple datasets with different variables

*Biostatistics*; **10**(2):335-351.

95. M Blangiardo and **S Richardson**. (2008)

A Bayesian calibration model for combining different pre-processing methods in Affymetrix chips.

*BMC Bioinformatics*, **9**:512.



- 94 C. Jackson, **S. Richardson** and N. Best. (2008)  
Studying place effects on health by synthesising individual and area-level outcomes  
*Social Science & Medicine*, **67**: 1995-2006.
93. J.J. Abellan, **S. Richardson** and N. Best. (2008).  
Use of Space-time Models to Investigate the Stability of Patterns of Disease  
*Environ Health Perspect.* **116**:1111–1119.
92. M. Zucknick, **S. Richardson** and E. A. Stronach. (2008).  
Comparing the Characteristics of Gene Expression Profiles Derived by Univariate and  
Multivariate Classification Methods,  
*Statistical Applications in Genetics and Molecular Biology*, **7 (1)**, Article 7.
91. C. Jackson, N. Best and S. Richardson. (2008).  
Hierarchical related regression for combining aggregate and individual data in studies of  
socio-economic disease risk factors.  
*Journal of the Royal Statistical Society, Series A: Statistics In Society*, **171(1)**:1-20.
90. Lewin, N. Bochkina and **S. Richardson**. (2007)  
Fully Bayesian Mixture Model for Differential Gene Expression: Simulations and Model  
Checks,  
*Statistical Applications in Genetics and Molecular Biology*, **6(1)**, Article 36.
89. L. Jarup, S. Morris, **S. Richardson**, D. Briggs, N. Cobley, C. de Hoogh, K. Gorog, P. Elliott.  
(2007)  
Down syndrome in births near landfill sites.  
*Prenatal Diagnosis*, **27**:1191-1196.
88. J.J. Abellan, D. Fecht, N. Best, **S. Richardson**, DJ. Briggs. (2007).  
Bayesian analysis of the multivariate geographical distribution of the socio-economic  
environment in England.  
*Environmetrics*,**18(7)**: 745-758.
87. O. Ratmann, O. Jorgensen, T. Hinkley, M. P.H. Stumpf, **S. Richardson**, C. Wiuf. (2007).  
Using Likelihood-Free Inference to Compare Evolutionary Dynamics of the Protein Networks  
of *H.pylori* and *P.falciparum*.  
*PLoS Computational Biology*, **3(11)**: e230.
86. E Turro, N. Bochkina, A-M K Hein and **S. Richardson**. (2007).  
BGX: a Bioconductor package for the Bayesian integrated analysis of Affymetrix GeneChips  
*BMC Bioinformatics* **8**:439.
85. S. J. Barton, **S. Richardson**, D. N. Perkins, I. Bellahn, T. N. Bryant, J. C. Whittaker. (2007).  
Using Statistical Models to Identify Factors that have a Role in Defining the Abundance of  
Ions Produced by Tandem MS.  
*Analytical Chemistry*; **79(15)**:5601-5607.

