David C. Volz, PhD

Current Title: Professor, Step III
Current Address: University of California, Riverside
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EDUCATION

Duke University, Durham, NC USA
Doctor of Philosophy in Environment 2003-2006
Certificate in Toxicology (Integrated Toxicology and Environmental Health Program)

University of South Carolina, Columbia, SC USA
Master of Science in Public Health 1999-2001

University of South Carolina, Columbia, SC USA
Bachelor of Science in Marine Science 1996-1999

SELECTED ACADEMIC AWARDS AND HONORS

- Distinguished Mentor Award, Environmental Toxicology Graduate Program, UCR 2021
- Distinguished Advisor Award, Environmental Toxicology Graduate Program, UCR 2018
- High-Ranking (top 5%) Reviewer Award, *Environ. Toxicology & Chemistry* 2017
- Outstanding New Environmental Scientist (ONES) Award, NIH/NIEHS 2017
- Excellence in Review Award, *Environmental Science & Technology Letters* 2016
- Promising Investigator Research Award, UofSC Office of the Vice President for Research 2011
- Elsevier/SETAC Best Student Platform Presentation in Toxicogenomics 2005
- AAAS/Science Award for Excellence in Science 2005
- U.S. EPA STAR Graduate Fellowship 2004
- Best Student Poster Award, Superfund Basic Research Program Meeting 2004
- Pre-Doctoral Training Fellowship in Toxicology, Duke University 2003
- Outstanding Graduate Student Award, UofSC Arnold School of Public Health 2001

PROFESSIONAL EXPERIENCE

Professor	University of California, Riverside, CA USA	2020-
Associate Professor	University of California, Riverside, CA USA	2017-2020
Assistant Professor	University of California, Riverside, CA USA	2015-2017
Assistant Professor	University of South Carolina, Columbia, SC USA	2009-2015
Toxicologist	Syngenta, Product Safety/R&D, Greensboro, NC USA	2006-2009
Part-Time Consultant	EcoStat, Mebane, NC USA	2005-2006
Research Scientist	National Oceanic & Atmospheric Administration, Charleston, SC	2001-2003
	University of South Carolina, Columbia, SC USA (joint appointment)	

NOTABLE UNIVERSITY SERVICE

University of California, Riverside, CA USA

Systemwide Academic Senate

Chair, Board of Admissions and Relations with Schools (BOARS) 2025-
Vice Chair, Board of Admissions and Relations with Schools (BOARS) 2024-2025
Chair, Academic Council Special Committee on Transfer Issues (ACSCOTI) 2024-2025
Member, Assembly of the Academic Senate 2025-
Member, Academic Council 2025-
Member, Intersegmental Committee of the Academic Senates (ICAS) 2024-
Member, Cal-GETC Standards Subcommittee 2024-
Member, Board of Admissions and Relations with Schools (BOARS) 2018-2019

Systemwide (non-Senate)

External Advisor (Master's Group Project), UCSB Bren School of Env. Science & Manag. 2022-2023

Divisional Academic Senate

Chair, Committee on Undergraduate Admissions 2018-2019
Member, Executive Council 2018-2019
Ex Officio Member, Committee on Preparatory Education 2018-2019
Member, Committee on Undergraduate Admissions 2016-2018

Campus

Member, Research Ramp-Up Committee 2020-2021
Chair, Institutional Animal Care and Use Committee (IACUC) 2018-2020
Member, Institutional Animal Care and Use Committee (IACUC) 2016-2018

College

Chair, Research Ramp-Up Work Group 2020-2021
Graduate Advisor for Admissions, Environmental Toxicology Graduate Program 2018-2020

Department

Chair, Department of Environmental Sciences 2020-2023
Interim Graduate Advisor for Continuing Students, Environ. Sci. Graduate Program 1/2023-6/2023
Graduate Advisor, Environmental Sciences Graduate Program 2017-2018

TEACHING EXPERIENCE

University of California, Riverside, CA USA 2015-

Undergraduate

NASC 093 – CNAS Freshman Advising Seminar (Fall 2016, 2021, 2022)
ENSC 001 – Intro. to Environmental Sciences (Fall 2017-2022; Summer 2022-2025)
ENSC/ENTX 103 – Environ. Pollut. & Health (Spring 2016, 2017, 2019, 2021; Fall 2023; Spring 2025)
ENSC 191 – Seminar in Professional Development in Env. Sciences (Spring 2022, 2023)

Graduate

ENSC/ENTX 200 – Fate & Transport of Chemicals in the Environment (Winter 2016)
ENTX 201 – Principles of Toxicology (Fall 2024, 2025)

ENSC/ENTX 203 – Human & Ecological Risk Assessment (Fall 2016)
ENSC 401 – Professional Development in Env. Sciences (Fall 2023)

University of South Carolina, Columbia, SC USA 2009-2015

Undergraduate

ENHS/ENVR 221 – Environmental Pollution & Health (Spring 2014)
ENHS/ENVR 321 – Environmental Pollution & Health (Fall 2014)

Graduate

ENHS 761 – Ecotoxicology of Aquatic Systems (Spring 2010, 2011, 2012)
ENHS 772 – Human & Ecological Risk Assessment (Fall 2011, 2012, 2013; Spring 2013, 2015)
ENHS 793 – Topic: Human & Ecological Risk Assessment (Fall 2010)
ENHS 793 – Topic: Environmental Health Sciences Seminar (Fall 2013; Spring 2014)

PROFESSIONAL SOCIETIES AND SERVICE

Professional Society Affiliations

Full Member, Society of Toxicology	2009-
Member, Society of Environmental Toxicology and Chemistry	2000-2020; 2023-
Regular Member, Society for Birth Defects Research & Prevention	2016-2024

Professional Society Service

Member, SoCal SETAC Board of Directors	2023-2025
Member, Carolinas SETAC Board of Directors	2010-2012
Member, SETAC North America Technical Committee	2007-2009

Professional Service

Member, ILSI/HESI Working Group, Alternatives to Chronic Fish Testing	2024-
Advisor, California EPA Interagency Agreement for Scientific Review	2021-
Member, Systematic Evaluation of the Application of Zebrafish in Toxicology, NIEHS/NTP	2015-2018
Member, ILSI/HESI Steering Team, Animal Alternatives for Environ. Risk Assessment	2011-2014
Member, ILSI/HESI Subcommittee, Animal Alternatives for Environ. Risk Assessment	2009-2014
Member, IUPAC Task Group, Global Framework for Ecological Risk Assessment	2011-2013

Other Professional Service

Reviewer, California EPA (139-page report on TMDLs for Lower Salinas River Watershed)	2023
Member, Annual Meeting Program Committee, Society for Birth Defects Research & Prevention	2022
Reviewer, National Academies (166-page report focused on organohalogen flame retardants)	2019
Reviewer, California EPA (520-page report focused on water quality criteria for fipronil)	2017
Workshop Instructor, IUPAC Workshop on Ecological Risk Assessment (Bogotá, Colombia)	2013
Workshop Instructor, IUPAC Workshop on Ecological Risk Assessment (Beijing, China)	2012
Workshop Chair, ILSI/HESI Workshop on Predictive Ecotoxicology (Minnesota, USA)	2012
Workshop Participant, ILSI/HESI Workshop on Predictive Ecotoxicology (Paris, France)	2010
Workshop Participant, SETAC Pellston Workshop on Predictive Ecotoxicology (Oregon, USA)	2009
Workshop Participant, NERC International Workshop on Toxicogenomics (Vancouver, CAN)	2008

Session Chair and Moderator at National/International Scientific Meetings

SOT 59th Annual Meeting, Anaheim, CA USA (session accepted but cancelled due to COVID-19) 2020

- *"Environmental Exposure and Health Effects of Organophosphate Esters"*

IUTOX International Congress of Toxicology, Honolulu, HI USA 2019

- *"Leveraging Zebrafish to Support Global Toxicology Challenges"*

Teratology Society 59th Annual Meeting, San Diego, CA USA 2019

- *"Leveraging Zebrafish to Unravel Mechanisms of Developmental Toxicity"*

SOT 57th Annual Meeting, San Antonio, TX USA 2018

- *"Defining Domains of Applicability for Zebrafish within Toxicology: A Retrospective and Prospective Workshop"*

SETAC North America 35th Annual Meeting, Vancouver, BC Canada 2014

- *"Alternative Methods for Evaluating Aquatic Toxicity: New Methods, Endpoints, and Testing Strategies"*

SOT 50th Annual Meeting, Washington, DC USA 2011

- *"Advancing Predictive Ecotoxicology Testing and Environmental Risk Assessment in the 21st Century"*

SETAC North America 30th Annual Meeting, New Orleans, LA USA 2009

- *"Molecular and Genetic Approaches to Environmental Toxicology"*

SETAC North America 29th Annual Meeting, Tampa, FL USA 2008

- *"Aquatic Risk Assessment of Herbicides"*
- *"Molecular and Genetic Approaches to Environmental Toxicology"*

SETAC North America 28th Annual Meeting, Milwaukee, WI USA 2007

- *"Ecotoxicogenomics: Standardization and Utility for Future ERAs"*
- *"Modern Biological Approaches to Environmental Toxicology"*

