♦ CURRICULUM VITAE ♦

*WARREN W. BURGGREN*

### ♦ *TABLE OF CONTENTS* ♦

1. PERSONAL INFORMATION…………………………….………………..……2
2. PROFESSIONAL APPOINTMENTS ……………...…………….…………….3
3. HONORS…………………………………………………………….……………4
4. ADMINISTRATION………………………………………………………………4
5. TEACHING AND MENTORING………………………………...…………….11
6. TEACHING AND MENTORING………………………………………………10
7. GRANTS AND EXTRAMURAL RESEARCH ACTIVITIES………….……..15
8. PLENARY LECTURES, SYMPOSIA AND SEMINARS…………..………..17
9. REVIEWING……………………………………………………………….……26
10. PUBLICATIONS………………………………………..………………………29

## 1. PERSONAL INFORMATION

|  |  |
| --- | --- |
| **PROFESSIONAL CONTACT INFORMATION*** **Mailing Address**: 1155 Union Circle #311190

University of North TexasDenton, TX 76205-5189940-565-3952940-565-4438 (FAX)* Email: burggren@unt.edu
* Web Site: biology.unt.edu/burggren
 | A picture containing person, person, wearing, suit  Description automatically generated |

DATEAND PLACE OF BIRTH

* August 14, 1951, Edmonton, Alberta, Canada

MARITAL STATUS

* Married, 3 daughters, 1 son

CITIZENSHIP

* Canadian and American

UNDERGRADUATE TRAINING

* Department of Biology, University of Calgary, Alberta, Canada 1969-1973

GRADUATE TRAINING

* School of Biological Sciences, University of East Anglia, Norwich, England 1973-1976

DEGREES HELD

* B.Sc. (1st Class Honors) in Biology - University of Calgary, 1973
* Ph.D. in Physiology - University of East Anglia, U.K. 1976

### *2. PROFESSIONAL APPOINTMENTS*

* Administrative Appointments

|  |  |
| --- | --- |
| • 2015-2016  | President’s Special Advisor for STEM and International Activities |
| • 2010-2015 | Provost and Vice President for Academic Affairs, Univ. of North Texas |
| • 1998-2010 | Dean, Arts and Sciences, Univ. of North Texas |
| • 1997-1998 | Chair, Biological Sciences, Univ. of Nevada, Las Vegas |
| • 1995-1997 | Interim Dean, College of Science and Mathematics, Univ. of Nevada, Las Vegas |
| • 1995-1996 | Director, “Bridges to the Future” Program for University of Nevada, Las Vegas for Minority College Students; jointly funded by National Institutes of Health and Department of Energy  |
| • 1992-1995 | Chair, Biological Sciences, Univ. of Nevada, Las Vegas |
| • 1991 | Acting Chair, Zoology Dept., Univ. of Massachusetts |

* Faculty Appointments

|  |  |
| --- | --- |
| • 1998-present | Professor of Biology, Univ. of North Texas |
| • 1992-1998 | Professor of Biological Science, Univ. of Nevada, Las Vegas |
| • 1990 | Visiting Professor, Univ. of Sao Paulo, Brazil |
| • 1987-1991 | Professor of Zoology, Univ. of Massachusetts |
| • 1985 | Visiting Scholar, Univ. of Melbourne, Australia |
| • 1982-1987 | Associate Professor of Zoology, Univ. of Massachusetts |
| • 1978-1982 | Assistant Professor of Zoology, Univ. of Mass |
| • 1976-1978 | Killam Postdoctoral Fellow, Univ. of British Columbia |
| • 1976-1978 | N.R.C. Postdoctoral Fellow, Univ. of British Columbia |
| • 1976 | Visiting Lecturer, Univ. of Aarhus, Denmark |
| • 1973-1976 | Ph.D., Cardiovascular and Respiratory Physiology, Univ. of East Anglia, supervised by Dr. G. Shelton |
| • 1973-1976 | Demonstrator in vertebrate and invertebrate physiology, invertebrate taxonomy, vertebrate and invertebrate morphology, Univ. of East Anglia |
| • 1970-1973 | Research Assistant, Univ. of Calgary |
|  |  |