84. M. Blangiardo and **S. Richardson**. (2007)  
Statistical tools for synthesizing lists of differentially expressed features in related experiments.  
*Genome Biology*, **8**, R54.
83. N. Bochkina and **S. Richardson**. (2007)  
Tail posterior probability for inference in pairwise and multiclass gene expression data.  
*Biometrics*, **63** (4), 1117–1125.
82. P.O. Schischmanoff, J-M. Naccache, A. Carrere, **S. Richardson**, M. Kambouchner, M. Raphae, D. Valeyre, R. Fagard. (2006)  
Progressive pulmonary Sarcoidosis is associated with over-expression of TYK2 and p21Waf1/Cip1.  
*Sarcoidosis Vasculitis and Diffuse Lung Diseases*; **23**(2):101-7.
81. **S. Richardson**, J-J. Abellan and N. Best. (2006)  
Bayesian spatio-temporal analysis of joint patterns of male and female lung cancer risks in Yorkshire (UK).  
*Statistical Methods in Medical Research*, **15**: 385-407.
80. C. Jackson, N. Best and **S. Richardson**. (2006)  
Improving ecological inference using individual-level data.  
*Statistics in Medicine*, **25**: 2136-2159.
79. S. Parry, D. Hadaschik, C. Blancher, M.K. Kumaran, N. Bochkina, H.R. Morris, **S. Richardson**, T.J. Aitman, D. Gauguier, K. Siddle et al. (2006)  
Glycomics investigation into insulin action.  
*Biochim Biophys Acta*, **1760**: 652-668.
78. AM. Hein and S Richardson. (2006)  
A powerful method for detecting differentially expressed genes from GenChip arrays that does not require replicates.  
*BMC Bioinformatics* **7**: 353.
77. P. Broët and **S. Richardson**. (2006)  
Detection of gene copy number changes in CGH microarrays using a spatially correlated mixture model.  
*Bioinformatics*, **22**: 911-918.
76. A. Lewin, **S Richardson**, C Marshall, A. Glazier and T Aitman. , (2006)  
Bayesian modelling of differential gene expression.  
*Biometrics*, **62**:1-9.
75. AM. Hein, **S Richardson**, H Causton, G Ambler and PJ Green. (2005).  
BGX: a fully Bayesian gene expression index for Affymetrix GeneChip data.  
*Biostatistics*, **6**(3): 349-373.

74. N. Best, **S. Richardson** and A.Thompson. (2005).  
A comparison of Bayesian spatial models for disease mapping.  
*Statistical Methods in Medical Research*, **14**:35-59.
73. J. Bennett; MP Little, **S. Richardson**. (2004).  
Flexible dose-response models for Japanese atomic bomb survivor data: Bayesian estimation and prediction of cancer risk.  
*Radiat Environ Biophys*, **43**(4) :233-45.
72. AL. Hansell, KA Lam, **S. Richardson**, G. Visick G and JB Soriano. (2004).  
Medical event profiling of COPD patients.  
*Pharmacoepidemiology and Drug safety*, **13** (8):547-55.
71. P. Broët, A. Lewin, **S. Richardson**, and C. Dalmasso. (2004).  
A mixture model-based strategy for selecting sets of genes in multiclass response microarray experiments.  
*Bioinformatics*, **20**(16): 2562-71.
70. S. Seaman and **S. Richardson** (2004).  
Equivalence of prospective and retrospective models in the Bayesian analysis of case-control studies.  
*Biometrika*, **91**: 15-25.
69. N. Cressie, **S. Richardson** and I. Jaussent (2004).  
Ecological bias: use of maximum- entropy approximations.  
*Australian and New Zealand Journal of Statistics*, **46**: 233-255.
68. **S. Richardson**, A. Thomson, N. Best and P. Elliott (2004).  
Interpreting posterior relative risk estimates in disease mapping studies.  
*Environmental Health Perspectives*, **112**: 1016-25.
67. L. Knorr-Held L and **S. Richardson** (2003).  
A hierarchical model for space-time surveillance data on meningococcal disease incidence.  
*Journal of the Royal Statistical Society, Series C (Applied Statistics)*, **52**: 169-183.
66. **S. Richardson** and N. Best. (2003)  
Bayesian hierarchical models in ecological studies of health-environment effects.  
*Environmetrics*, **14**: 129-147.
- 65 P.J. Green and **S. Richardson** (2002).  
Hidden Markov models and disease mapping.  
*Journal of the American Statistical Association*, **97**: 1055-1070.
64. **S. Richardson**; V. Viallefont; PJ. Green; (2002)  
Bayesian analysis of Poisson mixtures  
*J Nonparametric Stats*, **14**,181-202.

