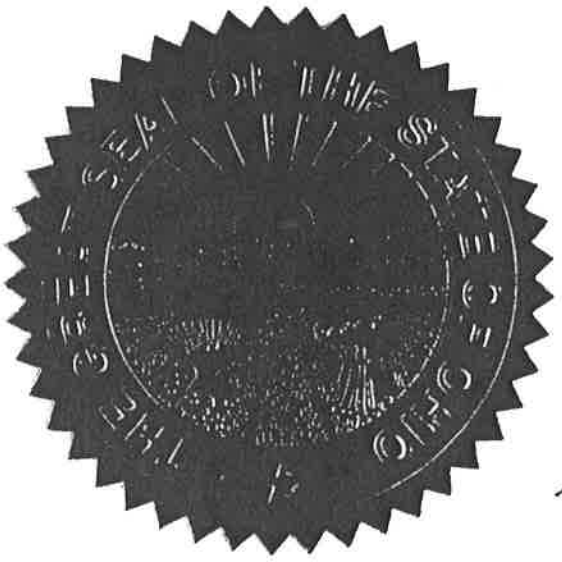
STATE OF OHIO

Executive Department

OFFICE OF THE GOVERNOR

Columbus

I, Mike DeWine, Governor of the State of Ohio, do hereby appoint Carissa Marie Krane, Democrat, from Xenia, Greene County, Ohio, as a Member of the Ohio Tuition Trust Authority Investment Board for a term beginning June 17, 2022 and ending at the close of business January 30, 2026, replacing Michael Vernon Wible, whose term expired.



IN WITNESS WHEREOF, I have hereunto subscribed my name and caused the Great Seal of the State of Ohio to be affixed, at Columbus, this 17th day of June in the year of our Lord, Two Thousand and Twenty Two.

Mike DeWine
Governor

UNIVERSITY OF DAYTON
COLLEGE OF ARTS AND SCIENCES
CURRICULUM VITAE

Name: Carissa M. Krane, Ph.D. **Date:** March, 2022

School: College of Arts and Sciences **Department:** Biology

Date hired at UD: January 1, 2001

Date tenured: 2007

Rank:	**From:**	**To:**	**Institution**	**Full or Part Time**
Instructor	Does not apply.			
Assistant Professor	January 1, 2001	August 2007	University of Dayton	Full Time
Associate Professor	August, 2007	August, 2015	University of Dayton	Full Time
Professor	August, 2015	Present	University of Dayton	Full Time

I. Professional Training and Experience

Academic and Professional Training

1. **College or University**

	Degree	Date
Washington University, St. Louis, MO Division of Biology and Biomedical Sciences: Program in Molecular Genetics	Ph.D.	1996
Marquette University, Milwaukee, WI Biochemistry and Molecular Biology	Honors B.S.	1990

2. **Current study:** Does not apply

3. **Scholastic Honors:**

1996-2000 New Investigator in the Program of Excellence in Molecular Biology of Heart and Lung Development, (sponsored by the National Heart Lung and Blood Institute, NIH), for training and research support at the University of Cincinnati College of Medicine, Cincinnati, OH

1992-1996 National Research Service Award for Pre-Doctoral Training in Molecular Genetics, (sponsored by the National Human Genome Research Institute), for training and research support in the Department of Genetics, Washington University School of Medicine, St. Louis, MO

1989 Summer Undergraduate Research Fellowship, Southwestern Medical Center, Dallas, TX

Mutyam, V., **Puccetti, M.V.,** Frisbie, J., Goldstein, D.L., and Krane, C.M. (2011) Dynamic regulation of aquaglyceroporin expression in erythrocyte cultures from cold- and warm-acclimated Cope's gray treefrog, *Hyla chrysoscelis. J. Expt. Zoology: Part A,* 315:424-437.

Diestelkamp,W.*, Krane, C.M.*, and Pinnell, M. (2011) Design of a factorial experiment with randomization restrictions to assess medical device performance on vascular tissue. *BMC Medical Research Methodology*, 11:75. (*Co-corresponding authors).