### *3. HONORS*

* Awards and Other Distinctions (See also Plenary and Honorary

Lectures)

|  |  |
| --- | --- |
| • 2023 | University of North Texas Foundation Research Leadership Award |
| • 2023 | University of North Texas Undergraduate Research Mentor of the Year Award |
| • 2023 | Elsevier Top 2% of Cited World Scientists |

|  |  |
| --- | --- |
| * 2020
 | Mercator Fellow, German Research Foundation |

|  |  |
| --- | --- |
| • 2019 | Fellow, American Physiological Society |
| • 2018-present | Evolutionary Biology Advisory Board, Baylor College of Medicine, Houston.  |
| • 2017 | University Distinguished Research Professor  |
| • 2012 | Rector Honoris Causa (Honorary University President), The Autonomous University of the State of Mexico, Toluca, Mexico |
| • 2012 | Invited Participant, Commandant’s National Security Program, US Army War College |
| • 2008 | Academia Mexicana de Ciencias Distinguished Visiting Professor |
| • 2006-2011 | National Science Foundation Advisory Board – Biology Directorate |
| • 2002-2005 | Science Advisory Board, Bigelow Aerospace, Inc |
| • 2002 | Outstanding Supporter Award, Student Center for Ethnic Enrichment, University of North Texas |
| • 2002 | Annual Equity and Diversity Recognition Award, University of North Texas |
| • 2000 | Chair, Science Advisory Board - National Institute for Discovery Science |
| • 1997 | Barrick Distinguished Scholar, Univ. of Nevada, Las Vegas |
| • 1997 | Regent’s Research Medal - University and Community College System of Nevada Board of Regents |
| • 1997 | Regents’ Researcher Citation, University and Community College System of Nevada Board of Regents |
| • 1996 | Medal of the University of Helsinki, Finland |
| • 1992 | Fellow, Japan Society for the Promotion of Science |
| • 1984 | Elected Program Officer, Division of Comparative Physiology and Biochemistry, American Society of Zoologists |
| • 1976-1978 | Killam Postdoctoral Scholarship - Univ. of British Columbia |
| • 1976-1978 | NRC Postdoctoral Fellowship - Univ. of British Columbia |
| • 1974-1976 | Commonwealth Scholarship, Univ. of East Anglia, England |
| • 1972-1974 | Univ. of East Anglia Studentship, England |
| • 1972 | Province of Alberta Scholarship, Univ. of Calgary, Canada |

### *4. ADMINISTRATION*

### CONSULTING AND TRAINING

* Program Evaluation, Site Visits
* University of Alberta, Edmonton, Canada – UofA Water Initiative
* Auburn University,
	+ - * + Biology Graduate Program
				+ Department of Biological Sciences
				+ Five-Year Evaluation of Cellular and Molecular Biology Program
* University of Calgary – Faculty of Science
* University of the Central Caribbean - NIH Behavioral Testing Facility
* Middle Tennessee State University, Biology Masters Degree
* University of North Carolina - Greensboro, Evaluation of Department of Biological Sciences
* Indiana University Terre Haute, Department of Biological Sciences
* State of North Dakota, NSF EPSCOR Evaluation for University of North Dakota and North Dakota State University
* Idaho State University, Department of Biological Sciences
* University of Idaho, Department of Biological Sciences
* Western Washington University, College of Sciences
* United Arab Emirates University
* College of Sciences Evaluation
* Training Workshop on "Effective Resource Management" for University Deans and Chairs
* Prince Mohammed University, Saudi Arabia. Undergraduate Core Curriculum Development
* Personnel Search Consultant
* University of Helsinki, Finland
* Academia Sinica, Taipei, Taiwan
* ***Training Workshops Conducted***

|  |
| --- |
| • New Deans Workshop - Council of Colleges of Arts and Sciences - Facilitator for Williamsburg, VA. |
| • Effective Resource Management Workshop* United Arab Emirates University
* University of Nevada, Las Vegas
* University of North Texas