63. P. Broët, **S. Richardson** and F. Radvanyi (2002).  
Bayesian hierarchical model for identifying changes in gene expression from microarray experiments.  
*Journal of Computational Biology*, **9**: 671-683.
62. **S. Richardson**, L. Leblond, I. Jaussent and P.J. Green. (2002).  
Mixture models in measurement error problems, with reference to epidemiological studies.  
*Journal of the Royal Statistical Society, Series A*, **165**: 549-566.
61. L. Jarup; D. Briggs; C. de Hoogh; S. Morris; C. Hurt; A. Lewin; I. Maitland; **S. Richardson**;  
J. Wakefield; P. Elliott. (2002).  
Cancer risks in populations living near landfill sites in Great Britain.  
*British Journal of Cancer* **86**(11) : 1732-6.
60. S.R. Seaman, **S. Richardson**, I. Stücker and S. Benhamou. (2002).  
A Bayesian partition model for case-control studies on highly polymorphic candidate genes.  
*Genetic Epidemiology*, **22**: 356-368.
59. P. Elliott; D. Briggs; S. Morris; C. de Hoogh; C. Hurt; TK Jensen; I. Maitland; **S. Richardson**;  
Wakefield J; Jarup L. (2001)  
Risk of adverse birth outcomes in populations living near landfill sites.  
*British Medical Journal*, **323** (7309), 363-8.
58. S.R. Seaman and **S. Richardson** (2001)  
Bayesian analysis of case-control studies with categorical covariates.  
*Biometrika*, **88**: 1073-1088.
57. V Viallefont, AE Raftery and S Richardson. (2001)  
Variable selection and Bayesian model averaging in case-control studies.  
*Statistics in Medicine*, **20**: 3215-3230,
56. P.J. Green, **S. Richardson**. (2001)  
Modelling heterogeneity with and without the Dirichlet process.  
*Scandinavian Journal of Statistics*, **28**, 355-375,
55. M.P. Little, I. Deltour, **S. Richardson**. (2000)  
Projection of cancer risks from the Japanese atomic bomb survivors to the England and Wales population taking into account uncertainty in risk parameters.  
*Radiat Environ Biophys*, **39**, 241-252,
54. **S. Richardson**. (2000)  
Problèmes méthodologiques dans les études écologiques santé-environnement.  
*Les Comptes-Rendus de l'Académie des Sciences (CRAS) Paris, Sciences de la Vie*, **323**, 1-6.
53. S. Cordier, C. Monfort, L. Miossec, **S. Richardson**, C. Belin. (2000)  
Ecological analysis of digestive cancer mortality related to contamination by diarrhetic shellfish poisoning toxins along the coasts of France,

*Environmental Research*, Section A, **84**, 145-150.

52. C. Pascutto, J. Wakefield, N. Best, L. Bernardinelli, P. Elliott, **S. Richardson**, A. Staines. (2000).

Statistical issues in the analysis of disease mapping data.  
*Statistics in Medicine*, **19**, 2493-2515.

51. V. Lasserre, C. Guihenneuc-Jouyau, **S. Richardson**. (2000).

Biases in ecological studies : utility of including within-area distribution of confounders.  
*Statistics in Medicine*, **19**, 45-59.

50. C. Guihenneuc-Jouyau, **S. Richardson**, I.M. Longini.

Modelling markers of disease progression by a hidden Markov process : application to characterising CD4 cells decline.  
*Biometrics*, **56**, 733-74.

49. I Deltour, **S. Richardson**, JY Le Hesran. (1999).

Stochastic algorithms for Markov models estimation with intermittent missing data.  
*Biometrics*, **55**, 565-573.

48. C. Chouquet, **S. Richardson**, M. Burgard, S. Blanche, M.J. Mayaux, C. Rouzioux, D. Costagliola. (1999).

Timing of Human Immunodeficiency Virus Type 1 (HIV-1) transmission from mother to child ; Bayesian estimation using a mixture.  
*Statistics in Medicine*, **18**, 815-833.

47. L. Watier, **S. Richardson**, D. Hémon. (1997)

Accounting for pregnancy dependence in epidemiological studies of reproductive outcomes.  
*Epidemiology* **8**, 629-636.

46. Ruffié, N. Delasnerie-Lauprêtre, J.P. Brandel, I. Jausset, D. Dormont, JL. Laplanche, JJ. Hauw, **S. Richardson**, A. Alperovitch. (1997).

Incidence de la maladie de Creutzfeldt-Jakob en France, 1992-1995.  
*Rev. Epidém. et Santé Publ.*, **45**, 448-453.

