

# JEFFREY P. WALTERSCHEID, Ph.D., F-ABFT

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## FORENSIC TOXICOLOGIST SPECIALIZING IN POSTMORTEM AND HUMAN PERFORMANCE DRUG TESTING

### PROFESSIONAL POSITIONS

2015-present Chief Toxicologist  
Armed Forces Medical Examiner System, Dover AFB, DE  
2015-present Laboratory Director  
Quality Toxicology, San Antonio, TX  
2011-2015 Assistant Chief Toxicologist  
Harris County Institute of Forensic Sciences, Houston, TX  
2007-2011 Toxicologist II Specialist  
Harris County Institute of Forensic Sciences, Houston, TX

### EDUCATION

2004-2007 Postdoctoral Fellow, Vascular Medicine  
Baylor College of Medicine, Houston, TX  
1997-2004 Ph.D., Immunology  
The University of Texas GSBS/M.D. Anderson Cancer Center, Houston, TX  
1989-1995 B.S., Chemistry  
The University of Texas at Austin, Austin, TX

### PROFESSIONAL MEMBERSHIPS

2016-present AAFS Standards Board for Toxicology  
2011-present Fellow of the American Board of Forensic Toxicology #1332  
2014-present Society of Forensic Toxicologists  
2010-present American Academy of Forensic Sciences  
2008-present International Association of Forensic Toxicologists  
2007-2015 Southwestern Association of Toxicologists

### ADJUNCT FACULTY APPOINTMENTS

2010-2015 Assistant Professor, Dept. of Pathology and Laboratory Medicine  
University of Texas Health Science Center, Houston, TX  
2010-2015 Clinical Assistant Professor, Dept of Pathology and Immunology  
Baylor College of Medicine, Houston, TX

### AWARDS AND GRANTS

2011-2012 National Forensic Science Technology Center grant  
2006-2008 American Heart Association Fellowship  
2002-2003 Shell Foundation for Excellence in Toxicology  
1999-2001 American Legion Auxiliary Fellowship  
1997-1998 Meadows Fellowship  
1990-1991 DuPont Enrichment Scholarship  
1989-1990 Robert A. Welch Scholarship

### PUBLICATIONS

Bakota, E.L., Kelly, A.T., **Walterscheid, J.P.**, Phatak, D.R., "A Case Report of Fatal Desmethyl Carboxenafil Toxicity" (2016) J. Anal. Toxicol. Apr 1;41(3):250-255

Chen, H.H., Dip, A., Ahmed, M., Tan, M.L., **Walterscheid, J.P.**, Sun, H., Teng, B.B., Mozayani, A., "Detection and characterization of the effect of AB-FUBINACA and its metabolites in a rat model", (2015) *J. Cell Biochem.* Apr;117(4):1033-1043

Dierksen, J., Gonsoulin, M., and **Walterscheid, J.P.**, "Poor man's methadone: A case report of loperamide toxicity", (2015) *Am. J. Forensic Med. Pathol.* Dec;36(4):268-270

**Walterscheid, J.P.**, Phillips, G., Lopez, A.E., Gonsoulin, M., Chen, H.H., and Sanchez, L.A., "Pathological findings in 2 cases of fatal 25I-NBOMe toxicity", (2014) *Am. J. Forensic Med. Pathol.* Mar;35(1):20-25

Guale, F., Shahreza, S., **Walterscheid, J.P.**, Chen, H.H., Arndt, C., Kelly, A.T., Mozayani, A., "Validation of LC-TOF-MS screening for drugs, metabolites, and collateral compounds in forensic toxicology specimens." (2012) *J. Anal. Toxicol.*, Jan-Feb; 37(1), pp. 17-24

Phatak, D.R. and **Walterscheid, J.P.**, "Huffing air conditioner fluid: A cool way to die?" (2012) *Am. J. Forensic Med. Pathol.*, Vol. 33(1) pp. 64-67

**Walterscheid, J.P.**, Danielson, T.J., "Tricyclic antidepressant drug interactions" (2012) *Handbook of Drug Interactions: A Clinical and Forensic Guide*, 2nd ed. Humana Press

**Walterscheid, J.P.**, Book review of "Ethics and the practice of forensic science, by Robin T. Bowen" (2011) *Forensic Sci Med Pathol.*, Vol. 7 p.306

Lu, J., Yang, J.H., Burns, A.R., Chen, H.H., Tang, D., **Walterscheid, J.P.**, Suzuki, S., Yang, C.Y., Sawamura, T., Chen, C.H., "Mediation of electronegative low-density lipoprotein signaling by LOX-1: a possible mechanism of endothelial apoptosis". (2009) *Circ Res.*, Vol. 104(5) pp. 619-627

