

CURRICULUM VITAE - CHAD M. VEZINA, PH.D.

PERSONAL DATA:

University of Wisconsin-Madison
School of Veterinary Medicine
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Google scholar page:

<https://scholar.google.com/citations?user=71yT1clAAAAJ&hl=en&oi=sra>

My Bibliography page:

<https://www.ncbi.nlm.nih.gov/myncbi/chad.vezina.1/bibliography/public/>

AUTOBIOGRAPHICAL SUMMARY:

I am a Professor of Comparative Biosciences at the University of Wisconsin-Madison School of Veterinary Medicine and a member of the University of Wisconsin-Madison George M. O'Brien Center for Benign Urology Research. I received a B.A. degree in Chemistry & Biology from St. Olaf College and a Ph.D. in Pharmacology & Toxicology from the University at Buffalo. I completed post-doctoral studies at the University of Wisconsin-Madison where I investigated how environmental chemicals impact prostate development and function. My current research examines how the urinary tract develops and the mechanisms responsible for prostate-related urinary dysfunction in men. I am actively involved in building new research model systems and tools for microscopic image analysis and urodynamic testing in rodent models. I have dedicated substantial effort to resolving the landscape of the prostate through molecular mapping studies as part of the NIH-sponsored GenitoUrinary Development Molecular Anatomy Project ([GUDMAP](#)). I am also embedded in the urologic and toxicologic research fields, with roles in the Midwest Regional chapter of the Society of Toxicology, UW-Madison / UMASS Boston / UT Southwestern George M. O'Brien Center for Benign Urologic Research, and planning committee member for meetings of the Society of Toxicology, American Urological Society, and Society of Basic Urologic research.

I view my role in developing the next generation of scientists as the most important and rewarding aspect of my career. I developed an [online course](#) for K award applicants in conjunction with the American Urological Association. I chair a standing NIH study section member for career development (K) awards. I have been a faculty instructor for the Cold Spring Harbor Mouse Development, Stem Cells & Cancer Course, and the Jackson Laboratories Workshop on Techniques in Modeling Human Cancer in Mice. I am an external advisor for NIH K12 and R25 career development programs. I was a member of the trainee affairs committee of the Society of Basic Urologic Research. I am director of the UW-Madison [Molecular and Environmental Toxicology Graduate Program](#). I created and lead the [UW-Madison Summer Program in Undergraduate Urology Research](#). I have served as primary research mentor to four post-doctoral trainees, ten PhD trainees, five veterinary trainees, 22 undergraduates and three high school students. Trainees in my laboratory have been productive and successful, evidenced by a rich publication record and numerous prestigious awards earned during and after tenure in my lab (Rhoades scholarship Finalist, Barry Goldwater Scholarship, NSF graduate

CURRICULUM VITAE

CHAD M. VEZINA

research fellowship, NIEHS T32, F30, F31, K01, K12 and K99 fellowships) and by placement in outstanding academic and industry positions. I have also served on 54 PhD/MS dissertation committees, six NIH post-doctoral fellow committees, and 8 junior faculty committees.

PROFESSIONAL EXPERIENCE:

Current:

- 2022-Present Director, Multidisciplinary K12 Urologic Research Career Development Program, UW-Madison
- 2019-Present Associate Director, George M. O'Brien Benign Urologic Research Center, UW-Madison
- 2019-Present Director, Molecular and Environmental Toxicology Center, University of Wisconsin-Madison
- 2015-Present Director, Summer Program in Undergraduate Urologic Research (SPUUR)
- 2020-Present Professor, Dept. Comparative Biosciences, University of Wisconsin-Madison School of Veterinary Medicine, Madison, WI
- 2019-Present Adjunct Professor, Dept. Urology, University of Wisconsin-Madison School of Medicine and Public Health
- 2019-Present Affiliate Professor, Division of Pharmaceutical Sciences, University of Wisconsin-Madison School of Pharmacy

Previous:

- 20015-2020 Associate Professor, Dept. Comparative Biosciences, University of Wisconsin School of Veterinary Medicine, Madison, WI
- 2017-2018 Associate Director, Molecular and Environmental Toxicology Center, University of Wisconsin-Madison
- 2009-2015 Assistant Professor, Dept. Comparative Biosciences, University of Wisconsin School of Veterinary Medicine, Madison, WI
- 2003-2009 Postdoctoral Research Fellow, School of Pharmacy, University of Wisconsin, Madison, WI
- 1998-2003 Research Assistant, Dept. Pharmacology and Toxicology, University at Buffalo, Buffalo, NY
- 1998 Intern, University of Minnesota Veterinary Diagnostic Laboratory, St. Paul, MN
- 1998 Intern, Ecolab Department of Research and Development - Division of Pest Elimination, St. Paul, MN
- 1996 Program Intern, Minnesota Department of Natural Resources, St. Paul, MN

EDUCATION AND TRAINING:

- 2003-2009 **University of Wisconsin-Madison**, Madison, WI, Post-doctoral Fellowship
- 1998-2003 **University at Buffalo**, Buffalo, NY, Ph.D., Pharmacology and Toxicology
- 1994-1998 **St. Olaf College**, Northfield, MN, B.A. (Cum Laude), Chemistry, Biology
- 1992-1994 **Minnehaha Academy High School**, Minneapolis, MN
- 1991-1992 **Burnsville High School**, Burnsville, MN

GRANT SUPPORT:

Current Support:

- 1. R25 DK130838 (Chad Vezina and Kris Penniston, PIs), 7/01/2021 to 6/30/2026**
NIH/NIDDK, \$1,385,009 total DC/yr
Summer Program in Undergraduate Urology Research (SPUUR)
Role: PI.
- 2. RC2 DK129994 (Chad Vezina and Doug Strand, MPI), 09/15/2022-05/31/2027**
NIH/NIDDK (\$742,461 Direct / year)
Bedside to bench resources for lower urinary tract research
Role: MPI
- 3. U54 DK104309 (Jonathan Barasch, Cathy Mendelson, Ali Gharavi PIs), 7/01/2021 to 6/30/2026**
NIH/NIDDK, \$10,000 annual DC to my lab
Important for Urothelial Homeostasis and Response to Injury
Role: Co-I
- 4. U54 DK104310 (William Ricke, PI), 9/25/2019 to 7/31/2024**
NIH/NIDDK (\$129,407 direct costs/ year to my lab)
CTGF drives voiding dysfunction through expression of collagen in periurethral SRD5A2+ fibroblasts.
Roles: Associate Center Director and Project 2 director.
- 5. R01 ES001332 (Chad Vezina and Richard Peterson, MPI), 08/01/2017-07/31/2022**
NIH/NIEHS \$1,542,770 total direct costs
Reproductive and developmental toxicity of dioxin
The goal is to test whether TCDD causes BPH and urinary complications
Role: Multiple Principal Investigator
- 6. U01 DK110807 (Chad Vezina, PI), 9/15/2016-6/31/2021 (No cost-extension)**
NIH/NIDDK (\$203,032 direct costs/ year)
Molecular and fate maps of prostatic stroma
The goal is to create cell lineage, RNA, and protein maps across mouse and human prostatic stroma.
Role: Principal Investigator
- 7. R01 DK118145 (Dale Bjorling, PI), 08/05/2019-04/30/2023**
NIH/NIDDK (\$585.489 direct costs/year)
Regulation of bladder structure and function by micro-RNA29
Role: Co-Investigator
- 8. R01 HD094759 (Laura Hernandez, PI), 07/20/2018 – 04/30/2023**
NIH/NICHHD (\$214,283 direct costs/ year)
Influence of SSRI use during pregnancy and lactation on maternal bone health
Role: Co-Investigator
- 9. T32 ES007015 (Christopher Bradfield, PI), 7/01/2018-6/30/2023**
NIH/NIEHS, (\$612,326 direct costs/ year)
Molecular & environmental toxicology pre- and postdoctoral training grant
Role: Co-Investigator (Deputy Director)
- 10. F30 DK122686 (Hannah Ruetten, PI), 09/05/2019 to 10/4/2021**
NIH/NIDDK (\$31,466 direct costs/ year)
Prostate inflammation increases collagen and voiding dysfunction
Role: Primary Mentor
- 11. K12 DK100022 (Matthew Grimes PI), 07/01/2020 to 06/30/2025**

NIH/NIDDK (\$ \$139,42 Direct /year)

Loss of CD44 expression drives altered collagen structure in lichen sclerosis

Role: Co-mentor

12. K01 DK127150 (Petra Popovics, PI) 01/15/2021-01/14/2022

NIH/NIDDK (\$146,500 Direct / year)

Osteopontin: A Novel Mediator of prostatic inflammation and fibrosis

Role: Co-mentor

Pending Support:

U2C/TL1 000000-00 (John Lieske and Chad Vezina, PIs) 07/01/2023 - 06/30/2028

NIH/NIDDK, \$6,972,331 total DC

Next Generation KUH Researchers (GENERATOR)

Role: MPI

K12 DK100022 (Chad Vezina and Heidi Brown, PIs) 07/01/2023 - 06/30/2028

NIH/NIDDK, \$2,995,590 total DC

Wisconsin Multidisciplinary K12 Urologic Research Career Development Program

Role: MPI

R01 DK000000-00 (Doug Strand PI), 07/01/2023 – 06/30/2028

NIH/NIDDK, 268,134.00 total DC to my lab

Interstitial fibroblasts drive prostate branching morphogenesis

Role: Co-I

R01 HD111425 (Fei Zhao PI), 04/2023 – 03/2028

NIH/NICHHD, 268,134.00 total DC to my lab

Mechanisms of androgen-dependent Wolffian duct differentiation

Role: Co-I

Completed Support:

R01 CA204320 (Jim Shull, PI), 3/1/2017-2/29/2022

NIH/NCI, (\$323,058 direct costs/ year)

Characterization of Emca4, the rat ortholog of the 8q24 breast cancer risk locus

The goal is to map and characterize a genetic locus of susceptibility to breast cancer.

Role: Co-Investigator

F31 ES030968 (Anne Turco, PI), 04/21/2020 to 04/20/2022

NIH/NIDDK (\$31,466 direct costs/ year)

Developmental origins of prostate-related urinary dysfunction in adult males: TCDD exposure increases prostatic noradrenergic innervation and smooth muscle contraction

Role: Primary Mentor

K12 (Petra Popovics PI, 06/01/2019 to 05/31/2024

NIH/NIDDK (\$ \$139,42 Direct /year)

The role of osteopontin in prostatic inflammation and benign prostatic hyperplasia

Role: Co-mentor

F31 ES028594-01A1 (Kyle Wegner, PI) 4/1/2018-3/30/2019

NIH/NIEHS, (\$31,466 direct costs/ year)

TCDD reprograms prostate stroma and causes fibrosis to induce urinary dysfunction
Role: Primary Mentor for Kyle Wegner

R01DK099328 (Chad Vezina, PI), 07/15/2014-06/30/2019

NIH/NIDDK, \$217,400 direct costs/ year)

Role of DNA methylation in prostate glandular development and urinary function

The goal is to determine how DNA methylation controls prostate glandular development and how its actions during development and in adulthood impact urinary function

Role: Principal Investigator

U54DK104310 (Will Ricke, PI), 9/24/2014-8/31/2019

NIH/NIDDK (150,165 direct costs/year)

Roles of beta-catenin in urinary dysfunction

The goal is to elucidate beta-catenin roles in lower urinary tract fibrosis and urinary dysfunction

Role: Project Director

U01DK110807-02S1 (Chad Vezina Mentor for Mark Cadena), 06/01/2017 – 05/31/2018

NIH/NIDDK, \$131,482 total direct costs

Role of prostate neuroendocrine cells in homeostatic regulation of prostate stroma (Diversity Supplement)

Role: Sponsor/Principal Investigator

(Vezina and Nichol, CO-PI), 07/01/2016-06/30/2017

The Institute for Clinical and Translational Research (an NIH CTSA awardee), UW-Madison \$50,000

Generating autologous intestinal organoids to treat intestinal diseases

The goal is to test the role of stromal matrices in controlling lineage assignments of intestinal progenitors

Role: Principal Investigator

UW-Madison Comprehensive Cancer Center (Will Ricke, PI), 4/01/2016-3/31/2017

\$12,500 total direct costs

Identification of DDX3/Belle as a mediator of androgen receptor stability: a new mechanism for castration resistant prostate cancer (CRPC).