45. Garcia, J. Maccario, **S. Richardson**. (1997).

Modelling of the annual risk of tuberculosis infection.  
*International Journal of Epidemiology* 26(1), 190-203

44. D. Lévy-Bruhl, J. Maccario, **S. Richardson**, N. Guérin. (1997).

Modélisation de la rougeole en France et conséquences pour l'âge d'administration de la seconde vaccination rougeole-oreillons-rubéole.  
*Bulletin Epidémiologique Hebdomadaire* **29**, 133-136.

43. D. Thomas, **S. Richardson**, J. Gauderman and J. Pitkaniemi. (1997).

A Bayesian approach to multipoint mapping in nuclear families.  
*Genetic Epidemiology*, **14**, 903-908.

42. **S. Richardson**, L. Leblond. (1997).  
Some comments on misspecification of priors in Bayesian modelling of measurement error problems.  
*Statistics in Medicine* **16**, 203-213.
41. **S. Richardson**, P.J. Green. (1997).  
On Bayesian analysis of mixtures with an unknown number of components (with discussion).  
*Journal of the Royal Statistical Society, Series B*, **59**, 731-792.
40. **S. Richardson**. (1996).  
Développements récents de la biostatistique.  
*Revue d'Epidémiologie et de Santé Publique*, **44**, 482-493.
39. **S. Richardson**, C. Monfort, M. Green, G. Draper, C. Muirhead. (1995).  
Spatial variation of natural radiation and childhood leukaemia incidence in the United-Kingdom.  
*Statistics in Medicine* **14**, 2487-2501.
38. L. Watier, **S. Richardson**. (1995).  
Modelling of an epidemiological time series by a threshold autoregressive model (SETAR).  
*The Statistician* **44**, 3, 353-364
37. Richard, **S. Richardson**, J. Maccario. (1993).  
A 3-state Markov model for plasmodium falciparum parasitaemia.  
*Mathematical Biosciences*, **117**, 283-300.
36. M. Ferraroni, M. Gerber, A. Decarli, **S. Richardson**, et al. (1993).  
HDL-cholesterol and breast cancer.  
*International Journal of Epidemiology* **22**, 772-780.
35. J.F. Viel, **S. Richardson**, P. Danel, P. Boutard, P. Malet, P. Barrelier, O. Reman, A. Carre. (1993)  
Childhood leukemia incidence near La Hague nuclear waste reprocessing facility.  
*Cancer Causes and Control*, **4**, 341-343.
34. L. Watier, **S. Richardson**, B. Hubert. (1993).  
Salmonella enteritidis in France and in the U.S. : characterisation by a deterministic model.  
*American Journal of Public Health* **83**, 1694-1700.
33. J.F. Viel, **S. Richardson**. (1993).  
Lymphoma and leukemia among French farmers in relation to pesticide exposure.  
*Social Sciences and Medicine* **37** (6), 771-777.
32. **S. Richardson**, W.R. Gilks. (1993).  
A conditional independence approach to covariate measurement error.

*Statistics in Medicine*, **12**, 1703-1722.

31. **S. Richardson**, W.R. Gilks. (1993).

A Bayesian approach to measurement error problems in epidemiology using conditional independence models.

*American Journal of Epidemiology*, **138**, 430-442.

30. P. Diggle, **S. Richardson**. (1993).

Epidemiological studies of industrial pollutants : an introduction.

*International Statistical Review*, **61**, 203-206.

29. Hubert, L. Watier, P. Garnerin, **S. Richardson**. (1992).

Meningococcal disease and influenza-like syndrome : a new approach to an old question.

*The Journal of Infectious Diseases*, **166**, 542-545.

28. **S. Richardson**, R. Zittoun, S. Bastuji-Garin, V. Lasserre, C. Guihenneuc, M. Cadiou, F. Viguié, I. Laffont-Faust. (1992).

Occupational risk factors for acute leukaemia : a case-control study.

*International Journal of Epidemiology*, **21**(6), 1063-1073.

27. **S. Richardson**. (1992).

Modélisation statistique des variations géographiques en épidémiologie.

*Revue d'Epidémiologie et de Santé Publique* **40**, 33-45.

