

CURRICULUM VITAE

Karyn M. Turla, Ph.D.

Professor of Physiology (NTT), Division of Biological and Biomedical Processes
School of Science and Engineering
University of Missouri-Kansas City
Office Room: 94
Kansas City, Missouri 64110-2499
Phone 816-235-6404
turlak@UMKC.edu

PERSONAL

Birth Date – August 4, 1965

Place of Birth – Huntingdon, PA

Citizenship – US

EDUCATION

Institution

Pennsylvania State University

University of Michigan

Graduated

May 1987

October 1992

Degree Obtained

B.A

Ph.D.

TEACHING AND RESEARCH

Academic Positions:

Dartmouth Medical School	1992-1994	Post-Doctoral Fellow, Physiology Department
Dartmouth Medical School	1994-1996	Post-Doctoral Fellow, Immunology Department
Friends University	1996-2015	Professor of Biology, Natural Science and Mathematics
University of Missouri Kansas City	2015-present	NTT Professor of Physiology, School of Biological Sciences

COURSES TAUGHT (to date):

University of Missouri Kansas City:

LS-PHYS 3070 Oral Physiology (Fall)

LS-PHYS 399 Pharmacy Physiology I (Fall)

LS-PHYS 400 Pharmacy Physiology II (Spring)

LS-PHYS 401 Dental Physiology (Spring)

LS-PHYS 217L Human Physiology Lab (Spring)

LS PHYS 329 Endocrinology (Fall)

Friends University; Wichita, KS

Majors

BIOL 100 Introduction to Biological Sciences (1/20-30)
BIOL 101 Cellular and Molecular Biology (5/20-70)
BIOL 390 Human Anatomy and Physiology I (4/15-30)
BIOL 395 Human Anatomy and Physiology II(4/15-20)
BIOL 410 Human Anatomy and Physiology III (3/10-15)
BIOL 380 Immunology (3/10)
BIOL 490 Senior Seminar (1/8-10)
BIOL 260 Human Anatomy (4/15-20)
BIOL 265 Human Physiology (4/15-20)
BIOL 430 Kinesiology (3/5-15)
BIOL 455 Exercise Physiology (3/10-15)
HLSC 210 Medical Terminology (2/10-15)
HLSC 300 Health Sciences Service Abroad (3/10-14)
HLSC 300 Service and Leadership (1/5-10)

Non-Major

HLSC 150 Nutrition (3/30-40)
NATS 110 Biological Science (4/25-30)
GNST 100 Freshman Seminar (1/25-30)
NATS 220 Principles of Anatomy and Physiology (4/25-35)

Selected Service

Faculty Senate	Fall 2019 - present
Academic Review Committee	Fall 2022 – present
Director MA/MS Programs	Fall 2023 - present
Leader for Café FLC	Fall 023-present
Dental School Admissions Committee	Fall 2020 – Spring 2023
Peer Observer	Fall 2022
SBC Promotion and Tenure Committee	Fall 2022

HONORS

Date	Award
2010	WA Young Excellence in Teaching Award Friends University
2017	Runner up, SOP Class of 2020 Excellence in Teaching Award UMKC SOP
2018	SOP Class of 2021 Excellence in Teaching Award UMKC SOP
2019	Runner up, SOP Class of 2022 Excellence in Teaching Award UMKC SOP
2020	SOP Class of 2023 Excellence in Teaching Award UMKC SOP
2021	SOP Class of 2024 Excellence in Teaching Award UMKC SOP
2022	SOP Class of 2025 Excellence in Teaching Award UMKC SOP
2023	Runner up, SOP Class of 2026 Excellence in Teaching Award UMKC SOP

PROFESSIONAL ORGANIZATIONS

Missouri Physiological Society- UMKC Ambassador August 2022 - present

PUBLICATIONS

1. Todd-Turla, K. M., X. Zhu, X. Shu, M. Chen, T. Yu, A. Smart, P. Killen, G. Fejes-Toth, J. Briggs and J. Schnermann. Synthesis and secretion of endothelin in a cortical collecting duct cell line. **Am. J. Physiol.**, 271: P330-339, 1996.
2. Todd-Turla, K. M., E. Rusvai, A. Fejes-Toth and G. Fejes-Toth. CFTR expression in cortical collecting duct cells. **Am. J. Physiol.**, 270: F237-244, 1996.

