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FOCUS

Engineered Nanoparticles in Consumer Products: Understanding a New Ingredient

Rebecca Kessler

A120–A125 | <http://dx.doi.org/10.1289/ehp.119-A120>

Engineered nanoparticles and other nanomaterials have fostered advances in a wide spectrum of manufacturing processes and consumer products, but the long-term safety of these materials is unknown. No cases of human illness or death have been definitively attributed to engineered nanoparticles. However, experience has shown that chemical innovations that proceeded with little oversight can end up causing major health or environmental problems.

FORUM

Arctic Oil Drilling Plans Raise Environmental Health Concerns

Charles W. Schmidt
A116–A117 | <http://dx.doi.org/10.1289/ehp.119-A116>

U.S. Lives: Longer but Sicker?

Kris S. Freeman
A118 | <http://dx.doi.org/10.1289/ehp.119-A118a>

New Food Safety Law Brings Opportunities Amid Hurdles

David A. Taylor
A119 | <http://dx.doi.org/10.1289/ehp.119-A119>

The Beat

Erin E. Dooley
A118–A119 | <http://dx.doi.org/10.1289/ehp.119-A118b>

SPHERES OF INFLUENCE



Alberta's Oil Sands: Hard Evidence, Missing Data, New Promises

Bob Weinhold
A126–A131 | <http://dx.doi.org/10.1289/ehp.119-A126>

Canada's oil sands deposits offer a lucrative source of bitumen for use in petroleum manufacturing, but extraction activities bring with them various environmental impacts that some experts believe might come at too high a price to the land, animals, and people of Alberta. A new Royal Society of Canada report analyzes the body of science around the impacts of oil sands development.

SCIENCE SELECTIONS

Road RAGE? The Role of Diesel Particulate Matter in Lung Inflammation

Kellyn S. Betts

A132 | <http://dx.doi.org/10.1289/ehp.119-A132a>

Climate Change and Children's Health: Protecting and Preparing Our Youngest

Tanya Tillett

A132 | <http://dx.doi.org/10.1289/ehp.119-A132b>

Not Just for Workers: Maternal Exposure to Ambient Benzene Linked to Spina Bifida in Infants

Julia R. Barrett

A133 | <http://dx.doi.org/10.1289/ehp.119-A133a>

A Whale Tale: Using Blubber Biopsies to Characterize Pacific Ocean Pollutant Trends

Angela Spivey

A133 | <http://dx.doi.org/10.1289/ehp.119-A133b>

COMMENTARY

Dose Imprecision and Resistance: Free-Choice Medicated Feeds in Industrial Food Animal Production in the United States

David C. Love, Meghan F. Davis, Anna Bassett, Andrew Gunther, Keeve E. Nachman

279–283 | <http://dx.doi.org/10.1289/ehp.1002625>

REVIEWS

Utility of Recent Studies to Assess the National Research Council 2001 Estimates of Cancer Risk from Ingested Arsenic

Herman Gibb, Cary Haver, David Gaylor, Santhini Ramasamy, Janice S. Lee, Danelle

Lobdell, Timothy Wade, Chao Chen, Paul White, Reeder Sams

284–290 | <http://dx.doi.org/10.1289/ehp.1002427>

Global Climate Change and Children's Health: Threats and Strategies for Prevention

Perry E. Sheffield, Philip J. Landrigan

291–298 | <http://dx.doi.org/10.1289/ehp.1002233>

RESEARCH

Uncertainties Associated with Quantifying Climate Change Impacts on Human Health: A Case Study for Diarrhea

Erik W. Kolstad, Kjell Arne Johansson
299–305 | <http://dx.doi.org/10.1289/ehp.1002060>

The Consequences of Feminization in Breeding Groups of Wild Fish

Catherine A. Harris, Patrick B. Hamilton, Tamsin J. Runnalls, Veronica Vinciotti, Alan Henshaw, Dave Hodgson, Tobias S. Coe, Susan Jobling, Charles R. Tyler, John P. Sumpter
306–311 | <http://dx.doi.org/10.1289/ehp.1002555>

Vascular and Cardiac Impairments in Rats Inhaling Ozone and Diesel Exhaust Particles

Urmila P. Kodavanti, Ronald Thomas, Allen D. Ledbetter, Mette C. Schladweiler, Jonathan H. Shannahan, J. Grace Wallenborn, Amie K. Lund, Matthew J. Campen, Elizabeth O. Butler, Reddy R. Gottipolu, Abraham Nyska, Judy E. Richards, Deborah Andrews, Richard H. Jaskot, John McKee, Sainath R. Kotha, Rishi B. Patel, Narasimham L. Parinandi
312–318 | <http://dx.doi.org/10.1289/ehp.1002386>

Blood Pressure in Relation to Concentrations of PCB Congeners and Chlorinated Pesticides

Alexey Goncharov, Marian Pavuk, Herman R. Foushee, David O. Carpenter
319–325 | <http://dx.doi.org/10.1289/ehp.1002830>

Ambient Particulate Matter Air Pollution and Venous Thromboembolism in the Women's Health Initiative Hormone Therapy Trials

Regina A. Shih, Beth Ann Griffin, Nicholas Salkowski, Adria Jewell, Christine Eibner, Chloe E. Bird, Duanping Liao, Mary Cushman, Helene G. Margolis, Charles B. Eaton, Eric A. Whitsel
326–331 | <http://dx.doi.org/10.1289/ehp.1002256>