26. W.R Gilks, **S. Richardson**. (1992).

Analysis of disease risks using ancillary risk factors with application to job-exposure matrices.

*Statistics in Medicine*, **11**, 1443-1463.

25. Mollié, **S. Richardson**. (1991).

Empirical Bayes estimates of cancer mortality rates using spatial models.

*Statistics in Medicine* **10**, 95-112.

24. L. Watier, **S. Richardson**, B. Hubert. (1991).

A time series construction of an alert threshold with application to *Salmonella* bovis morbificans in France.

*Statistics in Medicine*, **10**, 1493-1509.

23. C. Ségala, M. Gerber, **S. Richardson**. (1991).

The pattern of risk factors for breast cancer in a Southern France population. Interest for a stratified analysis by age at diagnosis.

*British Journal of Cancer* ,**64**, 919-925

22. F. Cavallo, M. Gerber, **S. Richardson**, et al. (1991).

Zinc and Copper in breast cancer. A joint study in Northern Italy and Southern France.

*Cancer* **67**(3,) 738-745.

21. M. Gerber, **S. Richardson**, R. Salkeld, P. Chappuis. (1991).

Anti-oxidants in breast cancer female patients.  
*Cancer Investigation* **9**(4), 421-428.

20. **S. Richardson**, M. Gerber, S. C  n  e. (1991).

The role of fat, animal protein and some vitamin consumption in breast cancer : a case-control study in Southern France.

*International Journal of Cancer* **48**, 1-9.

19. J.F. Viel, **S. Richardson** (1991).

Adult leukemia and farm practices : an alternative approach for assessing geographical pesticide exposure.

*Social Science and Medicine* **32** (9), 1067-1073.

18. **S. Richardson**, C. Guihenneuc, V. Lasserre. (1991).

Spatial linear models with autocorrelated error structure.

*The Statistician* **41**,539-557

17. S. Bastuji-Garin, **S. Richardson**, R. Zittoun. (1990).

Acute leukaemia in workers exposed to electromagnetic fields.

*European Journal of Cancer.* **26**, 11/12, 1119-1120

16. J.F. Viel, **S. Richardson** (1990).

Childhood leukemia around the French nuclear waste reprocessing plant (La Hague). *British Medical Journal*, **300**, 580-581.

15. M. Gerber, **S. Richardson**, F. Cavallo, E. Marubini, P. Crastes de Paulet, A. Crastes de Paulet, H. Pujol. (1990).

The role of diet history and biologic assays in the study of diet and breast cancer.

*Tumori*, **76**, 321-330

14. **S. Richardson** (1990).

A method for testing the significance of geographical correlations with application to industrial lung cancer in France.

*Statistics in Medicine* **9**, 515-528.

13. P. Clifford, S.T. Richardson, D. H  mon.(1989).

Assessing the significance of the correlation between two spatial processes.

*Biometrics* **45**(1), 123-134.

12. M. Gerber, **S. Richardson**, P.Crastes de Paulet, H. Pujol, A. Crastes de Paulet. (1989).

Relationship between vitamin E and poly-unsaturated fatty acids in breast cancer.

Nutritional and metabolic aspects.

*Cancer* **64**, 2347-2353.

11. **S.T. Richardson**, I. De Vincenzi, M. Gerber, H. Pujol. (1989).

Alcohol consumption in a case-control study of breast cancer in Southern France.

*International Journal of Cancer* **44**(1), 84-89.



- 10 F. Derriennic, **S.T. Richardson**, A. Mollié, J. Lellouch. (1989).  
Short term effects of SO<sub>2</sub> pollution of mortality in two French cities.  
*International Journal of Epidemiology* **18**, 186-197.
  
9. M. Gerber, F. Cavallo, E. Marubini, **S.T. Richardson**, A. Barbieri, E. Capitelli, A. Costa, A. Crastes de Paulet, P. Crastes de Paulet, A. Decarli, U. Pastorino and H. Pujol. (1988).  
Liposoluble vitamins and lipid parameters in breast cancer. A joint study in northern Italy and Southern France.  
*International J. of Cancer*, **42**, 489-494.
  