SETAC North America 27th Annual Meeting, Montreal, QC Canada 2006

- *"Modern Biological Approaches to Medaka/Zebrafish Toxicology"*

Manuscript Review for Scientific Journals 2006-

ACS Chemical Neuroscience; ACS ES&T Water; ACS Omega; Aquatic Toxicology; Biotechnology Reports; Bulletin of Environmental Contamination and Toxicology; Cells; Chemical Research in Toxicology; Chemosphere; Comparative Biochemistry and Physiology-Part C; Critical Reviews in Environmental Science and Technology; Current Research in Toxicology; Developmental Biology; Drug and Chemical Toxicology; Ecotoxicology; Ecotoxicology and Environmental Safety; Environmental Advances; Environmental Sciences Europe; Environment International; Environments; Environmental Health Perspectives; Environmental Pollution; Environmental Research; Environmental Science: Nano; Environmental Science: Processes & Impacts; Environmental Science and Pollution Research; Environmental Toxicology; Environmental Toxicology and Chemistry; Environmental Toxicology and Pharmacology; Environmental Science and Technology; Environmental Science and Technology Letters; Environmental Sciences Europe; Fish Physiology and Biochemistry; Food and Chemical Toxicology; Genetics in Medicine; Integrated Environmental Assessment and Management; International Journal of Environmental Analytical Chemistry; International Journal of Molecular Sciences; Journal of Environmental Monitoring; Journal of Environmental Sciences; Journal of Environmental Science and Health; Journal of Hazardous Materials; Journal of Hazardous Materials Advances; Journal of Visualized Experiments (JoVE); Marine and Freshwater Research; NANOIMPACT; Nanotoxicology; Nature Communications; Nature Reviews Drug Discovery; Neurotoxicology; Neurotoxicology and Teratology; Nicotine & Tobacco Research; One Earth; PeerJ; Pharmacology, Biochemistry and Behavior; PLOS Genetics; PLOS ONE; Reproductive Toxicology; Science of the Total Environment; Scientific Reports; Toxicology; Toxicology and Applied

Pharmacology; Toxicology Letters; Toxicology Reports; Toxicological Sciences; Toxics; Water; Zebrafish

Editorial Boards

Associate Editor, Editorial Board of *Frontiers in Cell and Developmental Biology*	2023-
Associate Editor, Editorial Board of *Neurotoxicology and Teratology*	2017-
Associate Editor, Editorial Board of *Chemosphere*	2014-2020
Member, Editorial Advisory Board of *ACS Agricultural Science & Technology*	2025-
Member, Editorial Advisory Board of *Chemosphere*	2020-
Member, Editorial Advisory Board of *ACS ES&T Water*	2020-
Member, Editorial Advisory Board of *Environmental Science & Technology Letters*	2015-
Member, Editorial Advisory Board of *Critical Reviews in Environ. Science and Technology*	2021-2023
Member, Editorial Advisory Board of *Toxics*	2020-2024
Member, Editorial Advisory Board of *Environmental Toxicology and Chemistry*	2014-2020
Member, Editorial Advisory Board of *Neurotoxicology and Teratology*	2014-2017

Federal Grant Application Reviews (*ad hoc* review) 2010-

NIH (USA) – ZRG1 F06-J (20) L, Endocrine & Metabolic Systems Fellowships (F30/F31/F32) (2024)
NIH (USA) – ZES1 ARL-S (R1), ONES R01 Grant Applications (2023)
NIH (USA) – ZES1 VSM-S (VC), ViCTER Award R01 Grant Applications (2023)
NIH (USA) – ZRG1 KUDS-F (50) S, CounterACT UG3 UH3 Applications (2023)
NIH (USA) – EHS (T), T32 NRSA Training Grants (2022)
NIH (USA) – ZES1 VSM-D (RV), ViCTER Award R01 Grant Applications (2022)
NIH (USA) – ZES1 ARL-D (K0) 1, Educational Careers in Environmental Health and Toxicology (2021)
NIH (USA) – ZES1 VSM-D (K9) 1, NIH Pathway to Independence Award (K99/R00) (2021)
NIH (USA) – ZES1 JAB-D (SF), Superfund (P42) Research Program (2019)
NIH (USA) – ZRG1 MDCN-B (50), CounterACT U01 RPGs (2018)
NIH (USA) – ZRG1 MDCN-B (54), CounterACT U54 Centers (2018)
NIH (USA) – Systemic Injury by Environmental Exposure (2016, 2017(2))
NIH (USA) – ZES1 RAM-S (L) 1, NIH Loan Repayment (2017)
NIH (USA) – ZES1 RAM-D (NT) 1, National Toxicology Program Studies (2017)
NIH (USA) – ZES1 LWJ-K (S2) 1, Superfund (P42) Research Program (2016)
Department of Defense (USA), SERDP (2015, 2018, 2019)
NIH (USA) – ZRG1 DKUS C 50 (2015)
NIH (USA) – ZRG1 DKUS E 55 (2015)
NIH (USA) – ZRG1 DKUS C 55 (2014)
NIH (USA) – ZRG1 DKUS C 90 (2014)
NSF (USA) (2010, 2012, 2013)
National Research Agency (France) (2013)

RESEARCH SUPERVISION

Primary Supervision of Post-Doctoral Scholars

Subham Dasgupta, PhD, Dept. of Environmental Sciences, UCR (April 2017-Sept. 2019)
Allison Kupsco, PhD, Dept. of Environmental Sciences, UCR (Sept. 2016-Aug. 2017)
Jessica Leet, PhD, Dept. of Environmental Health Sciences, UofSC (July 2013-June 2015)

Primary Supervision of Graduate Students
John Hoang, PhD Student, Environmental Toxicology Graduate Program, UCR (Sept. 2022-)
Sarah Avila-Barnard, PhD Student, Environ. Toxicology Graduate Program, UCR (Graduated 9/2023)
Jenna Wiegand, PhD Student, Environmental Sciences Graduate Program, UCR (Graduated 6/2023)
Vanessa Cheng, PhD Student, Environmental Toxicology Graduate Program, UCR (Graduated 9/2021)
Aalekhya Reddam, PhD, Environmental Toxicology Graduate Program, UCR (Graduated 3/2021)
Sara Vliet, PhD, Environmental Toxicology Graduate Program, UCR (Graduated 6/2019)
Connie Mitchell, MS, Environmental Toxicology Graduate Program, UCR (Graduated 12/2018)
Tara Raftery, PhD, Dept. of Environmental Health Sciences, UofSC (Graduated 5/2015)
Krystle Yozzo, PhD, Dept. of Environmental Health Sciences, UofSC (Graduated 12/2013)
Sean McGee, PhD, Dept. of Environmental Health Sciences, UofSC (Graduated 12/2012)
Sumith Jayasinghe, PhD, Dept. of Environmental Health Sciences, UofSC (Graduated 5/2012)

Supervision of Graduate Student Rotation Projects
Monica Hope, PhD Student, Environmental Sciences Graduate Program, UCR (July 2020-March 2021)
Jin Chen, PhD Student, Environmental Toxicology Graduate Program, UCR (July 2016-Dec. 2016)
David Lee, PhD Student, Environmental Toxicology Graduate Program, UCR (Sept. 2015-March 2016)

Supervision of Visiting Student Research
Evelyn Stinckens, PhD Student, University of Antwerp, Belgium (July 2016)

Supervision of Undergraduate Student Research
Emma Fencl, Major: Biology, UCR (Jan. 2025-)
Qibo Xiang, Major: Biology, UCR (Jan. 2025-)
Nicholas Jimenez, Major: Environmental Sciences, UCR (Sept. 2023-June 2025)
Keivon Faizi, Major: Biochemistry, UCR (Feb. 2024-March 2025)
Zoe Mersman, Major: Cell, Molecular, and Dev. Biology, UCR (April 2023-June 2024)
Kevin Michalicek, Major: Biochemistry, UCR (April 2023-June 2023; Sept. 2023-March 2024)
Megan Ha, Major: Biology, UCR (Oct. 2022-June 2023)
Charvita Nemarugommula, Major: Cell, Molecular, and Dev. Biology, UCR (Sept. 2021-March 2023)
James Tsao, Major: Environmental Sciences, UCR (Sept. 2021-June 2022)
Taylor Cho, Major: Environmental Sciences, UCR (Nov. 2019-March 2020)
Ryan Fitch, Major: Biochemistry, UCR (Oct. 2018-March 2020)
Brittany Abujudeh, Major: Environmental Sciences, UCR (Jan. 2019-June 2019)
Chris Mehdizadeh, Major: Neuroscience, UCR (Oct. 2018-June 2019)
Laura Kim, Major: Biology, UCR (April 2018-June 2018)
Chloe Pham, Major: Environmental Sciences, UCR (April 2017-June 2018)
Merett Saad, Major: Biochemistry, UCR (March 2017-April 2018)
Rohan Kamath, Major: Cell, Molecular, and Developmental Biology, UCR (June 2017-April 2018)
Christine Nguyen, Major: Environmental Sciences, UCR (Sept. 2016-June 2017)
Trina Ho, Major: Biology, UCR (Jan. 2016-June 2017)
Sherissa Villamor, Major: Cell, Molecular, and Developmental Biology, UCR (Jan. 2016-June 2016)
Rachel Hipszer, Major: Marine Science, UofSC (June 2014-April 2015)
Gregory Isales, Major: Marine Science, Honors College, UofSC (Feb. 2013-Dec. 2014)
Luke Bassett, Major: Marine Science, Honors College, UofSC (Aug. 2013-April 2014)
Casey Lindberg, Major: Marine Science, Honors College, UofSC (Aug. 2013-April 2014)
William Johansen, Major: Environmental Science, UofSC (Jan. 2011-Aug. 2011)

COMPETITIVE RESEARCH SUPPORT

Active Awards

D01053OASI (PI: Volz; Co-I: Bahreini; Co-I: Ajami) 2/01/2025 – 6/30/2026
UCR Office of Research & Economic Development Total Amount: $50,000
Airborne, In-Vehicle Exposure to Tris(1,3-dichloro-2-propyl) phosphate across Diverse Microclimates in Southern California

T32ES018827 (PI: Wang; Co-I: Volz; Co-I: Zhong) 7/01/2021 – 6/30/2026
NIH/NIEHS Total Amount: $2,144,354
Research Training in Environmental Toxicology

Completed Awards

R839502 (PI: zur Nieden; Co-I: Volz) 8/01/2019 – 4/28/2025
US EPA/NCER Total Amount: $849,811
Skeletal Teratogenicity of Industrial and Environmental Chemicals Predicted with Human Pluripotent Stem Cells In Vitro