• Creating Winning Grant Proposals* Autonomous University of the State of Mexico
* University of North Texas
* City University of Hong Kong
* Education University of Hong Kong
* University of Texas – San Antonio
* Midwester State University – Wichita Falls
 |

* Other Consulting - Advising
* University of the Central Caribbean - Department of Physiology
* Texas International Education Consortium
* International Isotopes Incorporated
* Bigelow Aerospace Corporation
* Jwala Technologies, Inc. (Director)
* Lucid Med Tech II, Inc. (Chief Scientific Officer)
* Higher Education Service

System, Regional and State Higher Education Committees and Councils

|  |  |
| --- | --- |
| • 2014-2015 | UNT System Executive Council |
| • 2010-2015 | Texas Council of Chief Academic Officers |
| • 2001-2003 | Advisory Board Member, the Institute for Diversity in Engineering and Society (IDEAS), North Texas |
| • 2001-2002 | Advisory Board Member, Futures in Research, Science and Technology (FIRST), Mountain View Community College, Dallas, TX |
| • 2000-2003 | Executive Council Member, Texas Association of Deans of Liberal Arts and Sciences |
| • 2001 | Deans Circle, Institute for Diversity in Engineering and Society (IDEAS) |
| • 1998 | University and Community College System of Nevada Regents’ Researcher Award Selection Committee |
| • 1996-1997 | Director, Southern Nevada School Science Fair |
| • 1992 | University and Community College System of Nevada Regents’ Researcher Award Selection Committee |

University Committees (UNT 1998-present; UNLV 1992-1998; UMASS, 1978-1991)

|  |  |
| --- | --- |
| • 2018-present | University Distinguished Research Professor Selection Committee |
| • 2018-present | International Risk Oversight Committee |
| • 2013-2015 | China Advisory Council (Co-Chair) |
| • 2011-2015 | Distinguished Alumni Awards Selection Committee |
| • 2011-2015 | President’s Diversity Council |
| • 2010-2015 | Provost’s Council (Chair) |
| • 2010-2015 | University Gift Acceptance Committee |
| • 2010-2014 | President’s Capital Projects Council |
| • 2010-2014 | President’s Finance Council |
| • 2010-2015 | President’s Enrollment and Retention Council |
| • 2010-2015 | President’s Cabinet |
| • 2009-2010 | Institute for the Advancement of the Arts Steering Committee |
| • 2008-2010 | Information Technology Council (Chair) |
| • 2007 | Search Committee for Provost and Vice President for Academic Affairs |
| • 2006-2008 | UNT System Life Sciences Council (Co-Chair) |
| • 2005-2008 | Academic Planning Council |
| • 2005 | RCM Sub-Committee on Indirect Costs (Chair) |
| • 2004-2005 | Task Force on Centers and Institutes (Chair) |
| • 2004-2006 | UNT Critical Incident Management Team |
| • 2004-2007 | UNT Master Planning Committee |
| • 2003 | Search Committee for CEO and President of University of North Texas Foundation |
| • 2002 | Search Committee for Vice President for Research and Technology Transfer |
| • 2002-2003 | Campus Beautification Committee |
| • 2001-2004 | Chemistry Building Construction Steering Committee |
| • 2001-2002 | Executive Committee – University Planning Council |
| • 2001-2002 | Academic Affairs Committee |
| • 2001 | Institutional Information System Steering Committee |
| • 2001 | Enrollment Management Steering Committee |
| • 2000 | Task Force on Honors Program |
| • 2000-2008 | Teacher Education Council |
| • 2000  | Donor Relations Committee |
| • 1999-2000 | Search Committee for Dean, School of Music, (Chair) |
| • 1999-2000 | Assessment Advisory Council |
| • 1998-2001 | Facilities Planning Committee |
| • 1998-2004 | University Planning Council |
| • 1998 | Minority Recruitment and Retention Task Force |
| • 1998 | Undergraduate Student Retention Steering Committee |
| • 1997-1998 | Barrick Distinguished Scholar Award Committee |
| • 1997-1998 | Gerentology Certificate Program Advisory Committee |
| • 1997 | Bigelow Endowed Chair Search Committee - (Chair) |
| • 1996-1997 | UNLV 40th Anniversary Planning Committee |
| • 1996-1997 | President’s Task Force on Planning - Subcommittee on Strategic Initiative Funding |
| • 1995-1997 | President’s Task Force on Planning - General Member |
| • 1996-1997 | Women’s Studies Steering Committee |
| • 1996  | Faculty Discipline Hearing Officer |
| • 1995-1996 | Research Strategic Planning Committee (Co-Chair) |
| • 1995-1996 | *Ad hoc* Committee for Distance Education Evaluation |
| • 1995  | Development Council |
| • 1995-1997 | UNLV Academic Council |
| • 1994-1995 | Research Issues Resolution Committee |
| • 1993-1995 | Executive Committee of the NIH “Bridges to the Baccalaureate Minority Recruitment Program” |
| • 1993-1994 | University Priority and New Program Review Committee |
| • 1988-1989 | Organization Committee for Biology Undergraduate Degree |
| • 1986-1991 | Graduate Operations Committee for Neuroscience and Behavior Ph.D. Program |
| • 1982-1985 | University Research Council |
| • 1982-1985 | Faculty Research Grant Committee |
| • 1984 | University Health Council |
| • 1985 | University Computer Use Committee |
| • 1981-1983 | Biomedical Research Support Grant Committee |