Krane, C.M, Pinnell, M., **Gardner, C., Thompson, M.**, Coleman, J., and Wilkens, R. (2011) Mechanical test methods for assessing porcine carotid and uterine artery burst pressure following ex-vivo ultrasonic ligature seal and transection. *Journal of Testing and Evaluation.* 39(4):1-8.

Goldstein, D.L., Frisbie, J., **Diller, A.**, Pandey, R.N. and Krane, C.M. (2010) Glycerol uptake by erythrocytes from warm- and cold-acclimated Cope's gray treefrogs. *J. Comp. Physiol. B.* 180(8):1257-1265.

Rhoads, E., Krane, C.M., and Williams, P.K. (2009) A molecular screening method for *Ambystoma* using mitochondrial DNA. *Conservation Genetics*, **11**:1177-1179.

Krane, C.M., Deng, B., Mutyam, V., McDonald, C.A., Pazdziorko, S., Mason, L., Goldman, S., Kasaian, M., Chaudhary, D., Williams, C, and Ho, M.W.Y. (2009) Altered regulation of aquaporin gene expression in allergen and IL-13 induced mouse models of asthma. *Cytokine*, **46**:111-118.

Zimmerman, S.L., Frisbee, J., Goldstein, D., West, J., **Rivera, K.***, and Krane, C.M. (2007) Excretion and conservation of glycerol, and expression of aquaporins and glyceroporins, during cold acclimation in Cope's gray treefrog *Hyla chrysoscelis*. *AJP: Regulatory, Integrative, and Comparative Physiology*, 292 (1):R544-R555.

Paoletti, D.R., Doom, T.E., Krane, C.M., Raymer, M.L., and Krane, D.E. (2005) Empirical analysis of the STR profiles resulting from conceptual mixtures. *J. Forensic Sci.*, **50**(6):1361-1366.

Kishore, B.K., Krane, C.M., Miller, R.L., Shi, H., Zhang, P., Hemmert, A., Sun, R., and Nelson, R.D. (2005) P2Y2 receptor mRNA and protein expression is altered in inner medullas of hydrated and dehydrated rats: relevance to AVP-independent regulation of IMCD function. *Am. J. Physiol., (Renal Phys),* **288**: F1165-F1172.

Merves, M., Krane, C.M., Dou, H., Greinwald, J.H., Menon, A.G., and Choo, D. (2003) Expression of aquaporin 1 and 5 in the developing mouse inner ear and audiovestibular assessment of an Aqp5 null mutant. *J Assoc Res Otolaryngol.,* **4**(2):264-275.

Nejsum, L.N., Kwon, T-H., Jensen, U.B., Fumaglli, O., Frokiaer, J., Krane, C.M., Menon, A.G., King, L.S., Agre, P.C., and Nielsen, S. (2002) Functional requirement of Aquaporin-5 in plasma membranes in sweat glands. *PNAS*, **99**(1):511-516.

Krane, C.M., Fortner, C., Hand, A.E., McGraw, D.W., Lorenz, J.N., Wert, S.E., Towne, J.E., Paul, R.J., Whitsett, J.A., and Menon, A.G. (2001) Aquaporin 5 Deficient Mouse Lungs are Hyperresponsive to Cholinergic-Stimulation. *PNAS*, 98(24):14114-14119. (See Commentary, King, L. (2001) Surprises from airway epithelium. *PNAS*, **98**(25):14192-14194.)

Krane, C.M., Melvin, J. E., Nguyen, H.-V., Richardson, L., Towne, J.E., Doetschman, T., and Menon, A. G. (2001) Salivary Gland Acinar Cells From Aquaporin 5 Deficient Mice Have Decreased Membrane Permeability and Altered Cell Volume Regulation. *J. Biol. Chem,* **276**(26):23413-23420.

Towne, J.E., Krane, C.M., Bachurski, C.J., and Menon, A.G. (2001) Tumor Necrosis Factor-α Inhibits Aquaporin 5 Expression in Mouse Lung Epithelial Cells. *J. Biol. Chem,* **276**(22):18657-18664.