8. **S.T. Richardson**, A. Hirsch, P. Ruffié, M. Bickel. (1987).  
Relationship between tuberculous scar and carcinomas of the lung.  
*Europ. J. Radiol.* **7**, 163-164.
  
7. **S.T. Richardson**, I. Stücker, D. Hémon; (1987).  
Comparison of relative risks obtained in ecological and individual studies : some methodological considerations.  
*Int. J. of Epidemiol.* **16**(1), 111-119
  
6. I. Stücker, **S.T. Richardson**, D. Hémon. (1984).  
Contraceptifs oraux et mortalité cardiovasculaire.  
*Rev. Epidemiol. et de Santé Publ.* **34**, 16-24
  
5. X. Guyon, **S.T. Richardson**. (1984).  
Vitesse de convergence du théorème de la limite centrale pour des champs faiblement dépendants.  
*Z. Wahrscheinlichkeitstheorie verw. Gebiete* **66**, 297-314.
  
4. **S.T. Richardson**, D. Hémon. (1982).  
Autocorrélation spatiale : ses conséquences sur la corrélation empirique de deux processus spatiaux.  
*Revue de Statistique Appliquée* **30**, 41-51.
  
3. **S.T. Richardson**, D. Hémon. (1981).  
On the variance of the sample correlation between two independent lattice processes.  
*J. Appl. Prob.* **18**, 943-948.
  
2. **S.T. Richardson**. (1981).  
Stopping times for measure-preserving transformations : some approximation results  
*Proceedings of the London Mathematical Society*, **43**, 273-294
  
1. **S.T. Richardson**, K.M. Wilkinson (1979)  
Stopping time transformations and towers.  
*Z. Wahrscheinlichkeitstheorie verw. Gebiete*, **48**, 259-284

### **Letters and Discussions**

**S Richardson**

Vote of thanks (read paper by Meinhausen and Bühlmann)  
RSS Meeting, February 2010. *Journal of the Royal Statistical Society, Series B*, **72**, 448-452, (2010).

**S Richardson**, A Frigessi Contribution to the Discussion of Rue, Martino and Chopin. *Journal of the Royal Statistical Society B*, 2009 *in press*

**S Richardson** and L Bottolo Contribution to the Discussion of Fan and Lv. *Journal of the Royal Statistical Society B*, **70** (2008)

**S Richardson** and A Lewin Contribution to the discussion of the paper by Handcock, Raftery and Tantrum. *Journal of the Royal Statistical Society A*, 170: (2007).

**S Richardson**

Discussion of the papers by N Keiding and N Wermuth. *International Statistics Review*, **73**, 263-264 (2005)

**S Richardson** Contribution to the Discussion of Wakefield. *Journal of the Royal Statistical Society A*, **167**: 430-431, (2004)

**S Richardson** and C Marshall

Contribution to the Discussion of the meeting on 'Statistical modelling and analysis of genetic data'. *Journal of the Royal Statistical Society B*. **64**: 748 (2002)

**S Richardson**

Contribution to the discussion of Dominici et al. *Journal of the Royal Statistical Society A* **163**: 288, (2000)

**S. Richardson.**

Invited discussion of the paper by Wakefield and Morris. " Spatial Dependence and Errors in Variables in Environmental Epidemiology ". *Bayesian Statistics 6*, J.M. Bernardo, J.O. Berger, A.P. David and A.F.M. Smith (eds), Oxford University Press, 675 –677, (1999).

**S. Richardson.**

Vote of thanks (read paper by Walker, Damien, Laud and Smith)  
RSS Meeting, November 1998. *Journal of the Royal Statistical Society, Series B*, **61**, 513-516, (1999).

**S. Richardson**, P.J. Green.

Contribution to the discussion of Diggle, Tawn and Moyeed. *Applied Statistics*, **47** : 341 (1998).

I. Deltour, **S. Richardson.**

Contribution to the discussion on the papers by Forster and Smith and Clayton et al. *Journal of the Royal Statistical Society : Series B*, **60** : 93 (1998).