The goal is to determine whether the RNA helicase, DDX3, increases androgen receptor stability in prostate cancer

Role: Co-Investigator

R01ES001332 (Richard E. Peterson, PI), 09/01/2010-08/31/2015

NIH/NIEHS, \$2,025,350 total direct costs

Reproductive and developmental toxicity of dioxin

The goal is to identify molecular mechanisms responsible for impaired mouse prostate development and increased prostate disease risk following *in utero* and lactational TCDD exposure.

Role: Co-Investigator

P20DK097826 S2 (Wade Bushman, PI), 05/14/2012- 05/15/2015

NIH/NIDDK, \$99,676 total direct costs

Supplement to urinary biomarkers of lower urinary tract symptoms (LUTS) in men

The goal of this subproject is to create fate maps for the various cell types in the developing and regenerating lower urinary tract of male and female mice.

Role: Co-Investigator

P20DK097826 (Wade Bushman, PI), 9/29/2012 - 8/31/2015

NIH/NIDDK, \$400,000 total direct costs

Urinary biomarkers of lower urinary tract symptoms (LUTS) in men

The goals are to identify urinary protein and metabolite biomarkers that associate with urinary tract symptoms in men and identify mouse models of LUTS that recapitulate these biomarkers.

Role: Co-Investigator

R03DK096074 (Chad Vezina, PI), 07/20/2012-12/31/2014

NIH/NIDDK, \$100,000 total direct costs

The epigenome: a new target for androgen receptor in developing prostate

The goal is to characterize epigenetic regulation and function of WNT inhibitory factor 1 in prostate development.

Role: Principal Investigator

Chad Vezina, PI (Will Ricke, Co-PI), 1/2014 – 3/2014

Molecular and Environmental Toxicology Center, UW-Madison, \$9,000 total direct costs

Effects of fetal TCDD exposure on adult male urinary dysfunction

The Goal is to test whether fetal exposure to dioxin changes urinary function in adulthood

Role – Principal Investigator

13GHSU24 Chad Vezina, PI, 10/01/2013 – 9/30/2014

Diabetes Complications Consortium, \$43,190 total direct costs

Intermittent hypoxia and urologic complications of diabetes

The goal is to test whether intermittent hypoxia, a hallmark of obstructive sleep apnea, causes urinary dysfunction in control mice and worsens urinary function in diabetic mice

Role: Principal Investigator

K01DK083425 (Chad Vezina, PI), 04/01/2009-09/30/2014

NIH/NIDDK, \$717,443 total direct costs

Beta-catenin and prostate development

The goal is to determine the mechanisms by which beta-catenin participates in prostate development in the mouse.

Role: Principal Investigator

Chad Vezina, PI, 07/01/2013 - 6/30/2014

UW-Madison Graduate School, \$39,043 total direct costs

The role of DNA methylation in prostate morphogenesis

The goal is to test the requirement of Dnmt1 in prostate development

Role: Principal-Investigator

U01DK070219 (James Lessard, PI), 09/01/2009-03/30/2011

NIH/NIDDK, \$179,728 total direct costs

Murine atlas of genitourinary smooth muscle development.

The goal of the subcontract is to create an atlas of gene expression in the fetal, neonatal, and adult prostate.

Role: Principal Investigator of subcontract entitled 'Murine Atlas of Prostate Development.'

F32ES014284 (Chad Vezina, PI), 1/1/2005-11/30/2008

NIH/NIEHS, \$150,772 total direct costs

TCDD impairs prostate development: *Cyp2c39* & retinoids

The Goal is to determine whether *Cyp2c39*-mediated metabolism of retinoic acid contributes to impaired mouse ventral prostate development by TCDD.

Role: Principal Investigator

CLASSROOM INSTRUCTION:

2021-Present	Introduction to Responsible Conduct in Research (OBGYN 955), University of Wisconsin-Madison
2019-Present	Summer Research Scholars Responsible Conduct in Research, University of Wisconsin-Madison
2019-Present	Scientific Communication in Molecular & Environmental Toxicology (MET801), University of Wisconsin-Madison
2017-Present	Research Ethics and Career Development (PBS938), University of Wisconsin-Madison
2016-Present	Toxicology II (MET626), University of Wisconsin-Madison
2014-Present	Responsible Conduct of Research for Biomedical Graduate Students (OBGYN955), University of Wisconsin-Madison
2011-Present	Active Integrated learning II (OBS703), University of Wisconsin-Madison
2011-Present	Endocrine Physiology (ANSCI875), University of Wisconsin-Madison
2004-Present	Toxicology I (MET625), University of Wisconsin-Madison
2014	Colloquium in Environmental Toxicology (MET606), University of Wisconsin-Madison
2012	Urology Resident Education Conference, University of Wisconsin-Madison
2010	Veterinary Pharmacology (CBS556), University of Wisconsin-Madison
2009	Introduction to Veterinary Research, University of Wisconsin-Madison
2000-2001	Clinical Biochemistry (CLS401), University at Buffalo
2000-2001	Toxicology Principles and Practice (Pharm626), University at Buffalo

ADVISORY LEADERSHIP:

2022-Present	External Advisor, Chicago Kidney Urology Hematology network FOR city-Wide reseArch tRaining and career Development (Chicago KUH FORWARD) (Northwestern University)
2021-Present	Advisory Board Member, UW-Madison SciMed Graduate Research Scholars
2021-Present	Internal Steering Committee, UW-Madison Post-Baccalaureate Program in Biomedical Sciences
2020	External Advisor, NorthShore University / Indiana University P20 Center for Benign Urologic Research
2020-Present	Chair of admissions and executive committee member, UW-Madison Graduate Program in Clinical Investigation
2022-Present	Director, UW-Madison Multidisciplinary K12 Urologic Research Career Development Program
2016-Present	Director, UW-Madison Summer Program in Undergraduate Urology Research (SPUUR)
2019-Present	Director, UW-Madison Molecular and Environmental Toxicology Program
2019-Present	Associate Director, UW-Madison George M. O'Brien Benign Urology Research Center
2019-2020	President, Midwest Regional Chapter of the Society of Toxicology
2019-Present	Steering Committee Member, UW-Madison Endocrinology and Reproductive Physiology T32 Training Grant
2018-Present	External Advisor, Mayo Clinic of Rochester Nephrology Summer Undergraduate Research Fellowship Program
2017-2019	Associate Director, UW-Madison Toxicology T32 Training Grant

CURRICULUM VITAE

CHAD M. VEZINA

2017 External Advisor, University of California San Francisco Multidisciplinary Urologic Research (KURe) advisory committee

ADVISEES:

Staff Scientist Mentor:

2014-2020 Lisa Abler

Multidisciplinary K12 Urologic Research (KURe) Career Development Program Trainee Mentor:

2020-present Matthew Grimes, Assistant Professor of Urology UW-Madison

2020-present LaTasha Crawford, Assistant Professor of Pathobiological Sciences UW-Madison

2019-present Petra Popovics, Assistant Scientist UW-Madison

NIH K01 Career Development Awardee Advisory Committee Member

2022-present Katherine Xu, Post-doctoral Scholar, Columbia University

2020-present Petra Popovics, Assistant Scientist, UW-Madison

2019-present Teresa Liu, Assistant Scientist, UW-Madison

Post-doctoral Trainee Mentor:

2018 Chelsea O'Driscoll

2009-2014 Vatsal Mehta

2009-2014 Lisa Abler

Ph.D. Thesis Mentor:

2022-Present Robbie Manuel

2021-Present Marcela Ambrogi

2019-Present Nelson (Thomas) Peterson

2019-Present Brandon Scharpf

2016-2021 Anne Turco

2016-2021 Hannah Ruetten

2015-2020 Mark Cadena

2014-2019 Kyle Wegner

2015-2018 Diya Joseph

2010-2015 Kimberly Keil

Veterinary Scholar Mentor:

2020 Mary Murphy

2019-2020 Clara Cole

2019 Marlyse Wehber

CURRICULUM VITAE

CHAD M. VEZINA

2013-2014 Rheba Mabie Zimmerman
2012-2013 Matthew Slentz

Undergraduate Researcher Mentor:

2022 Peter Graf
2022 Piper Bandera
2020-2022 Oliva Fox
2019-2021 Jonathan Zhu
2019-2020 Nicholas Girardi
2019-Present Jaskiran Sandhu
2018-2022 Simran Sandhu
2018 Britta Chelgren
2018-2021 Thrishna Chathurvedula
2017-2019 Brett Mueller
2015-2019 Royal Oakes
2017-2018 Helen Zhang
2017 Jalin Roberson
2017 Laura Vergenz
2017 Tyler Didier
2017 Enrique Avila
2016 David Pontes
2016 Kalina Bathke
2016-2018 Adam Gottschalk
2015 Kamyra Odokpolor
2015 Katyalex Schoenicke
2015 Regan Truttschel
2014 Arnaldo Lopez
2011-2016 William Mulligan
2014-2016 Helene Altmann
2012-2014 Christopher Schmitz
2010-2011 Erik Elton
2010-2014 Pinak Joshi
2014 Chelsea Leigh Flucus

High School Researcher Mentor:

2021-2023 Sneha Chandrashekar
2018-2019 Jaskiran Sandhu
2018 Simran Sandhu
2016-2017 Anoop Chandrashekar

Vezenia Lab Trainee Awards:

- 2022 Jaskiran Sandhu, Undergraduate Researcher, UW-Madison Hilldale Research Award
- 2022 Sneha Chandrashekar, high school researcher, Capital Science and Engineering Fair (2nd place in biological and chemical sciences, Society for women engineers award, Society for in vitro biology award) and Badger State Science and Engineering Fair (4th Overall, 2nd place in Medicine/Health, and American Society for Quality Award)
- 2021 Matthew Grimes, K12 Scholar, Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Annual Meeting, Best Abstract Award
- 2021 Clara Cole, Veterinary Student Researcher, CBS award for veterinary research excellence
- 2021 Jaskiran Sandhu, Undergraduate Researcher, UW-Madison Sophomore Research Fellowship
- 2021 Hannah Ruetten, Research Assistant, Richard F. Marsh Outstanding Graduate Student Award for exceptional research accomplishments
- 2020 Hannah Ruetten, Research Assistant, Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) annual meeting, best poster award
- 2020 Anne Turco, Research Assistant, Society of Basic Urologic Research Travel Award
- 2020 Thrishna Chathurvedula, Undergraduate Researcher, UW-Madison Hilldale Undergraduate Research Fellowship
- 2020 Anne Turco, Research Assistant, Eric Andreasen Memorial Award for Research Excellence
- 2020 Anne Turco, Research Assistant, National Institutes of Health F31 Research Fellowship Award
- 2020 Kyle Wegner, Research Assistant, Wisconsin Initiative for Science Literacy Award for Communicating Graduate Chemistry Research to the Public.
- 2020 Anne Turco, Celebrating Women in Toxicology Award, Society of Toxicology
- 2019 Hannah Ruetten, Research Assistant, Best Poster Award, Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Kansas City, MO
- 2019 Nick Girardi, Undergraduate Researcher, Trewartha Senior Thesis Research Grant (University of Wisconsin-Madison College of Letters and Science)
- 2019 Anne Turco, Research Assistant, Zaman-Saroya Award winner for excellence in research and scholarship (University of Wisconsin-Madison)
- 2019 Kyle Wegner and Hannah Ruetten, Research Assistant, Travel Award Grants to the Society of Toxicologic Pathology
- 2019 Diya Binoy Joseph, Research Assistant, UW-Madison Cellular and Molecular Biology Exceptional Thesis Award (given to one student annually)
- 2019 Kyle Wegner, Research Assistant, UW-Madison Student Travel Award Grant
- 2019 Phinea Romero, Summer Research Intern, Robert Gunn Student Award, American Physiological Society
- 2018 Anne Turco, Research Assistant, Society of Toxicology Supplemental Training for Education Program (STEP) Award
- 2018 Chelsea O'Driscoll, Research Associate, Best Poster Award, Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD
- 2018 Hannah Ruetten, Research Assistant, Best Poster Award, Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD
- 2018 Anne Turco, Research Assistant, Eula and Donald S. Coffey Research Innovation Award, Society for Basic Urologic Research