D02000A015 (PI: Volz; Co-I: Zhou) 3/01/2024 – 2/28/2025
UCR School of Medicine Total Amount: $25,000
Mechanisms of Perfluorooctanesulfonamide-Induced Developmental Toxicity

R01ES027576 (PI: Volz; Co-I: Stapleton) 3/1/2017 – 2/29/2024
NIH/NIEHS Total Amount: $1,884,746
Developmental Toxicity of Organophosphate-Based Flame Retardants

1709719 (PI: Liu; Co-I: Volz) 9/1/2017 – 8/31/2020
NSF Total Amount: $325,000
SusChEM: Collaborative Research: Cobalt-catalyzed Defluorination of Branched Perfluorinated Compounds

R21ES022797 (PI: Volz; Co-I: Stapleton) 5/9/2014 – 4/30/2017
NIH/NIEHS Total Amount: $408,352
Developmental Toxicity of Organophosphate-Based Flame Retardants

R835169 (PI: Volz) 6/01/2012 – 5/31/2015
US EPA/NCER Total Amount: $1,063,460
Imaging Assessment of G-Protein-Coupled Estrogen Receptor Activation

11510-14-34470 (PI: Volz; Co-I: Isales) 1/1/2014 – 12/31/2014
USC Office of Undergraduate Research Total Amount: $2,500
Mechanisms of Triphenyl Phosphate (TPP)-Induced Cardiac Looping Impairments

13010-13-32471 (PI: Davis; Co-I: Volz) 5/16/2013 – 9/14/2014
USC Office of Research Total Amount: $14,707
Generating Novel Zebrafish Lines to Study Pituitary Organogenesis

11510-11-26377 (PI: Volz) 4/15/2011 – 7/15/2012
USC Office of Research Total Amount: $19,924
Developmental Neurotoxicity of an Alternative Flame Retardant (Firemaster 550) Widely Detected Within Indoor Environments

FP916422 (PI: Volz) 1/1/2004 – 12/31/2006
U.S. EPA/NCER (Graduate Fellowship) Total Amount: $111,172
Molecular Biomarkers of Chemically-Mediated Hepatocarcinogenesis in Laboratory-Reared and Wild Teleost Populations

PEER-REVIEWED PUBLICATIONS (*senior/corresponding author; trainees underlined)

85. Hoang J, Jimenez N, Faizi K, Xiang Q, Fencl E, Yates R, Gan J, **Volz DC***. 2025. Perfluorooctanesulfonamide-induced epiboly delay is associated with decreased ATP production within zebrafish embryos. *Ecotoxicol. Environ. Saf.* 307:119479.
84. **Volz DC***, Wiegand J, Hoang J. 2025. Standardizing Exposure Media to Enhance the Rigor and Reproducibility of Zebrafish Embryo-Based Toxicity Assays. *Environ. Sci. Technol.* 59(42):22331-22333.
83. **Volz DC***. 2025. A proposal to permanently ban flame retardant chemicals to meet California's flammability standard for upholstered furniture. *Environ. Sci. Technol.* 59(17):8298-8300.
82. Hoang J, Wiegand J, Mersman Z, Michalicek K, Jimenez N, **Volz DC***. 2024. Aryl phosphate ester-induced pericardial edema in zebrafish embryos is influenced by the ionic composition of exposure media. *Aquat. Toxicol.* 276:107121.
81. Reddam A, Herkert N, Stapleton HM, **Volz DC***. 2024. Silicone wristbands reveal ubiquitous human exposure to ortho-phthalates and non-ortho-phthalate plasticizers in Southern California. *Environ. Res.* 258:119465.
80. Avila-Barnard S, Ha M, Nemarugommula C, Wiegand J, Ke H, De Souza A, Behar R, **Volz DC***. 2024. Tris(1,3-dichloro-2-propyl) phosphate disrupts cellular metabolism within human embryonic kidney (HEK293) cells. *J. Hazard. Mater.* 466:133660.
79. Wiegand J, Hoang J, Avila-Barnard S, Nemarugommula C, Ha M, Zhang S, Stapleton HM, **Volz DC***. 2023. Triphenyl phosphate-induced pericardial edema in zebrafish embryos is reversible following depuration in clean water. *Aquat. Toxicol.* 263:106699.
78. Wiegand J, Avila-Barnard S, Nemarugommula C, Lyons D, Zhang S, Stapleton HM, **Volz DC***. 2023. Triphenyl phosphate-induced pericardial edema in zebrafish embryos is dependent on the ionic strength of exposure media. *Environ. Int.* 172:107757.
77. Karmach O, Madrid JV, Dasgupta S, **Volz DC**, zur Nieden NI. 2022. Embryonic exposure to cigarette smoke extract impedes skeletal development and evokes craniofacial defects in zebrafish. *Int. J. Mol. Sci.* 23(17):9904.
76. Avila-Barnard S, **Volz DC***. 2022. Rapid and efficient spatiotemporal monitoring of normal and aberrant cytosine methylation within intact zebrafish embryos. *JoVE* 186:e64190.
75. Cheng V, **Volz DC***. 2022. Halogenated bisphenol A analogues induce PPARγ-independent toxicity within human hepatocellular carcinoma cells. *Curr. Res. Toxicol.* 3:100079.
74. Magnuson JT, Qian L, McGruer V, Cheng V, **Volz DC**, Schlenk D. 2022. Relationship between miR-203a inhibition and oil-induced toxicity in early life stage zebrafish (*Danio rerio*). *Toxicol. Rep.* 9:373–381.
73. Avila-Barnard S, Dasgupta S, Cheng V, Reddam A, Wiegand J, **Volz DC***. 2022. Tris(1,3-dichloro-2-propyl) phosphate disrupts the trajectory of cytosine methylation within developing zebrafish embryos. *Environ. Res.* 211:113078.
72. Reddam A, Herkert N, Stapleton HM, **Volz DC***. 2022. Partial dust removal in vehicles does not mitigate human exposure to organophosphate esters. *Environ. Res.* 205:112525.

71. Wiegand J, Cheng V, Reddam A, Avila-Barnard S, **Volz DC***. 2022. Triphenyl phosphate-induced pericardial edema is associated with elevated epidermal ionocytes within zebrafish embryos. *Environ. Toxicol. Pharmacol.* 89:103776.
70. Greer JB, Magnuson JT, McGruer V, Qian L, Dasgupta S, **Volz DC**, Schlenk D. 2021. miR133b microinjection during early development targets transcripts of cardiomyocyte ion channels and induces oil-like cardiotoxicity in zebrafish (*Danio rerio*) embryos. *Chem. Res. Toxicol.* 34(10):2209-2215.
69. Dasgupta S, Cheng V, **Volz DC***. 2021. Utilizing zebrafish embryos to reveal disruptions in dorsoventral patterning. *Current Protocols* 1:e179.
68. **Volz DC***, Cannon J, Tal T. 2021. Introduction to leveraging non-mammalian models for developmental neurotoxicity testing. *Neurotoxicol. Teratol.* 87:107001.
67. Cheng V, Reddam A, Bhatia A, Hur M, Kirkwood JS, **Volz DC***. 2021. Utilizing systems biology to reveal cellular responses to peroxisome proliferator-activated receptor γ ligand exposure. *Curr. Res. Toxicol.* 2:169-178.
66. Tanabe P, Mitchell CA, Cheng V, Chen Q, **Volz DC**, Schlenk D. 2021. Stage-dependent and regioselective toxicity of 2- and 6-hydroxychrysene during Japanese medaka embryogenesis. *Aquat. Toxicol.* 234:105791.
65. McGruer V, Tanabe P, Vliet SMF, Dasgupta S, Qian L, **Volz DC**, Schlenk D. 2021. Effects of phenanthrene exposure on cholesterol homeostasis and cardiotoxicity in zebrafish embryos. *Environ. Toxicol. Chem.* 40(6):1586-1595.
64. Reddam A, **Volz DC***. 2021. Inhalation of two Prop 65-listed chemicals within vehicles may be associated with increased cancer risk. *Environ. Int.* 149:106402.
63. Qian L, Qi S, Wang Z, Magnuson JT, **Volz DC**, Schlenk D, Jiang J, Wang C. 2020. Environmentally relevant concentrations of boscalid exposure affects the neurobehavioral response of zebrafish by disrupting visual and nervous systems. *J. Hazard. Mater.* 404:124083.
62. Nair V, Tran M, Behar RZ, Zhai S, Cui X, Phandthong R, Wang Y, Pan S, Luo W, Pankow JF, **Volz DC**, Talbot P. 2020. Menthol in electronic cigarettes: A contributor to respiratory disease? *Toxicol. Appl. Pharmacol.* 407:115238.
61. Coffin S, Magnuson JT, Vliet SMF, **Volz DC**, Schlenk D. 2020. Effects of short-term exposure to environmentally-relevant concentrations of benzo(a)pyrene-sorbed polystyrene to White seabass (*Atractoscion nobilis*) *Environ. Pollut.* 263:114617.
60. Reddam A, Tait G, Herkert N, Hammel SC, Stapleton HM, **Volz DC***. 2020. Longer commutes are associated with increased human exposure to tris(1,3-dichloro-2-propyl) phosphate. *Environ. Int.* 136:105499.
59. Cheng V, Dasgupta S, Reddam A, **Volz DC***. 2019. Ciglitazone – a human PPARγ agonist – disrupts dorsoventral patterning in zebrafish. *PeerJ* 7:e8054.
58. Dasgupta S, Reddam A, Liu Z, Liu J, **Volz DC***. 2019. High-content screening in zebrafish identifies perfluorooctanesulfonamide as a potent developmental toxicant. *Environ. Pollut.* 256:113550.
57. Giroux M, Vliet SMF, **Volz DC**, Gan J, Schlenk D. 2019. Mechanisms behind interactive effects of temperature and bifenthrin on the predator avoidance behavior in parr of Chinook salmon (*Oncorhynchus tshawytscha*). *Aquat. Toxicol.* 216:105312.
56. Dasgupta S, Vliet SMF, Cheng V, Mitchell CA, Kirkwood J, Vollaro A, Hur M, Mehdizadeh C, **Volz DC***. 2019. Complex interplay among nuclear receptor ligands, cytosine methylation, and the metabolome in driving tris(1,3-dichloro-2-propyl) phosphate-induced epiboly defects in zebrafish. *Environ. Sci. Technol.* 53(17):10497-10505.
55. Vliet SMF, Dasgupta S, Sparks NRL, Kirkwood JS, Vollaro A, Hur M, zur Nieden NI, **Volz DC***. 2019. Maternal-to-zygotic transition as a potential target for niclosamide during early embryogenesis. *Toxicol. Appl. Pharmacol.* 380:114699.