College Committees (UNT, College of Arts and Sciences, 1998-present; UNLV, College of Science and Mathematics, 1992-1998,: UMASS, College of Natural Sciences and Mathematics, 1978-1991)

|  |  |
| --- | --- |
| • 2016-2017 | College of Science and Mathematics Planning Committee |
| • 2005 | Strategic Planning Committee (Chair) |
| • 1998-2010 | Personal Affairs Committee (Chair) |
| • 1995-1997 | Financial Aid Committee (Chair) |
| • 1995-1997 | Executive Committee (Chair) |
| • 1994-1995 | Computing Services Committee |
| • 1993-1994 | Commencement Committee |
| • 1992-1998 | Executive Committee |
| • 1990-1991 | Organismal and Evolutionary Biology Ph.D. Organization Committee (Co-chair) |
| • 1980 | Dean's Search Committee for Zoology Department Chair |

Departmental Committees (UNT, 1998-present; UNLV 1992-1998: UMASS, 1978-1991)

|  |  |
| --- | --- |
| • 1997 | Animal Physiologist Search Committee |
| • 1992-1998 | Field Station Committee (Chair) |
| • 1992 | Invertebrate Physiologist Search Committee (Chair) |
| • 1990-1991 | Undergraduate Physiology Concentration (Chair) |
| • 1988-1990 | Personnel Committee (Promotions and Tenure Committee) |
| • 1979-1985 | Graduate Operations Committee |
| • 1980-1985 | Qualifying Exam Committee |
| • 1980 | Ad Hoc Committee for Development of Animal Facilities |
| • 1978-1981 | Colloquium Committee (Chair) |

