

Steven Simmons, Research Toxicologist, in EPA's National Center for Computational Toxicology

[Mailing Address](#)

simmons.steve@epa.gov

Area of Expertise: Dr. Simmons, a research toxicologist within NCCT, leads research efforts to develop and implement in vitro methods that identify potential environmental toxicants. He plays a critical role in the national Tox21 effort involving EPA, the National Toxicology Program (NTP), and NIH Center for Chemical Genomics (NCGC) in assay design, evaluation and selection for ultra-high throughput screening at NCGC.

Select Publications:

Friedman KP, Watt ED, Hornung MW, Hedge JM, Judson RS, Crofton KM, Houck KA, Simmons SO. [Tiered High-Throughput Screening Approach to Identify Thyroperoxidase Inhibitors within the ToxCast Phase I and II Chemical Libraries](#). Toxicological Sciences. 2016 Feb 15. [Exit](#)

Wages PA, Lavrich KS, Zhang Z, Cheng WY, Corteselli E, Gold A, Bromberg PA, Simmons SO, Samet JM. [Protein Sulfenylation: A Novel Readout of Environmental Oxidant Stress](#). Chemical Research in Toxicology. 2015 Dec 21;28(12):2411-8. [Exit](#)

Wages PA, R Silbajoris, Speen A, Brighton L, Henriquez A, Bromberg PA, Simmons SO, Samet JM. [Role of H2O2 in the Oxidative Effects of Zinc Exposure in Human Airway Epithelial Cells](#). Redox Biology. 2014;3:47-55. [Exit](#)

Chorley B, Ward W, Simmons SO, Vallanat B, Veronesi B. [The Cellular and Genomic Response of Rat Dopaminergic Neurons \(N27\) to Coated Nanosilver Neurotoxicology](#). Neurotoxicology. 2014 Sept 4; 45C: 12-21. [Exit](#)

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Education:

- B.S., Lamar University, Beaumont, TX; Biology/Chemistry, 1997
- Ph.D., North Carolina State University, Raleigh, NC; Toxicology, 2006

Professional Experience:

- U.S. EPA Scientific and Technological Achievement Awards (STAA) Award (Level II), 2011
- Rated 'outstanding' in annual performance at US EPA 2006- 2010 and 2011-2015
- National Health and Environmental Effects Research Laboratory Meritorious Service Award, 2007
- Fifteen-time recipient of EPA S-Awards for outstanding contributions to team research

Additional Publications:

[National Center for Biotechnology Information](#) [Exit](#)