54. Reddam A, Mitchell CA, Dasgupta S, Kirkwood JS, Vollaro A, Hur M, **Volz DC***. 2019. mRNA-sequencing identifies liver as a potential target organ for triphenyl phosphate in embryonic zebrafish. *Toxicol. Sci.* 172(1):51-62.
53. Morgan MA, Griffith CM, **Volz DC**, Larive CK. 2019. TDCIPP exposure affects *Artemia franciscana* growth and osmoregulation. *Sci. Total Environ.* 694:133486.
52. Pozuelos GL, Kagda MS, Schick S, Girke T, **Volz DC**, Talbot P. 2019. Experimental acute exposure to thirdhand smoke and changes in the human nasal epithelial transcriptome: A randomized clinical trial. *JAMA Network Open* 2(6):e196362.
51. Mitchell CA, Reddam A, Dasgupta S, Zhang S, Stapleton HM, **Volz DC***. 2019. Diphenyl phosphate-induced toxicity during embryonic development. *Environ. Sci. Technol.* 53(7):3908-3916.
50. Xu EG, Khursigara AJ, Li S, Esbaugh AJ, Dasgupta S, **Volz DC**, Schlenk D. 2019. mRNA-miRNA-seq reveals neuro-cardio mechanisms of crude oil toxicity in red drum (*Sciaenops ocellatus*). *Environ. Sci. Technol.* 53(6):3296-3305.
49. Hamm JT, Ceger P, Allen D, Stout M, Maull EA, Baker G, Zmarowski A, Padilla S, Perkins E, Planchart A, Stedman D, Tal T, Tanguay RL, **Volz DC**, Wilbanks MS, Walker NJ. 2018. Characterizing sources of variability in zebrafish embryo screening protocols. *ALTEX* 36(1):103-120.
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5. Chandler GT, **Volz DC**. 2004. Semi-quantitative confocal laser scanning microscopy applied to marine invertebrate ecotoxicology. *Mar. Biotechnol.* 6(2):128-137.
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BOOK CHAPTERS

1. Solomon KR, Dalhoff K, **Volz DC**, Van der Kraak G. 2013. Effects of herbicides on fish. In: *Fish Physiology, Vol. 33 – Organic Chemical Toxicology of Fishes.* (Tierney KB, Farrell AP, Brauner CJ, Eds.), pp. 369-409. Elsevier Inc., London, UK.

SCIENTIFIC PRESENTATIONS

Invited Seminars

1. Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, USA, 3/13/25. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
2. Mailman School of Public Health, Columbia University, New York, NY, USA, 1/10/25. Invited Panelist for *PI Crash Course: Skills for Future or New Lab Leaders*
3. Nanyang Environment and Water Research Institute, Nanyang Technological University, Singapore, 5/30/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
4. Department of Environmental Engineering, SEOULTECH, Seoul, South Korea, 5/27/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
5. Department of Biomedical Sciences, Chung Shan Medical University, Taichung, Taiwan, 5/23/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
6. Department of Environmental Engineering, National Cheng Kung University, Tainan, Taiwan, 5/22/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
7. Department of Agricultural Chemistry, National Taiwan University, Taipei, Taiwan, 5/21/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
8. Department of Veterinary Sciences, University of Antwerp, Antwerp, Belgium, 5/17/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
9. Chemicals in the Environment, Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany, 5/15/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
10. Department of Environmental Toxicology, Eawag, Dubendorf, Switzerland, 5/3/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
11. Department of Environmental and Global Health, University of Florida, Gainesville, FL, USA, 4/17/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
12. Department of Biological Sciences, Clemson University, Clemson, SC, USA, 4/15/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*

13. Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, NY, USA, 4/11/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
14. Department of Biological Sciences, North Carolina State University, Raleigh, NC, USA, 4/9/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
15. Department of Environmental Health Sciences, University of Massachusetts, Amherst, MA, USA, 4/3/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
16. Department of Environmental Toxicology, University of California, Davis, CA, USA, 2/27/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
17. Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, USA, 2/22/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
18. Department of Environmental and Molecular Toxicology, Oregon State University, Corvallis, OR, USA, 2/20/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
19. Environmental Toxicology Graduate Program, University of California, Riverside, CA, USA, 1/10/24. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
20. Department of Environmental Health Sciences, Fielding School of Public Health, University of California, Los Angeles, CA, USA, 10/18/23. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
21. Center for Occupational and Environmental Health, University of California, Irvine, CA, USA, 10/6/23. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
22. Division of Environmental Health, School of Public Health, San Diego State University, San Diego, CA, USA, 9/22/23. Seminar Title: *Human Exposure and Health Effects of Organophosphate-Based Flame Retardants*
23. Department of Natural Sciences, University of South Carolina, Beaufort, SC, USA, 3/25/22. Seminar Title: *Exposure and Health Effects of Tris(1,3-dichloro-2-propyl) phosphate (TDCIPP) within Inland Southern California Commuters*
24. Integrated Toxicology & Environmental Health Program, Duke University, Durham, NC, USA, 3/17/22. Seminar Title: *Exposure and Health Effects of Tris(1,3-dichloro-2-propyl) phosphate (TDCIPP) within Inland Southern California Commuters*
25. Environmental Toxicology Graduate Program, University of California, Riverside, CA, USA, 10/27/2021. Seminar Title: *Industry to Academia: A Perspective From 15 Years Out*
26. University of California, Riverside, CA, USA. 5/12/2021. Seminar Title: *Advancing Environmental Health Sciences Research at UC Riverside*
27. PETA ISC – US EPA – PCRM (webinar), USA. 11/13/2019. Seminar Title: *Alternatives to the Fish Early Life- Stage Test: A Strategy for Discovering and Annotating Adverse Outcome Pathways for Early Fish Development*
28. Seoul National University of Science and Technology, South Korea. 8/26/2019. Seminar Title: *Leveraging Zebrafish to Unravel Mechanisms of Organophosphate Flame Retardant-Induced Developmental Toxicity*
29. Department of Chemistry, University of California, Irvine, CA, USA. 3/15/2019. Seminar Title: *Predicting Risk in an Uncertain World: A Case Study with Organophosphate Flame Retardants*

30. Graduate Student Leadership Committee, Society of Toxicology (webinar), USA. 2/20/2019. Seminar Title: *Finding Effective Mentor(s) as a Trainee*
31. Environmental Toxicology Graduate Program, University of California, Riverside, CA, USA, 10/24/2018. Seminar Title: *Globalization of the Chemical Market: Challenges and Opportunities for Safety Testing*
32. Department of Toxic Substances Control, California EPA, Berkeley, CA, USA, 9/13/17. Seminar Title: *Leveraging Zebrafish to Unravel Mechanisms of Organophosphate Flame Retardant-Induced Developmental Toxicity*
33. Environmental Toxicology Graduate Program, University of California, Riverside, CA, USA, 6/2/2017. Seminar Title: *Industry to Academia: A Perspective From 10 Years Out*
34. School of Health Sciences, Purdue University, West Lafayette, IN, USA, 3/28/2017. Seminar Title: *Leveraging Zebrafish to Unravel Mechanisms of Organophosphate Flame Retardant-Induced Developmental Toxicity*
35. Dept. of Pediatric Medicine, University of California, San Diego, CA, USA, 3/23/2017. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
36. Dept. of Pesticide Regulation, California EPA, Sacramento, CA, USA, 1/20/2017. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
37. NIEHS T32 Seminar Series, University of California, Davis, CA, USA, 1/19/2017. Seminar Title: *Leveraging Zebrafish to Unravel Mechanisms of Organophosphate Flame Retardant-Induced Developmental Toxicity*
38. Integrated Toxicology and Environmental Health Program, Duke University, Durham, NC, USA, 9/30/2016. Seminar Title: *Industry to Academia: A Perspective From 10 Years Out*
39. University of California, Riverside, CA, USA. 3/30/2016. Seminar Title: *Zebrafish as a Model for Environmental Epigenetics: A Case Study with TDCPP*
40. Southern California Coastal Water Research Project, Costa Mesa, CA, USA, 12/11/2015. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
41. Water SENSE IGERT Program, University of California, Riverside, CA, USA, 11/10/2015. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
42. Molecular Devices User Meeting, Del Mar, CA, USA, 9/24/2015. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
43. Mid-Continent Ecology Division, US Environmental Protection Agency, Duluth, MN, USA, 3/11/2015. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
44. Environmental Toxicology Graduate Program, University of California, Riverside, CA, USA, 2/9/2015. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
45. HESI Animal Alternatives Subcommittee (webinar), Washington, DC, USA, 1/28/2015. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
46. Engineer Research and Development Center, US Army Corps of Engineers, Vicksburg, MS, USA, 1/6/2015. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
47. Department of Biology, Western Carolina University, Cullowhee, NC, USA, 10/24/2014. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
48. HESI Genomics Committee Meeting, Washington, DC, USA, 10/10/2014. Seminar Title: *Zebrafish as a Model for Environmental Epigenetics: A Case Study with TDCPP*
49. NIEHS/NTP, Research Triangle Park, NC, USA, 7/22/2014. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
50. NIEHS/NTP Aquatic Models Workshop, North Carolina State University, Raleigh, NC, USA, 5/5/2014. Seminar Title: *High-Content Screening Assay for Identification of Chemicals Impacting Cardiovascular Function in Zebrafish Embryos*

