

# Michael J. Tanner, PhD, DABCC(TC), NRCC(TC)

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Boyertown, PA

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## EDUCATION:

September 2016

**Doctor of Philosophy in Pharmacology and Toxicology  
and Clinical and Translational Science**

Graduate School of Biomedical Sciences  
Medical College of Wisconsin, Milwaukee, WI

August 2008

**Master of Science in Forensic Science**

College of Pharmacy, University of Illinois at Chicago, Chicago, IL

May 2007

**Bachelor of Science in Chemistry**

Carroll College (Carroll University), Waukesha, WI

## PROFESSIONAL EXPERIENCE:

September 2025 - Present

**NLCP Inspector**, RTI International, Remote

August 2025 - Present

**Director of Science and Technology**, DRUGSCAN, Horsham, PA

April 2025 - Present

**Owner** - Toxicology & Laboratory Consulting Services, Boyertown, PA

March 2023 - December 2024

**Responsible Person** - NLCP, Quest Diagnostics, Norristown, PA

December 2023 - December 2024

**Lab Director** - CAP FDT, Quest Diagnostics, Norristown, PA

July 2023 - December 2024

**Lab Director** - State of New York, Quest Diagnostics, Norristown, PA

July 2022 - December 2024

**Science Director - Forensic Toxicology**, Quest Diagnostics, Norristown, PA

June 2021 - June 2022

**Laboratory Director**, NOAH Clinical Laboratory, West Allis, WI

June 2017 - June 2022

**Technical Supervisor of Toxicology**, NOAH Clinical Laboratory, West Allis, WI

June 2017 - June 2022

**General Supervisor**, NOAH Clinical Laboratory, West Allis, WI

January 2015 - June 2022

**Adjunct Chemistry Instructor**, Carroll University, Waukesha, WI

May 2016 - May 2017

**Postdoctoral Fellow**, Medical College of Wisconsin, Milwaukee, WI

August 2011 - May 2016

**Graduate Research Assistant**, Medical College of Wisconsin, Milwaukee, WI

January 2013 - March 2014 (PT)

**Forensic Toxicology Technician**, Aurora Health Care, Inc., West Allis, WI

October 2008 - August 2011

## LICENSURE AND CERTIFICATIONS:

July 2025 - Present

**Bioanalytical Lab Director** - New Jersey

March 2025 - Present

**Diplomate** - American Board of Clinical Chemistry - Toxicological Chemistry

July 2023 - Present

**NYDOH Certificate of Qualification** - Clinical and Forensic Toxicology

March 2020 - Present

**Toxicological Chemist** - Nation Registry of Certified Chemists

March 2024 - December 2024

**Responsible Person** - National Laboratory Certification Program

## HONORS AND AWARDS:

2022

**Innovation Award**, Quest Diagnostics, Employer Solutions

2017

**Best Poster Award**, MCW, Department of Medicine Research Retreat

2016

**Poster Session Award**, MCW, Graduate School of Biomedical Sciences

2016

**Early Career Travel Award**, American Heart Association, Council on ATVB

2015

**Early Career Travel Award**, American Heart Association, Council on ATVB

2015 **Poster Session Award**, MCW, Graduate School of Biomedical Sciences  
2015 **AAAS Excellence in Science**, MCW, Graduate School of Biomedical Sciences  
2008 **Academic Excellence**, UIC, Department of Biopharmaceutical Sciences  
2004 **Chemistry Achievement Award**, Carroll College, Department of Chemistry

#### PROFESSIONAL AFFILIATIONS:

2024 - Present **Association for Diagnostics & Laboratory Medicine**, Member  
2011 - Present **American Academy of Forensic Sciences**, *Toxicology Section*, Associate  
2010 - Present **Society of Forensic Toxicologists**, Full Member  
2010 - Present **Midwestern Association of Forensic Scientists**, *Toxicology Section*, Associate  
2009 - Present **Midwestern Association for Toxicology and TDM**, Lifetime Member  
2013 - 2017 **American Heart Association**, *Council on ATVB*, Early Career Member  
2015 - 2017 **American Association for the Advancement of Science**, Member

#### SERVICE:

2025 - Treasurer, Local Penn-Del Section of Association for Diagnostics & Laboratory Medicine  
2022 - Abstract reviewer, Society of Forensic Toxicologists Annual Meeting  
2021 - Abstract reviewer, Society of Forensic Toxicologists Annual Meeting  
2020 - Abstract reviewer, Society of Forensic Toxicologists Annual Meeting  
2016 - Poster judge, Research Day, Medical College of Wisconsin  
2016 - Poster judge, Graduate School of Biomedical Science Poster Session, Medical College of Wisconsin  
2011 - Abstract reviewer, American Academy of Forensic Sciences Annual Meeting