CURRICULUM VITAE

CHAD M. VEZINA

- 2018 Mark Cadena, Research Assistant, travel award to the 2018 Society for Basic Urologic Research Annual Meeting
- 2018 Anne Turco, Research Assistant, travel award to the 2018 Society for Basic Urologic Research Annual Meeting
- 2018 Kyle Wegner, Research Assistant, travel award to the 2018 Society for Basic Urologic Research Annual Meeting
- 2018 Hannah Ruetten, Research Assistant, travel award to the 2018 Society for Basic Urologic Research Annual Meeting
- 2018 Diya Joseph, Research Assistant, Cellular and Molecular Biology Travel Award
- 2018 Mark Cadena, Research Assistant, two-year research grant from the National Institutes of Health to support his studies of prostate neuroendocrine cells
- 2018 Hannah Ruetten, Research Assistant, Comparative Biomedical Sciences Spring Travel Award
- 2018 Kyle Wegner, Research Assistant, Midwest Regional Chapter of the Society of Toxicology Young Investigator Award
- 2018 Kyle Wegner, Research Assistant, Eric Andreasen Memorial Award for Research Excellence
- 2018 Kyle Wegner, Research Assistant, National Institutes of Health F31 Research Fellowship Award
- 2018 Hannah Ruetten, Research Assistant, Comparative Biomedical Science Graduate Program Travel Award
- 2018 Hannah Ruetten, Research Assistant, Institute of Clinical and Translational Research TL-1 clinical training grant
- 2017 Kyle Wegner, Research Assistant, Society of Toxicology Supplemental Training for Education Program (STEP) Award
- 2017 Diya Binoy Joseph, Research Assistant, Gregory F. Daniels Best Poster award, UW-Madison Stem Cell & Regenerative Medicine Center Fall Conference
- 2017 Kyle Wegner, Research Assistant, Zaman-Saroya Award winner for excellence in research and scholarship (University of Wisconsin-Madison)
- 2017 Anne Turco, Research Assistant, National Institutes of Health T32 training grant in Molecular and Environmental Toxicology
- 2017 Diya Binoy Joseph, Scholar, Workshop on Epigenetics at the Van Andel Research Institute
- 2017 Kyle Wegner, Research Assistant, cover art in J Histochem Cytochem
- 2017 Stephen (Royal) Oakes, Undergraduate Researcher, Hilldale Undergraduate Research Fellowship
- 2017 Anoop Chandrashekar, Undergraduate Researcher, National Merit Scholar Finalist.
- 2016 Mark Cadena, Research Assistant, Society for Basic Urologic Research Fall Meeting Travel Award
- 2016 Diya Binoy Joseph, Research Assistant, Society for Basic Urologic Research Fall Meeting Travel Award
- 2016 Diya Binoy Joseph, Research Assistant, Cellular and Molecular Biology Travel award
- 2016 Stephen (Royal) Oakes, Undergraduate Researcher, UW-Madison College of Engineering Frederick J. Mancheski Scholarship
- 2016 Diya Binoy Joseph, Research Assistant, American Urological Association Summer Research Conference Travel Award
- 2016 Stephen (Royal) Oakes, Undergraduate Researcher, Sophomore Undergraduate Research Fellowship
- 2015 Helene Altmann, Undergraduate Researcher, Promega International Scientific Internship Scholarship
- 2015 Bill Mulligan, Undergraduate Researcher, Barry Goldwater Federal Scholarship

CURRICULUM VITAE

CHAD M. VEZINA

- 2015 Bill Mulligan, Undergraduate Researcher, Rhoades Scholarship Finalist
- 2015 Helene Altmann, Undergraduate Researcher, Covance Laboratories Pharmacology and Toxicology Excellence Award
- 2014 Kimberly Keil, Research Assistant, Society of Basic Urology Research Travel Award
- 2014 Helene Altmann, Undergraduate Researcher, Hilldale Undergraduate Research Fellowship
- 2014 Bill Mulligan, Undergraduate Researcher, Hilldale Undergraduate Research Fellowship
- 2014 Kimberly Keil, Research Assistant, Richard F. Marsh Outstanding Graduate Student Award
- 2013 Kimberly Keil, Research Assistant, SVM research day top poster prize
- 2012 Kimberly Keil, Research Assistant, Vilas Travel Award
- 2012 Lisa Abler, Research Associate, Society for Basic Urologic Research Travel award
- 2011 Kimberly Keil, Research Assistant, NSF Graduate Research Fellowship

Ph.D. Thesis Committee Member:

- 2023-Present Rachel Dahm, Endocrinology and Reproductive Physiology
- 2023-Present Paula M. Mañán Mejías, Pharmaceutical Sciences
- 2022-Present Madelyn Ellis, Cancer Biology
- 2022-Present Alyssa Fogarty, Comparative Biosciences
- 2022-Present Samuel Saghafi, Comparative Biomedical Sciences
- 2022-Present JP Andrade, Dairy Sciences
- 2021-Present Alexis Adrian, Molecular and Cellular Pharmacology
- 2020-Present Tyler Beams, Molecular and Environmental Toxicology
- 2020-Present Conner Kennedy, Molecular and Environmental Toxicology
- 2020-Present Emily Tran, Comparative Biomedical Sciences
- 2019-Present Kenneth Sandro Rivera-Gonzalez, Molecular and Environmental Toxicology
- 2023 Hannah Fricke, Endocrinology and Reproductive Physiology
- 2021 Kyoungtea Kim, Molecular and Environmental Toxicology
- 2021 Celeste Underriner, Molecular and Cellular Pharmacology
- 2022 Chris Unterberger, Pharmaceutical Sciences
- 2022 Genevra Kuziel, Cancer Biology
- 2022 Melissa Adams, Genetics
- 2020 Joni Sedillo, Molecular and Environmental Toxicology
- 2020 Lauren Hillers, Cellular and Molecular Biology
- 2020 Anna Kowalkowski, Physiology
- 2020 Rachel Wilson, Molecular and Environmental Toxicology
- 2019 Anqi Fu, Endocrinology and Reproductive Physiology
- 2019 Samuel Thomas, Molecular and Environmental Toxicology
- 2019 Juliana Falero-Perez Ph.D., Molecular and Environmental Toxicology Program
- 2018 Jessica Muhlenbeck, Molecular and Environmental Toxicology
- 2018 Eunjin Cho, Molecular Pathology

CURRICULUM VITAE

CHAD M. VEZINA

2018	Bao Le, Pharmaceutical Sciences
2018	Samantha Weaver Ph.D., Endocrinology and Reproductive Physiology
2018	Josh Everson Ph.D., Molecular and Environmental Toxicology
2018	Jalissa Wynder Ph.D., Molecular and Environmental Toxicology
2017	Katharine Hausmann, Comparative Biosciences
2017	Mele Avilla, Molecular and Environmental Toxicology
2017	Ling Hao Ph.D., Pharmaceutical Sciences
2017	Michael Shea Ph.D., Molecular and Environmental Toxicology
2016	Annette Dean, Genetics
2016	Joseph Gawdzik Ph.D., Molecular and Environmental Toxicology
2016	Monica Yue Ph.D., Molecular and Environmental Toxicology
2016	Meghan Maguire Ph.D., Endocrinology and Reproductive Physiology
2015	Felipe Burns Ph.D., Molecular and Environmental Toxicology
2014	Elizabeth Hines Ph.D., Genetics
2014	Jimena Laporta Ph.D., Dairy Sciences
2014	Caroline Piskun Ph.D., Comparative Biomedical Sciences
2014	Samantha Lewis Ph.D., Endocrinology and Reproductive Physiology
2014	Letitia Wong Ph.D., Molecular and Environmental Toxicology

M.S. Thesis Committee Member:

2022	Christina Riehle, Endocrinology and Reproductive Physiology
2022	McKenna Crossen, Endocrinology and Reproductive Physiology
2021	Christian Hernandez, Molecular and Cellular Pharmacology
2020	Shelby Peterson, Molecular and Environmental Toxicology
2021	Hannah Peterson, Molecular and Environmental Toxicology
2018	Hannah Chung, Molecular and Environmental Toxicology
2016	Lydia Ansen-Wilson M.S., Comparative Biomedical Sciences
2015	Ryan Dashek M.S., Comparative Biomedical Sciences
2012	Shaina Johnson M.S., Molecular and Environmental Toxicology

NIH T32 Postdoctoral Training Grant Mentoring Committee Member:

2017	Clara Jeong Ph.D., Molecular and Environmental Toxicology
2017	Neil Lamarrre Ph.D., Molecular and Environmental Toxicology
2015	Catherine Rondelli Ph.D., Molecular and Environmental Toxicology
2013	Conrad Valdez Ph.D., Molecular and Environmental Toxicology
2010	Amanda Branam Ph.D., Molecular and Environmental Toxicology

Advanced Trainee, Clinical and Tenure Track Faculty mentoring committee member:

2022	Molly Racette, DVM, Assistant Professor of Medical Sciences
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CURRICULUM VITAE

CHAD M. VEZINA

2021-Present Heather Barkholtz, PhD, Assistant Professor of Pharmaceutical Sciences / Wisconsin State Lab of Hygiene
2021-Present Lauren Baker, DVM, Scientist and K12 Scholar Department of Medical Sciences
2020-Present Matthew Grimes, MD, Assistant Professor of Urology
2018-Present Mackenzie Pellin, DVM, Assistant Clinical Professor of Medical Sciences
2018-Present LaTasha Crawford, DVM, Assistant Professor of Pathobiological Sciences
2015-2020 Teresa Liu, Ph.D., K12 Scholar, Dept. Urology
2017-Present Michael Cahill, Ph.D., Assistant Professor of Comparative Biosciences
2014-2019 Sara Colopy D.V.M/Ph.D., Lecturer, Surgical Sciences
2014-2018 Mike Wood, D.V.M., Assistant Professor, Medical Sciences

UNIVERSITY COMMITTEES:

2022 UW-Madison Graduate School Responsible Conduct in Research Taskforce
2021-Present SciMed Graduate Research Scholars Advisory Board Member
2018-2019 School of Veterinary Medicine Principal Investigator Committee
2018-2019 School of Veterinary Medicine Digital Task Force
2017-2022 Selection Committee Co-Chair, Razia Zaman and Shahanara Zaman-Saroya Memorial Fund for Excellence in Scholarship and Research in the Pharmaceutical and Toxicological Sciences
2017-Present Molecular and Environmental Toxicology Graduate Program Admissions Committee
2015-Present School of Pharmacy Pharmacology and Toxicology Bachelor of Science Program Admissions Committee
2013-2019 School of Veterinary Medicine Mentoring Task Force
2013-Present Carbone Comprehensive Cancer Center Experimental Pathology Advisory Committee
2018 School of Veterinary Medicine Animal Resource Center Veterinary Technician Manager Search Committee
2017 School of Veterinary Medicine Director of Communications and Media Relations Hiring Committee
2017 School of Veterinary Medicine Principal Investigator committee
2017 School of Veterinary Medicine Associate Dean of Research performance review committee
2017 School of Veterinary Medicine Space Committee, 2017
2017-2019 Graduate Program in Clinical Investigation Admissions and Recruiting (Director, 2020-Present)
2016-2018 Comparative Biomedical Sciences Graduate Program Committee
2016-2017 UW-Madison Faculty Senator
2016-2017 Chair, School of Veterinary Medicine Task Force for Digitizing Annual Reviews
2016-2018 School of Veterinary Medicine Academic Planning Committee
2010-2012
2015 Department of Comparative Biosciences Search Committee Tenure Track Assistant Professor
2015 Department of Comparative Biosciences Task Force on Tenure Promotion Policy
2015 School of Veterinary Medicine Lecture Capture Task Force

