



## Diesel Exhaust and Neurodevelopmental Disorders

There are currently proposals to transport massive amounts of coal and oil on diesel-powered trains through the Columbia River Gorge and on to ports along the Pacific coast. Diesel pollution is well-established as a carcinogen and asthma trigger, but recent research published by the National Institutes of Health now links diesel exhaust to neurodevelopmental disorders in children.

Links below will take you directly to the full articles:

1. Becerra, T.A., et al, "Ambient Air Pollution and Autism in Los Angeles County," *Environmental Health Perspectives (EHP)*, 121, 3, March 2013, 380-38  
<http://ehp.niehs.nih.gov/1205827/>
2. Chiu, Y.M. et al, "Associations between traffic-Related Black carbon exposure and Attention In a Prospective Birth Cohort of Urban Children," *EHP*, vol. 121, no. 7, July 2013, 859-864  
<http://ehp.niehs.nih.gov/1205940/>
3. Newman, N.C. et al, "Traffic related Air pollution exposure in the first Year of Life and Behavioral Scores at 7 years of Age," *EHP*, no. 6, June 2013, 731-736  
<http://ehp.niehs.nih.gov/1205555/>
4. Roberts, A.L, et al, "Perinatal Air Pollutant Exposures and Autism Spectrum Disorder in the Children of Nurses' Health Study II Participants," *EHP*, 121, no. 8, Aug. 2013, P. 978-984  
<http://ehp.niehs.nih.gov/1206187/>
5. Slotkin, TA, "Adverse Benzo(a)pyrene Effects on Neurodifferentiation Are altered by Other Neurotoxicant Coexposures: Interactions with Dexamethasone, Chlorpyrifos, or Nicotine in PC12 Cells," *EHP*, 121, no. 7, July 2013, 825-83 (this one is on synergistic action of multiple chemicals)  
<http://ehp.niehs.nih.gov/1306528/>
6. Volk, H.E. et al, "Residential proximity to freeways and autism in the CHARGE study," *EHP*, 119, no. 6, June 2011, 873-877  
<http://ehp.niehs.nih.gov/1002835/>

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