Amlal, H., Krane, C.M., Chen, Q., and Soleimani, M. (2000) Early polyuria and urinary concentrating defect in potassium deprivation. *Am. J. Physiol. (Renal Phys)* **279**:655-663.

Kishore, B.K., Krane, C.M., Di Iulio, D., Menon, A.G., and Cacini, W. (2000) Expression of Renal Aquaporins 1, 2, and 3 in a Rat Model of Cisplatin-induced Polyuria. *Kidney International* **58**: 701-711.

Kishore, B.K., Ginns, S.M., Krane, C.M., Nielsen, S., and Knepper, M.A. (2000) Cellular Localization of $P2Y_2$-Purinoceptor In Rat Renal Inner Medulla and Lung. *American Journal of Physiology: Renal Physiology* **278**: F42-F51.

Towne, J.E., Harrod, K.S., Krane, C.M., and Menon, A.G. (2000) Decreased expression of AQP1 and AQP5 In mouse lung after acute viral infection. *American Journal of Respiratory Cell and Molecular Biology* **22**(1): 34-44.

2022 *University of Dayton "Momentum" STEM Catalyst Grant: "Frozen Alive: Deciphering Animal Freeze Tolerance"*, March 11, 2022; https://www.youtube.com/watch?v=cFexXiAWST4&list=PLZejqDKgWYcH8ajuf1tu-jCgLJPVKG9Bz&index=7

3a.) Book and Article Reviews

Journal Reviewer:
Journal of Experimental Biology; American Journal of Physiology: Integrative and Comparative Physiology; Endocrinology; Copeia; Pflugers Archiv—European Journal of Physiology; American Journal of Physiology: Cell Physiology; Cellular and Molecular Life Sciences; BMC Evolutionary Biology; Molecular Biology Reports; Journal of Exercise Physiology Online; Advances in Physiology Education; Biochimica et Biophysica Acta; Molecular Cell Research; The Journal of Biological Chemistry; Clinical and Experimental Pharmacology and Physiology.

Textbook Reviewer:
Aquaporin function and regulation: Physiological and Chemical approaches (Book Proposal), CRC Press, Publisher, Proposal Reviewed June, 2014.

3b.) Publication Editor

Editor, *2013 Proceedings of the Berry Summer Thesis Institute*, University Honors Program, University of Dayton, Dayton, OH.

Editor, *2014 Proceedings of the Berry Summer Thesis Institute*, University Honors Program, University of Dayton, Dayton, OH.

Recent Addresses or Papers (from 2015-present)

1. Published Abstracts and Poster Presentations at Professional Meetings (Stander not included)

(Undergraduate student co-authors are **Bolded;** Graduate student co-authors are underlined)

Evans, E., Wascher, M., Goldstein, D., and Krane, C. M. (2022) "Multiple Freeze-thaw Cycles in Cope's Gray Treefrog Dryophytes chrysoscelis Reveal Novel Physiological, Biochemical, and Morphological Insights into Vertebrate Freeze Tolerance." 2022 Experimental Biology, Philadelphia, PA, April 2022, FASEB Journal, In Press.

Evans, E., Goldstein, D., Krane, C. M. (2021) Multiple Freeze-thaw Cycles Induce Delayed Recovery of Function Despite Enhanced Circulating Cryoprotectant Accumulation in the Freeze Tolerant Anuran Cope's Gray Treefrog *Dryophytes chrysoscelis*." Oral Data Blitz Presentation, Published Abstract, Poster presentation. Ohio Physiological Society Annual Meeting, Cleveland OH, October 2021, https://physiology.case.edu/media/files/OPS2021_Abstracts_Booklet.pdf

Krane, C. M., Watts, H., Perozo, E., Tarrant, A. (2019). *Rules of Signaling*. Reintegrating Biology, NSF Emerging Frontiers: University Corporation for Atmospheric Research, Austin, TX, " NSF Sponsored Reintegrating Biology Jumpstart. https://reintegratingbiology.org/vision-papers/