* Professional Service - National / International Committees

Society and Professional Associations

|  |  |
| --- | --- |
| • 2004 | Nominations Committee, Division of Comparative Physiology and Biochemistry, Society for Integrative and Comparative Biology |
| • 2000 | Case Study Facilitator, Council of College of Arts and Science Annual Meeting, Toronto, Canada |
| • 1999-2002 | Publication Committee (Chair) - Society for Integrative and Comparative Biology |
| • 1996-1998 | American Heart Association Research Committee - Nevada Affiliate |
| • 1995-2002 | Publication Committee - Society for Integrative and Comparative Biology |
| • 1993 | George A. Bartholomew Award Committee - American Society of Zoologists (Division of Comparative Physiology and Biochemistry) |
| • 1991-1992 | Standing Committee on Comparative Physiology and Biochemistry, Systematics Agenda 2000, NSF |
| • 1990 | Nomination Committee for Executive Committee, Division of Comparative Physiology and Biochemistry, American Society of Zoologists |
| • 1984-1986 | Member of Executive Committee, Division of Comparative Physiology and Biochemistry, Am. Soc. of Zoologists |
| • 1985 | American Society of Zoologists (Division of Comparative Physiology and Biochemistry): International Union of Biological Sciences (1988)- Program Committee |
| • 1984 | American Society of Zoologists (Division of Comparative Physiology and Biochemistry): International Union of Physiological Sciences (1986)- Program Committee |
| • 1984 | American Society of Zoologists (Division of Comparative Physiology and Biochemistry) - Committee for Selection of Best Student Paper |

National Research Funding Panels

|  |  |
| --- | --- |
| • 2020 | Animal Biology Experimentation Flight Panel, NASA, Panel Chair |
| • 2015 | Integrative Animal Biology – National Science Foundation – Panel Member |
| • 2012 | Animal Biology Experimentation Flight Panel, NASA, Panel Chair |
| • 2009 | Animal Biology Experimentation Flight Panel, NASA, Panel Chair |
| • 2004 | American Heart Association – Western Region - Panel Member |
| • 2004 | STEP Undergraduate Education Panel - National Science Foundation. - Panel Member |
| • 2001 | Animal Biology Experimentation Flight Panel, NASA, Panel Chair |
| • 1998-2001 | Integrative Animal Biology - National Science Foundation - Panel Member |
| • 1997 | Professional Opportunities for Women in Research and Education - National Science Foundation -Panel Member |
| • 1992 | Outstanding Young Investigator Awards -National Science Foundation - Panel Member |
| • 1986 | International Programs: Postdoctoral Fellowships - National Science Foundation - Panel Member |

* Membership In Administrative Professional Organizations

|  |  |
| --- | --- |
| • 2010-2015 | APLU Council on Academic Affairs |
| • 1999-2010 | Texas Association of Deans of Liberal Arts and Sciences |
| • 1995-1997 | American Conference of Academic Deans |
| • 1995-2010 | Council of Colleges of Arts and Sciences |
| • 1995-1997 | Rocky Mountain Deans Association |

### *5. TEACHING AND MENTORING*

Classroom Instruction

University of North Texas, Dept. of Biological Sciences (1998-present)

• Metabolic Physiology (Graduate)

• The Biology of Extreme Environments (Graduate)

• Animal Adaptation: Mechanisms for Survival (Graduate)

• The Biology of Extreme Environments (Undergraduate)

University of Nevada, Las Vegas, Dept. of Biological Sciences (1992-1996)

• Human Anatomy and Physiology

• Bioenergetics

• Ethics in Science

University of Massachusetts, Department of Zoology (1978-1991)

 • Introductory Zoology

 • Human Anatomy and Physiology

 • Introductory Physiology

 • Comparative Physiology

 • Physiology Laboratory

 • Topics in Respiratory Physiology

 • Member of Undergraduate Program in Marine and Coastal Sciences

 • Member of Graduate Program in Neuroscience and Behavior

 • Member of Graduate Program in Organismal and Evolutionary Biology

University of British Columbia, Department of Zoology (1977)

 • Animal Physiology

University of East Anglia (1973-1976)

 • Demonstrator in Vertebrate and Invertebrate Physiology

 • Invertebrate Taxonomy

 • Vertebrate and Invertebrate Morphology

Graduate Students Mentored (As Major Advisor)

Doctors of Philosophy (graduation date)