Lu, J., Jiang, W., Yang, J.H., Chang, P.Y., **Walterscheid, J.P.**, Chen, H.H., Marcelli, M., Tang, D., Lee, Y.T., Liao, W.S., Yang, C.Y., Chen, C.H., "Electronegative LDL impairs vascular endothelial cell integrity in diabetes by disrupting FGF2 autoregulation". (2008) *Diabetes.*, Vol 57 pp. 158-166

Tang, D., Lu, J., **Walterscheid, J.P.**, Chen, H.H., Engler, D.A., Sawamura, T., Chang, P.Y., Safi, H.J., Yang, C.Y., Chen, C.H., "Electronegative LDL circulating in smokers impairs endothelial progenitor cell differentiation by inhibiting Akt phosphorylation via LOX-1". (2008) *J. Lipid Res.*, Vol. 49(1) pp. 33-47

**Walterscheid, J.P.**, Nghiem, D.X., Kazimi, N., Nutt, L.K., McConkey, D.J., Norval, M., and Ullrich, S.E., "Cis-urocanic acid, a sunlight induced immunosuppressive factor, activates immune suppression via the 5-HT<sub>2A</sub>-receptor". (2006) *Proc. Natl. Acad. Sci.*, Vol. 103(46) pp. 17420-17425

Chen, C.H., and **Walterscheid, J.P.**, "Plaque angiogenesis versus compensatory arteriogenesis in atherosclerosis". (2006) *Circ. Res.*, Vol. 99(8) pp. 787-789

Wolf, P., Nghiem, D.X., **Walterscheid, J.P.**, Byrne, S., Matsumura, Y., Matsumura, Y., Bucana, C., Ananthaswamy, H.N., Ullrich, S.E., "Platelet-activating factor is crucial in psoralen and ultraviolet A- induced immune suppression, inflammation, and apoptosis." (2006) *Am. J. Pathol.*, Vol. 169(3) pp. 795-805

Ramos, G., Kazimi, N., Nghiem, D.X., **Walterscheid, J.P.**, and Ullrich, S.E., "Platelet activating factor receptor binding plays a critical role in jet fuel-induced immune suppression". (2004) *Toxicol. Appl. Pharmacol.*, Vol. 195(3) pp. 331-338

**Walterscheid, J.P.**, Nghiem, D.X., and Ullrich, S.E., "Determining the Role of Cytokines in UV-Induced Immunomodulation". (2002) *Methods*, Vol. 28(1) pp. 71-78

Nghiem, D.X., **Walterscheid, J.P.**, Kazimi, N., and Ullrich S.E., "Ultraviolet Radiation-Induced Immunosuppression of Delayed-Type Hypersensitivity in Mice". (2002) *Methods*, Vol. 28(1), pp. 25-33

Ramos, G., Nghiem, D.X., **Walterscheid, J.P.**, and Ullrich, S.E., "Dermal Application of Jet Fuel Suppresses Secondary Immune Reactions". (2002) *Toxicol. Appl. Pharmacol.*, Vol. 180(2), pp. 136-144

**Walterscheid, J.**, Ullrich, S., and Nghiem, D., "Platelet-Activating Factor, a Molecular Sensor for Cellular Damage, Activates Systemic Immune Suppression". (2002) *J. Exp. Med.*, Vol. 195 (2), pp. 171-179

Schmitt, D., **Walterscheid, J.**, and Ullrich, S., "Reversal of Ultraviolet Radiation-Induced Immune Suppression by Recombinant Interleukin-12: Suppression of Cytokine Production". *Immunology*, (2000) Vol. 101, pp. 90-96

Moodycliffe, A., Shreedhar, V., Ullrich, S., **Walterscheid, J.**, Bucana, C., Kripke, M., and Flores-Romo, L., "CD40-CD40 Ligand Interactions In Vivo Regulate Migration of Antigen-Bearing Dendritic Cells from the Skin to Draining Lymph Nodes". *J. Exp. Med.*, (2000) Vol.191, pp. 2011-2020

Kudlicki, W., Mouat, M., **Walterscheid, J.**, Kramer, G., and Hardesty, B., "Development of a Chaperone- Deficient System by Fractionation of a Prokaryotic Coupled Transcription/ Translation System". *Analytical Biochemistry*, (1994) Vol. 217, pp. 12-19