Geiss, L., *do Amaral, C.*, Frisbie, J., Goldstein, D., Krane, C. M. (2018). "Freeze Tolerance and Cryoprotection of Erythrocytes from Warm and Cold Acclimated D. chrysoscelis." Poster presentation and published abstract, 2018 Experimental Biology, San Diego, CA. (April 25, 2018) Federation of American Societies for Experimental Biology Journal. https://www.fasebj.org/doi/10.1096/fasebj.2018.32.1_supplement.lb424

Pezzutti, D. L., Frisbie, J., Goldstein, D. L., Geiss, L., Krane, C. M. (2018). "Characterization of the Glycosylation of Aquaglyceroporin HC-3 in Erythrocytes from the Freeze Tolerant Anuran, *Dryophytes chrysoscelis*." Poster presentation and published abstract, 2018 Experimental Biology, San Diego, CA. (April 25, 2018) Federation of American Societies for Experimental Biology Journal. Federation of

Krane, C. M., Invited Lecture or Address, Human Biology Seminar Series, Kettering College, Kettering OH, ""Frozen Alive" Hepatic Transcriptomics in the Freeze Tolerant Anuran, *Hyla chrysoscelis*", Presenter/Lecturer, Academic, Local, Invited. (March 2, 2017).

Krane, C. M., Invited Lecture or Address, Ohio University Department of Biology Seminar Series, Ohio University, Athens OH, "Frozen Alive", Presenter/Lecturer, Academic. (January 30, 2017).

Geiss, L., Frisbie, J., Goldstein, D., Krane, C. M. "Freeze Tolerance and Cryoprotection of *Dryophytes chrysoscelis* Erythrocytes". Invited Speaker, 2017 Ohio Physiological Society Annual Meeting, Ohio Physiological Society, Rootstown OH. (October 27, 2017).

Krane, C. M. "EB 2017 Careers Symposium." Invited Panelist. 2017 Experimental Biology, Federation of American Societies for Experimental Biology, American Physiological Society, Chicago, IL, (April 24, 2017).

Krane, C. M., (2017) Panelist, "Convergence Science." Science Policy Committee Symposium: Convergence Research, Federation of the American Societies for Experimental Biology, Washington DC, (June 4, 2017).

Krane, C. M. (2016) "Frozen Alive". Invited Lecture. University of Notre Dame Department of Biology Seminar Series, University of Notre Dame, South Bend, IN, September 6, 2016.

Krane, C. M. (2016) "Undergraduate Degree Programs in Physiology". Panel Participant/Workshop, 2016 Experimental Biology, FASEB, San Diego, CA. April, 2016.

Krane, C. M. (2016) "Undergraduate Student Orientation", Invited Workshop Presenter/Leader, Federation of American Societies for Experimental Biology "Experimental Biology 2016", American Physiological Society, San Diego, CA, April 2, 2016.

3. Technical Reports for Contract Research

TR-2007-044 Assessing the causes of variability in seal quality and tissue changes resulting from the use of the Ethicon Endo-Surgery, Inc. Harmonic Surgical System.
Phase 1: Study to determine the factors affecting the variability of vessel seal burst strength.
Final report. (pp. 1-34; Appendices pp. 1-200). Submitted April 5, 2007.
Authors: Pinnell, M., Krane, C.M., Coleman, J., **Gardner, C., Thompson, M.**

TR-80-00148 Assessing the causes of variability in seal quality and tissue changes resulting from the use of the Ethicon Endo-Surgery, Inc. Harmonic Surgical System.
Phase 2: Evaluating the contribution of vessel type, infusion fluid composition, and temperature on seal quality. Final Report. (pp. 1-66; Appendices A-E). Submitted August, 2008.
Authors: Pinnell, M., Krane, C.M., Diestelkamp, W., **Gardner, C., Klapheke, A., Timms, K., Whitney, E., Kitchin, E.**

TR-2010-91 Assessing the feasibility of intraluminal ultrasonic tissue welder.
Phase 1: Test Design and Feasibility study.
Final Report. (pp. 1-74; Appendices A-F). Submitted July 30, 2010.
Interim Report submitted August 28, 2009 (pp. 1-55).
Status Report submitted December 31, 2009 (pp. 1-33; Appendices A-D).
Authors: Krane, C.M., Pinnell, M. and Diestelkamp, W.