CURRICULUM VITAE

CHAD M. VEZINA

- 2014 School of Veterinary Medicine Vivarium Space Task Force for New Building Feasibility Study
- 2013 Department of Comparative Biosciences Search Committee Tenure Track Assistant Professor
- 2012-2014 School of Veterinary Medicine Curriculum Committee
- 2009-2012 Molecular and Environmental Toxicology Graduate Activity Committee

HONORS AND AWARDS:

- 2019 University of Wisconsin Madison Vilas Faculty Mid-Career Investigator Award
- 2016 Zoetis Award for Veterinary Research Excellence
- 2014 Manuscript "*In utero* exposure to TCDD alters Wnt signaling during mouse prostate development" voted as the Society of Toxicology Reproductive and Developmental specialty section 4th Best Reproductive/Developmental Toxicology Paper in Toxicological Sciences
- 2012 Young Investigator (of the year) Award, Society for Basic Urologic Research (SBUR)
- 2009 Manuscript "Dioxin causes ventral prostate agenesis by disrupting dorsoventral patterning in developing mouse prostate" selected as NIH/NIEHS division of extramural research and training paper of the month
- 2008 Manuscript "Dioxin causes ventral prostate agenesis by disrupting dorsoventral patterning in developing mouse prostate" selected as finalist for the Society of Toxicology Reproductive and Developmental specialty section Best Reproductive/Developmental Toxicology Paper in *Toxicological Sciences*
- 2002 Society of Toxicology Colgate Palmolive Award for *In Vitro* Toxicology
- 2002 Society of Toxicology Student Travel Award
- 2001, 2003 Buffalo Environmental Sciences Colloquium, Platform Presentation Award
- 2001 Mark Diamond Research Fund Award
- 2000 University at Buffalo Pharmacology and Toxicology Student Organization, President
- 2000 University at Buffalo Environment and Society Graduate Fellow
- 2000 Society of Toxicology (Lake Ontario Chapter) Poster Award

PROFESSIONAL ACTIVITIES:

Society Membership:

Society of Toxicology (SOT)
Society for Basic Urologic Research (SBUR)
American Physiological Society (APS)

National Service:

2018-Present Abstract Review Team Member (BPH Section), American Urological Association Annual Meeting
2018-2021 Society of Basic Urologic Research (SBUR) Finance Committee Member
2018-2021 Faculty Instructor, Workshop on Techniques in Modeling Human Cancer in Mice, The Jackson Laboratory, Bar Harbor MA
2018-2021 Society of Basic Urologic Research (SBUR) Trainee Affairs Committee Member
2019 External Reviewer for faculty promotion, Tufts University School of Medicine
2018 External reviewer for faculty promotion, Harvard Medical School
2018 Course designer, *Keys to an Outstanding Career Development Plan*. E-education course, module 2 of 4 in the course, "Writing a Successful Career Development Award Application," posted in AUA *University* at <https://auau.auanet.org/content/writing-successful-career-development-award-application-2018#group-tabs-node-course-default1>
2016 Session Chair, Epigenetic Considerations for Bladder Dysfunction & Pain Syndromes, American Urological Association (AUA) Summer Research Conference "Targeting Epigenetics and Genome Regulation to Improve Urologic Health," Lithicum, MD
2016 Program Committee, American Urological Association (AUA) Summer Research Conference "Targeting Epigenetics and Genome Regulation to Improve Urologic Health," Lithicum, MD
2015 Session Chair, Cell-Specific Responses to Comorbidities in BPH. SBUR Fall Symposium, Ft. Lauderdale, FL
2015 Session Chair, Discussion Forum: Emerging Model Systems for Research. SBUR Fall Symposium, Ft. Lauderdale, FL
2015 Session Chair, NIDDK Meeting Establishing the Parameters of Void Spot Assays and Cystometrograms for Data Sharing, Baltimore, MD
2015 Planning committee, Society for Basic Urologic Research Fall Meeting
2008 Session Chair, Developmental Toxicology Poster Session, 47th Annual Meeting of the Society of Toxicology, Seattle, WA

EDITORIAL ACTIVITIES:

Editorial boards:

2014-2020 *American Journal of Physiology – Renal, Editorial Board*
2013-Present *American Journal of Clinical and Experimental Urology, Editorial Board*

Peer review activities, journals:

CURRICULUM VITAE

CHAD M. VEZINA

*American Journal of Physiology
Biology
Biology of Reproduction
British Journal of Urology
Cell Biology and Toxicology
Development
Developmental Biology
Developmental Dynamics
Differentiation*

*Histochemica Acta
Life Sciences
Molecular and Cellular Biochemistry
PLOS GENETICS
PLOS ONE
Proceedings of the National Academy of Sciences USA (PNAS)
Stem Cells
The Prostate
Toxicological Sciences
Toxicology and Applied Pharmacology*

Grant review activities:

2019-2022 Chair, NIH/NIDDK DDK-D Subcommittee (Kidney, Urological and Hematological, review of career development awards) (Standing member, 2015-Present)
2016 NIH/NIDDK Special Emphasis Review Panel ZRG1 DKUS-G (90)S
2015-2017 Department of Veterans Affairs Review Panel 10P9B/SURG
2015 NIH/NIDDK Special Emphasis Review Panel ZDK1 GRB-S (O4)
2014 NIH/NIDDK Review Panel UGPP
2014 UW-Madison Institute for Clinical and Translational Research
2014 NIH/NIDDK Special Emphasis Review Panel ZRG1 DKUS-P (80) S
2014 NIH/NIDDK Special Emphasis Review Panel ZDK1 GRB-S (M1)
2012 United Kingdom Medical Research Council (MRC) Molecular & Cellular Medicine Board
2008 U.S. Civilian Research & Development Foundation, Biomedical Research Competition
2002 University at Buffalo Mark Diamond Research Fund

INVITED SEMINAR PRESENTATIONS:

Local:

- 2019 UW-Madison School of Veterinary Medicine Board of Visitors Meeting, "UW-Madison SVM: Leading the way in Urinary Health Research"
- 2019 UW-Madison Congressional Staff Day, "Wisconsin's leadership in urinary health research"
- 2019 UW-Madison School of Pharmacy's Richard E. Peterson Symposium A fantastic voyage to understanding TCDD toxicity and AHR biology, "Applying Peterson's Principles to the Prostate Problem"
- 2019 UW-Madison/UMASS Boston George M. O'Brien Center Symposium on Cellular Functions in Urology, "Tools to identify the cellular source of prostatic collagen"
- 2018 2018, UW-Madison/UMASS Boston George M. O'Brien Center Symposium on Cellular Functions in Urology, "A genetic toolbox to spy on mouse prostate stromal cells in situ"
- 2017 UW-Madison/UMASS Boston George M. O'Brien Center Symposium on Steroid Hormone Pathways and Mechanisms of Action in Benign Urologic Disease, "Pinpointing cellular origins and physiological consequences of prostate fibrosis"
- 2016 University of Wisconsin-Madison School of Veterinary Medicine Fall Research Day, "Using molecular scissors to root out and correct bad behaviors in the prostate"
- 2016 University of Wisconsin-Madison Endocrinology and Reproductive Physiology Annual Symposium "Throwing the whole tackle box at the prostate problem" (Keynote Speaker)
- 2016 UW-Madison/UMASS Boston George M. O'Brien Center Symposium on environmental impact on urologic health and disease. Madison, WI. "Impact of AHR signaling on benign urinary function"
- 2016 University of Wisconsin-Madison Graduate School. "Tenure, A success story," New Faculty Workshop Series session"
- 2015 University of Wisconsin-Madison Waisman Center, "*In situ* hybridization for mechanisms-based research"
- 2015 "University of Wisconsin-Madison Comprehensive Cancer Center Cell Signaling Scientific Program External Program Review. "In Situ Hybridization"
- 2014 University of Wisconsin-Madison Institute for Discovery, Wisconsin Festival of Ideas. "An udder, a bladder, and a hedgehog: connecting the dots to solve a very Wisconsin problem"
- 2014 University of Wisconsin-Madison School of Veterinary Medicine. "Prostate Research in the Vezina Lab: Past, Present, and Future,"
- 2013 University of Wisconsin-Madison Prostate Research Group Seminar Series. "Beta-catenin patterns prostate cell differentiation and ductal morphogenesis"
- 2010 University of Wisconsin-Madison Endocrinology & Reproductive Physiology Graduate Program. "The Role of WNT Signaling in Prostate Development"
- 2010 University of Wisconsin-Madison School of Veterinary Medicine SVM Professional Development Seminar Series, "My (tenure-track) Faculty Job: The first 100 days"
- 2009 University of Wisconsin-Madison Molecular and Environmental Toxicology Center. METC Seminar & Colloquia Series, "TCDD Impairs Mouse Prostate Development by Inhibiting β -Catenin Signaling in the Fetal Urogenital Sinus"
- 2008 James C. Wright Middle School, Madison, WI. "What it is Like to Be a Scientist"
- 2008 University of Wisconsin Pharmaceutical Sciences division, School of Pharmacy, Madison, WI, Pharmaceutical Sciences Seminar Series, "AHR Signaling in Prostate Development"
- 2008 University of Wisconsin Molecular and Environmental Toxicology Center, Madison, WI, NIEHS Training Grant Symposium, "How I've Guided My Post-Doc for a Career in

Academia”

National:

- 2023 Columbia University George M. O'Brien Center Annual Symposium, "A starring role for the urethra in response to ascending *E. coli* infection"
- 2022 Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Annual Meeting, Tracing the cell lineage responsible for prostate fibrosis.
- 2022 The University of Illinois Urbana Champaign Toxicology Graduate Program Seminar Series 'An environmental basis for benign prostatic disease'
- 2022 Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Advancing the Research Capacity of Trainees and Investigators at Early Career Stages (ARCTICS) Community Forum, "How to write an Effective CV and Biosketch", Panelist
- 2022 The Mayo Clinic of Rochester Nephrology Summer Undergraduate Research Program, Rochester, MN, "The lower urinary tract needs creative problem solvers"
- 2022 NIH/NIDDK BPH and Male LUTS: Intersection between Pathology and Disease, "Linking Prostate Development to BPH / LUTD"
- 2021 Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Annual Meeting, virtual, "Beyond alpha blockers and 5ARIs: Leveraging mice to develop the next generation of therapies for benign prostatic disease"
- 2021 Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Trainees Meeting, virtual, "Maximizing opportunity: The Scientific Pitch"
- 2021 NIH/NIDDK GUDMAP Jamboree, "Defining Prostate Composition and Cell Lineages"
- 2021 NIH/NIDDK Advancing the Research Capacity of Trainees and Investigators at Early Career Stages (ARCTICS) forum, "Running down the dream"
- 2021 The Mayo Clinic of Rochester Nephrology Summer Undergraduate Research Program, Rochester, MN, "A Surprisingly Early Start for An Aging-Related Urologic Disease"
- 2021 Washington University, St. Louis, MO, The 3rd Annual CRePHS Symposium, virtual, "A Surprisingly Early Start for An Aging-Related Disease"
- 2020 Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU), virtual, "Segregating urinary phenome responses to microbes and other factors – new opportunities"
- 2020 Society of Basic Urologic Research (SBUR) Fall Meeting, virtual. "Mouse Models of Prostatic Collagen Accumulation"
- 2020 Department of Pharmacology and Toxicology, Buffalo, NY, "Urinary health in aging men: New mechanisms and opportunities" (cancelled due to COVID).
- 2020 The Mayo Clinic of Rochester Nephrology Summer Undergraduate Research Program, Rochester, MN, "In search of superheros to address lower urinary tract dysfunction"
- 2019 Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU), Kansas City, MO, "Overview of Cell Types in the Prostate"
- 2019 The Mayo Clinic of Rochester Nephrology Summer Undergraduate Research Program, Rochester, MN, "Benign prostate disease: what it is and why you should care"
- 2019 The University of Pittsburgh O'Brien Benign Urology Research Symposium, Pittsburgh, PA, "To Protect and Serve: a new paradigm for an old prostate cell"
- 2019 The American Urological Society Basic Sciences Research Day: Social (and Antisocial) Cell Signaling Networks in the Urinary Tract, Chicago, IL, "Cell Types of Development, Homeostasis, and Disease in the Urogenital Tract"
- 2019 University of Florida Department of Physiological Sciences, Gainesville, FL, "The mouse as a preclinical model for urology: mechanisms of prostate- and lower urinary tract-symptoms (LUTS)"