L. Watier, **S. Richardson**, D. Hémon.

Accounting for pregnancy dependence in epidemiologic studies of pregnancy outcomes. Response to Reader's Reaction. *Epidemiology* **9**, 363-364 (1998).

C. Chouquet, M. Burgard, **S. Richardson**, C. Rouzioux, D. Costagliola.

Timing of mother-to-child HIV-1 transmission and diagnosis of infection based on polymerase chain reaction in the neonatal period by a nonparametric method. *AIDS*, **11**, 1183-84 (1997).

**S. Richardson**, C. Guihenneuc-Jouyaux.

Contribution to the discussion of the paper by Satten and Longini. *Applied Statistics* **45**, 298-299 (1996).

**S. Richardson**, C. Guihenneuc-Jouyaux, V. Lasserre.

Ecological studies - Biases, misconceptions and counterexample. *American Journal of Epidemiology* **143**, 522-523, (1996).

**S. Richardson**

Vote of thanks (read paper by Plummer & Clayton) RSS Meeting, avril 1995. *Journal of the Royal Statistical Society, Series B*, **58**:141-143, (1996).

M. Gerber, **S Richardson**

Consumption of olive oil and specific food groups in relation to breast cancer risk in Greece. *Journal of the National Cancer Institute*, **87**: 1020-1022, (1995).

P. Clifford, **S. Richardson**, D. Hémon. Response to Reader's Reaction. *Biometrics* **49**, 312-314 (1993).

**S. Richardson**, D Hémon.

Ecological bias and linear dose response relationship. *International Journal of Epidemiology* **20** (3), 817-818 (1991).

**S. Richardson**, D. Hémon.

Ecological bias and confounding. *International Journal of Epidemiology* **19**, 764-766, (1990).

### **Books**

W.R. Gilks, **S. Richardson** and D.J. Spiegelhalter (eds). *Markov Chain Monte Carlo in Practice*, Chapman & Hall, 1996.

PJ Green, N Hjort and **S Richardson** (eds). *Highly Structured Stochastic Systems* Oxford University Press, 2003.

A Frigessi, P Bühlmann, IK Glad, M Langaas, **S Richardson**, M Vanucci (eds). *Statistical Analysis for High-Dimensional Data*. Abel Symposium 11. Springer Verlag (2016).

### **Chapters**

A Frigessi, P Bühlmann, IK Glad, M Langaas, **S Richardson**, M Vanucci.  
Some themes in high-dimensional statistics. In *Statistical Analysis for High-Dimensional Data*. Abel Symposium 11. Springer Verlag (2016).

LC Bergensen, I Ahmed, A Frigessi, IK Glad and S Richardson.  
Preselection in Lasso-type analysis of ultra-high dimensional genomic exploration. In *Statistical Analysis for High-Dimensional Data*, Abel Symposium 11. Springer Verlag (2016).

**S. Richardson**, L. Bottolo and J.S. Rosenthal.  
Bayesian models for sparse regression analysis of high dimensional data (with discussion)  
*Bayesian Statistics*, 9. Bernardo JM, Bayarri S, Berger JO, Dawid P, Heckerman D, Smith AFM and West M (eds), Oxford University Press, (2011)

A. Lewin and **S. Richardson**.  
Bayesian methods for microarray data, to appear in the Handbook of Statistical Genetics, eds D. Balding, M. Bishop and C. Cannings, Wiley (2007)

AM Hein, A Lewin and **S. Richardson**.  
Bayesian hierarchical models for inference in microarray data. In Do KA, Muller, P, and Vanucci M (eds). *Bayesian inference for gene expression and proteomics*. Cambridge University Press. p. 53-70, (2006)

P.J.Green, N.L. Hjort and **S. Richardson**.  
Introducing Highly Structured Stochastic Systems. In Green PJ, Hjort N and Richardson S (eds) *Highly Structured Stochastic Systems*. Oxford University Press, p1-12, (2003)

**S Richardson**  
Spatial models in epidemiological applications. In Green PJ, Hjort N and Richardson S (eds) *Highly Structured Stochastic Systems*. Oxford University Press, p 237-255, (2003).