R-018036 Assessing the Effect of Device Geometry and Load Curve on the Efficacy of an Experimental Bipolar Radio Frequency (RF) Device. Final Letter Report. Submitted December 16, 2010.
Authors: Pinnell, M., Krane, C.M., Diestelkamp, W., Foor, J., **Brudos, B., McCrate, S., Rath, K.**

R-18988 Tissue welding assessment using HULK G2 Super Shears. Final Letter Report. Submitted November, 2011. (pp. 1-25; Appendices A-M).
Authors: Pinnell, M., Krane, C.M., Diestelkamp, W.

C. Research in Progress

2005-2010 **Title:** "Aquaporins and osmoregulation in freeze-tolerant amphibian."
Funding Agency: NSF
Date Submitted: January 12, 2005
Role: Co-Principal Investigator, Collaboration with Dr. David Goldstein, WSU
Amount: $420,000 awarded to WSU and UD; UD subcontract $83,135.

2004-2008 **Title:** "Role of Aquaporin 5 (AQP5) in Lung Fluid Homeostasis"
Funding Agency: NIH/NHLBI: Academic Research Enhancement Award Program
Date Submitted: September 25, 2003
Role: Principal Investigator
Amount: $221,340

2. **External Education Grants (Funded):**

2018-2019 **Title:** NEH Humanities and Health Connections Planning Grant
Funding Agency: NEH
Date Submitted: 2017
Role: Co-Principal Investigator (with Caroline Waldron)
Amount: $35,000 awarded.

3. **Industrial Contracts (Funded):**

2011 **Title:** "Tissue Welding Assessment using HULK G2 Super Shears"
Funding Agency: Ethicon Endo-Surgery
Date Submitted: Mary 2011
Role: Co-Principal Investigator, Interdisciplinary Collaboration with Dr. Margaret Pinnell (Co-PI; MAE). Dr. Wiebke Diestelkamp (MTH) is a consultant on the contract.
Awarded: $53,889

2009-2011 **Title:** "Assessing the effect of device geometry and load curve on the efficacy of an experimental bipolar radiofrequency (RF) surgical device"
Funding Agency: Ethicon Endo-Surgery
Date Submitted: December 2009
Role: Co-Principal Investigator, Interdisciplinary Collaboration with Dr. Margaret Pinnell (Co-PI; MAE). Dr. Wiebke Diestelkamp (MTH) is a consultant on the contract.
Awarded: $91,656

2010 **Title:** "Ice nucleating protein isolation and characterization"
Funding Agency: TempTime Corporation
Date Submitted: November 2009
Role: Co-Principal Investigator, Interdisciplinary Collaboration with Dr. Doug Hansen, UDRI (PI)
Awarded: $83,975

2008-2009 **Title:** "Assessing the feasibility of intraluminal ultrasonic tissue welder
Funding Agency: Ethicon Endo-Surgery
Date Submitted: July, 2008
Role: Co-Principal Investigator, Interdisciplinary Collaboration with Dr. Margaret Pinnell (Co-PI, MAE). Dr. Wiebke Diestelkamp (MTH) is a consultant on the contract.
Awarded: $115,596

2007-2008 **Title:** "Assessing the causes of variability in seal quality and tissue changes resulting from the use of the Ethicon harmonic R surgical system"
Funding Agency: Ethicon Endo-Surgery
Date Submitted: May, 2007
Role: Co-Principal Investigator, Interdisciplinary Collaboration with Dr. Margaret Pinnell (Co-PI, MAE). Dr. Wiebke Diestelkamp (MTH) is a consultant on the contract.