- 2018 Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU), Ellicott City, MD, "Chasing down the cellular origin of prostatic collagen production"
- 2018 The Mayo Clinic of Rochester Department of Urology Grand Rounds, Rochester, MN, "Using the mouse as a preclinical model for Urology: mechanisms of prostate- and lower urinary tract symptoms (LUTS)"
- 2018 Society for Basic Urologic Research (SBUR) Fall Symposium Trainee Workshop, Palm Springs, CA, "Formulating a career development plan to maximize training productivity"
- 2018 Jackson Laboratories Workshop on Techniques in Modeling Human Cancer in Mice, Bar Harbor, ME, "Prostate Cancer: Clinical Problems, Research Resources and Opportunities"
- 2018 UMASS-Boston, Boston, MA, "Connecting Cellular Behaviors to Prostatic Disease"
- 2018 The Mayo Clinic of Rochester Nephrology Summer Undergraduate Research Program, Rochester, MN, "Benign prostate disease: what it is and why you should care"
- 2017 American Society for Investigative Pathology/American College of Veterinary Pathologists Symposium at the Experimental Biology Annual Meeting, "Linking DNA methylation to androgen signaling and prostate proliferative growth"
- 2017 Columbia University, Dept. Urology Grand Rounds, New York, NY. "Urinary complications of benign prostatic disease: impact of fetal and neonatal environment," April 2017
- 2016 NIH/NIDDK O'Brien Urology Director's Meeting, Pacific Grove, CA, "Beta-catenin and urinary function"
- 2016 American Urological Association (AUA) Summer Research Conference, Lithicum, MD. "DNA methylation and prostate and lower urinary tract development." July 2016
- 2016 NIH/NIDDK O'Brien Urology Centers EEP Meeting, Bethesda, MD "Beta-catenin and urinary function"
- 2016 Harvard University / Boston Children's Hospital, Boston, MA. "The aryl hydrocarbon receptor pathway: a conduit for environmental impact on prostate development and urinary function"
- 2015 Cold Spring Harbor Laboratories, Mouse Development, Stem Cells & Cancer Course, Cold Spring Harbor, NY. "The developing prostate: a window to understanding a costly benign disease"
- 2015 Society for Basic Urologic Research (SBUR) Fall Symposium, Ft. Lauderdale, FL. "The influence of intermittent hypoxia and diabetes on lower urinary tract function"
- 2015 Columbia University, Symposium on the genetic origins and complications of urinary tract abnormalities, New York, NY. "A role for DNA methylation in prostate development and urinary function"
- 2015 NIH/NIDDK Urology Developmental Centers Meeting, Madison, WI. "Roles of beta-catenin in urinary dysfunction"
- 2015 NIH/NIDDK O'Brien Urology Centers EEP Meeting, Bethesda, MD, "Beta-catenin and urinary function"
- 2015 University of Chicago, Chicago IL. "Mapping the Developing Mouse Prostate to Reveal New Ductal Growth Mechanisms: A Focus on DNA Methylation"
- 2014 NIH/NIDDK Urology Developmental Centers Meeting, Pacific Grove, CA. "Developmental Mapping of the Prostate"
- 2014 Vanderbilt Center for Benign Urologic Diseases, Nashville, TN. "Emerging players in urinary dysfunction: epigenetics and sleep apnea"
- 2013 Society for Basic Urologic Research (SBUR) Spring Meeting, San Diego, CA. "Use of the Developing Prostate and Gene Expression Pattern Matching to Identify Prostate Proliferative Mechanisms"
- 2013 NIH/NIDDK Urologic Complications of Diabetes Meeting: Developing a Basic Research Agenda, Bethesda, MD. "The GUDMAP Database: a Resource for Urologic Research"

- 2012 University of Michigan P20 Urology Planning Center Seminar, Ann Arbor, MI. "From Candidate Genes to Molecular Mechanism: the GUDMAP Database as a Tool for Prostate Research"
- 2011 NIH/NIDDK Director's Meeting, Ellicott City, MD. "Leveraging the GUDMAP Database for Prostate Development and Disease Research"
- 2010 University of Wisconsin-La Crosse Institute for Bimolecular Sciences, La Crosse, WI. Biology Seminar Series, "The Developing Mouse Prostate: A Model for Understanding Prostate Disease"
- 2009 American Urological Association National Meeting, Chicago, IL, AUA Research Forum Showcase for Young Investigators, "The Role of Beta-Catenin in Invasive Growth during Prostate Development"
- 2009 Biology Department, St. Olaf College, Northfield, MN, Biology Seminar Series, "Prostate Developmental Biology: A Model for Understanding Prostate Disease"
- 2009 Department of Pharmacology and Toxicology, University at Buffalo, Buffalo, NY. Pharmacology and Toxicology Seminar Series, "AHR Signaling in Prostate Development"

International:

- 2009 Horiba International Conference/ CDBIM Symposium, 21st Century Advances in the Molecular Toxicology of Environmental Chemicals and Pathogenesis of Disease, Tokyo, Japan, "Disruption of prostatic bud formation by TCDD is mediated by down-regulation of β -catenin signaling"

PUBLICATIONS:

Complete List of Published Work:

<http://www.ncbi.nlm.nih.gov/myncbi/chad.vezina.1/bibliography/40440207/public/?sort=date&direction=ascending>

Refereed Papers:

113. 2023. Wang Z, Spitz R, Vezina CM, Hou Jianghui, Bjorling DE. Lack of Expression of miR-29a/b1 Impairs Bladder Function in Male Mice. **Dis Model Mech**. In Press.
112. 2023. Popovics P, Skalitzky KO, Schroeder E, Jain A, Silver SV, Van Fritz F, Uchtman KS, Vezina CM, Ricke WA. Steroid hormone imbalance drives macrophage infiltration and *Spp1*/osteopontin⁺ foam cell differentiation in the prostate. **J Pathol**. 2023 260:177-189.
111. 2023. Ruetten H, Sandhu SK, Fox O, Zhu J, Sandhu JK, Vezina CM. [The impact of short term, long term and intermittent *E. coli* infection on male C57BL/6J mouse prostate histology and urinary physiology](#). **Amer J Clin Exp Urol** 11: 59-68.
110. 2022. Osman Atli M, Mehta V, Vezina CM, Wiltbank MC. [Expression patterns of chemokine \(C-C motif\) ligand 2, prostaglandin F2A receptor and immediate early genes at mRNA level in the bovine corpus luteum after intrauterine treatment with a low dose of prostaglandin F2A](#). **Theriogenol** 189: 70-76.
109. 2022. Peterson NT, Vezina CM. [Male lower urinary tract dysfunction: an overlooked endpoint in toxicology research](#). **Toxics**10: 89.
108. 2022. Sheftel C, Sartori L, Hunt E, Manuel R, Bell A, Domingues R, Wake L, Scharpf B, Vezina C, Hernandez L. [Peripartur treatment with low dose sertraline accelerates mammary gland involution and has minimal effects on maternal and offspring bone](#). **Physiol Rep** 10: e15204.
107. 2022. Sheftel CM, Liu L, Field SL, Weaver SR, Vezina CM, Penagaricano F, Hernandez LL. [Impact of fluoxetine treatment and folic acid supplementation on the mammary gland transcriptome during peak lactation](#). **Front Pharmacol** 13: 828735.

106. 2022. Ruetten H, Vezina CM. Relevance of dog as an animal model for urologic diseases. Ruetten H, Vezina CM. **Prog Mol Biol Transl Sci** 2022;189:35-65. PMID: 35595352.
105. 2021. Popovics P, Jain A, Skalizky KO, Schroeder E, Ruetten H, Cadena M, Uchtmann KS, Vezina CM, Ricke WA. [Osteopontin deficiency leads to the resolution of prostatic fibrosis and inflammation](#). **Int J Mol Sci.** 22:12461.
104. 2021. Ruetten HM, Wehber M, Murphy M, Cole C, Sandhu S, Oakes R, Bjorling DE, Waller K, Viviano K, Vezina CM. A Retrospective Medical Record Review of Dogs with Benign Prostatic Hyperplasia ± Concurrent Urinary Tract Bacterial Infection: 37 Cases (2014-2018). **Clin Theriogenol.** 13: 360-366.
103. 2021. Joseph DB, Henry GH, Malewska A, Reese JC, Mauk RJ, Gahan JC, Hutchinson RC, Roehrborn CG, Vezina CM, Strand DW. Single cell analysis of mouse and human prostate reveals novel fibroblasts with specialized distribution and microenvironment interactions. **J Pathol.** 255:141-154.
102. 2021. Turco AE, Oakes SR, Keil Stietz KP, Dunham CL, Joseph DB, Chathurvedula TS, Girardi NM, Schneider AJ, Gawdzik J, Sheftel CM, Wang P, Wang Z, Bjorling DE, Ricke WA, Tang W, Hernandez LL, Keast JR, Bonev AD, Grimes MD, Strand DW, Tykocki N, Tanguay RL, Peterson RE, Vezina CM. A new mechanism linking fetal chemical exposure to lower urinary tract dysfunction in adulthood. **Dis Model Mech.** 14: dmm049068.
101. Ruetten H, Henry G, Liu T, Spratt H, Ricke WA, Strand DW, Vezina CM. [A NEW Approach for Characterizing Mouse Urinary Pathophysiologies](#). **Physiol Rep.** 9(15):e14964.
- Editorial in Physiol Reports: <https://www.sciencedirect.com/science/article/pii/S002253471843902X?via%3Dihub#>
100. 2021. Abler LL, O'Driscoll CA, Colopy SA, Keil Stietz KP, Wang P, Wang Z, Hartmann F, Crader-Smith SM, Oellete JN, Mass L, Mehta V, Oakes S, Grims MD, Mitchell GS, Wathen B, Davis DB, Baan M, Kimple ME, Gallagher SJ, Bjorling DE, Watters JJ, Vezina CM. Influence of intermittent hypoxia, obesity and diabetes on male genitourinary anatomy and voiding physiology. **Amer J Physiol Renal Physiol** 321(1):F82-F92
99. 2021. Kyle A. Wegner, Hannah Ruetten, Nicholas M. Girardi, Chelsea A. O'Driscoll, Jaskiran K. Sandhu, Anne E. Turco, Lisa L. Abler, Peiqing Wang, Zunyi Wang, Dale E. Bjorling, Rita Malinowski, Richard E. Peterson, Douglas W. Strand, Paul C. Marker, Chad M. Vezina. Genetic Background Influences Susceptibility of Male Mice to Testosterone and Estradiol-Induced Urinary Dysfunction. **Amer J Clin Exp Urol.** 9:121-131.
98. 2021. Thomas S, Dunn CD, Campbell LJ, Strand DW, Vezina CM, Bjorling DE, Penniston K, Li L, Ricke WA, Goldberg TL. [JC virus and male lower urinary tract symptoms: a multi-omic approach](#). **PLOS One.** 16(2): e0246266.
97. 2021. Joseph DB, Turco AE, Vezina CM, Strand DW. Progenitors in prostate development and disease. **Dev Biol.** 3: 50-58.
96. 2021. Ruetten H, Sanhu J, Mueller B, Wang P, Zhang HL, Wegner KA, Cadena M, Sandhu S, Abler LL, Zhu J, O'Driscoll CA, Chelgren B, Wang Z, Shen T, Barash J, Bjorling DE, Vezina CM. A Uropathogenic E. coli UTI189 model of prostatic inflammation and collagen accumulation for use in studying aberrant collagen production in the prostate. **Am J Physiol Renal Physiol.** 320(1): F31-F46.
95. 2020. Ruetten H, Cole C, Wehber M, Wegner KA, Girardi NM, Peterson NT, Scharpf BR, Romero MF, Wood MW, Colopy SA, Bjorling DE, Vezina CM. [An immunohistochemical prostate cell type identification key demonstrates that aging shifts procollagen 1A1 production from myofibroblasts to fibroblasts in dogs prone to prostate-related urinary dysfunction](#). **PLOS One.** 15: e0232564.
- Selected feature in Prostate Cell News, [Vol. 11.28 - 31 July, 2020](#).
94. 2020. Joseph DB, Henry GH, Malewska A, Iqbal NS, Ruetten HM, Turco AE, Abler LL, Sandhu SK, Cadena MT, Malladi VS, Reese JC, Mauck RJ, Gahan JC, Hutchinson RC, Roehrborn CG, Baker LA, Vezina CM, Strand DW. Urethral luminal epithelia are castration-insensitive cells of the proximal prostate. **Prostate.** 80:872-884.
- Selected feature in Prostate Cell News, [Vol. 11.20 June 5, 2020](#).
93. 2020. Kothandapani A, Lewis SR, Muszynski JL, Zacharski A, Krellwitz K, Baines A, Winske S, Vezina CM, Kaftanovskaya EM, Agoulnik A, Mertin EM, Cohn MJ, Jorgensen JS. [GLI3 resides at the](#)

