

CURRICULUM VITAE

Personal Data:

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Education:

1987-1988 Post-Doctoral Research Fellow; Joint appointment in the Departments of Pediatric Cardiology (The University of Michigan Medical School) & Pharmaceutics (The University of Michigan College of Pharmacy)

1987 Ph.D.; Department of Pharmaceutics, College of Pharmacy, University of Minnesota, Minneapolis, Minnesota 55455

1980 B.S.; College of Pharmacy, University of Minnesota, Minneapolis, Minnesota 55455

Professional Experience:

2008 – Present Professor of Pharmaceutics, Division of Pharmaceutical Sciences, School of Pharmacy, University of Missouri-Kansas City

1995 – 2008 Associate Professor of Pharmaceutics, Division of Pharmaceutical Sciences, School of Pharmacy, University of Missouri-Kansas City

1988 – 1994 Assistant Professor of Pharmaceutics / Pharmacokinetics, Department of Pharmaceutics and Pharmacodynamics, College of Pharmacy, University of Illinois, Chicago, IL

Licensure:

Licensed to practice pharmacy in the state of Minnesota-License number = 113584-8
Licensed to practice pharmacy in the state of Kansas-License number = 13242

Awards and Citations:

- March 2008 Rho Cho Pharmacy Honor Society Faculty Member of the Year, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO
- Nov 2007 Outstanding Teacher of the Year, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO
- July 2002 Designated as a "Master Instructor" in the field of pharmaceuticals by the American Association of Colleges of Pharmacy, Kansas City, MO
- July 1994 Cited as an Outstanding Pharmaceutical Educator in the U.S. at the meeting of the American Association of Colleges of Pharmacy, Albuquerque, NM.
- May 1994 Outstanding Teacher of the Year, College of Pharmacy, University of Illinois, Chicago, IL 60612
- May 1990 Outstanding Teacher of the Year, College of Pharmacy, University of Illinois, Chicago, IL 60612
- May 1988 Received the American Society for Artificial Internal Organs Travel Fellowship Award for the Society's 34th Annual Meeting in Reno, Nevada
- August 1987 Article by Ms. Kristin Jenkins entitled "*Implantable Delivery Systems Revolutionizing How We Take Drugs*", The Medical Post (The Maclean Hunter Newspaper for the Canadian Medical Profession), Volume 23, No. 29.
- August 1987 Article by Ms. Pamela Harrison entitled "*Bioprosthetic Heart Valves Being Saved by Novel Drug Delivery System*", Ontario Medicine (a newspaper for Ontario's Medical Profession), Volume 6, No. 16
- 1983-1984 Theodore J. Rowell Fellowship, University of Minnesota, Minneapolis, Minnesota 55455
- 1981 Rho Chi Honor Society Award, University of Minnesota, Minneapolis, Minnesota 55455
- 1980 Rho Chi Research Award, University of Minnesota, Minneapolis, Minnesota 55455

Current and/or Past Professional and Honorary Memberships:

American Association of Pharmaceutical Scientists (AAPS)
American Pharmaceutical Association (APhA)
American Association of Colleges of Pharmacy (AACP)
Minnesota State Pharmaceutical Association (MSPhA)
Kansas Pharmacists Association (KPhA)
Rho Chi Pharmacy Honor Society
Controlled Release Society (CRS)
Parenteral Drug Association (PDA)
Who's Who in the Midwest
Who's Who in the United States
Who's Who in Science and Engineering
Who's Who in Medicine and Healthcare
Who's Who in American Education
Listed in "The International Directory of Distinguished Leadership"
New York Academy of Sciences
Secretary for the Teachers of Pharmaceutics Section of AACP (2002-2004)

Editorial Experience:

1987 - present

Reviewer

Journal of Pharmaceutical Science & Technology
Journal of Pharmaceutical Science
Pharmaceutical Research
International Journal of Pharmaceutics
Journal of Biological Chemistry
Drug Development and Industrial Pharmacy
Atherosclerosis
Pharmaceutical Development and Technology
Journal of Pharmacy and Pharmacology
Molecular Pharmaceutics
European Journal of Pharmaceutics and Biopharmaceutics

Editorial Board Member

2002 – present

Journal of Pharmacy and Pharmacology

2007 – present

Journal of Ocular Biology, Diseases, and Informatics

Grant Review Experience:

1987 - 1994

Served as a Reviewer for the American Heart Association of Illinois

1995 - 1999

Served as a Reviewer for the American Heart Association-Heartland Consortium; formerly the AHA-Kansas Affiliate

2000-present

Serve as an *ad hoc* reviewer for the National Institutes of Health (NIH)

Teaching, Research, and Administrative Activities:

1988-1994

Served on the College of Pharmacy's Educational Policy Committee (University of Illinois). Was elected by colleagues for three consecutive two-year terms.