51. Fort Johnson Marine Science Seminar Series, Charleston, SC, USA, 4/18/2014. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
52. School of Pharmacy, Presbyterian College, Clinton, SC, USA, 3/31/2014. Seminar Title: *High-Content Screening of Chemical Toxicity in Zebrafish Embryos*
53. Department of Natural Science, University of South Carolina-Beaufort, Bluffton, SC, USA, 3/7/2014. Seminar Title: *High-Content Screening Assays for Identification of Chemicals Impacting Cardiovascular and Early Nervous System Development*
54. Marine Science Program, University of South Carolina, Columbia, SC, USA, 1/31/2014. Seminar Title: *High-Content Screening Assays for Identification of Chemicals Impacting Cardiovascular and Early Nervous System Development*
55. California Environmental Protection Agency (Cal/EPA), Sacramento, CA, USA, 9/9/2013. Seminar Title: *Alternatives to the Fish Early Life- Stage Test: A Strategy for Discovering and Annotating Adverse Outcome Pathways for Early Fish Development*
56. Dept. of Environmental Health Sciences, Arnold School of Public Health, University of South Carolina, Columbia, SC, USA, 8/28/2013. Seminar Title: *Developmental Toxicity of Organophosphate-Based Flame Retardants*
57. Center for Bioethics, Dept. of Philosophy, University of South Carolina, Columbia, SC, USA, 3/20/2013. Seminar Title: *The Atrazine Story: A Perspective from the Front Lines of Controversy*
58. Integrated Toxicology and Environmental Health Program, Duke University, Durham, NC, USA, 3/1/2013. Seminar Title: *Early Zebrafish Embryogenesis is Susceptible to Developmental TDCPP Exposure*
59. Dept. of Biological Sciences/Environmental Toxicology Program (ENTOX), Clemson University, Clemson, SC, USA, 2/12/2013. Seminar Title: *Developmental Toxicity of Organophosphate-Based Flame Retardants*
60. Dept. of Soil and Water Sciences, China Agricultural University, Beijing, China, 9/19/2012. Seminar Title: *The Tricky Business of Ecological Risk Analysis*
61. Center for Environmental and Human Toxicology, University of Florida, Gainesville, FL, USA, 10/20/2011. Seminar Title: *G Protein-Coupled Estrogen Receptor (GPER): A Target for Xenoestrogens During Vertebrate Embryogenesis*
62. Integrated Toxicology and Environmental Health Program, Duke University, Durham, NC, USA, 9/30/2011. Seminar Title: *Aberrant Ligand-Induced Activation of GPER Results in Developmental Malformations During Vertebrate Embryogenesis*
63. School of Medicine, University of South Carolina, Columbia, SC, USA, 4/18/2011. Seminar Title: *Zebrafish Models of Environmental Disease*
64. Dept. of Biology and Geology, University of South Carolina, Aiken, SC, USA, 3/4/2011. Seminar Title: *Zebrafish Models of Environmental Disease*
65. Dept. of Environmental Health Sciences, Arnold School of Public Health, University of South Carolina, Columbia, SC, USA, 2/2/2011. Seminar Title: *The Atrazine Story: An Analysis from the Front Lines of Controversy*
66. Dept. of Civil and Environmental Engineering, University of South Carolina, Columbia, SC, USA, 2/5/2010. Seminar Title: *Small Fish Models for Predictive Toxicology*
67. Dept. of Environmental Health Sciences, Arnold School of Public Health, University of South Carolina, Columbia, SC, USA, 9/4/2009. Seminar Title: *Small Fish Models of Chemically-Induced Human Diseases*
68. NERC International Workshop on Fish Toxicogenomics. Environment Canada, North Vancouver, BC, Canada, 4/21/2008; Seminar Title: *Predictive (Eco)Toxicogenomics: Acute vs. Adaptive Responses in Fish Following Chemical Exposure*

69. Dept. of Environmental and Molecular Toxicology, North Carolina State University, Raleigh, NC, USA, 11/20/2007; Seminar Title: *Modeling Potential Atrazine-Induced Changes in Midwestern Stream Ecosystems*
70. Dept. of Biology, Appalachian State University, Boone, NC, USA, 9/26/2007; Seminar Title: *Toxicogenomics: A Powerful Platform for Identifying Estrogen-Mimicking Chemicals*
71. Carolinas SETAC Meeting, Athens, GA, USA, 4/11/2007; Seminar Title: *Toxicogenomics: A Powerful Platform for Identifying Estrogen- and Androgen-Mimicking Chemicals*

Guest Lectures

1. ENTX 101, Dept. of Environmental Sciences, University of California, Riverside, CA, USA, 2/4/2019. Lecture Title: *Developmental Toxicology*
2. ENTX 101, Dept. of Environmental Sciences, University of California, Riverside, CA, USA, 2/9/2018. Lecture Title: *Developmental Toxicology*
3. ENTX 101, Dept. of Environmental Sciences, University of California, Riverside, CA, USA, 2/6/2017. Lecture Title: *Developmental Toxicology*
4. ENSC 208, Dept. of Environmental Sciences, University of California, Riverside, CA, USA, 2/17/2016. Lecture Title: *Atrazine Ecological Watershed Monitoring Program*
5. ENTX 101, Dept. of Environmental Sciences, University of California, Riverside, CA, USA, 2/5/2016. Lecture Title: *Developmental Toxicology*
6. ENSC 208, Dept. of Environmental Sciences, University of California, Riverside, CA, USA, 2/5/2016. Lecture Title: *Alternatives to the Fish Early Life- Stage Test: A Research Strategy for Discovering and Annotating Adverse Outcome Pathways for Early Fish Development*
7. ENVR 202, School of the Environment, University of South Carolina, Columbia, SC, USA, 1/27/2011. Lecture Title: *The Atrazine Story: An Analysis from the Front Lines of Controversy*

Invited Conference Presentations (students advised are underlined)

1. **Volz DC**. 2024. In-Vehicle Exposure of Southern California Commuters to Tris(1,3-dichloro-2-propyl) phosphate. 14th Biennial Meeting of the Society of Environmental Toxicology and Chemistry – Asia-Pacific, Tianjin, China. (keynote talk)
2. **Volz DC**. 2024. In-Vehicle Exposure of Southern California Commuters to Tris(1,3-dichloro-2-propyl) phosphate. Annual Meeting of the Southern California Chapter of the Society of Environmental Toxicology and Chemistry (SETAC), Lake Arrowhead, CA, USA. (keynote talk)
3. **Volz DC**. 2023. Tris(1,3-dichloro-2-propyl) phosphate: In-Vehicle Exposure and Health Risks to Southern California Commuters. Outstanding New Environmental Scientist (ONES) and Revolutionizing Innovative, Visionary Environmental Health Research (RIVER) Awardee Symposium, NIEHS/NIH, Research Triangle Park, NC, USA. (platform)
4. **Volz DC**. 2023. Exposure and Health Effects of Organophosphate Esters within Inland Southern California Commuters. 62nd Annual Meeting of the Society of Toxicology, Nashville, TN, USA. (platform)
5. **Volz DC**. 2021. UC Riverside Superfund Research Program. Annual Symposium on Health Disparities Research at UCR, Riverside, CA, USA. (virtual platform)
6. Reddam A, Tait G, Herkert N, Hammel SC, Stapleton HM, **Volz DC**. 2020. Longer commutes are associated with increased human exposure to tris(1,3-dichloro-2-propyl) phosphate. Outstanding New Environmental Scientist (ONES) Grantee Meeting, NIEHS/NIH, Research Triangle Park, NC, USA. (virtual platform)
7. **Volz DC**. 2020. UC Riverside Superfund Research Program (UCR-SRP): Human Exposure and Effects of Arsenic-Contaminated Groundwater within Low-Income Communities of Eastern

Coachella Valley. Inaugural Annual Symposium on Health Disparities Research at UCR, Palm Desert, CA, USA. (platform)

8. **Volz DC**, Kupsco A, Dasgupta S. 2019. Dynamic alterations in DNA methylation precede tris(1,3-dichloro-2-propyl) phosphate-induced delays in zebrafish epiboly. 59th Annual Meeting of the Teratology Society, San Diego, CA, USA. (platform)
9. **Volz DC**. 2018. Leveraging Zebrafish to Unravel Mechanisms of Organophosphate Flame Retardant-Induced Developmental Toxicity. Outstanding New Environmental Scientist (ONES) Awardee Symposium, NIEHS/NIH, Research Triangle Park, NC, USA. (platform)
10. **Volz DC**. 2018. Leveraging Illumina-based sequencing to reveal chemically-induced alterations in genome-wide cytosine methylation. 57th Annual Meeting of the Society of Toxicology, San Antonio, TX, USA. (platform)
11. **Volz DC**. 2016. High-content screening of chemical toxicity in zebrafish embryos. 4th Symposium on Fish and Amphibian Embryos as Alternative Models in Toxicology and Teratology, Paris, France. (platform)
12. **Volz DC**, Vliet S, Raftery T. 2016. High-content screening of developmental neurotoxicity in zebrafish embryos. 56th Annual Meeting of the Teratology Society, San Antonio, TX, USA. (platform)
13. **Volz DC**, Elliott KC. 2012. Mitigating conflicts of interest in chemical safety testing: A proposal for enhancing public trust while sustaining productivity and profitability. 4th International Symposium on Pesticide and Environmental Safety, Beijing, China. (platform)
14. **Volz DC**, Belanger S, Embry M, Padilla S, Sanderson H, Schirmer K, Scholz S, Villeneuve D. 2011. Adverse outcome pathways during early fish development: A conceptual framework for identification of chemical screening and prioritization strategies. 32nd Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Boston, MA, USA. (platform)