- [intersection 1 of hedgehog and androgen action to promote male sex differentiation](#) *PLoS Genet.* 16: e1008810.
92. 2020. Popovics P, Awadallah WN, Kohrt S, Case TC, Miller NL, Ricke E, Huang W, Ramirez-Solano M, Liu Q, Vezina CM, Matusik RJ, Ricke WA, Grabowska MM. Prostatic osteopontin expression is associated with symptomatic benign prostatic hyperplasia. *Prostate.* 80: 731-741.
91. 2020. Thomas S, Hao L, DeLaney K, McLean D, Steinke L, Marker PC, Vezina CM, Li L, Ricke W. Spatiotemporal proteomics reveals the molecular consequences of hormone treatment in a mouse model of lower urinary tract dysfunction. *J Proteome Res.* 19: 1375-1382.
90. 2020. Zwaans BMM, Wegner KA, Bartolone SN, Vezina CM, Chancellor MB, Lamb LE. 2019. [Radiation cystitis modeling: a comparative study of bladder fibrosis radio-sensitivity in different mouse strains.](#) *Physiol Rep* 8:14377.
89. 2020. Maguire M, Vezina CM, Quadro L, Kim Y-K, Campaigne Larsen M, Jefcoate CR. [Cyp1b1 directs Srebp-mediated cholesterol and retinoid synthesis in perinatal liver; Association with retinoic acid activity during fetal development.](#) *Plos One* 5: e0228436.
88. 2020. Turco AE, Thomas S, Peterson RE, Li L, Ricke WA, Vezina CM. In utero and lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure causes lasting changes to prostatic inflammatory, muscle, antioxidant, and collagen proteins in control mice and in mice susceptible to prostate-related urinary dysfunction. *Amer J Clin Exp Urol.* 8: 59-72.
87. 2020. Wua H, Liua B, Yanga K, Winston-McPherson G, Leistena ED, Vezina CM, Ricke WA, Peterson RE, Tang W. [Synthesis and Biological Evaluation of FICZ Analogues as Agonists of Aryl Hydrocarbon Receptor.](#) *Bioorg Med Chem Lett* 30: 126959.
86. 2020. Ruetten H, Wegner KA, Kennedy CL, Turco A, Zhang HL, Wang P, Sandhu J, Morkrid J, Wang Z, Macoska J, Peterson RE, Bjorling DE, Ricke WA, Marker PC, Vezina CM. [Impact of Sex, Androgens, and Prostate Size on C57BL/6J Mouse Urinary Physiology: Urethral Histology.](#) *Amer J Physiol-Renal* 318: F617-F627.
85. 2020. Hughes J, Alkhunaizi E, Kruszka P, Pyle L, Grange D, Berger SI, Payne K, Masser-Frye K, Hu T, Christie M, Clegg N, Everson JL, Martinez AF, Walsh L, Jones M, Riedhammer K, Lipinski RJ, Vezina CM, Muenke M, Chitaya D. [Loss of Function Variants in PPP1R12A Cause Holoprosencephaly Spectrum and Urogenital Malformations.](#) *Amer J Hum Genet* 106:121-128.
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144. 2021. Skalitzky K, Schroeder E, Vezina CM, Ricke WA, Popovics P. Loss of osteopontin function attenuates immune cell infiltration and collagen accumulation in a steroid hormone-induced lower urinary tract dysfunction model. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting Virtual.
143. 2021. Sandhu JK, Ruetten H, Scharpf B, Vezina CM. Identification of Collagen Producing Cell Lineages in the Inflamed Prostate. Duke Multidisciplinary Benign Urology Research Symposium, April 29-30 (virtual).
142. 2021. Scharpf BR, Ruetten HM, Fox OR, Strand DW, Vezina CM. The role of CTGF in the development of lower urinary tract dysfunction (LUTD). Duke Multidisciplinary Benign Urology Research Symposium, April 29-30 (virtual).
141. 2021. Popovics P, Jain A, SKalitzky KO, Schroeder E, Ruetten H, Cadena M, Vezina CM, Ricke R. Loss of osteopontin leads to the resolution of *E. coli*-induced prostatic inflammation and fibrosis. Duke Multidisciplinary Benign Urology Research Symposium, April 29-30 (virtual).
140. 2021. Popovics P, Jain A, Van F, Ruetten H, Cadena M, Uchtmann KS, Vezina CM, Ricke WA. Loss of Osteopontin Leads to the Resolution of *E. coli*-induced Prostatic Inflammation and Fibrosis. American Urological Association Annual Meeting, Las Vegas, NV
139. 2020. Ulschmid C, MR Sun, AC Steward, K Rivera-Gonzalez, AA Martin, M Barnes, L Wicklund, D Joseph, CM Vezina, RJ Lipinski. DNA methyltransferase disruption in the cranial neural crest causes cleft lip and palate in the mouse. 79th Annual Society for Developmental Biology Annual Meeting (virtual).
138. 2020. Grimes MD, Vezina CM, Huang W. Decreased CD44 expression is associated with increased hyaluronic acid abundance in human lichen sclerosus. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting Virtual.
137. 2020. Anaam D, Holmes HL, Gregory AV, Thao K, Stiller A, Romero PZ, Vezina C, Harris PC, Kline TL, Romero MF. Pathobiology of cyst progression in *Nbce1A* and *Pkd1(RC/RC)* mouse models American Society of Nephrology Annual Meeting.
136. 2020. Joseph DB, Henry GH, Malewska A, Wegner KA, Macuk R, Gahan J, Hutchinson R, Roehrborn C, Vezina CM, Strand DW. "Identification of Cognate Proximal Cell Types of the Mouse and Human Prostate and their Enrichment in Human Benign Prostatic Hyperplasia." American Urological Association Annual Meeting.
135. 2020. Popovics P, Awadallah WN, Kohrt SE, Case TC, Miller NL, Ricke EA, Huang W, Ramirz-Solano M, Liu Q, Vezina CM, Matusik RJ, Ricke WA, Grabowska MM (2019). "Prostatic osteopontin expression is associated with symptomatic benign prostatic hyperplasia" Duke University School of Medicine Multidisciplinary Benign Urology Research Day 2020, Virtual Meeting, April 24.
134. 2020. Garvey DR, Uchtmann KS, Peterson RE, Vezina CM, Ricke WA (2020). "Stromal Estrogen Receptor-alpha is Involved in the Development of Lower Urinary Tract Dysfunction." Duke University School of Medicine Multidisciplinary Benign Urology Research Day 2020, Virtual Meeting, April 24.
133. 2020. Ruetten HM, Cole C, Wehber M, Wegner K, Girardi N, Peterson NT, Scharpf B, Romero M, Wood M, Colopy S, Bjorling D, Vezina C. An immunohistochemical prostate cell identification key indicates that aging shifts procollagen 1A1 production from myofibroblasts to fibroblasts in dogs prone to prostate-related urinary dysfunction (Poster Presentation). Veterinary Summer Scholars Symposium.
132. 2020. Ruetten HM, Cole C, Wehber M, Wegner K, Girardi N, Peterson NT, Scharpf B, Romero M, Wood M, Colopy S, Bjorling D, Vezina C. An immunohistochemical prostate cell identification key indicates that aging shifts procollagen 1A1 production from myofibroblasts to fibroblasts in dogs prone to prostate-related urinary dysfunction (1-min Flash Talk). Duke KURe Multidisciplinary Benign Urology Virtual Research Day (Virtual).

131. 2020. Ruetten H, Henry G, Strand D, Vezina C. A Phenome-Based Approach for Characterizing Mouse Urinary Pathophysiology. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting Virtual.
130. 2020. Turco AE, Oakes SR, Keil-Stietz K, Chathurvedula T, Girardi N, Schneider AJ, Gawdzik J, Sheffel C, Wang P, Wang Z, Bjorling DE, Ricke WA, Tang W, Hernandez L, KEast JR, Bonev A, Tykocki N, Tanguay RL, Peterson RE, Vezina CM. A neuroanatomical mechanism linking perinatal chemical exposure to prostate smooth muscle hyperactivity and altered voiding function. Society for Basic Urologic Research Annual Meeting (Virtual).
129. 2020. Turco AE, Oakes SR, Popovics P, Rogers A, Sheffel C, Cadena M, Peterson RE, Hernandez L, Hacker T, Bjorling DE, Bonev A, Tykocki N, Vezina CM. Testosterone and estradiol mediate male voiding dysfunction by reducing prostatic smooth muscle Ppp112b abundance and impairing muscle. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Annual Meeting (Virtual).
128. 2020. Turco AE, Oakes SR, Chaturevedula T, Keil KP, Girard N, Hernandez HH, Peterson RE, Bonev A, Tykocki N, Vezina CM. IUL TCDD increases noradrenergic axon density and nerve-evoked smooth muscle contraction in mouse prostate. The 59th Annual Meeting of the Society of Toxicology, Anaheim, CA.
127. 2019. Turco AE, Wegner KA, Rogers A, Peterson RO, Ricke WA, Hacker T, Vezina CM. *In utero* and lactational (IUL) TCDD exposure impedes urethral urinary flow in male mice. The 58th Annual Meeting of the Society of Toxicology, Baltimore, MD.
126. 2019. Zwaans BMM, Wegner KA, Bartolone SN, Chancellor MB, Vezina CM, Lamb LE. Radiation cystitis modeling: a comparative study of bladder radiation-induced fibrosis in different mouse strains. American Urological Association annual meeting, Chicago, IL.
125. 2019. Zwaans BMM, Wegner KA, Bartolone SN, Chancellor MB, Vezina CM, Lamb LE. Radiation Cystitis Modeling: a Comparative Study of Bladder Radiation-Induced Fibrosis in Different Mouse Strains. Experimental Biology, Orlando FL.
124. 2019. Romero PZ, Holmes HL, Cadena M, Gibbons SJ, Farrugia G, Vezina CM, Romero MF. NBCe1 in the Kidney and Lower Urogenital Tract. Experimental Biology, Orlando FL.
123. 2019. Henry GH, Malewska A, Joseph DB, VEnkat SM, Lee J, Torrealba J, Mauck RJ, Gahan JC, Raj GV, Roehrborn CG, Hon GC, MacComara MP, Reese JC, Hutchinson RC, Vezina CM, Strand DW. A cellular anatomy of the normal adult human prostate and prostatic urethra. American Urological Association Annual Meeting, Chicago IL.
122. 2019. Kothandapani A, Lewis R, Muszynski JL, Krellwitz K, Zacharski A, Wegner K, Vezina CM, Kaftanovskaya EM, Aguilnik A, Jorgensen JS. Prenatal DHT administration alters collagen organization in the cranial suspensory ligaments in embryonic Gli3XtJ mutant male mice. American Society of Andrology Testes workshop, Chicago, IL.
121. 2019. Ruetten H, Wehber M, Cole C, Cadena M, Wegner KA, Romero MF, Wood MW, Colopy SA, Bjorling DE, Vezina CM. Fibroblasts accumulate and produce collagen in dogs prone to prostate related urinary dysfunction. Society for Basic Urologic Research Fall Symposium, New Orleans, LA.
120. 2019. Ruetten H, Cole C, Wehber M, Sandhu S, Oakes SR, Waller K, Vezina CM, Viviano K. A Retrospective Medical Record Review of Benign Prostatic Hyperplasia in a Well-Defined Population of Client-Owned Dogs: Clinical Presentation, Prevalence of Concurrent Bacterial Infection, and Response to Treatment. Society for Basic Urologic Research Fall Symposium, New Orleans, LA.
119. 2019. Cadena M, Zhu K, Wang P, Underriner C, Tykocki N, Shen T, Barasch J, Romero M, Vezina CM. Prostate Neuroendocrine Cell Serotonin Aids to Prevent Microbial Infection. Society for Basic Urologic Research Fall Symposium, New Orleans, LA.
118. 2019. Turco AE, Oakes SR, Rodgers A, Underriner C, Cadena M, Peterson RE, Hernandez LL, Haker T, Tykocki N, Vezina CM. Exogenous testosterone and estradiol prolong prostate smooth muscle relaxation via downregulation of MYPT2: a novel utility for genetically encoded calcium receptors. Society for Basic Urologic Research Fall Symposium, New Orleans, LA.

