

# ENVIRONMENTAL HEALTH PERSPECTIVES, jún 2011, ročník 119, číslo 6



## FOCUS

### ***Questions Persist: Environmental Factors in Autoimmune Disease***

Charles W. Schmidt

A248–A253 | <http://dx.doi.org/10.1289/ehp.119-A248>

Until recently, scientists didn't think of autoimmune illnesses as a group of related conditions. Today, however, autoimmune diseases as a whole are recognized as among the leading causes of death among young and middle-aged women in the United States. Prevalence rates for some of these illnesses are rising such that some researchers believe environmental factors must be involved.

## FORUM

### ***Pond Algae Sequester Strontium-90***

Carol Potera  
A244 | <http://dx.doi.org/10.1289/ehp.119-A244>

### ***New Rules Proposed for Power Plant Toxics***

Bob Weinhold  
A245 | <http://dx.doi.org/10.1289/ehp.119-A245>

### ***Coal Fire Emissions Curb Children's Growth***

Adrian Burton  
A246–A247 | <http://dx.doi.org/10.1289/ehp.119-A246a>

### ***The Beat***

Erin E. Dooley  
A246–A247 | <http://dx.doi.org/10.1289/ehp.119-A246b>

## SPHERES OF INFLUENCE



### ***Pollution Portrait: The Fourth National-Scale Air Toxics Assessment***

Bob Weinhold  
A254–A257 | <http://dx.doi.org/10.1289/ehp.119-A254>

At first glance the results of the fourth edition of the U.S. Environmental Protection Agency's National-Scale Air Toxics Assessment are sobering—the modeled data suggest that every person in the United States is at increased risk for cancer attributable to outdoor air pollutant exposure; nearly a quarter of the population is estimated to be at increased risk for certain noncancer health effects. However, a closer look at the data reveals the actual risks might be substantially lower.

## SCIENCE SELECTIONS

### ***Public Health Impact of Coal and Electricity Consumption: Risk–Benefit Balance Varies by Country***

Tanya Tillett  
A258 | <http://dx.doi.org/10.1289/ehp.119-A258a>

### ***Chemical Count: Quantifying Exposures in Pregnant Women***

Kellyn S. Betts  
A258 | <http://dx.doi.org/10.1289/ehp.119-A258b>

### ***Rotenone and Paraquat Linked to Parkinson’s Disease: Human Exposure Study Supports Years of Animal Studies***

Angela Spivey  
A259 | <http://dx.doi.org/10.1289/ehp.119-A259a>

### ***Olympic Win: Lower Estimated Cancer Risk with Air Pollution Controls during the 2008 Beijing Games***

Julia R. Barrett  
A259 | <http://dx.doi.org/10.1289/ehp.119-A259b>

## COMMENTARIES

### ***Moving Forward in Human Cancer Risk Assessment***

Richard S. Paules, Jiri Aubrecht, Raffaella Corvi, Bernward Garthoff, Jos C. Kleinjans  
739–743 | <http://dx.doi.org/10.1289/ehp.1002735>

### ***DDT and Malaria Prevention: Addressing the Paradox***

Hindrik Bouwman, Henk van den Berg, Henrik Kylin  
744–747 | <http://dx.doi.org/10.1289/ehp.1002127>

## REVIEWS

### ***Respiratory and Allergic Health Effects of Dampness, Mold, and Dampness-Related Agents: A Review of the Epidemiologic Evidence***

Mark J. Mendell, Anna G. Mirer, Kerry Cheung, My Tong, Jeroen Douwes  
748–756 | <http://dx.doi.org/10.1289/ehp.1002410>

### ***Enhancing Credibility of Chemical Safety Studies: Emerging Consensus on Key Assessment Criteria***

James W. Conrad, Richard A. Becker  
757–764 | <http://dx.doi.org/10.1289/ehp.1002737>

## ***Impacts of Climate Change on Public Health in India: Future Research Directions***

Kathleen F. Bush, George Luber, S. Rani Kotha, R.S. Dhaliwal, Vikas Kapil, Mercedes Pascual, Daniel G. Brown, Howard Frumkin, R.C. Dhiman, Jeremy Hess, Mark L. Wilson, Kalpana Balakrishnan, Joseph Eisenberg, Tanvir Kaur, Richard Rood, Stuart Batterman, Aley Joseph, Carina J. Gronlund, Arun Agrawal, Howard Hu  
765–770 | <http://dx.doi.org/10.1289/ehp.1003000>

## **RESEARCH**

### ***Involvement of N-6 Adenine-Specific DNA Methyltransferase 1 (N6AMT1) in Arsenic Biomethylation and Its Role in Arsenic-Induced Toxicity***

Xuefeng Ren, Maria Aleshin, William J. Jo, Russel Dills, David A. Kalman, Christopher D. Vulpe, Martyn T. Smith, Luoping Zhang  
771–777 | <http://dx.doi.org/10.1289/ehp.1002733>

### ***Ambient PM<sub>2.5</sub> Exposure Up-regulates the Expression of Costimulatory Receptors on Circulating Monocytes in Diabetic Individuals***

Alexandra Schneider, Neil E. Alexis, David Diaz-Sanchez, Lucas M. Neas, Shirley Harder, Margaret C. Herbst, Wayne E. Cascio, John B. Buse, Annette Peters, Robert B. Devlin  
778–783 | <http://dx.doi.org/10.1289/ehp.1002543>

### ***TRPV4-Mediated Calcium Influx into Human Bronchial Epithelia upon Exposure to Diesel Exhaust Particles***

Jinju Li, Patrick Kanju, Michael Patterson, Wei-Leong Chew, Seung-Hyun Cho, Ian Gilmour, Tim Oliver, Ryohei Yasuda, Andrew Ghio, Sidney A. Simon, Wolfgang Liedtke  
784–793 | <http://dx.doi.org/10.1289/ehp.1002807>

