FOCUS

*Inflammatory Bowel Disease in Asia: A Second Chance at Uncovering Environmental Factors*
Lindsey Konkel | A49

Inflammatory bowel disease (IBD) has become common in the Western world, but its causes remain unclear. With the dramatic increase of cases in Asia in recent years—echoing the disease’s drastic rise in the West decades earlier—investigators have another shot at studying environmental contributors to IBD as it emerges in new populations.
SCIENCE SELECTIONS

Eating for Two: Does an Organic Diet Make a Difference?
Carol Potera | A55
Also see Brantsæter et al., p. 357

A Satellite View of Pollution on the Ground: Long-Term Changes in Global Nitrogen Dioxide
Nate Seltenrich | A56
Also see Geddes et al., p. 281

Noise and Body Fat: Uncovering New Connections
Wendee Nicole | A57
Also see Christensen et al., p. 329

The Right Tools for the Job: Evaluating Frameworks for Chemical Alternatives Assessment
Carrie Arnold | A58
Also see Jacobs et al., p. 265

COMMENTARY

Endocrine-Disrupting Chemicals and Oil and Natural Gas Operations: Potential Environmental Contamination and Recommendations to Assess Complex Environmental Mixtures
Christopher D. Kassotis, Donald E. Tillitt, Chung-Ho Lin, Jane A. McElroy, and Susan C. Nagel | 256

REVIEW

Alternatives Assessment Frameworks: Research Needs for the Informed Substitution of Hazardous Chemicals
Molly M. Jacobs, Timothy F. Malloy, Joel A. Tickner, and Sally Edwards | 265
Also see Science Selections, p. A58

RESEARCH

Long-Term Trends Worldwide in Ambient NO₂ Concentrations Inferred from Satellite Observations
Jeffrey A. Geddes, Randall V. Martin, Brian L. Boys, and Aaron van Donkelaar | 281
Also see Science Selections, p. A56
**Perceived Neighborhood Environmental Attributes Associated with Walking and Cycling for Transport among Adult Residents of 17 Cities in 12 Countries: The IPEN Study**
Jacqueline Kerr, Jennifer A. Emond, Hannah Badland, Rodrigo Reis, Olga Sarmiento, Jordan Carlson, James F. Sallis, Ester Cerin, Kelli Cain, Terry Conway, Grant Schofield, Duncan J. Macfarlane, Lars B. Christiansen, Delfien Van Dyck, Rachel Davey, Ines Aguinaga-Ontoso, Deborah Salvo, Takemi Sugiyama, Neville Owen, Josef Mitáš, and Loki Natarajan | 290

**Estimating Time-Varying PCB Exposures Using Person-Specific Predictions to Supplement Measured Values: A Comparison of Observed and Predicted Values in Two Cohorts of Norwegian Women**
Therese Haugdahl Nest, Knut Breivik, Frank Wania, Charlotte Rylander, Jon Øyvind Odland, and Torkjel Manning Sandanger | 299

**Traffic-Related Air Pollution and Dementia Incidence in Northern Sweden: A Longitudinal Study**
Anna Oudin, Bertil Forsberg, Annelie Nordin Adolfsson, Nina Lind, Lars Modig, Maria Nordin, Steven Nordin, Rolf Adolfsson, and Lars-Göran Nilsson | 306

**Characterization of Conserved Toxicogenomic Responses in Chemically Exposed Hepatocytes across Species and Platforms**
Nehme El-Hachem, Patrick Grossmann, Alexis Blanchet-Cohen, Alain R. Bateman, Nicolas Bouchard, Jacques Archambault, Hugo J.W.L. Aerts, and Benjamin Haibe-Kains | 313

**Urinary Concentrations of Phthalate Metabolites and Bisphenol A and Associations with Follicular-Phase Length, Luteal-Phase Length, Fecundability, and Early Pregnancy Loss**
Anne Marie Jukic, Antonia M. Calafat, D. Robert McConnaughey, Matthew P. Longnecker, Jane A. Hoppin, Clarice R. Weinberg, Allen J. Wilcox, and Donna D. Baird | 321

**Road Traffic and Railway Noise Exposures and Adiposity in Adults: A Cross-Sectional Analysis of the Danish Diet, Cancer, and Health Cohort**
Jeppe Schultz Christensen, Ole Raaschou-Nielsen, Anne Tjønneland, Kim Overvad, Rikke B. Nordsborg, Matthias Ketzel, Thorkild I.A Sørensen, and Mette Sørensen | 329
*Also see Science Selections, p. A57*

**Effects of in Utero Exposure to Arsenic during the Second Half of Gestation on Reproductive End Points and Metabolic Parameters in Female CD-1 Mice**
Karina F. Rodriguez, Erica K. Ungewitter, Yasmin Crespo-Mejias, Chang Liu, Barbara Nicol, Grace E. Kissling, and Humphrey Hung-Chang Yao | 336
Particulate Air Pollution Exposure and Expression of Viral and Human MicroRNAs in Blood: The Beijing Truck Driver Air Pollution Study
Lifang Hou, Jitendra Barupal, Wei Zhang, Yinan Zheng, Lei Liu, Xiao Zhang, Chang Dou, John P. McCracken, Anaité Diaz, Valeria Motta, Marco Sanchez-Guerra, Katherine Rose Wolf, Pier Alberto Bertazzi, Joel D. Schwartz, Sheng Wang, and Andrea A. Baccarelli | 344

Traffic-Related Air Pollution and Parkinson's Disease in Denmark: A Case–Control Study
Beate Ritz, Pei-Chen Lee, Johnni Hansen, Christina Funch Lassen, Matthias Ketzel, Mette Sørensen, and Ole Raaschou-Nielsen | 351

CHILDREN’S HEALTH

Organic Food Consumption during Pregnancy and Hypospadias and Cryptorchidism at Birth: The Norwegian Mother and Child Cohort Study (MoBa)
Anne Lise Brantsæter, Hanne Torjusen, Helle Margrete Meltzer, Eleni Papadopoulou, Jane A. Hoppin, Jan Alexander, Geir Liebein, Gun Roos, Jon Magne Holten, Jackie Swartz, and Margaretha Haugen | 357
Also see Science Selections, p. A55

Prenatal Phthalate, Perfluoroalkyl Acid, and Organochlorine Exposures and Term Birth Weight in Three Birth Cohorts: Multi-Pollutant Models Based on Elastic Net Regression

Cord Blood Methylmercury and Fetal Growth Outcomes in Baltimore Newborns: Potential Confounding and Effect Modification by Omega-3 Fatty Acids, Selenium, and Sex

First-Trimester Urine Concentrations of Phthalate Metabolites and Phenols and Placenta miRNA Expression in a Cohort of U.S. Women
Jessica LaRocca, Alexandra M. Binder, Thomas F. McElrath, and Karin B. Michels | 380

Use of a Cumulative Exposure Index to Estimate the Impact of Tap Water Lead Concentration on Blood Lead Levels in 1- to 5-Year-Old Children (Montréal, Canada)
Gerard Ngueta, Belkacem Abdous, Robert Tardif, Julie St-Laurent, and Patrick Levallois | 388