117. 2019. Joseph DB, Henry G, Malewska A, Wegner K, Roehrborn C, Reese J, Hutchinson R, Vezina CM, Strand D. Identification of cognate proximal cell types of the mouse and human prostate and their enrichment in human Benign Prostatic Hyperplasia. Society for Basic Urologic Research Fall Symposium, New Orleans, LA.
116. 2019. Zwaans BMM, Wegner KA, Bartolone SN, Vezina CM, Chancellor MB, Lamb LE. Radiation cystitis modeling: a comparative study of radiation induced bladder fibrosis in different mouse strains. Society for Basic Urologic Research Fall Symposium, New Orleans, LA.
115. 2018. Wegner K, Turco A, Wang Peiqing, Bjorling DE, Peterson RE, Vezina CM. In utero and lactational (IUL) TCDD exposure causes lower urinary dysfunction in adult male C57BL/6J. The 57th Annual Meeting of the Society of Toxicology, San Antonio, TX.
114. 2018. Turco AE, Wegner KA, Peterson RE, Keast JR, Vezina CM. In Utero and Lactational (IUL) TCDD Exposure Alters Axon Density in the Developing and Adult Mouse Prostate. The 57th Annual Meeting of the Society of Toxicology, San Antonio, TX.
113. 2018. Ruetten H, Wegner K, Colopy S, Zhang H, Sandu S, Romero M, Vezina C. Impact of age and castration on canine prostate collagen organization. Annual Meeting of the Society of Theriogenology, Milwaukee, WI.
112. 2018. Romero PZ, Holmes HL, Cadena M, Vezina CM, Romero MF. Nbc1 in the kidney and lower urogenital tract. NIDDK KUH Summer Undergraduate Research Conference, Boston, MA.
111. 2018. GUDMAP: GenitoUrinary Development Molecular Anatomy Project. Cohn MJ, Dhir R, Kesselman C, Keast J, Li S, McMahon AP, Mendelsohn C, Southard-Smith M, Strand D, Vezina CM. International Model Genome Conference, Rio Mar, Puerto Rico.
110. 2018. Ruetten H, Zhang HL, Wegner KA, Wang P, Wang Z, Bjorling DE, Ricke WA, Marker PC, Vezina CM. American College of Veterinary Pathology Annual Meeting, Washington, DC.
109. 2018. Ruetten H, Zhang HL, Wegner KA, Wang P, Wang Z, Bjorling DE, Ricke WA, Marker PC, Vezina CM. Society for Basic Urologic Research Fall Symposium, Rancho Mirage, CA.
108. 2018. Unterberger CJ, Wegner KA, Malinowski RL, Vezina CM, Swanson SM, Marker PC. Society for Basic Urologic Research Fall Symposium, Rancho Mirage, CA.
107. 2018. Wegner KA, Guo J, McMahon JA, McMahon AP, Vezina CM. Characterization of *Srd5a2^{creErt2}* Expression in the Mouse Prostate: A Potential Source of Stromal Progenitors. Society for Basic Urologic Research Fall Symposium, Rancho Mirage, CA.
106. 2018. Joseph DB, Chandrashekar AS, Abler LL, Chu L-F, Thomson JA, Vezina CM. Epithelial *Dnmt1* regulates prostate bud formation and differentiation by maintaining survival of early prostate progenitors. Society for Basic Urologic Research Fall Symposium, Rancho Mirage, CA.
105. 2018. Sandhu S, Joseph DB, Strand DW, Vezina CM. Immunohistochemical comparison of novel epithelial and stromal cell types in the Human and Mouse prostate. Society for Basic Urologic Research Fall Symposium, Rancho Mirage, CA.
104. 2018. Cadena MT, Turco AE, Romero PZ, Holmes HL, Romero MF, Tykocki N, Vezina CM. Mouse prostatic neuroendocrine cells mediate smooth muscle contraction. Society for Basic Urologic Research Fall Symposium, Rancho Mirage, CA.
103. 2018. Romero PZ, Holmes HL, Cadena M, Gibbons SJ, Farrugia G, Vezina CM, Romero MF. NBCe1 in the Kidney and Lower Urogenital Tract. American Society of Nephrology Kidney Week, San Diego, CA.
102. 2018. O'Driscoll CA, Wegner KA, Ruetten HM, Abler LL, Oakes SR, Bjorling DE, Ricke WA, Macoska J, Marker PC, Vezina CM. Exogenous Hormone Exposure: A potential platform for testing interventional therapies for lower urinary tract dysfunction in male mice. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD.
101. 2018. Romero PZ, Holmes HL, Cadena M, Vezina CM, Romero MF. NBCe1 in the kidney and lower urogenital tract. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD.

100. 2018. Ruetten H, Wegner KA, Colopy S, Zhang H, Sandhu S, Romero MF, Vezina CM. Impact of age and castration on canine prostate collagen organization. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD.
99. 2018. Henry GH, Malewska A, Joseph DB, Malladi VS, Lee J, Torrealba J, Mauck RJ, Gahan JC, Raj GV, Roehrborn CG, Hon GC, MacConmar MP, Reese JC, Hutchinson RC, Vezina CM, Strand DW. Building a comprehensive cellular anatomy of the normal and diseased human prostate. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD.
98. 2018. Thomas S, Hao L, Greer T, Vezina CM, Bajpai S, Ashok A, Bieberich C, Ricke WA, Li L. The urine proteomes of genetically-induced lower urinary tract dysfunction (LUTD) mice. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD.
97. 2018. Wegner KA, Guo J, McMAhon JA, McMahon AP, Vezina CM. Characterization of Srd5a2creERT2 expression in the mouse prostate: a potential source of stromal progenitors. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD.
96. 2018. Ruetten H, Zhang HL, Wegner KA, Wang P, Bjorling DE, Ricke WA, Marker PC, Vezina CM. Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Meeting, Ellicott City, MD.
95. 2017. Wynder JL, Nicholson TM, Lamarre N, Waldman A, vom Saal F, Vezina CM, Bjorling DE, Ricke WA. The Environmental Estrogen, Bisphenol-A, Induces Lower Urinary Tract Dysfunction in Adult Male Mice. The 56th Annual Meeting of the Society of Toxicology, Baltimore, MD.
94. 2017. Muszynski JL, Lewis SR, Baines AE, Winske SL, Vezina CM, Kaftanovskaya EM, Agoulnik A, Cohn MJ, Jorgensen JS. Fewer and dysfunctional fetal leydig cells produce less testosterone and cause delayed testis descent and abnormal external genitalia in *Gli3^{XtJ}* mutant mice. The XXIV North American Testes Workshop, Miami, FL.
93. 2017. Weaver S, Vezina CM, Hernandez LL. Fluoxetine and Folic Acid Interact in the Lactating Mammary Gland to Dictate Calcium Homeostasis. Endocrine Society Annual Meeting, Orlando, FL.
92. 2017. Binoy Joseph D, Chandrashekar A, Vezina CM. Using multi-color Confetti reporters to study prostate cell fate. Wisconsin Alumni Research Foundation Discovery Challenge, Madison, WI.
91. 2017. Wegner KA, Guo J, McMahon JA, Maeda N, Wang P, Bjorling DE, Marker PC, McMahon AP, Vezina CM. Pro-fibrotic signaling in prostate stroma increases prostate collagen fiber density and disrupts normal urinary function in male mice. Society for Basic Urologic Research Fall Symposium, Tampa FA.
90. 2017. Binoy Joseph D, Chandrashekar A, Abler LL, Vezina CM. Chandrashekar A, Vezina CM. Endodermal Dnmt1 maintains an endoderm-mesoderm junction in the developing urogenital tract. Society for Basic Urologic Research Fall Symposium, Tampa FL.
89. 2017. Turco AE, Cadena MT, Zhang H, Peterson RE, Keast JR, Vezina CM. A Temporal and Spatial Map of Nerve axons in developing mouse prostate. Society for Basic Urologic Research Fall Symposium, Tampa FA.
88. 2017. Cadena MT, Gottschalk AG, Joseph DB, Southard-Smith M, Vezina CM. Origin and Function of Prostate Neuroendocrine Cells. Society for Basic Urologic Research Fall Symposium, Tampa FL.
87. 2017. Ruetten H, Wegner KA, Joseph DB, Colopy S, Sullivan RA, Vezina CM. Collagen architecture of the canine and murine prostate: the impact of age and androgen deprivation. Society for Basic Urologic Research Fall Symposium, Tampa FL.
86. 2016. University of Wisconsin-Madison, Madison, WI, USA. Weaver SR, Vezina CM, Hernandez LL. Use of Selective Serotonin Reuptake Inhibitors promotes bone resorption during lactation. Endocrine Society Annual Meeting, Boston, MA.
 - Selected by the Advocacy and Public Outreach Core Committee of the Endocrine Society to receive special media attention in the annual Research Summaries Book (RSB).