## PRESENTATIONS

Karschner, E.L., Kristofic, J.J., Chmiel, J.D., Goebel N.C., **Walterscheid, J.P.**, "Acute intoxications with phenibut ( $\beta$ -phenyl- $\gamma$ -aminobutyric acid), an emergent psychoactive  $\gamma$ -aminobutyric acid (GABA) agonist" (2018) 70th American Academy of Forensic Sciences, Seattle, WA

Knittel, J.L., Jackson, G.F., Gordon, C.J., **Walterscheid, J.P.**, "Distribution and stability of acetyl fentanyl and acetyl norfentanyl in a heroin related death" (2018) Society of Forensic Toxicologists, Boca Raton, FL

**Walterscheid, J.P.**, Shoemaker, S.A., Chmiel, J.D., Knittel, J.L., "LSD is on a new high" (2018) Society of Forensic Toxicologists, Boca Raton, FL

**Walterscheid, J.P.**, "Loperamide abuse" at the workshop "The Opioid Epidemic: Trends, Challenges, and a Path Forward" (2017) 69th American Academy of Forensic Sciences, New Orleans, LA

Chmiel, J.D., Karschner, E.L., Kristofic, J.J., Knittel, J.L., Jackson, G.F., Shoemaker, S.A., Shimomura, E.T., **Walterscheid, J.P.**, "Techniques for Screening and Confirmation of U-47700

and Flubromazepam in Two Non-Fatal Cases" (2017) 69th American Academy of Forensic Sciences, New Orleans, LA

Karschner, E.L., Chmiel, J.D., Kristofic, J.J., Jackson, G.F., Knittel, J.L., Shoemaker, S.A., Shimomura, E.T., **Walterscheid, J.P.**, "Clinical Manifestations of U-47700 and Flubromazepam Intoxication" (2017) 69th American Academy of Forensic Sciences, New Orleans, LA

Chmiel, J.D., Kristofic, J.J., Addison, J.W., **Walterscheid, J.P.**, "Demonstrating the Need for Complete Testing Methods When Screening for Novel Psychoactive Substances (NPS)" (2017) 69th American Academy of Forensic Sciences, New Orleans, LA

Hippolyte, T.M., Ramirez, D., Lima, D., Cruz, C., and **Walterscheid, J.P.**, "I'll Huff 'Til I Pass Out" (2016) Society of Forensic Toxicologists, Dallas, TX

Karschner, Shoemaker, S.A., E.L., Chmiel, J.D., Berrier, A.M., Bosy, T.Z., and **Walterscheid, J.P.**, "Don't Forget About Psilocin" (2016) Society of Forensic Toxicologists, Dallas, TX

**Walterscheid, J.P.**, "Recent Trends of Prescription, Illicit, and Designer Drugs in Forensic Toxicology Casework" (2015) Texas Behavioral Health Institute, Austin, TX

**Walterscheid, J.P.**, "Synthetic Cannabinoids in Forensic Toxicology Casework", Houston, TX (2015) Summit on Synthetic Marijuana, Houston, TX

**Walterscheid, J.P.**, "Detoxifying the Toxicology Report" (2015) Topics in Forensic Sciences: Anatomy of the Forensic Investigation, Houston, TX

**Walterscheid, J.P.**, "Toxicology of Drug-Facilitated Sexual Assaults" (2015) University of Texas School of Nursing: Sexual Assault Webinar, Houston, TX

**Walterscheid, J.P.**, "Advanced Techniques for Identifying New Compounds in Toxicology Casework" (2015) 42nd Symposium of American Society of Crime Laboratory Directors, Washington, DC

**Walterscheid, J.P.**, Massiello, A., "Case Study: A Suicide Death by Sotalol Overdose" (2015) 67th American Academy of Forensic Sciences, Orlando, FL

**Walterscheid, J.P.**, Chen, M., "Examination of a Rare Suicidal Overdose Involving Milnacipran" (2014) Society of Forensic Toxicologists, Grand Rapids, MI

**Walterscheid, J.P.**, Chen, M., "Postmortem Distribution of 25I-NBOMe After Acute Fatal Toxicity" (2014) 66th American Academy of Forensic Sciences, Seattle, WA

**Walterscheid, J.P.**, Toxicology Panel Expert (2013) Expert Witness Testimony Workshop, Houston, TX

**Walterscheid, J.P.**, "High Resolution Mass Screening and Tandem Mass Confirmation of Designer Drugs" (2013) American Association of Clinical Chemistry, Houston, TX

**Walterscheid, J.P.**, "Toxicology Testing of Designer Drugs" (2013) Topics in Forensic Sciences: Revealing the Science Behind the Evidence, Houston, TX