3. Chen, M., K. M. Todd-Turla, W. H. Wang, X. Chao, A. Smart, F. C. Brosius, J. A. Keiser, P. D. Killen, J. P. Briggs and J. B. Schnermann. Endothelin 1 mRNA in glomerular and epithelial cells of the kidney. **Am. J. Physiol.**, 265: F542-550, 1993.
4. Todd-Turla, K. M., J. B. Schnermann, G. Fejes-Toth, A. Naray-Fejes-Toth, A. Smart, P. D. Killen and J. P. Briggs. Distribution of mineralocorticoid and glucocorticoid receptor mRNA along the nephron. **Am. J. Physiol.**, 264: F781-791, 1993.
5. Brigg, J.P., K. Todd-Turla, J.B. Schnermann, and P.D. Killen. Approach to the molecular basis of nephron heterogeneity: Application of reverse transcription-polymerase chain reaction to dissected nephron segments. *Seminars in Neph.* 13(1): 2-12, 1993.
6. Schnermann, J., K. M. Todd, and J. P. Briggs. Effects of dopamine on tubuloglomerular feedback mechanisms. **Am. J. Physiol.**, 258: F790-798, 1990.
7. Storm, D. M., M. B. Turla, K. M. Todd and R. C. Webb. Calcium contractile responses to phorbol esters and the calcium channel agonist Bay K8644 in arteries from hypertensive rats. **Am. J. Hypertension.**, 3: 245S-248S, 1990.

PRESENTATIONS

1. Turla, K. Strategies to Improve Student Engagement and Learning In Physiology Courses. MoPhys Annual Meeting. Nextgen Precision Health Institute, Columbia, MO. Sept. 24, 2022.

PUBLISHED MEETING ABSTRACTS

1. Smartt, J. and K. M. Turla. Foreign Language, Culture & Science: Service Abroad for Health Professionals. **ACTFL**. 2014.
2. Smartt, J. and K. M. Turla. Volunteer Abroad: Changes in Attitudes and Motivations of Health Science Students. **NAFSA**. 2014.
3. Evans, S., J. Smartt, and K. M. Turla. A Service-Learning Abroad Experience for Undergraduate Health Science Students. **9th Annual Conference on Applied Learning**. 2014.
4. Smartt, J. , S. Evans and K. M. Turla. Introducing Students of Science to Foreign Language and Service Abroad. **KSWLA**. 2013.
5. Turla, K. M. Active Learning in an Anatomy and Physiology Lab. **Teaching Professor Conference**. 2011.
6. Turla, K. M. The Effects of Relaxation Breathing Exercise on Exam Performance in a General Biology I Course. **24th Annual HAPS Conference**. 2010.
7. Turla, K. M. Expression of TRPM6 and TRPM7 in cultured cells. **23rd Annual HAPS Conference**. 2009.
8. Turla, K.M. Expression of TRPM7 mRNA in cultured mouse collecting duct cells. **140th Kansas Academy of Science Meeting**. 2008.
9. Turla, K. Integrating the scientific method into anatomy and physiology laboratories. **47th Annual ACUBE Meeting**, 2003.
10. Todd-Turla, K. M., M. Chen, M. Kretxler, D. Rose, A. Smart, T. Yu, X. Zhu, G. Fejes-Toth, J. P. Briggs and J. Schnermann. Synthesis and polarized secretion of endothelin (ET) in a cortical collecting duct cell line. **AHA**, 1994.
11. Todd-Turla, K. M. and G. Fejes-Toth. Detection of CFTR mRNA in cortical collecting duct cells by RT-PCR. **JASN**. 4, 1993.
12. Todd, K. M., P. Killen, J. Schnermann and J. P. Briggs. Differential regulation of glucocorticoid receptor and mineralocorticoid receptor mRNA in rat kidneys. **JASN**. 1(4):434, 1990.
13. Briggs, J. P., K. M. Todd, H. Weihprecht, J. N. Lorenz, P. Killen and J. Schnermann. PCR quantification of mineralocorticoid and glucocorticoid receptor mRNA from isolated nephron segments. **JASN**. 1(4):737, 1990.
14. Briggs, J. P., B. Trivedi, K. Todd, M. Chen, J. Schnermann, J. N. Lorenz, H. Weihprecht, and P. D. Killen. Application of polymerase chain reaction to study rennin gene expression in single rabbit juxtaglomerular apparatus (JGA). **Neren-Nu. Hochdruckkrankheiten**. 19:372, 1990.
15. Briggs, J. P., B. Trivedi, K. Todd, M. Chen, J. Schnermann, J. N. Lorenz, H. Weihprecht, and P. D. Killen. Application of polymerase chain reaction to study rennin gene expression in single rabbit juxtaglomerular apparatus (JGA). **44th Annual Conference of the Council for High Blood Pressure Research**, 1990.
16. Briggs, J. P., K. M. Todd, J. Schnermann and P. D. Killen. Feasibility studies of mRNA quantification in single dissected nephron segments by PCR amplification of cDNA. **Kidney International**. 37:560, 1990.
17. Todd, K. M., J. Davis and J. Schnermann. Inhibition of tubuloglomerular feedback (TGF) responses during dopamine-induced renal vasodilation. **The Faseb Journal**. 3:A542, 1989.