1. Steven Williams (current student)
2. Christopher Melendez, (current student)
3. Wanasa Frifer. (current student)
4. Lindsey Daniel. (current student)
5. Alicia Dunton – 2023. Neurotoxic Effects of Polycyclic Aromatic Hydrocarbons in Vertebrates: From Behavioral to Cellular Levels .
6. Naim Martinez Bautista – 2019. Transgenerational Responses to Environmental Stressors in Vertebrates: From Organisms to Molecules.
7. Melissa Lewallen – 2019. Metabolic Physiology of Planarians
8. Sheela Sadruddin – 2017. Optimization of In Vitro Mammalian Blastocyst Development: Assessment of Culture Conditions, Ovarian Stimulation and Experimental Micro-manipulation.
9. Josele Flores Santin– 2016.  Cardiovascular Fetal Programming in Quail (Colinus virginianus), an Avian Comparative Model.
10. Fernando Mendez-Sanchez - 2015. Environmental Modulation of the Onset of Air-breathing of the Siamese Fighting Fish and the Blue Gourami
11. Kelly Reyna – 2010. Thermal Stress During Pre-incubation Induces Subsequent Developmental Plasticity in Northern Bobwhites.
12. Francis Pan – 2009. Metabolic, Cardiac and Ventilatory Regulation in Early Larvae of the South African Clawed Frog, Xenopus laevis.
13. Greta Bolin – 2009. Incubation Humidity as an Environmental Stressor on the Osmoregulatory Developmental PROGRAM OF THE CHIcken, Gallus gallus domesticus.
14. Tara Blank – 2009. Cardio-respiratory Ontogeny and the Transition to Bimodal Respiration in an Air-breathing Fish, the Blue Gourami (Trichogaster trichopterus): Morphological and Physiological Development in Normoxia and Hypoxia.
15. Dao Ho - 2008. Morphological and Physiological Developmental Consequences of Parental Effects in the CHICKEN Embryo (Gallus gallus domesticus) and the Zebrafish Larva (Danio rerio).
16. Bonnie Myer, 2007. A contravention of Established Principles of Interspecific Allometric Metabolic Scaling in Developing Silkworms, Bombyx mori. University of North Texas.
17. Brian Bagatto, 2001. The Developmental Physiology of the Zebrafish: Influence of Environment on Metabolic and Cardiovascular Attributes. University of North Texas.
18. Dane Crossley, 1999. Development of Cardiovascular Regulation in Embryos of the Domestic Fowl (Gallus gallus), with Partial Comparison to Embryos of the Desert Tortoise (Gopherus agassizi). University of North Texas.
19. Paul Territo, 1996. The Ontogeny of Cardio-Respiratory Support for Metabolism, University of Nevada, Las Vegas.
20. Tobias Wang, 1993 (co-advisor) Control of Breathing and Arterial Blood Gases in Reptiles and Amphibians, University of Aarhus, Denmark, and University of Nevada, Las Vegas.
21. Lucy Ping-Chun Hou, 1991. Development of Hemodynamic Regulation in the African Clawed Toad Xenopus laevis, University of Massachusetts, Amherst.
22. XiXi Jia, 1991. Chemoreceptor Modulation of Gill Ventilation in the Larval Bullfrog Rana catesbeiana, University of Massachusetts, Amherst.
23. Robert Infantino, 1991. Ontogeny of Ventilatory Regulation in the bullfrog Rana catesbeiana, University of Massachusetts, Amherst.
24. Carl Reiber, 1991. The Hemodynamics of the Crustacean Open Circulatory Systems: Hemolymph Flow in the Crayfish (Procambarus clarkii) and the lobster (Homarus americanus), University of Massachusetts, Amherst.
25. Peter Kimmel, 1990. Ontogeny of the Regulation of Cardiovascular Physiology in the Bullfrog Rana catesbeiana, University of Massachusetts, Amherst.
26. Alan Pinder, 1985. Respiratory Physiology of the Frogs Rana pipiens and Rana catesbeiana: Influence of Temperature and Hypoxia, University of Massachusetts, Amherst.
27. Dana Quinn, 1982. The Exercise Physiology of Rana catesbeiana during Recovery from Exercise to Exhaustion, University of Massachusetts, Amherst.