**Walterscheid, J.P.**, Workshop Chair and presenter of “Principles and Applications of Liquid Chromatography Mass Spectrometry (LC/MS) for the Forensic Toxicologist” (2013) 65th American Academy of Forensic Sciences, Washington, DC

**Walterscheid, J.P.**, Nejabat, A., Chen, M., Mozayani, A., “Stability of Synthetic Cathinones (Bath Salts) in Toxicology Specimens” (2013) 65th American Academy of Forensic Sciences, Washington, DC

**Walterscheid, J.P.**, Mozayani, A., “Specimen Analysis, Collection, and Interpretation in DUI & DFSA Cases” (2012) Forensic Science for Healthcare Providers, Houston, TX

Ortiz, F., **Walterscheid, J.P.**, Chen, M., Mozayani, A., “Toxicological Analysis of Synthetic Cannabinomimetic Spice Drugs” (2011) 63rd American Academy of Forensic Sciences, Chicago, IL

Mozayani, A., **Walterscheid, J.P.**, “LC/MS/MS Determinations of Hydrocodone and Hydromorphone in Oral Fluid, Urine, and Hair After Short-Term Therapy” (2011) 63rd American Academy of Forensic Sciences, Chicago, IL

Mozayani, A., **Walterscheid, J.P.**, Danielson, T.J., “Ethylene Glycol Fatalities: A New Look at Interpretation” (2011) 63rd American Academy of Forensic Sciences, Chicago, IL

**Walterscheid, J.P.**, “Toxicology of Spice/K2” (2010) Spice/K2 Workshop: Characterizing Spice K2, a Legal Marijuana Substitute, Houston, TX

**Walterscheid, J.P.**, “Prescription Drugs and Human Performance Impairment” (2010) 130th Association of Clinical Scientists, San Antonio, TX

**Walterscheid, J.P.**, “Toxicology: Solving a Poison Mystery” (2010) Medicolegal Death Investigation Conference, Houston, TX

Mozayani, A., **Walterscheid, J.P.**, Danielson, T.J., Moore, C., Sanchez, L.A., “Postmortem Analysis of Cocaine, Benzodiazepines, Opiates, and SSRIs in Hair” (2009) 61st American Academy of Forensic Sciences, Denver, CO

Danielson, T.J., Mozayani, A., **Walterscheid, J.P.**, Zhao, S., Sanchez, L.A., “6-Monoacetylmorphine Confirmation by Liquid Chromatographic Tandem Mass Spectrometric Determination of 6-Monoacetylmorphine and Noscapine in Vitreous Humor” (2009) 61st American Academy of Forensic Sciences, Denver, CO

**Walterscheid, J.P.**, Danielson, T.J., Mozayani, A., Sanchez, L.A., “Implications of Oral Fluid Testing in DUID Cases” (2008) 18th International Association of Forensic Sciences, New Orleans, LA

**Walterscheid, J.P.**, Zhao, S., Danielson, T.J., Mozayani, A., Sanchez, L.A., “Post-Mortem Hair Testing: Our Approach Using Post-Mortem Tissues by Liquid Chromatography Tandem Mass Spectrometry” (2007) 35th Meeting of the Southwestern Association of Toxicologists, Galveston, TX

Lu, J., **Walterscheid, J.P.**, Chen, H.H., Yang, C.Y., Poucher, S.M., Chen, C.H., “Diabetic LDL Subfraction Induces Smooth Muscle Cell Proliferation by Enhancing Endothelial Release of Endothelin-1.” (2006) 66th American Diabetes Association, Washington, DC

Lu, J., Chen, H.H., Yang, C.Y., **Walterscheid, J.P.**, Pownall, H.P., Morrisett, J.D., Chen, C.H., "C4 Platelet-Activating Factor Mimics Electronegative LDL-Circulating in Patients with Metabolic Syndrome in Inducing Endothelial Cell Apoptosis." (2005) 65th American Diabetes Association, San Diego, CA

**Walterscheid, J.P.**, Nghiem, D., and Ullrich, S., "Cis-Urocanic Acid is a 5-HT Receptor Agonist" (2002) 4th Mutagenesis and Experimental Pathology Society of Australasia, Hobart, Tasmania

**Walterscheid, J.P.**, Nghiem, D.X., and Ullrich, S.E., "UV Activation of a Platelet Activating Factor-Like Molecule Upregulates COX-2 and IL-10 Transcription in Keratinocytes." (2001) 9th European Society for Photobiology, Lillehammer, Norway

**Walterscheid, J.P.** and Ullrich, S.E., "UVB-Induced Activation of Mouse IL-10." (2000) 13th International Congress on Photobiology, San Francisco, CA