

## Terry C. Hrubec

Professor of Anatomy and Embryology  
Department of Biomedical Sciences  
E. Via College of Osteopathic Medicine  
Virginia Campus  
2265 Kraft Drive  
Blacksburg, VA 24060

Adjunct Professor  
Dept of Biomedical Sciences and Pathobiology  
VA-MD College of Veterinary Medicine  
VA Tech  
Blacksburg, VA 24061

540-231-1702

e-mail: [thrubec@vcom.vt.edu](mailto:thrubec@vcom.vt.edu)

### Education:

Ph.D. in Veterinary Medical Sciences, Virginia Polytechnic Institute and State University, 1994.  
DVM from VA -MD College of Veterinary Medicine, VPI & SU, 1991.  
MS in Biology, The George Washington University, 1985.  
BA in Fine Arts, The George Washington University, 1982.  
BS in Zoology, The George Washington University, 1981.

### Journal Publications:

1. Hrubec TC, Seguin RP, Xu L, Cortopassi GA, Datta S, Hanlon AL, Lozano AJ, McDonald VA, Healy CA, Anderson TC, Musse NA, Williams RT. 2021. Altered toxicological endpoints in humans from common quaternary ammonium compound disinfectant exposure. Toxicology Reports, 8:646-656.
- 2.

7. Melin VE, Melin TE, Dessify B, Nguyen C, Shea CS, Hrubec TC. 2015. Quaternary ammonium disinfectants cause subfertility in mice by targeting both male and female reproductive processes. Published online, 11-12-15. <http://dx.doi.org/10.1016/j.reprotox.2015.10.006> .
8. Hunt P, Hrubec TC. 2015. Letter to the Editor in response to Hostetler . *Reproductive Toxicology* 52: 120–121. doi:10.1016/j.reprotox.2015.10.006

21. Hrubec TC, Punareewattana K, Prater MR, Holladay SD. 2005. Reduction of teratogen induced birth defects in mice: Role of maternal immune stimulation . Invited Review: Current Topics in Toxicology 2:33-40.

Book Chapters :

1. Hunt PA, Hrubec TC, Melin VE . 2017. Disinfection in the 21st Century: Is there harm in being clean? In: Integrative Environmental Medicine. Eds. A Cohen and F vom Saal, Oxford University Press, USA.
2. Hrubec TC, Smith SA. 2010. Normal hematology of fishes. In: Schalm's Veterinary Hematology 6th ed., ed. Weiss, D. and J. Wardrop. Wiley Blackwell, Ames, IA.
3. Hrubec TC, Blaylock BL, Holladay SD. 2004. Developmental immunotoxicity of halogenated aromatic hydrocarbons and polycyclic aromatic hydrocarbons. In. Textbook of Developmental Immunotoxicology. Ed. SD Holladay, CRC Press, Boca Raton, FL.
4. Hrubec TC, Holladay SD. 2004. Mycotoxins and other miscellaneous developmental immunotoxicants. In : Textbook of Developmental Immunotoxicology. Ed. SD Holladay, CRC Press, Boca Raton, FL.
5. Hrubec TC, and Smith SA. 2000. Fish hematology. In: Schalm's Veterinary Hematology, ed. Feldman, BF, JG Zinkl, N.C. Jain, 5th ed. Williams and Wilkins, Media, PA.

5. Live interview - Unbreaking Science: Research findings on QAC disinfectants and concerns with increased exposure due to the COVID pandemic 10/19-2020.
6. Cover story interview for Chemical and Engineering News on safety of QACs and the COVID Pandemic. August 3<sup>rd</sup>, 2020.
7. Social Responsibility, Unintentional Bias, Diversity, and Inclusion; the Important Role of Mentorship Society for Birth Defects Research and Prevention, , San Diego, CA, June 22 -26, 2019.

Mentor ship :

Visiting Scholar: 1

PhD Students: 5

Master's Students: 4

Osteopathic Medical Students: 44

Justin Kula (2 -2021 to present)

Veterinary Students: 9

Undergraduate Students: 8

High School Students: 1