Masters of Science / Masters of Arts in Science (graduation date)

1. Alexis Auzenne – 2023. Hypoxia-Induced Cardiac Arrest Alters central Nervous System Concentrations of the Glyt2 Glycine Transporter In Zebrafish (Danio rerio)
2. Karem Vazquez Roman – 2020. M.Sc. Metabolic Responses to Crude Oil During Very Early Development in the Zebrafish (Danio rerio).
3. Wenasa Frifer – 2016 . M.Sc. Respiratory Responses in the Freshwater Snail (Pomacea bridgesii) are Differentially Affected by Temperature, Body Mass and Oxygen Availability.
4. Shaun Jones – 2015. M.Sc. Phenotypic Morphological Plasticity Induced By Environmental Salt Stress in the Brine Shrimp, Artemia
5. Melissa Lewallen, 2012. M.Sc. Chronic Hypoxia and Hyperoxia Modifies Morphology and VEGF Expression of the Lungs of the Developing Chicken (Gallus gallus domesticus).
6. Josie Rossitto, 2012. M.Sc. Beta-Adrenergic Blockade Via Atenolol Exposure in the Developing Chicken (Gallus Gallus Domesticus) and its Effects on Embryonic Blood Pressure, Heart Rate, and Renal Morphology.
7. Travis Alvine, 2011. M.Sc. Retinoic acid treatment affects development of the kidney and osmoregulatory system in the developing chicken, Gallus gallus.
8. Sylvia Ruck, 2010. M.Sc. Induced bradycardia effects on angiogenesis, growth, and development in early development in chicken embryos, Gallus domesticus.
9. Matt Gore, 2007. M.Sc. Influence of parental swimming stamina on the cardiac and metabolic perforamance of larval zebrafish (Danio rerio).
10. Marc Wuerdeman, 2007. M.Sc.
11. Jessie Brown, 2004. M.Sc. Heart Rate and Oxygen Consumption During the Critical Prenatal Period in Chicken Embryos (Gallus gallus): Influence of Light Cues and the Onset of Pulmonary Ventilation.
12. Sheva Khorrami, 2004. M.Sc. Hematocrit, Hematocrit Regulation and its Effect On Oxygen Consumption in the Late Stage Chicken Embryos (Gallus gallus).
13. Nora Elmonoufy, 2003. M.Sc. Differential Effects of Hypoxia on Morphology and Hematology of the Quail Coturnix coturnix. University of North Texas.
14. Juli Black, 2003. M.Sc. Developmental patterns of metabolism and hematology in the late stage chicken embryo (Gallus domesticus) at two incubation temperatures. University of North Texas.
15. Natasha Capell, 2002. M. A.
16. Brett Clarke, 1997. M.Sc. The Influence of Blood Flow on Angiogenesis in the 3 Day Chick Embryo. University of Nevada, Las Vegas.
17. Shilpa Thanker, 1998. M.A.Sc. Changes in Dorsal Aortic Diameter in Day 3 chicken embryos in Response to Invasive Sham Aortic Ligation: Assessment of the Ligation Technique.
18. Dulynn Hastings, 1994. M.Sc. The Metabolic Rate of Xenopus laevis: Interactional Influences of Development and Short Term Hypoxia. University of Nevada, Las Vegas.
19. Henry Bermudez, 1994. M.Sc. The Mechanism and Function of Transient Pressure fluctuations occurring in the lungs During Diving in the Turtle, Trachemys [=Pseudemys] scripta elegasn. University of Nevada, Las Vegas.
20. Lucy Ping-Chun Hou. 1987. M.Sc. Allometry of Cardiac and Hematological Variables in Developing Mice (Mus musculus): Intraspecific vs. Interspecific Allometry. University of Massachusetts, Amherst.
21. Rosalba Sacca, 1982. M.Sc. Oxygen Partitioning Between the Skin, Gills and Lungs of the Air-Breathing Reedfish, Calamoicthys calabaricus. University of Massachusetts, Amherst.