Conference Presentations (trainees advised are underlined)

1. **Volz DC**, Wiegand J, Hoang J. 2025. Standardizing exposure media to enhance rigor and reproducibility of zebrafish embryo-based toxicity assays: A case study with triphenyl phosphate. 2025 Cellular and Molecular Mechanisms of Toxicity, Gordon Research Conference, Andover, NH, USA. (poster)
2. **Volz DC**, Reddam A, Herkert N, Stapleton HM. 2025. Silicone wristbands reveal ubiquitous human exposure to ortho-phthalates and non-ortho-phthalate plasticizers in Southern California. 64th Annual Meeting of the Society of Toxicology, Orlando, FL, USA. (poster)
3. **Volz DC**, Reddam A, Herkert N, Stapleton HM. 2024. In-vehicle exposure of Southern California commuters to tris(1,3-dichloro-2-propyl) phosphate. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry – Europe, Seville, Spain. (poster)
4. Hoang J, Wiegand J, Mersman Z, Michalicek K, Jimenez N, **Volz DC**. 2024. Osmotic diuretic exposure blocks aryl phosphate ester-induced pericardial edema in zebrafish embryos. 34th Annual Meeting of the of the Society of Environmental Toxicology and Chemistry – Europe, Seville, Spain. (poster)
5. Hoang J, Wiegand J, Mersman Z, Michalicek K, Jimenez N, **Volz DC**. 2024. Osmotic diuretic exposure blocks aryl phosphate ester-induced pericardial edema in zebrafish embryos. 63rd Annual Meeting of the Society of Toxicology, Salt Lake City, UT, USA. (poster)
6. Avila-Barnard S, Wiegand J, Nemarugommula C, **Volz DC**. 2023. Tris (1,3-dichloro-2-propyl) phosphate disrupts cellular metabolism within human embryonic kidney (HEK293) cells. 63rd Annual Meeting of the Society for Birth Defects Research & Prevention, Charleston, SC, USA. (poster)

7. Wiegand J, Avila-Barnard S, Nemarugommula C, Zhang S, Stapleton HM, Lyons D, **Volz DC**. 2023. Triphenyl phosphate-induced pericardial edema in zebrafish embryos is dependent on the ionic strength of exposure media. 63rd Annual Meeting of the Society for Birth Defects Research & Prevention, Charleston, SC, USA. (poster)
8. Avila-Barnard S, Nemarugommula C, **Volz DC**. 2023. Tris (1,3-dichloro-2-propyl) phosphate disrupts cellular metabolism within human embryonic kidney (HEK293) cells. 62nd Annual Meeting of the Society of Toxicology, Nashville, TN, USA. (poster)
9. Wiegand J, Avila-Barnard S, Nemarugommula C, Zhang S, Stapleton HM, Lyons D, **Volz DC**. 2023. Triphenyl phosphate-induced pericardial edema is dependent on media ionic strength and disruption of the embryonic yolk sac epithelium. 62nd Annual Meeting of the Society of Toxicology, Nashville, TN, USA. (poster)
10. Wiegand J, Cheng V, Reddam A, Avila-Barnard S, **Volz DC**. 2022. Triphenyl phosphate-induced pericardial edema is associated with elevated epidermal ionocytes within zebrafish embryos. 62nd Annual Meeting of the Society for Birth Defects Research & Prevention, Vancouver, BC, Canada. (poster)
11. Avila-Barnard S, Dasgupta S, Cheng V, Reddam A, Wiegand J, **Volz DC**. 2022. Tris(1,3-dichloro-2-propyl) phosphate disrupts the normal trajectory of cytosine methylation within developing zebrafish embryos. 62nd Annual Meeting of the Society for Birth Defects Research & Prevention, Vancouver, BC, Canada. (poster)
12. Cheng V, **Volz DC**. 2022. Halogenated bisphenol A analogues induce PPARγ-independent toxicity within human hepatocellular carcinoma cells. 61st Annual Meeting of the Society of Toxicology, San Diego, CA, USA. (poster)
13. Reddam A, Herkert N, Stapleton HM, **Volz DC**. 2022. Partial dust removal in vehicles does not mitigate human exposure to organophosphate esters. 61st Annual Meeting of the Society of Toxicology, San Diego, CA, USA. (poster)
14. Wiegand J, Cheng V, Reddam A, Avila-Barnard S, **Volz DC**. 2022. Triphenyl phosphate-induced pericardial edema is associated with elevated epidermal ionocytes within zebrafish embryos. 61st Annual Meeting of the Society of Toxicology, San Diego, CA, USA. (poster)
15. Avila-Barnard S, Dasgupta S, Cheng V, Reddam A, Wiegand J, **Volz DC**. 2022. Tris(1,3-dichloro-2-propyl) phosphate disrupts the normal trajectory of cytosine methylation within developing zebrafish embryos. 61st Annual Meeting of the Society of Toxicology, San Diego, CA, USA. (poster)
16. Wiegand J, Cheng V, Reddam A, Avila-Barnard S, **Volz DC**. 2021. Triphenyl phosphate-induced pericardial edema is associated with elevated ionocytes within zebrafish embryos. 42nd Annual Meeting of the American College of Toxicology. (virtual poster)
17. Avila-Barnard S, Dasgupta S, Cheng V, Reddam A, Wiegand J, **Volz DC**. 2021. Tris(1,3-dichloro-2-propyl) phosphate disrupts the trajectory of DNA methylation within developing zebrafish embryos. 42nd Annual Meeting of the American College of Toxicology. (virtual poster)
18. Reddam A, **Volz DC**. 2021. Inhalation of two Prop 65-listed chemicals within vehicles may be associated with increased cancer risk. 60th Annual Meeting of the Society of Toxicology. (virtual poster)
19. McGruer V, Tanabe P, Vliet SMF, Dasgupta S, **Volz DC**, Schlenk D. 2020. Investigating patterns in transcriptome data: lipid and cholesterol dysregulation in phenanthrene-exposed zebrafish embryos. 41st Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America. (virtual platform)
20. Reddam A, Tait G, Herkert N, Hammel SC, Stapleton HM, **Volz DC**. 2020. Longer commutes are associated with increased human exposure to tris(1,3-dichloro-2-propyl) phosphate. 30th Annual Meeting of the International Society of Exposure Science. (virtual poster)

21. Dasgupta S, Reddam A, Liu Z, Liu J, **Volz DC**. 2020. High-content screening in zebrafish identifies perfluorooctanesulfonamide as a potent developmental toxicant. 59th Annual Meeting of the Society of Toxicology. (virtual platform)
22. Reddam A, Tait G, Herkert N, Hammel SC, Stapleton HM, **Volz DC**. 2020. Longer commutes are associated with increased human exposure to tris(1,3-dichloro-2-propyl) phosphate. 59th Annual Meeting of the Society of Toxicology. (virtual poster)
23. Cheng V, Dasgupta S, Reddam A, **Volz DC**. 2020. Ciglitazone – a human PPARγ agonist – disrupts dorsoventral patterning in zebrafish. 59th Annual Meeting of the Society of Toxicology. (virtual poster)
24. Cheng V, Reddam A, Dasgupta S, **Volz DC**. 2019. Aberrant activation of peroxisome proliferator-activated receptor γ (PPARγ) disrupts dorsoventral patterning during early zebrafish embryogenesis. IUTOX International Congress of Toxicology, Honolulu, HI, USA. (poster)
25. Dasgupta S, Cheng V, Vliet SMF, Mitchell CA, **Volz DC**. 2019. Tris(1,3-dichloro-2-propyl) phosphate exposure during early development alters the normal trajectory of zebrafish embryogenesis. IUTOX International Congress of Toxicology, Honolulu, HI, USA. (poster)
26. Reddam A, Mitchell CA, Dasgupta S, **Volz DC**. 2019. mRNA-sequencing identifies liver as a potential target organ for triphenyl phosphate in embryonic zebrafish. IUTOX International Congress of Toxicology, Honolulu, HI, USA. (poster)
27. **Volz DC**, Kupsco A, Dasgupta S. 2019. Dynamic alterations in DNA methylation precede tris(1,3-dichloro-2-propyl) phosphate-induced delays in zebrafish epiboly. IUTOX International Congress of Toxicology, Honolulu, HI, USA. (poster)
28. Greer JB, Dasgupta S, Pampanin DM, **Volz DC**, Schlenk D. 2019. Overabundance of microRNA 133b induces oil-like cardiotoxicity in developing zebrafish (*Danio rerio*) embryos. IUTOX International Congress of Toxicology, Honolulu, HI, USA. (poster)
29. Cheng V, Reddam A, Dasgupta S, **Volz DC**. 2019. PPARγ agonist-induced disruption of dorsoventral patterning in zebrafish. 59th Annual Meeting of the Teratology Society, San Diego, CA, USA. (poster)
30. Dasgupta S, Cheng V, Mitchell CA, **Volz DC**. 2019. Unraveling mechanisms of tris(1,3-dichloro-2-propyl) phosphate-induced epiboly arrest in zebrafish. 59th Annual Meeting of the Teratology Society, San Diego, CA, USA. (platform)
31. Mitchell CA, Dasgupta S, **Volz DC**. 2019. Diphenyl phosphate-induced toxicity during embryonic development. 58th Annual Meeting of the Society of Toxicology, Baltimore, MD, USA. (poster)
32. Pozuelos GL, Kagda M, Schick S, Girke T, **Volz DC**, Talbot P. 2019. Rapid changes in the human transcriptome in response to acute exposure to thirdhand smoke. 58th Annual Meeting of the Society of Toxicology, Baltimore, MD, USA. (poster)
33. Reddam A, Mitchell CA, Dasgupta S, **Volz DC**. 2019. mRNA-sequencing identifies liver as a potential target organ for triphenyl phosphate in embryonic zebrafish. 58th Annual Meeting of the Society of Toxicology, Baltimore, MD, USA. (platform)
34. Vliet SM, Dasgupta S, Ho T, **Volz DC**. 2019. Leveraging zebrafish to identify chemicals disrupting early embryonic development. 58th Annual Meeting of the Society of Toxicology, Baltimore, MD, USA. (poster)
35. Vliet SM, Dasgupta S, **Volz DC**. 2018. Leveraging zebrafish to identify chemicals disrupting early embryonic development. 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Sacramento, CA, USA. (platform)
36. Giroux M, Vliet SM, **Volz DC**, Schlenk D. 2018. The effects of temperature and bifenthrin on the behavior and neuroendocrinology of chinook salmon (*Oncorhynchus tshawytscha*). 39th

Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Sacramento, CA, USA. (platform)

37. McGruer V, Pasparakis C, Khursigara A, Vliet SM, Dasgupta S, **Volz DC**, Esbaugh AJ, Grosell M, Schlenk D. 2018. Exploring mechanisms of cardiotoxicity in crude oil exposed fish. 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Sacramento, CA, USA. (poster)
38. Cheng V, Dasgupta S, **Volz DC**. 2018. Tris(1,3-dichloro-2-propyl) phosphate exposure during gastrula induces anemia in zebrafish embryos. 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Sacramento, CA, USA. (poster)
39. Reddam A, Mitchell CA, Dasgupta S, **Volz DC**. 2018. mRNA-sequencing identifies liver as a potential target organ for triphenyl phosphate in embryonic zebrafish. 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Sacramento, CA, USA. (poster)
40. Dasgupta S, Cheng V, Vliet S, Mitchell CA, **Volz DC**. 2018. Tris(1,3-dichloro-2-propyl) phosphate (TDCIPP) exposure during early-blastula alters the normal trajectory of zebrafish embryogenesis. 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Sacramento, CA, USA. (poster)
41. Vliet SM, Dasgupta S, **Volz DC**. 2018. Niclosamide exposure induces epiboly delay during early zebrafish development. 58th Annual Meeting of the Teratology Society, Clearwater, FL, USA. (poster)
42. Mitchell CA, Dasgupta S, Zhang S, Stapleton HM, **Volz DC**. 2018. Disruption of nuclear receptor signaling alters triphenyl phosphate-induced cardiotoxicity in zebrafish embryos. 58th Annual Meeting of the Teratology Society, Clearwater, FL, USA. (poster)
43. Dasgupta S, Cheng V, Vliet SM, Mitchell CA, **Volz DC**. 2018. Tris(1,3-dichloro-2-propyl) phosphate exposure during early-blastula alters the normal trajectory of zebrafish embryogenesis. 58th Annual Meeting of the Teratology Society, Clearwater, FL, USA. (platform)
44. Mitchell CA, Dasgupta S, Zhang S, Stapleton HM, **Volz DC**. 2018. Disruption of nuclear receptor signaling alters triphenyl phosphate-induced cardiotoxicity in zebrafish embryos. Brominated Flame Retardant Workshop (BFR2018), Niagara on the Lake, Ontario, Canada. (platform)
45. Dasgupta S, Cheng V, Vliet SM, Mitchell CA, **Volz DC**. 2018. Tris(1,3-dichloro-2-propyl) phosphate exposure during early-blastula alters the normal trajectory of zebrafish embryogenesis. Brominated Flame Retardant Workshop (BFR2018), Niagara on the Lake, Ontario, Canada. (platform)
46. Morgan MA, Griffith CM, **Volz DC**, Larive JK. 2018. *Artemia* as an indicator for stress in saltwater lakes. 255th American Chemical Society National Meeting, New Orleans, LA, USA. (poster)
47. Holland EB, Xu G, **Volz DC**, Schlenk D. 2018. Polyaromatic hydrocarbons and their oxygenated metabolites directly alter ion channels and alter eye development in zebrafish embryos. 57th Annual Meeting of the Society of Toxicology, San Antonio, TX, USA. (platform)
48. Mitchell CA, Dasgupta S, Zhang S, Stapleton HM, **Volz DC**. 2018. Nuclear receptor disruption alters triphenyl phosphate-induced cardiotoxicity in zebrafish embryos. 57th Annual Meeting of the Society of Toxicology, San Antonio, TX, USA. (platform)
49. Dasgupta S, Vliet SM, Kupsco A, **Volz DC**. 2018 Tris(1,3-dichloro-2-propyl) phosphate disrupts dorsoventral patterning in zebrafish embryos. 57th Annual Meeting of the Society of Toxicology, San Antonio, TX, USA. (poster)

50. Vliet SM, Dasgupta S, Dudley SL, Gan J, **Volz DC**. 2018. Niclosamide exposure induces epiboly delay during early zebrafish development. 57th Annual Meeting of the Society of Toxicology, San Antonio, TX, USA. (poster)
51. **Volz DC**. 2017. Leveraging high-content screening in zebrafish embryos to identify anemia-inducing chemicals. 10th World Congress on Alternatives and Animal Use in the Life Sciences, Seattle, WA, USA. (poster)
52. Mitchell CA, **Volz DC**. 2017. High-content screening identifies two nuclear receptor ligands that mitigate triphenyl phosphate-induced cardiotoxicity in zebrafish embryos. 10th World Congress on Alternatives and Animal Use in the Life Sciences, Seattle, WA, USA. (poster)
53. Vliet SM, Ho TC, **Volz DC**. 2017. Behavioral screening of the LOPAC^{1280} library in zebrafish embryos. 10th World Congress on Alternatives and Animal Use in the Life Sciences, Seattle, WA, USA. (platform)
54. Vliet SM, Ho TC, **Volz DC**. 2017. Behavioral screening of the LOPAC^{1280} library in zebrafish embryos. 10th Zebrafish Disease Models Conference, San Diego, CA, USA. (poster)
55. Mitchell CA, **Volz DC**. 2017. High-content screening identifies two nuclear receptor ligands that mitigate triphenyl phosphate-induced cardiotoxicity in zebrafish embryos. 10th Zebrafish Disease Models Conference, San Diego, CA, USA. (poster)
56. Dasgupta S, Kupsco A, Vliet S, Chen J, Xu G, Chen A, Stapleton HM, **Volz DC**. 2017. Tris(1,3-dichloro-2-propyl) phosphate decreases *sizzled* expression following the maternal-to-zygotic transition in zebrafish embryos. 10th Zebrafish Disease Models Conference, San Diego, CA, USA. (poster)
57. **Volz DC**. 2017. Leveraging high-content screening in zebrafish embryos to identify anemia-inducing chemicals. 10th Zebrafish Disease Models Conference, San Diego, CA, USA. (platform)
58. Bertotto LB, Mengivar-Cervantes N, Price D, Richards J, Sapozhnikova Y, Gan J, **Volz DC**, Schlenk D. 2017. Effects of bifenthrin on estrogenic and dopaminergic pathways in embryos and juveniles of zebrafish (*Danio rerio*). 19th International Symposium on Pollutant Responses in Marine Organisms (PRIMO), Matsuyama, Japan. (platform)
59. Giroux M, Luu D, Vliet SM, **Volz DC**, Schlenk D. 2017. Effects of temperature and bifenthrin on the endocrinology of juvenile Chinook salmon (*Oncorhynchus tshawystscha*). 19th International Symposium on Pollutant Responses in Marine Organisms (PRIMO), Matsuyama, Japan. (platform)
60. Diamante G, do Amaral e Silva Muller G, Menjivar-Cervantes N, **Volz DC**, Bainy A, Schlenk D. 2017. Developmental toxicity of 2- and 6-hydroxychrysene on zebrafish embryos. 19th International Symposium on Pollutant Responses in Marine Organisms (PRIMO), Matsuyama, Japan. (platform)
61. Vliet SM, Ho TC, **Volz DC**. 2017. Behavioral screening of the LOPAC^{1280} library reveals that zebrafish embryos are unable to discriminate modes of action for neuroactive compounds. 57th Annual Meeting of the Teratology Society, Denver, CO, USA. (poster)
62. Stinckens E, Vergauwen L, Cavallin JE, Blackwell BR, Witters H, Blust R, Ankley GT, **Volz DC**, Villeneuve DL, Knapen D. 2017. Development of an alternative testing strategy for the FELS test using the AOP network "thyroperoxidase and/or deiodinase inhibition leading to impaired swim bladder inflation". 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry – Europe, Brussels, Belgium. (poster)
63. Hamm J, Ceger P, Maull E, Padilla S, Perkins E, Planchart A, Stedman D, Tal T, Tanguay R, **Volz DC**, Baker G, Stout M, Walker N. 2017. SEAZIT: The National Toxicology Program's systematic evaluation of the application of zebrafish in toxicology. 56th Annual Meeting of the Society of Toxicology, Baltimore, MD, USA. (poster)