1989-2004

Taught a graduate-level course on "Stabilization of Pharmaceutical Systems" with Emphasis on Recombinant Proteins.

1988-2004

Participated in team-taught pharmaceutics classes in the College of Pharmacy's professional Pharm.D. curriculum.

August 1990

Lectures presented to the U.S. Food and Drug Administration on Pharmacokinetics and Stabilization of Pharmaceutical Systems.

June 2000

Lectures presented to U.S. Food and Drug Administration on Dissolution and *In Vitro/In Vivo* Correlation.

Publications

1. Intentionally left blank
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5. **T.P. Johnston**, T.A. Korolenko, Restoration of serum lipids and cardiac proteases following an acute challenge of the hyperlipidemic agent, poloxamer 407, in mice. In Preparation, 2014.
6. **T.P. Johnston**, P. Koulen. Effects of sustained dyslipidemia on the neurodegeneration of retinal ganglion cells in diabetic retinopathy. In Preparation, 2015.
7. T.A. Korolenko, **T.P. Johnston**. Chap. X: Aspartate protease cathepsin D in liver and heart injury, pathophysiology and therapy, In: *Cathepsin D: Molecular Characterization, Pathophysiological Functions, and Health Implications*, J.B. Cohen, L.P. Ryseck (Eds), Nova Science Publishers, Inc., Hauppauge, NY, 2015, Accepted.
8. **Johnston, T.P.**, Chap. 1: Anatomy and physiology of the oral mucosa and its relevance to local and systemic oral mucosal drug delivery, In: *Oral Mucosal Drug Delivery and Therapy*, M. Rathbone, S. Senel, I. Pather (Eds), Advances in Delivery Science and Technology Series, Springer, New York, NY, 2014, In Press.
9. **T.P. Johnston**, T.A. Korolenko. Chap. 1: Statin treatment in experimental lipemia and atherosclerosis: The similarities and differences with humans, In: *Statins: Medical Uses, Mechanisms of Action, and Clinical Outcomes*, ER Travers (Ed), Nova Science Publishers, Inc., Hauppauge, NY, 2014. ISBN: 978-1-63463-096-2
10. V.M. Loginova, T.A. Korolenko, **T.P. Johnston**, F.V. Tuzikov, N.V. Goncharova. Lipoprotein fractions and subfractions and heart proteases during acute lipemia in a murine model of atherosclerosis. Medimond International Proceedings, Vol #:pp.-pp., 2014, In Press.
11. T.A. Korolenko, **T.P. Johnston**, E. Pisareva, E. Filjushina, E. Machova. Serum cystatin C and chitotriosidase in acute dyslipidemia: Can they serve as potential early biomarkers for atherosclerosis? *J. Pharmacol. Toxicol.* Submitted, 2014.
12. A.D. Vadlapudi, R.K. Vadlapatla, **T.P. Johnston**, A.K. Mitra, *Peptides and Proteins: Buccal Absorption*, In: J. Swarbrick (Eds.), *Encyclopedia of Pharmaceutical Science and Technology*, 4th Edition, Taylor & Francis, NY (2013) pp. 2525-2541.
13. T.A. Korolenko, **T.P. Johnston**, N.I. Dubrovina, Y.A. Kisarova, S.Y. Zhanaeva, N.A. Zhukova, Effect of poloxamer 407 administration on the serum lipids profile, anxiety level, and protease activity in the heart and liver of mice, *Interdiscip. Toxicol.* 6(1),18-25, 2013.
14. T.A. Korolenko, F.V. Tuzikov **T.P. Johnston**, N.A. Tuzikova, Y.A. Kisarova. The influence of repeated administration of poloxamer 407 on serum lipoproteins and protease activity in mouse liver and heart. *Can. J. Physiol. Pharmacol.* 90, 1456-1468, 2012.
15. **T.P. Johnston**, T. Yasuda, M. Shinohara, M. Inoue, T. Ishida. The effect of poloxamer 407 on the functional properties of HDL in mice, *J. Pharm. Pharmacol.*, 64, 677-687, 2012.

