

NAS Emerging Science Workshop. February 25-26, 2010
The Exposome: A Powerful Approach for Evaluating Environmental Exposures
and Their Influences on Human Disease

Suggested Reading

Session I

Smith MT and Rappaport SM. 2009. Building Exposure Biology Centers to Put the E into “GxE” Interaction Studies. *Environmental Health Perspectives* 117(8): A334-A335
<http://ehp03.niehs.nih.gov/article/fetchArticle.action?articleURI=info%3Adoi%2F10.1289%2Fehp.12812>

Wild CP. 2005. Complementing the Genome with an "Exposome": The Outstanding Challenge of Environmental Exposure Measurement in Molecular Epidemiology. *Cancer Epidemiology Biomarkers & Prevention* 14: 1847-1850 <http://cebp.aacrjournals.org/cgi/content/full/14/8/1847>

Wild CP. 2010. OMICS technologies: an opportunity for “two-way” translation from basic science to both clinical and population-based research. *Occupational and Environmental Medicine* 67:75-76

Published Online First: 12 November 2009

<http://oem.bmj.com/content/67/2/75.full.pdf?sid=2dcd45ad-8f5f-419d-b2ca-730b8335ef32>

Session II

Epel ES, Blackburn EH, Lin J, Dhabhar FS, Adler NE, Morrow JD, Cawthon RM. 2004. Accelerated Telomere Shortening in Response to Life Stress. *Proceedings of the National Academy of Sciences*. 101(4): 17312–17315 <http://www.pnas.org/content/101/49/17312.full.pdf>

Epel ES. 2009. Psychological and Metabolic Stress: A Recipe for Accelerated Cellular Aging? *Hormones* 8(1):7-22 <http://www.hormones.gr/pdf/Stress%20and%20cell%20aging.pdf>

Epel ES. 2009. Telomeres in a Life-Span Perspective: A New “Psychobiomarker”? *Current Directions in Psychological Science* 18(1): 6-10
<http://www3.interscience.wiley.com/cgi-bin/fulltext/122212737/PDFSTART>

Vineis P, Khan AE, Vlaandere J, Vermeulen R. 2009. The impact of new research technologies on our understanding of environmental causes of disease: the concept of clinical vulnerability. *Environmental Health* 8(54) <http://www.ehjournal.net/content/pdf/1476-069X-8-54.pdf>

Session III

Hubal EA. 2009. Biologically relevant exposure science for 21st century toxicity testing. *Toxicological Sciences* 111(2):226-232 <http://toxsci.oxfordjournals.org/cgi/content/abstract/111/2/226>

Jacobson IG, Ryan M AK, Hooper TI, Smith TC, Amoroso PJ, Boyko EJ, Gackstetter GD, Wells TS, Bell NS. 2008. Alcohol Use and Alcohol-Related Problems Before and After Military Combat Deployment. *JAMA* 300(6): 663-675 <http://jama.ama-assn.org/cgi/content/full/300/6/663>

NAS Emerging Science Workshop. February 25-26, 2010
**The Exposome: A Powerful Approach for Evaluating Environmental Exposures
and Their Influences on Human Disease**

Smith B, Wong CA, Smith TC, Boyko EJ, Gackstetter GD, Ryan M AK. 2009. Newly Reported Respiratory Symptoms and Conditions Among Military Personnel Deployed to Iraq and Afghanistan: A Prospective Population-based Study. American Journal of Epidemiology Vol. 170, No. 11: 1433-1442
<http://aje.oxfordjournals.org/cgi/content/full/kwp287v1>

Smith TC. 2009. The US Department of Defense Millennium Cohort Study: Career Span and Beyond Longitudinal Follow-Up. Journal of Occupational and Environmental Medicine 51(10):1193-1201
http://journals.lww.com/joem/Abstract/2009/10000/The_US_Department_of_Defense_Millennium_Cohort.11.aspx

Smith TC, Ryan MAK, Wingard DL, Slyman DJ, Sallis JF, Kritz-Silverstein D. 2008. New onset and persistent symptoms of post-traumatic stress disorder self reported after deployment and combat exposures: prospective population based US military cohort study. BMJ 336 (7640): Online First
<http://www.bmj.com/cgi/reprint/336/7640/366>

Wells TS, LeardMann CA, Fortuna SO, Smith B, Smith TC, Ryan MAK, Boyko E, Blazer D. 2010. A Prospective Study of Depression Following Combat Deployment in Support of the Wars in Iraq and Afghanistan American Journal of Public Health 100(1): 90-99
<http://ajph.aphapublications.org/cgi/content/full/100/1/90>

Related Links

Exposure Science in the 21st Century. The Newsletter of Standing Committee on Risk Analysis Issues and Reviews. Issue 4, December 2009
http://dels.nas.edu/best/risk_analysis/newsletters.shtml