2020 **Title:** Collaborative Research: Integrative studies of freeze tolerance mechanisms in gray treefrogs"
Funding Agency: NSF
Date Submitted: June, 2020
Role: Principal Investigator
Amount: $663011
Status: Not Funded

2017 **Title:** IOS Preliminary Proposal: Collaborative Research: Ecophysiology of the gray treefrog: Molecular and Cellular mechanisms integrating metabolism, osmoregulation, and freeze tolerance.
Funding Agency: NSF
Date Submitted: 2017
Amount: Pre-proposal (no budget submitted)
Status: Not Funded

2010 **Title:** "Regulation of aqua/glyceroporin expression in a freeze-tolerant amphibian"
Funding Agency: NSF
Date Submitted: January, 2010
Role: Co-Principal Investigator; Collaboration with Dr. David Goldstein, WSU
Amount: $741,824
Status: Not Funded

2010 **Title:** "New multicomponent supramolecular complexes as potential new asthma treatments."
Funding Agency: American Asthma Foundation Research Program
Date Submitted: January, 2010
Role: Co-Principal Investigator; Collaboration with Dr. Shawn Swavey, CHM
Amount: $450,000
Status: Not Funded

2009 **Title:** "Regulation and role of aquaporins in a freeze-tolerant amphibian."
Funding Agency: NSF
Date Submitted: January, 2009
Role: Co-Principal Investigator; Collaboration with Dr. David Goldstein, WSU
Amount: $735,665
Status: Not Funded

2008 **Title:** "Regulation of aqua/glyceroporin in a freeze-tolerant amphibian."
Funding Agency: NSF
Date Submitted: July, 2008
Role: Co-Principal Investigator; Collaboration with Dr. David Goldstein, WSU
Amount: $567,854
Status: Not Funded

7. External Education Grants (Not Funded)

2015 **Title:** UD Undergraduate Summer Research Fellowship
Funding Agency: AHA
Date Submitted: September, 2015
Role: Co-Principle Investigator (PI, Yvonne Sun)
Amount: $40,000
Status: Not Funded

2013 **Title:** "REU Site: Interdisciplinary Research and Innovation in Biology and Engineering"
Funding Agency: NSF
Date Submitted: August 2013
Role: Co-Principal Investigator, Interdisciplinary Collaboration with Dr. Kimberly Bigelow (PI, MAE)

2014 Certificate of Appreciation from American Physiological Society, *"For serving as a research host to five or more undergraduate students as part of one of APS' summer research programs."*

2013 Spotlight on Technology, Arts, Research and Scholarship, STARS Certificate of Recognition, "*In recognition for your outstanding efforts in research and scholarship"*, University of Dayton Office of Research, Vice President for Research and Executive Director, Research Institute, University of Dayton.

2009 Recipient of 2008 Outstanding Teaching Award in the College of Arts and Sciences, University of Dayton.

I. Leave of Absence:

August 16-December 31, 2008, Sabbatical Leave
August 16-December 31, 2018, Sabbatical Leave

III. Performance of Non-Instructional Duties:

A. General Service

1. Academic Administration:

Institution	Position	From	To
University of Dayton	Associate Director Honors Thesis Research University Honors Program	July 1, 2011	December 31, 2014

2. Non-Academic Administration (such as offices in scholarly or professional organizations):

Name of Organization	Position	Nature of Duties	Date
American Physiological Society: Education Committee	Member	Committee Member Subcommittee on Undergraduate Degree Recognition	2014-2017
Sigma Xi, UD Chapter	Past President	Awards Committee	2007-2008
Sigma Xi, UD Chapter	President	Programming, Member recruitment	2006-2007

3. University-wide committees (2007-Present)

Academic Senate

Academic Senate: President	2014-2016
Academic Senate: Vice-President	2016-2017, 2021-2022
Academic Senate: Executive Committee	2013-2017, 2020-2022
Academic Senator, Natural Sciences Representative	2011-2017, 2020-2022
Academic Senate: Faculty Affairs Committee	2012-2014, 2020-2022
Academic Senate: Chair, Faculty Affairs Committee	2020-2022