### ***Widely Used Pesticides with Previously Unknown Endocrine Activity Revealed as in Vitro Antiandrogens***

Frances Orton, Erika Rosivatz, Martin Scholze, Andreas Kortenkamp  
794–800 | <http://dx.doi.org/10.1289/ehp.1002895>

### ***Biomarkers of Chlorpyrifos Exposure and Effect in Egyptian Cotton Field Workers***

Fayssal M. Farahat, Corie A. Ellison, Matthew R. Bonner, Barbara P. McGarrigle, Alice L. Crane, Richard A. Fenske, Michael R. Lasarev, Diane S. Rohlman, W. Kent Anger, Pamela J. Lein, James R. Olson  
801–806 | <http://dx.doi.org/10.1289/ehp.1002873>

### ***Neuroinflammation and $\alpha$ -Synuclein Dysfunction Potentiate Each Other, Driving Chronic Progression of Neurodegeneration in a Mouse Model of Parkinson's Disease***

Hui-Ming Gao, Feng Zhang, Hui Zhou, Wayneho Kam, Belinda Wilson, Jau-Shyong Hong  
807–814 | <http://dx.doi.org/10.1289/ehp.1003013>

***Estimated Reduction in Cancer Risk due to PAH Exposures If Source Control Measures during the 2008 Beijing Olympics Were Sustained***

Yuling Jia, Dave Stone, Wentao Wang, Jill Schrlau, Shu Tao, Staci L. Massey Simonich  
815–820 | <http://dx.doi.org/10.1289/ehp.1003100>

***Estimating the Global Public Health Implications of Electricity and Coal Consumption***

Julia M. Gohlke, Reuben Thomas, Alistair Woodward, Diarmid Campbell-Lendrum, Annette Prüss-üstün, Simon Hales, Christopher J. Portier  
821–826 | <http://dx.doi.org/10.1289/ehp.1002241>

***Lithium in Drinking Water and Thyroid Function***

Karin Broberg, Gabriela Concha, Karin Engström, Magnus Lindvall, Margareta Grandér, Marie Vahter  
827–830 | <http://dx.doi.org/10.1289/ehp.1002678>

***Risk Estimation with Epidemiologic Data When Response Attenuates at High-Exposure Levels***

Kyle Steenland, Ryan Seals, Mitch Klein, Jennifer Jinot, Henry D. Kahn  
831–837 | <http://dx.doi.org/10.1289/ehp.1002521>

***The Early Psychological Impacts of the Deepwater Horizon Oil Spill on Florida and Alabama Communities***

Lynn M. Grattan, Sparkle Roberts, William T. Mahan, Patrick K. McLaughlin, W. Steven Otwell, J. Glenn Morris  
838–843 | <http://dx.doi.org/10.1289/ehp.1002915>

***Long-Term Exposure to Airborne Particles and Arterial Stiffness: The Multi-Ethnic Study of Atherosclerosis (MESA)***

Marie S. O'Neill, Ana V. Diez-Roux, Amy H. Auchincloss, Mingwu Shen, João A. Lima, Joseph F. Polak, R. Graham Barr, Joel Kaufman, David R. Jacobs  
844–851 | <http://dx.doi.org/10.1289/ehp.0901524>

***Modeling Spatial Patterns of Traffic-Related Air Pollutants in Complex Urban Terrain***

Leonard M. Zwack, Christopher J. Paciorek, John D. Spengler, Jonathan I. Levy  
852–859 | <http://dx.doi.org/10.1289/ehp.1002519>

***Lung Cancer Incidence and Long-Term Exposure to Air Pollution from Traffic***

Ole Raaschou-Nielsen, Zorana Jovanovic Andersen, Martin Hvidberg, Steen Solvang Jensen, Matthias Ketzel, Mette Sørensen, Steffen Loft, Kim Overvad, Anne Tjønneland  
860–865 | <http://dx.doi.org/10.1289/ehp.1002353>

### ***Rotenone, Paraquat, and Parkinson's Disease***

Caroline M. Tanner, Freya Kamel, G. Webster Ross, Jane A. Hoppin, Samuel M. Goldman, Monica Korell, Connie Marras, Grace S. Bhudhikanok, Meike Kasten, Anabel R. Chade, Kathleen Comyns, Marie Barber Richards, Cheryl Meng, Benjamin Priestley, Hubert H. Fernandez, Franca Cambi, David M. Umbach, Aaron Blair, Dale P. Sandler, J. William Langston  
866–872 | <http://dx.doi.org/10.1289/ehp.1002839>

## **CHILDREN'S HEALTH**

### ***Residential Proximity to Freeways and Autism in the CHARGE Study***

Heather E. Volk, Irva Hertz-Picciotto, Lora Delwiche, Fred Lurmann, Rob McConnell  
873–877 | <http://dx.doi.org/10.1289/ehp.1002835>

### ***Environmental Chemicals in Pregnant Women in the United States: NHANES 2003–2004***

Tracey J. Woodruff, Ami R. Zota, Jackie M. Schwartz  
878–885 | <http://dx.doi.org/10.1289/ehp.1002727>

### ***Ambient Carbon Monoxide and Fine Particulate Matter in Relation to Preeclampsia and Preterm Delivery in Western Washington State***

Carole B. Rudra, Michelle A. Williams, Lianne Sheppard, Jane Q. Koenig, Melissa A. Schiff  
886–892 | <http://dx.doi.org/10.1289/ehp.1002947>

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