#### MENTORSHIP:

##### Graduate Students

Viktorija Reinikovaite, Medical College of Wisconsin, 10/2016 - 12/2016  
Ankush Korishettar, Medical College of Wisconsin, 03/2016 - 05/2016

#### INVITED PRESENTATIONS:

1. Method Validation in the Toxicology Lab: An Introduction, Field Service Application Specialists In-service, Sciex, 5/11/2026
2. Toxicology After College: An Unexpected Journey, Department of Chemistry Seminar, Carroll University, 1/21/2023
3. Toxicology: An Overview for the Clinical Laboratory, Department of Chemistry Seminar, Carroll University, 9/22/2020
4. Role of Toxicology in the Clinical Laboratory, Department of Chemistry Seminar, Carroll University, 11/26/2019
5. Laboratory Startup: Small-Batch, Hand-Crafted Toxicology, Department of Chemistry Seminar, Carroll University, 9/25/2018
6. Laboratory Startup: Small-Batch, Hand-Crafted Toxicology, Toxicology Grand Rounds, Department of Pathology, Medical College of Wisconsin, 4/26/2018
7. Dynamin-Related Protein 1 Mediates Low Glucose-Induced Endothelial Dysfunction in Human Arterioles, Department of Medicine Research Retreat, Medical College of Wisconsin, 3/10/2017
8. Forensic Toxicology: Overview and Application to Workplace Drug Testing, Department of Chemistry, Advanced Forensic Science (CHE310), Carroll University, 10/14/2016
9. Impact of Hypoglycemia on Cardiovascular Function through Mitochondrial Dynamics of the Endothelium, Department of Chemistry Seminar, Carroll University, 10/01/2015
10. Toxicology: The Science of Poisons, Department of Chemistry, Advanced Forensic Science (CHE310), Carroll University, 10/29/2014
11. Low Glucose and Mitochondrial Function: Role in Cardiovascular Health, Department of Chemistry Seminar, Carroll University, 9/16/2014
12. The Role of Hypoglycemia in Endothelial Dysfunction, Department of Chemistry, Principles of Forensic Science (CHE104), Carroll University, 9/10/2013
13. Toxicology: The Science of Poisons, Department of Chemistry Seminar, Carroll University, 04/2009

#### OTHER PRESENTATIONS, POSTERS, ABSTRACTS

##### National

1. O-linked Glycosylation is Implicated in Mitochondrial Fission and Low Glucose-Induced Endothelial Dysfunction, AHA Scientific Sessions 2016, New Orleans, LA, 11/13/2016
2. Increased Mitochondrial Fission Plays a Critical Role in Low Glucose-Induced Endothelial Dysfunction, AHA Scientific Sessions 2015, Orlando, FL, 11/09/2015

### **Regional**

1. Determination of Methamphetamine Isomers Using Chiral Selective Chromatography and LC-MS/MS, Midwestern Association of Toxicology and Therapeutic Drug Monitoring Annual Meeting, Virtual, 04/29/2021
2. Increased Mitochondrial Fission Plays a Critical Role in Low Glucose-Induced Endothelial Dysfunction, Milwaukee Regional Research Forum, Clinical and Translational Science Institute of Southeast, WI, 10/26/2015

### **Local**

1. Increased Mitochondrial Fission Plays a Critical Role in Low Glucose-Induced Endothelial Dysfunction, Department of Medicine Research Retreat, Medical College of Wisconsin, 3/10/2017 (*Award given*)
2. O-linked Glycosylation is Implicated in Mitochondrial Fission and Low Glucose-Induced Endothelial Dysfunction, Cardiology Grand Rounds, Froedtert Hospital, 11/03/2016
3. O-linked Glycosylation is Implicated in Mitochondrial Fission and Low Glucose-Induced Endothelial Dysfunction, Graduate School of Biomedical Sciences Poster Session, Medical College of WI, 10/06/2016 (*Award given*)
4. Increased Mitochondrial Fission Plays a Critical Role in Low Glucose-Induced Endothelial Dysfunction, Cardiology Grand Rounds, Froedtert Hospital, 10/29/2015
5. Increased Mitochondrial Fission Plays a Critical Role in Low Glucose-Induced Endothelial Dysfunction, Graduate School of Biomedical Sciences Poster Session, Medical College of WI, 10/22/2015 (*Award given*)
6. Low Glucose Induced Signaling in the Vascular Endothelium, Pharm/Tox Departmental Seminar, Medical College of WI, 04/14/2015
7. Dynamin-Related Protein 1 Controls Low Glucose Mediated Endothelial Dysfunction, Graduate School of Biomedical Sciences Poster Session, Medical College of WI, 10/09/2014
8. Low Glucose and Mitochondrial Function: Role in Cardiovascular Health, Pharm/Tox Departmental Seminar, Medical College of WI, 03/04/2014
9. The Role of Hypoglycemia in Endothelial Dysfunction, Pharm/Tox Departmental Seminar, Medical College of WI, 04/30/2013