64. Kupsco A, Leet J, Chen A, Stapleton H, Katiyar N, Kaundal R, Yu Y, Wang Y, **Volz DC**. 2017. Tris(1,3-dichloro-2-propyl) phosphate induces genome-wide hypomethylation within early zebrafish embryos. 56th Annual Meeting of the Society of Toxicology, Baltimore, MD, USA. (poster)
65. Vliet SM, Ho TC, **Volz DC**. 2017. High-content behavioral screening reveals that zebrafish embryos are unable to discriminate modes of action for neurotransmission-interfering compounds. 56th Annual Meeting of the Society of Toxicology, Baltimore, MD, USA. (poster)
66. **Volz DC**. 2017. Leveraging embryonic zebrafish to prioritize ToxCast testing. 56th Annual Meeting of the Society of Toxicology, Baltimore, MD, USA. (poster)
67. Morgan M, Larive C, **Volz DC**. 2017. Evaluations of toxicity in *Artemia franciscana*. Pittcon Conference and Expo, Chicago, IL USA. (poster)
68. Stinckens E, Vergauwen L, Cavallin JE, Blackwell BR, Witters H, Blust R, Ankley GT, **Volz DC**, Villeneuve DL, Knapen D. 2016. Validation of the AOP network "thyroperoxidase and/or deiodinase inhibition leading to impaired swim bladder inflation". 4th Symposium on Fish and Amphibian Embryos as Alternative Models in Toxicology and Teratology, Paris, France. (poster)
69. Vliet SM, Ho T, **Volz DC**. 2016. High-content behavioral screening reveals that zebrafish embryos are unable to discriminate modes of action for neurotransmission-interfering compounds. 4th Symposium on Fish and Amphibian Embryos as Alternative Models in Toxicology and Teratology, Paris, France. (poster)
70. Kupsco AJ, Leet JK, Chen A, Stapleton HM, Katiyar N, Kaundal R, Yu Y, Wang Y. 2016. Tris(1,3-dichloro-2-propyl) phosphate induces genome-wide hypomethylation within early zebrafish embryos. 4th Symposium on Fish and Amphibian Embryos as Alternative Models in Toxicology and Teratology, Paris, France. (poster)
71. Diamante G, Muller G, **Volz DC**, Bainy A, Schlenk D. 2016. Developmental toxicity of 2- and 6-hydroxychrysene in zebrafish embryos. 37th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Orlando, FL, USA.
72. Becker Bertotto L, **Volz DC**, Schlenk D. 2016. Effects of bifenthrin on the estrogenic and dopaminergic pathways in embryos and juveniles of zebrafish (*Danio rerio*). 37th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Orlando, FL, USA.
73. Kupsco AJ, Leet JK, Chen A, Stapleton HM, Katiyar N, Kaundal R, Yu Y, Wang Y, **Volz DC**. 2016. Tris(1,3-dichloro-2-propyl) phosphate induces genome-wide hypomethylation within early zebrafish embryos. Toxicoepigenetics: The Interface of Epigenetics and Risk Assessment, Tysons, VA, USA. (poster)
74. Mehinto A, Dodder N, Mazor R, Denison M, Vliet SM, **Volz DC**, Hoh E, Maruya K. 2016. High-throughput bioanalytical screening of inland waters of Southern California. 36th International Symposium on Halogenated Persistent Organic Pollutants (Dioxin 2016), Florence, Italy. (platform)
75. **Volz DC**, Leet JK, Altomare D, Chen A, Stapleton HM, Yu Y, Wang Y. 2016. Transcriptome and DNA methylome profiling of early zebrafish embryos exposed to TDCPP. 55th Annual Meeting of the Society of Toxicology, New Orleans, LA, USA. (poster)
76. **Volz DC**, Hipszer RA, Leet JK, Raftery TD. 2015. Leveraging embryonic zebrafish to prioritize ToxCast testing. FutureTox III: Bridges for Translation, Society of Toxicology, Arlington, VA, USA. (poster)
77. **Volz DC**, Isales GM, Hipszer RA, Raftery TD, Chen A, Stapleton HM. 2015. Triphenyl phosphate-induced developmental toxicity in zebrafish: Potential role of the retinoic acid receptor. 12th International Symposium on Persistent Toxic Substances, Riverside, CA, USA. (platform)

78. **Volz DC**, Hipszer RA, Leet JK, Raftery TD. 2015. Leveraging embryonic zebrafish to prioritize ToxCast testing. 36th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Salt Lake City, UT, USA. (platform)
79. Leet JK, Hipszer RA, **Volz DC**. 2015. Butafenacil: A positive control for identifying anemia- and porphyria-inducing chemicals. 54th Annual Meeting of the Society of Toxicology, San Diego, CA, USA. (poster)
80. Raftery TD, **Volz DC**. 2015. Abamectin induces rapid and reversible hypoactivity within early zebrafish embryos. 54th Annual Meeting of the Society of Toxicology, San Diego, CA, USA. (poster)
81. Isales GM, Hipszer RA, Raftery TD, **Volz DC**. 2015. Triphenyl phosphate-induced developmental toxicity in zebrafish: Potential role of the retinoic acid receptor. 54th Annual Meeting of the Society of Toxicology, San Diego, CA, USA. (poster)
82. Leet JK, Hipszer RA, **Volz DC**. 2014. Butafenacil: A positive control for identifying anemia- and porphyria-inducing chemicals. 7th Aquatic Animal Models of Human Disease Conference, Austin, TX, USA. (poster)
83. Raftery TD, **Volz DC**. 2014. Abamectin induces rapid and reversible hypoactivity within early zebrafish embryos. 7th Aquatic Animal Models of Human Disease Conference, Austin, TX, USA. (poster)
84. **Volz DC**, Raftery TD, Yozzo KL, Leet JK. 2014. High-content screening of chemical toxicity in zebrafish embryos. 7th Aquatic Animal Models of Human Disease Conference, Austin, TX, USA. (platform)
85. Raftery TD, **Volz DC**. 2014. Abamectin induces rapid and reversible hypoactivity within early zebrafish embryos. 35th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Vancouver, BC, Canada. (platform)
86. Leet JK, Lindberg C, Bassett L, Isales GM, Yozzo KL, Raftery TD, **Volz DC**. 2014. High-content screening in zebrafish embryos identifies butafenacil as a potent inducer of anemia. 35th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Vancouver, BC, Canada. (platform)
87. **Volz DC**, Yozzo KL, Raftery TD, Leet JK. 2014. High-content screening of chemical toxicity in zebrafish embryos. 35th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Vancouver, BC, Canada. (poster)
88. Leet JK, Lindberg C, Bassett L, Isales GM, Yozzo KL, Raftery TD, **Volz DC**. 2014. High-content screening in zebrafish embryos identifies butafenacil as a potent inducer of anemia. 11th International Conference on Zebrafish Development and Genetics, Madison, WI, USA. (poster)
89. Raftery TD, Isales GM, Yozzo KL, **Volz DC**. 2014. High-content screening assay for identification of chemicals impacting spontaneous activity in zebrafish embryos. 11th International Conference on Zebrafish Development and Genetics, Madison, WI, USA. (poster)
90. **Volz DC**, Yozzo KL, Isales GM, Raftery TD. 2014. High-content screening assay for identification of chemicals impacting cardiovascular function in zebrafish embryos. 11th International Conference on Zebrafish Development and Genetics, Madison, WI, USA. (poster)
91. Gerlach CV, Das SR, **Volz DC**, Tanguay RL. 2014. Monosubstituted isopropylated triaryl phosphate, a major component of flame retardant mixture Firemaster 550, is an AhR agonist that exhibits AhR-independent cardiac toxicity. 53rd Annual Meeting of the Society of Toxicology, Phoenix, AZ, USA. (poster)
92. Leet JK, Lindberg C, Bassett L, Isales GM, Yozzo KL, Raftery TD, **Volz DC**. 2014. High-content screening in zebrafish embryos identifies butafenacil as a potent inducer of anemia. 53rd Annual Meeting of the Society of Toxicology, Phoenix, AZ, USA. (poster)

93. Raftery TD, Isales GM, Yozzo KL, **Volz DC**. 2014. High-content screening assay for identification of chemicals impacting spontaneous activity in zebrafish embryos. 53rd Annual Meeting of the Society of Toxicology, Phoenix, AZ, USA. (poster)
94. **Volz DC**, Yozzo KL, Isales GM, Raftery TD. 2014. High-content screening assay for identification of chemicals impacting cardiovascular function in zebrafish embryos. 53rd Annual Meeting of the Society of Toxicology, Phoenix, AZ, USA. (poster)
95. Raftery TD, Isales GM, Yozzo KL, **Volz DC**. 2013. High-content screening assay for identification of chemicals impacting spontaneous locomotion in zebrafish embryos. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Nashville, TN, USA. (poster)
96. Yozzo KL, Isales GM, Raftery TD, **Volz DC**. 2013. High-content screening assay for identification of chemicals impacting cardiovascular function in zebrafish embryos. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Nashville, TN, USA. (platform)
97. **Volz DC**, McGee SP, Konstantinov A, Stapleton HM. 2013. Aryl phosphate esters within a major PentaBDE replacement product induce cardiotoxicity in developing zebrafish embryos: Potential role of the aryl hydrocarbon receptor. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Nashville, TN, USA. (poster)
98. **Volz DC**, McGee SP, Konstantinov A, Stapleton HM. 2013. Aryl phosphate esters within a major PentaBDE replacement product induce cardiotoxicity in developing zebrafish embryos: Potential role of the aryl hydrocarbon receptor. Sixth International Symposium on Brominated Flame Retardants, San Francisco, CA, USA. (platform)
99. **Volz DC**, McGee SP, Konstantinov A, Stapleton HM. 2013. Aryl phosphate esters within a major PentaBDE replacement induce cardiotoxicity in developing zebrafish embryos: Potential role of the aryl hydrocarbon receptor. 52nd Annual Meeting of the Society of Toxicology, San Antonio, TX, USA. (poster)
100. Jayasinghe S, **Volz DC**. 2012. G-protein-coupled estrogen receptor-1 (GPER): A potential target for xenoestrogens during vertebrate embryogenesis. 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Long Beach, CA, USA. (platform)
101. Yozzo KL, **Volz DC**. 2012. Adverse outcome pathways during zebrafish embryogenesis: A case study using paraoxon. 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Long Beach, CA, USA. (platform)
102. **Volz DC**, Villeneuve D, et al. 2012. Alternatives to the fish early life-stage test: A research strategy for discovering and annotating adverse outcome pathways during fish development. 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Long Beach, CA, USA. (platform)
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104. Villeneuve D, **Volz DC**, et al. 2012. Discovering and annotating fish early life-stage (FELS) adverse outcome pathways: Putting the research strategy into practice. 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry – North America, Long Beach, CA, USA. (platform)
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