16. T.A. Korolenko, F.V. Tuzikov, M.S. Cherkanova, **T.P. Johnston**, N.A. Tuzikova. Influence of atorvastatin and carboxymethylated glucan on the serum lipoprotein profile and MMP activity of mice with poloxamer 407-induced lipemia. *Can. J. Physiol. Pharmacol*, 90, 141-153, 2012.
17. **T.P. Johnston**, P. Mondal, D.J. Pal, S. MacGee, A.J. Stromberg, H. Alur. Canine periodontal disease control using a clindamycin hydrochloride gel. *J. Vet. Dent.*, 28, 224-229, 2011.
18. T.A. Korolenko, M.S. Cherkanova, **T.P. Johnston**, E.A. Gashenko, B.I. Yu. Chapter 8: *Cystatin C, Atherosclerosis, and Lipid-lowering Therapy With Statins*, In: *Cystatins: Protease Inhibitors, Biomarkers, and Immunomodulators*, J.B. Cohen, L.P. Ryseck (Eds), Nova Science Publishers, Inc., Hauppauge, NY, 187-204, 2011. ISBN 978-1-61209-343-7
19. H. Alur, P. Mondal, **T.P. Johnston**. Evaluation of TRI-726 as a drug delivery platform. *Drug Develop. Indust. Pharm.*, 37, 995-1001, 2011.
20. T.A. Korolenko, M.S. Cherkanova, F.V. Tuzikov, **T.P. Johnston**, N.A. Tuzikova. Influence of atorvastatin on fractional and subfractional composition of serum lipoproteins and MMP activity of mice with Triton WR-1339-induced lipemia, *J. Pharm. Pharmacol.*, 63, 833-839, 2011.
21. M.A. Ruby, B. Goldenson, G. Orasanu, **T.P. Johnston**, J. Plutzky, R.M. Krauss. VLDL hydrolysis by LpL activates PPAR α through generation of unbound fatty acids, *J. Lipid Res.*, 51, 2275-2281, 2010.
22. T.A. Korolenko, F.V. Tuzikov, **T.P. Johnston**, N.A. Tuzikova, E.E. Filjushina, V.M. Loginova, N.G. Savchenko. Influence of poloxamer 407 on fractional and subfractional composition of serum lipoproteins in mice, *HEALTH*, 2, 722-730, 2010.
23. **T.P. Johnston**, Poloxamer 407 as a general lipase inhibitor: its implication in lipid metabolism and atheroma formation in C57BL/6 mice, *J. Pharm. Pharmacol.*, 62, 1807-1812, 2010.
24. P. Karla, R. Earla, S. Boddu, **T.P. Johnston**, D. Pal, A.K. Mitra. Molecular expression and functional evidence of a drug efflux pump (BCRP) in human corneal epithelial cells. *Curr. Eye Res.*, 34, 1-9, 2009.
25. X. Zhou, **T.P. Johnston**, D. Johansson, P. Parini, K. Funa, J. Svensson, G.K. Hansson. Hypercholesterolemia leads to elevated TGF- β 1 activity and T helper 3-dependent autoimmune responses in atherosclerotic mice. *Atherosclerosis*, 204, 381-387, 2009.
26. **T.P. Johnston**, Poloxamer 407 administration to C57BL/6 mice causes an elevation in the soluble adhesion molecules, intercellular adhesion molecule-1 (sICAM-1), vascular cell adhesion molecule-1 (sVCAM-1), and sE-selectin, *J. Pharm. Pharmacol.*, 61, 1681-1688, 2009.
27. H. Tanaka, T. Ishida, **T.P. Johnston**, T. Yasuda, T. Ueyama, Y. Kojima, R.K. Kundu, T. Quertermous, Y. Ishikawa, K. Hirata, Role of endothelial lipase in plasma HDL levels in a murine model of hypertriglyceridemia, *J. Atheroscler. Thromb.*, 16, 327-338, 2009.
28. **T.P. Johnston**, D.J. Waxman, The induction of atherogenic dyslipidemia in poloxamer 407-treated mice is not mediated through PPAR α , *J. Pharm. Pharmacol.*, 60, 753-759, 2008.
29. N. Wongsiriroj, R. Piantedosi, K. Palczewski, I.J. Goldberg, **T.P. Johnston**, E. Li, W.S. Blaner. The molecular basis of retinoid absorption: A genetic dissection. *J. Biol. Chem.*, 283, 13510-13519, 2008.
30. **T.P. Johnston**, D.J. Waxman, Circulating free fatty acids are increased independently of PPAR γ activity after administration of poloxamer 407 to mice, *Can. J. Physiol. Pharmacol.*, 86, 643-649, 2008.

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