University Committees

Graduate Faculty Status	2002-Present
Graduate Academic Program Centrality and Demand Working Group	2020-2022
University Elections Committee	2021-2022
University Nominating and Recruitment Committee	2016-2017, 2021-2022
Chair, University Promotion and Tenure Policy Task Force	2017-2019
Co-Chair, Strategic Visioning Working Group 3: *"How we discover and engage: Visioning the future of Our Research, Scholarship and Creative activity"*	2016-2017
President's Council	2014-2016

Psychology Faculty Search Committee	2010
Psychology Faculty Search Committee	2009

5. Departmental Committees (2007-Present)

Name of Committee	Dates
Chair's Advisory Council	2021-2022
Lead, Biology Department HLC Program Review	2020-2022
Chair, Undergraduate Curriculum Committee	2019-2020
Sabbatical Committee	2014-2015
Chair's Executive Committee	2013-2014
Lancaster-McDougal Award Committee	2010-2013
Safety Committee	2010-2014
Graduate Coordinating Committee	2009-2011, 2013-2014
Departmental Bylaws Subcommittee	2008-2011
Chair, Undergraduate Curriculum/Assessment	2006-2011
Careers in Biology Seminar Series Coordinator	2002-2010
Science Center Renovations Planning Committee	2009
Chair, Biology Department Retreat	2007
Chair, BS/MS Committee	2006-2008
Chair, Career Development Committee	2006-2008
Graduate Assessment Committee	2008-2011
Graduate Admissions Committee	2008-2010
Undergraduate Recruitment Committee	2010-2011

Faculty Search Committees

Biomedical Search Committee	2021-2022
Neurobiology Search Committee	2013-2014
Anatomy/Physiology Lecturer Search Committee Chair	2010-2011
Community Ecology Search Committee	2007-2008
Environmental Ecology Search Committee	2007-2008
Cell Biology Search Committee	2006-2007

6. Non-University Committees (governmental, educational, etc.)

Agency	Nature of Work	Dates
NSF	Grant Reviewer	2007-present
NEH	Grant Reviewer	2018, 2020
NIH	Ad Hoc Grant Reviewer	2008-present

7. Other Activities on Behalf of the University (Past 3 years)

2021 Invited Participant, Strategic Visioning Focus Group, American Physiological Society Center for Physiology Education Focus Group, American Physiological Society.

2021 HHMI Self Study Learning Cohort Participant, University of Dayton.

2020 Program Juror/Judge, Council on Undergraduate Research: Posters on the Hill Abstract Reviewer, National. Reviewer for Posters on the Hill abstract selection. (December 2019 - January 2020).

2019 Program Juror/Judge, Council on Undergraduate Research: Posters on the Hill Abstract Reviewer, National. Reviewer for Posters on the Hill abstract selection. (December 2018 - January 2019).

2019 Program Juror/Judge, American Physiological Society Undergraduate Research Award Reviewer, National. Reviewer for Barbara A. Horwitz and John M. Horowitz Outstanding Undergraduate Abstract Awards (January 2019 - February 2019).

B. Other Pertinent Information

Undergraduate Laboratory Research Mentorship (2015-Present)

*Cumulative: 125 Faculty Mentored Undergraduate Research students from 2001-Present

2021-2022	Chase Jennings (UD/Sinclair Academy) Andrew Morosky (BIO), Arjun Sokhi (BIO), Syndey Ramicone (HSS)
2019-2021	Samuel Ripley (MED)
2017-2019	Maria Labello (BIO), Elizabeth Sinnethamby (BIO)
2016-2018	Dante Pezutti (BIO)
2016	Christopher Turley
2014-2017	Raphael Crum (BIO)
2014-2015	Aric Anloague (Neuroscience, Baldwin-Wallace)

Undergraduate Student Awards for Research (2015-Present)

2022 American Physiological Society Summer Undergraduate Research Fellow Mentor, National. Service as an American Physiological Society Summer Undergraduate Research Fellow Mentor for UD Sinclair Academy Student, Chase Jennings (May 2022 - May 2023).