L. Watier, **S. Richardson**, P.J. Green.  
Using Gaussian mixtures with known number of components for mixed model estimation. In : *Proceedings of the 14th International Workshop on Statistical Modelling*. H. Friedl, A. Berghold, G. Kauermann eds (1999).

**S. Richardson**, I. Deltour.  
Bayesian modelling of measurement error problems with reference to the analysis of Atomic-Bomb survivor data.  
In: *Statistics for the Environment 4 : Health and environment*. V. Barnett, K.F. Turkman and A. Stein, Eds. Wiley, p 259-279, (1999).

**S. Richardson**, C. Monfort.

Ecological correlation studies.

In: Disease & Exposure Mapping.

P. Elliott, J. Wakefield, N. Best, D. Briggs eds. Wiley, (1999).

C. Guihenneuc-Jouyaux, **S. Richardson**, V. Lasserre.

Convergence assessment in latent variable models : application to the longitudinal modelling of a marker of HIV progression.

In: Discretization and Convergence Assessment for MCMC algorithms.

C. Robert ed., Springer Verlag, p 147-160, (1998).

C.P. Robert, **S. Richardson**.

Markov chain Monte Carlo Methods

In: Discretization and Convergence Assessment for MCMC algorithms. C. Robert ed., Springer Verlag, p 1-25, (1998).

A. Raftery, **S. Richardson**

Model selection for generalized linear models via GLIB : Application to Nutrition and Breast Cancer. In : Bayesian Biostatistics, D.A. Berry and D.K. Strangl eds. pp. 321-353 (1995).

**S. Richardson**

Measurement error. Practical Markov Chain Monte Carlo. W.R. Gilks, S. Richardson, D.J. Spiegelhalter eds, Chapman et Hall, p401-417, (1995).

**S. Richardson**, M. Gerber

Nutritional factors and breast cancer in a French Mediterranean Region.

In : Epidemiology of Diet and Cancer, eds M. Hill, A. Giacosa, C Caygill., 353-377 (1994).

**S. Richardson**

Statistical methods for geographical correlation studies

In : Geographical and Environmental Epidemiology : Methods for Small Area Studies.

Eds P. Elliott, J. Cuzick, D. English, R. Stern.

Oxford University Press, p181-204, (1992).

**S. Richardson** and P. Clifford

Testing association between spatial processes

In : Spatial Statistics and Imaging.

Proceedings of an AMS-IMS-SIAM Joint Summer Research Conference, June 1988.

Editor A. Possolo.

Lectures Notes Monograph Series, Institute of Mathematical Statistics, Hayward, California, p. 295-308 (1991).

M. Gerber, **S. Richardson**, F. Favier, A. Crastes de Paulet.

Vitamin E and Tumor growth

In : Antioxydants in Therapy and Preventive Medicine.

Edited by I. Emerit et al. Plenum Press, New-York (1990).

**S. Richardson**

Some remarks on the testing of association between spatial processes.  
In : Spatial Statistics : Past, Present, and Future  
Institute of Mathematical Geography Monographs . pp. 277-312 (1990).

M. Gerber, **S. Richardson**, P. Chappuis  
Selenium and other antioxydants in breast cancer.  
In : Selenium in Medicine and Biology. Eds : Neve J., Favier A.  
Walter de Gruyter, Berlin-New-York, 263-266 (1988).

**S. Richardson**

Testing the association between two spatial processes : a review of different approaches.  
In : Spatial processes and spatial time series analysis  
Edited by F. Droesbeke. Travaux et Recherches Vol 11, p. 193-200 (1987).  
Publications des Facultés Universitaires St Louis, Bruxelles.

**S. Richardson**, E. Baumelou

Agents leucémogènes environnementaux.  
Encyclopédie des Cancers, Hémopathies malignes éditée par R.Zittoun.  
Editions Flammarion Paris 2, 19-31 (1986).

**S. Richardson**, M. Gerber, H. Pujol.

Familial risk in a case-control study on breast carcinoma.  
In : Familial Cancer. 1st Int. Res. Conf., Müller, Weber (eds)  
Karger (Basel), 31-33 (1985).