Diesel Particulate Matter Induces Receptor for Advanced Glycation End-Products (RAGE) Expression in Pulmonary Epithelial Cells, and RAGE Signaling Influences NF- κ B-Mediated Inflammation

Paul R. Reynolds, Karisa M. Wasley, Camille H. Allison
332–336 | <http://dx.doi.org/10.1289/ehp.1002520>

Pacific Ocean-Wide Profile of CYP1A1 Expression, Stable Carbon and Nitrogen Isotope Ratios, and Organic Contaminant Burden in Sperm Whale Skin Biopsies

Céline A.J. Godard-Codding, Rebecca Clark, Maria Cristina Fossi, Letizia Marsili, Silvia Maltese, Adam G. West, Luciano Valenzuela, Victoria Rowntree, Ildiko Polyak, John C. Cannon, Kim Pinkerton, Nadia Rubio-Cisneros, Sarah L. Mesnick, Stephen B. Cox, Iain Kerr, Roger Payne, John J. Stegeman
337–343 | <http://dx.doi.org/10.1289/ehp.0901809>

Exploring Indirect Sources of Human Exposure to Perfluoroalkyl Carboxylates (PFCAs): Evaluating Uptake, Elimination, and Biotransformation of Polyfluoroalkyl Phosphate Esters (PAPs) in the Rat

Jessica C. D'eon, Scott A. Mabury
344–350 | <http://dx.doi.org/10.1289/ehp.1002409>

A Distribution-Based Multiple Imputation Method for Handling Bivariate Pesticide Data with Values below the Limit of Detection

Haiying Chen, Sara A. Quandt, Joseph G. Grzywacz, Thomas A. Arcury
351–356 | <http://dx.doi.org/10.1289/ehp.1002124>

RDX Binds to the GABAA Receptor–Convulsant Site and Blocks GABAA Receptor–Mediated Currents in the Amygdala: A Mechanism for RDX-Induced Seizures

Larry R. Williams, Vassiliki Aroniadou-Anderjaska, Felicia Qashu, Huckelberry Finne, Volodymyr Pidoplichko, Desmond I. Bannon, Maria F. M. Braga
357–363 | <http://dx.doi.org/10.1289/ehp.1002588>

Use of in Vitro HTS-Derived Concentration–Response Data as Biological Descriptors Improves the Accuracy of QSAR Models of in Vivo Toxicity

Alexander Sedykh, Hao Zhu, Hao Tang, Liying Zhang, Ann Richard, Ivan Rusyn, Alexander Tropsha
364–370 | <http://dx.doi.org/10.1289/ehp.1002476>

Gene Expression Alterations in Immune System Pathways in the Thymus after Exposure to Immunosuppressive Chemicals

Rachel Frawley, Kimber White, Ronnetta Brown, Deborah Musgrove, Nigel Walker, Dori Germolec
371–376 | <http://dx.doi.org/10.1289/ehp.1002358>

Fate and Complex Pathogenic Effects of Dioxins and Polychlorinated Biphenyls in Obese Subjects before and after Drastic Weight Loss

Min-Ji Kim, Philippe Marchand, Corneliu Henegar, Jean-Philippe Antignac, Rohia Alili, Christine Poitou, Jean-Luc Bouillot, Arnaud Basdevant, Bruno Le Bizec, Robert Barouki, Karine Clément
377–383 | <http://dx.doi.org/10.1289/ehp.1002848>

Are Particulate Matter Exposures Associated with Risk of Type 2 Diabetes?

Robin C. Puett, Jaime E. Hart, Joel Schwartz, Frank B. Hu, Angela D. Liese, Francine Laden
384–389 | <http://dx.doi.org/10.1289/ehp.1002344>

The Impact of Bisphenol A and Triclosan on Immune Parameters in the U.S. Population, NHANES 2003–2006

Erin M. Rees Clayton, Megan Todd, Jennifer Beam Dowd, Allison E. Aiello
390–396 | <http://dx.doi.org/10.1289/ehp.1002883>

CHILDREN'S HEALTH

Maternal Exposure to Ambient Levels of Benzene and Neural Tube Defects among Offspring: Texas, 1999–2004

Philip J. Lupo, Elaine Symanski, D. Kim Waller, Wenyaw Chan, Peter H. Langlois, Mark A. Canfield, Laura E. Mitchell

397–402 | <http://dx.doi.org/10.1289/ehp.1002212>

Proton Magnetic Resonance Spectroscopy in Adults with Childhood Lead Exposure

Kim M. Cecil, Kim N. Dietrich, Mekibib Altaye, John C. Egelhoff, Diana M. Lindquist, Christopher J. Brubaker, Bruce P. Lanphear

403–408 | <http://dx.doi.org/10.1289/ehp.1002176>

Statistical Methods to Study Timing of Vulnerability with Sparsely Sampled Data on Environmental Toxicants

Brisa Ney Sánchez, Howard Hu, Heather J. Litman, Martha Maria Téllez-Rojo

409–415 | <http://dx.doi.org/10.1289/ehp.1002453>

*Pripravila: RNDr. Soňa Masaryková
Odbor preventívneho pracovného lekárstva
Úrad verejného zdravotníctva SR*