## **RESEARCH GRANTS/AWARDS/PROJECTS:**

### **Prior**

#### **Peer Review**

Title: Impact of Low Glucose Exposure on Endothelial Function in Humans  
 Source: AHA Pre-doctoral Fellowship (14PRE18710040)  
 Role: Principal Investigator  
 PI: Self  
 Sponsor: Michael E. Widlansky, MD, MPH  
 Dates: 01/01/2014-12/31/2015  
 Direct Funds: \$52,000

## **PUBLICATIONS:**

### **Refereed Journals/Original Papers**

1. **Tanner MJ**. March 2026. Thujone: A Visit from the Green Fairy. *Clinical and Forensic Toxicology News* (Quarterly, the Association for Diagnostics & Laboratory Medicine (formerly AACC/CAP), 7-9. Available from <https://myadlm.org/science-and-research/clinical-and-forensic-toxicology-news/archives/2026/march-2026>.
2. Malik M, Suboc TM, Tyagi S, Salzman N, Wang J, Ying R, **Tanner MJ**, Kakarla M, Baker JE, Widlansky ME. Lactobacillus plantarum 299v Supplementation Improves Vascular Endothelial Function and Reduces Inflammatory Biomarkers in Men With Stable Coronary Artery Disease. *Circulation Research*. 2018;123(9):1091–1102.
3. Widlansky ME, Jensen DM, Wang J, Liu Y, Geurts AM, Kriegel AJ, Liu P, Ying R, Zhang G, Casati M, Chu C, Malik M, Branum A, **Tanner MJ**, Tyagi S, et al. miR-29 contributes to normal endothelial function and can restore it in cardiometabolic disorders. *EMBO molecular medicine*. 2018.

4. **Tanner MJ**, Wang J, Ying R, Suboc TB, Malik M, Couillard A, Branum A, Puppala V, Widlansky ME. Dynamin-Related Protein 1 Mediates Low Glucose-Induced Endothelial Dysfunction in Human Arterioles. *Am J Physiol Heart Circ Physiol*. 2017;312(3):H515-H527.
5. Widlansky ME, Puppala V, Suboc TM, Malik M, Branum A, Wang J, Ying R, **Tanner MJ**, Tyagi S. Impact of DPP-4 Inhibition on Acute and Chronic Endothelial Function in Humans with Type 2 Diabetes on Background Metformin Therapy. *Vasc Med Lond Engl*. January 2017:1358863X16681486.
6. Suboc TB, Strath SJ, Dharmashankar K, Couillard A, Miller N, Wang J, **Tanner MJ**, Widlansky ME. Relative Importance of Step Count, Intensity, and Duration on Physical Activity's Impact on Vascular Structure and Function in Previously Sedentary Older Adults. *Journal of the American Heart Association*. 2014;3(1)
7. Suboc TMB, Dharmashankar K, Wang J, Ying R, Couillard AB, **Tanner MJ**, Widlansky ME. Moderate obesity and endothelial dysfunction in humans: influence of gender and systemic inflammation. *Physiological Reports*. 2013;1(3).

#### **Abstracts**

1. **Tanner MJ**, Wang J, Ying R, Shahreyar M, Puppala V, Branum A, Widlansky ME. Abstract 16069: O-linked Glycosylation is Implicated in Mitochondrial Fission and Low Glucose-induced Endothelial Dysfunction. *Circulation*. 2016;134(Suppl 1):A16069–A16069.
2. Puppala VK, Branum A, Muhammad S, Wang J, Ying R, **Tanner M**, Widlansky M. Abstract 13747: Addition of Dipeptidyl Peptidase-4 Inhibition to Metformin Mono-therapy Reduces Vascular Inflammation in Humans With Diabetes Mellitus Type 2. *Circulation*. 2016.
3. Malik MA, Suboc T, Strath SJ, Wang J, **Tanner MJ**, Ying R, Widlansky M. Impact Of Increasing Physical Activity Over 12 Weeks In Previously Sedentary Older Adults: A 1-Year Follow Up. *J Am Coll Cardiol*. 2015;65(10\_S).
4. **Tanner MJ**, Wang J, Ying R, Malik M, Branum A, Suboc TB, Couillard A, Widlansky ME. Abstract 11505: Increased Mitochondrial Fission Plays a Critical Role in Low Glucose-Induced Endothelial Dysfunction. *Circulation*. 2015;132(Suppl 3):A11505-A11505.