2020 UD CAS Dean's Summer Fellowship Mentor, Samuel Ripley, May 2020-August 2020.

2018 Undergraduate Research Mentorship: American Physiological Society Undergraduate Poster Award, International. Undergraduate Honors Thesis Student Dante Pezzutti was awarded the 2018 Barbara A. Horwitz and John M. Horowitz Excellence in Undergraduate Research Award from the American Physiological Society at the 2018 Experimental Biology Meeting, held in San Diego, CA. (April 2018).

2018 Undergraduate Research Mentorship: American Physiological Society Undergraduate Poster Award, International. Undergraduate Honors Thesis Student Dante Pezzutti was awarded a 2018 Barbara A. Horwitz and John M. Horowitz Outstanding Undergraduate Abstract Award from the American Physiological Society at the 2018 Experimental Biology Meeting, held in San Diego CA. (January 2018 - April 2018).

2017 American Physiological Society Summer Undergraduate Research Fellow Mentor, National. Service as an American Physiological Society Summer Undergraduate Research Fellow Mentor for Dante Pezzutti (May 2017 - May 2018).

2017 Undergraduate Research Mentorship: American Physiological Society Undergraduate Poster Award, National. David L. Bruce Award from the American Physiological Society for Excellence in Undergraduate Research for an undergraduate first author poster presentation at the 2017 Experimental Biology Meeting. Awarded to Raphael Crum. (2017).

2017 Undergraduate, Undergraduate Mentorship: American Physiological Society Undergraduate Research Award, National. 2017 Barbara A. Horwitz and John M. Horowitz Undergraduate Research Award. Raphael Crum for outstanding first author abstract, presented at the 2017 Experimental Biology Meeting. (2017).

2017 Undergraduate Mentorship: Dlugos Undergraduate Award Winner, Department. John E. Dlugos, Jr. Memorial Award of Excellence to the Outstanding Senior Majoring in Biology awarded to graduating Senior, Raphael Crum. (2017).

2016 Berry Goldwater Scholarship Research Mentor, Department. Served as research mentor for Berry Goldwater Scholarship winner Raphael Crum (January 2016 - May 2017).

2015 American Physiological Society Summer Undergraduate Research Fellow Mentor, National. Service as an American Physiological Society Summer Undergraduate Research Fellow Mentor for Raphael Crum (May 2015-May 2016)

Undergraduate Student Advising:

BIO 404 "Physiology II," 3 credit hour lecture course. Jr/Sr level elective for BIO, EVB, MED, DEN, BCM, CME, PSY majors. Enrollment 12-40.

ASI 341/HST 499 "Women's History/Women's Health," 3 credit hour CAP Crossing Boundaries Pilot course, developed and co-taught with Dr. Caroline Merithew (HST).

BIE 551/BIO 596/CME499/CME 595 "Transport Phenomena in Biological Systems," 3 credit hour graduate course in the new MS in Bioengineering program; lecture/lab/student seminar presentations; Co-taught with Dr. Robert Wilkens (CME).

BIO 421 "Independent Research", 1 credit hour laboratory research

BIO 477 "Honors Thesis: Independent Research," 3 credit hour honors thesis supervision.

BIO 478 "Honors Thesis: Independent Research," 3 credit hour honors thesis supervision.

BIO 596 "Special Topics Seminar", 1-2 credit hour graduate seminar special topics course

BIO 601 "Graduate Seminar," 1 credit hour graduate seminar course

GOVERNOR'S APPOINTMENTS
TO BOARDS AND COMMISSIONS

Appointment Date: 6/17/2022

Name of Appointee: Carissa Marie Krane

Address:
1102 Mead Road
Xenia, OH 45385
Greene County
(H) – 9373742462
(W) – 9372293427
(M) – 9372196265
(E) – ckrane1@udayton.edu

Name of Commission: Ohio Tuition Trust Authority Investment Board
Timothy C. Gorrell, Executive Director
(614) 466-4229 (direct)
35 E. Chestnut Street, 8th Floor
Columbus
(614) 752-9509

Term Begins: 1/31/2022
Term Ends: 1/30/2026
Party Affiliation: Democrat
Senate Confirmation: Appointed by the Governor, confirmed by the Senate
Financial Disclosure: Confidential disclosure required
Vice: Michael Vernon Wible