85. 2016. Joseph DB, Keil KP, Abler LL, Vezina CM. A map of DNA methyltransferase enzyme expression in the mouse prostate during its development and in response to prostate injury. WARF discovery challenge symposium, Madison, WI.
84. 2016. Joseph DB, Keil KP, Abler LL, Vezina CM. A map of DNA methyltransferase enzyme expression in the mouse prostate during its development and in response to prostate injury. 2nd Annual George M. O'Brien Benign Urology Symposium, the Environmental Impact on Urologic Health and Disease, Madison, WI.
83. 2016. Cadena M, Wegner KA, Bushman W, Ricke WA, Vezina CM. Elucidating Patterns of Smooth Muscle Contractility in Prostatic Urethral Tissue. 2nd Annual George M. O'Brien Benign Urology Symposium, the Environmental Impact on Urologic Health and Disease, Madison, WI.
82. 2016. Oakes SR, Eliceiri K, Abler LL, Wagner KA, Vezina CM. Computer-Based High-Throughput Urinary Function Analysis. 2nd Annual George M. O'Brien Benign Urology Symposium, the Environmental Impact on Urologic Health and Disease, Madison, WI.
81. 2016. Optimization of whole-tissue immunohistochemical staining and fluorescence confocal scanning for 3-D prostatic microenvironmental analysis. Trevena R, Sullivan R, Wegner KA, Vezina CM, Vokoun C, Eliceiri K, Joseph DB. 2nd Annual George M. O'Brien Benign Urology Symposium, the Environmental Impact on Urologic Health and Disease, Madison, WI.
80. 2016. Hao L, Greer T, Zhong X, Page D, Bushman W, Vezina CM, Ricke WA, Marker PC, Bjorling D, Li L. Combining DiLeu isobaric labeling and label-free approaches for metabolite quantification and biomarker discovery of lower urinary tract symptoms. 2nd Annual George M. O'Brien Benign Urology Symposium, the Environmental Impact on Urologic Health and Disease, Madison, WI.
79. 2016. Jeong CH, Vezina CM, Ricke WA. Alterations of DNA methyltransferase in BPH-1 derived prostate cancer progression model cell lines. 2nd Annual George M. O'Brien Benign Urology Symposium, the Environmental Impact on Urologic Health and Disease, Madison, WI.
78. 2016. Lamarre NS, Wynder J, Uchtman K, Liu T, Wang Z, Vezina CM, Ricke WA, Bjorling DE. 2nd Annual George M. O'Brien Benign Urology Symposium, the Environmental Impact on Urologic Health and Disease, Madison, WI.
77. 2016. Thomas S, Hao L, Greer T, Vezina CM, Bajpal S, Ashok A, Bieberich CJ, Ricke WA, Li L. The urine proteoms of genetically-induced lower urinary tract dysfunction (LUTD) mice. 2nd Annual George M. O'Brien Benign Urology Symposium, the Environmental Impact on Urologic Health and Disease, Madison, WI.
76. 2016. Oakes SR, Eliceiri K, Abler LL, Wagner KA, Vezina CM. Computer-Based High-Throughput Urinary Function Analysis. Undergraduate Research Symposium, Madison, WI.
75. 2016. Ricke EA, Moore RW, Peterson RE, Vezina CM, Ricke WA. *In utero* and lactational TCDD exposure increases prostatic estrogen receptor alpha and secondary complications associated with bladder outlet obstruction in mice. 36th International Symposium on Halogenated Persistent Organic Pollutants, Firenze, Italy.
74. 2016. Ricke WA, Lee CW, Clapper TR, Schneider AJ, Moore RW, Keil KP, Abler LL, Wynder JL, Wegner KA, Ricke EA, Peterson RE, Vezina CM. Perinatal TCDD Exposure Sensitizes to Lower Urinary Tract Dysfunction in Adult Mice. AHR Conference, Rochester, NY.
73. 2016. Joseph DB, Chandrashekar A, Vezina CM. A folic acid enriched diet changes the prostate response to castration induced androgen deprivation. Targeting epigenetics and genome regulation to improve urologic health. The American Urological Association Headquarters, Linthicum, MD.
72. 2016. Wegner KA, Keil KP, Vezina CM. A mixed genetic background increases mouse susceptibility to hormone-induced urinary dysfunction. Society for Basic Urologic Research Fall Symposium, Scottsdale, AZ.
71. 2016. Oakes SR, Wegner KA, Eliceiri KW, Vezina CM. High throughput computer-based analysis of void spot assay data. Society for Basic Urologic Research Fall Symposium, Scottsdale, AZ.
70. 2016. Trevena R, Sullivan R, Wegner KA, Esquibel CR, Eliceiri KW, Vezina CM. Deep prostate tissue immunohistochemical staining and fluorescent confocal scanning for 3-dimensional microenvironment

- analyses. Society for Basic Urologic Research Fall Symposium, Scottsdale, AZ.
69. 2016. Cadena M, Joseph D, Abler LL, Vezina CM. A High-Resolution Atlas of Developing and Mature Mouse Prostate Neuroanatomy. High throughput computer-based analyses of void spot assay data. Society for Basic Urologic Research Fall Symposium, Scottsdale, AZ.
 68. 2016. Abler LL, Oakes SR, Macoska JA, Bjorling DE, Vezina CM. Toward a standardized protocol for urinary function testing and analysis using the void spot assay. Society for Basic Urologic Research Fall Symposium, Scottsdale, AZ.
 67. 2015. Thomas S, Hao L, Greer T, Vezina CM, Bajpai S, Ashok A, Bieberich C, Ricke WA, Li L. The Urine Proteomes of Genetically-Induced Lower Urinary Tract Dysfunction (LUTD) Mice. Society for Basic Urologic Research Fall Symposium, Ft. Lauderdale, FL.
 66. 2015. Ricke WA, Lee C, Clapper T, Schneider A, Moore RW, Keil KP, Abler LL, Wynder J, López Alvarado A, Beau brun I, Vo J, Peterson RE, Vezina CM. Fetal TCDD exposure increases adult male mouse susceptibility to urinary dysfunction. The 54th Annual Meeting of the Society of Toxicology, San Diego, CA.
 65. 2015. Hao L, Greer T, Zhong X, Page D, Lee S, Vezina CM, Ricke WA, Parker PC, Bjorling DE, Bushman W, Li L. Combining DiLeu Isobaric Labeling and Label-free Approaches for Metabolite Quantification and Biomarker Discovery of Lower Urinary Tract Symptoms (LUTS). 63rd Annual ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, MO.
 64. 2015. Hao L, Greer T, Vezina CM, Ricke WA, Marker PC, Bjorling DE, Bushman W, Li L. Identification of potential metabolite biomarkers of lower urinary tract symptoms (LUTS) in mouse and human urine. UW-O'Brien Center Spring Symposium.
 63. 2015. Wegner K, Vezina CM. Characterization of Stroma in Normal Mouse Prostate/Urethra and Mice with Urethral Obstruction. Society for Basic Urologic Research Fall Symposium, Ft. Lauderdale, FL.
 62. 2015. Jeong CH, Vezina CM, Ricke WA. Alterations of DNA Methyltransferase in BPH-1 Derived Prostate Cancer Progression Model Cell Lines. Society for Basic Urologic Research Fall Symposium, Ft. Lauderdale, FL.
 61. 2015. Bauman TM, Vezina CM, Halberg RB, Huang W, Peterson RE, Ricke WA. Expression and Co-localization of Beta-Catenin and Lymphoid Enhancing Factor-1 in Prostate Cancer Progression. Society for Basic Urologic Research Fall Symposium, Ft. Lauderdale, FL.
 60. 2014. Schneider AJ, Moore RW, Branam AM, Mehta V, Keil KK, Vezina CM, Peterson RE. Dioxin blocks initiation of β -catenin signaling in developing mouse prostate. The 53rd Annual Meeting of the Society of Toxicology, Phoenix, AZ.
 59. 2014. Keil KP, Abler LL, Mehta V, Altmann H, Laporta J, Hernandez LL, Vezina CM. DNA Methylation Is Required For Mouse Prostate Development. The 53rd Annual Meeting of the Society of Toxicology, Phoenix, AZ.
 58. 2014. Greer T, Nechyporenko A, Hao L, Vezina CM, Ricke W, Marker P, Bjorling D, Bushman W, Li L. Identification and Comparison of Protein Candidate Biomarkers from Lower Urinary Tract Symptoms (LUTS) in Mouse Models and Human Patients. 62nd ASMS Conference on Mass Spectrometry and Allied Topics, Baltimore MD.
 57. 2014. Hao L, Greer T, Vezina CM, Ricke W, Marker P, Bjorling D, Bushman W, Li L. Identification of potential metabolite biomarkers of lower urinary tract symptoms (LUTS) in mouse and human urines. 62nd ASMS Conference on Mass Spectrometry and Allied Topics, Baltimore MD.
 56. 2014. Keil KP, Abler LL, Mehta V, Altmann HM, Laporta J, Hernandez LL, Vezina CM. DNA Methylation Maintains Mouse Prostate Growth and Adult Urinary Function. Midwest Chromatin and Epigenetics Meeting, Madison, WI.
 55. 2014. Mulligan WA, Mehta V, Bischel LL, Keil KP, Abler LL, Beebe DJ, Sullivan R, Vezina CM. Beta-catenin (CTNNB1) augments angiogenesis in developing mouse prostate. Society for Basic Urologic Research Fall Symposium, Dallas, TX.
 54. 2014. Altmann HM, Keil KP, Abler LL, Vezina CM. Inhibition of Histone Deacetylation Enhances Mouse

- Prostate Branching Morphogenesis by a BMP Dependent Mechanism. Society for Basic Urologic Research Fall Symposium, Dallas, TX.
53. 2014. Keil KP, Abler LL, Weing Z-Y, Wang P, Bjorling DE, Vezina CM. High Folic Acid Diet Improves Urinary Function in a Mouse Model of Urinary Dysfunction. Society for Basic Urologic Research Fall Symposium, Dallas, TX, November 2014.
 52. 2014. Abler LL, Keil KP, Ouellet JN, Wang Z-Y, Wang P, Ricke WA, Bjorling DE, Watters JJ, Vezina CM. Investigating the Effects of Intermittent Hypoxia on Urinary Function in Diabetic Mice. Society for Basic Urologic Research Fall Symposium, Dallas, TX.
 51. 2014. Colopy SA, Abler LL, Bjorling DE, Vezina CM, Falsey RM. Spontaneous development of urinary tract infection in a murine model of type II diabetes. Society for Basic Urologic Research Fall Symposium, Dallas, TX.
 50. 2013. Branam AM, Davis NM, Moore RW, Schneider AJ, Vezina CM, Peterson RE. RSPOs counteract TCDD inhibition of canonical Wnt signaling during fetal mouse prostate development. The 52nd Annual Meeting of the Society of Toxicology, San Antonio, TX.
 49. 2013. Zimmerman RM, Vezina CM, Simpson KW, Sullivan R. Assay development for potential murine pathogens hypothesized to play a role in colitis. Meril-NIH Veterinary Scholars Symposium, East Lansing, MI.
 48. 2013. Slentz M, Vezina CM, Becker Samanas N, Shull J, Sullivan R. Testicular morphology and spermatogenesis in ACI compared to BN rats. Meril-NIH Veterinary Scholars Symposium, East Lansing, MI.
 47. 2013. Keil KP, Abler LL, Mehta V, Altmann H, Laporta J, Plisch EH, M Suresh, Hernandez LL, Vezina CM. DNA methylation of E-cadherin Primes Epithelium for Prostatic Bud Outgrowth. 10th World Congress on Urologic Research, Nashville, TN.
 46. 2013. Abler LL, Keil KP, Mehta V, Crader-Smith S, Wang Z-Y, Bjorling DE, Watters JJ, Vezina CM. Examining the Effects of Intermittent Hypoxia on Urinary Function in Mice. 10th World Congress on Urologic Research, Nashville, TN.
 45. 2013. Greer T, Hao L, Nechyporenko A, Vezina CM, Ricke WR, Marker PC, Brorling DE, Bushman W, Li L. Identification of Protein and Metabolite Biomarkers from Prostatic Inflammation and Hormone Obstruction Induced Lower Urinary Tract Symptoms (LUTS) in Two Mouse Models. 10th World Congress on Urologic Research, Nashville, TN.
 44. 2012. Moore RW, Keil, KP, Mehta V, Schneider AJ, Branam AM, Vezina CM, Peterson RE. Expression patterns of Wnt signaling pathway components in urogenital sinuses (UGSs) from control and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-exposed fetal mice. 51st Annual Meeting of the Society of Toxicology, San Francisco, CA.
 43. 2012. Schmitz CT, Mehta V, Joshi PJ, Abler LL, Keil KP, Vezina CM. Requirement for beta-catenin in prostatic bud formation. University of Wisconsin-Madison Undergraduate Symposium.
 42. 2012. Keil KP, Mehta V, Branam AM, Abler LL, Buresh-Stiemke RA, Joshi PS, Schmitz CT, Marker PC, and Vezina CM. Regulation and function of Wnt inhibitory factor 1 (Wif1) in prostate development. Society for Basic Urologic Research Fall Symposium, Miami, FL.
 41. 2012. Mehta M, Schmitz CT, Keil KP, Joshi PS, Abler LL, Lin T-L, Taketo MM, Sun X, Vezina CM. Expression of a beta-catenin (Ctnnb1) gain-of-function allele in mouse urogenital sinus (UGS) epithelium impairs prostatic bud formation. Society for Basic Urologic Research Fall Symposium, Miami, FL.
 40. 2012. Abler LL, Keil KP, Mehta V, Sullivan R, Eliceiri KW, Vezina CM. Evidence for involvement of epithelial-2012. mesenchymal transition inducers and requirements for Snai2 in prostate bud formation. Society for Basic Urologic Research Fall Symposium, Miami, FL.
 39. 2011. Branam AM, Moore RW, Abler LL, Allgeier SH, Mehta V, Vezina CM, Peterson RE. Wnt inhibitory factor 1 (Wif1) promotes prostatic bud formation and may partially protect against defects in prostate development caused by TCDD exposure. The 50th Annual Meeting of the Society of

Toxicology, Washington, DC.

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