Post-Doctoral Fellows and Research Scientists Supervised

1. Gil Martinez Bautista, 2021-present
2. Amelie Crespel, 2016-2017 (Marie Curie Fellow)
3. Prescilla Perrichon, 2015-2018 (Research Scientist)
4. Benjamin Dubansky, 2013-2018 (Research Scientist, CTO)
5. Casey Mueller, 2011-2013 (Assistant Professor)
6. Sarah Andrewartha, 2010-2011 (Research Scientist)
7. Francis Pan, 2010 (Research Scientist)
8. Dao Ho, 2008-2010 (Science Division Chief, US Navy)
9. Bonnie Myer, 2007-2009 (Lecturer)
10. Edward Dzialowski, 1999-2002 (Professor & Associate Dean)
11. Jordi Altimiras, American Heart Association Fellow, 1995-1997 (Professor)
12. Regina Fritsche, 1994-1995 (AstraZeneca Corporate Executive)
13. Tobias Wang, 1993-1994 (Professor and Chair)
14. Stephen Warburton, NIH Fellow), 1992-1994 (Associate Professor - retired)
15. Francis Ragsdale, 1992-1993 (Professor)
16. Andrew Gannon, 1990-1992 (Professor)
17. Alan Pinder, 1985-1987 (Associate Professor)
18. Timothy Vitalis, Parker B. Francis Fellow), 1987-1990 (Research Scientist)
19. Bernd Pelster, German Research Council Fellow), 1989-1990 (Professor, Dean)
20. Allan Smits, Parker B. Francis Fellow, 1984-1986 (Professor, Associate Dean)

### *7. GRANTS AND EXTRAMURAL RESEARCH ACTIVITIES*

Federal and State Research Grants

|  |  |  |
| --- | --- | --- |
| • 2021-2025 | Natnl. Sci. Found. (Int. Org. Biol.) | $1,150,000 |
| • 2018-2019 | Department of Defense – US Army | $90,000 |
| • 2018-2020 | Gulf of Mexico Research Initiative | $600,000 |
| • 2015-2019 | Natnl. Sci. Found. (Int. Org. Biol) | $300,000 |
| • 2015-2017 | Gulf of Mexico Research Initiative | $856,318 |
| • 2010-2014 | Natnl. Sci. Found. (Int. Org. Biol) | $806,255 |
| • 2009-2011 | Natnl. Sci. Found. (Int. Org. Biol) | $198,344 |
| • 2008-2011 | Natnl. Sci. Found .(SciSIP) | $393,688 |
| • 2006-2010 | Natnl. Sci. Found. (Int Biol and Neurosci) | $677,227 |
| • 2002-2006 | Natnl. Sci. Found. (Int Biol and Neurosci) | $601,000 |
| • 2001-2002 | Natnl. Sci. Found. (Math. Sci. Infra.) (Co-PI) | $100,000 |
| • 2001-2002 | Natnl. Sci. Found. (Intern. Programs) | $25,000 |
| • 1999-2001 | Texas Advanced Research Program | $99,600 |
| • 1999-2000 | Natnl. Sci. Found. (Int Biol and Neurosci) | $51,544 |
| • 1997-2001 | Natnl. Sci. Found. (Int Biol and Neurosci) | $287,000 |
| • 1995-1996 | American Heart Association (Co-PI) | $24,722 |
| • 1993-1997 | Natnl. Sci. Found. (Int Biol. and Neurosci) | $382,000 |
| • 1990-1993 | Natnl. Sci. Found. (Intern. Programs) | $34,562 |
| • 1989-1992 | Natnl. Sci. Found. (Phys. Proc.) | $234,500 |
| • 1986-1989 | Natnl. Sci. Found. (Reg. Biol.) | $242,000 |
| • 1985 | Natnl. Sci. Found. (Reg. Biol.) (Co-PI) | $13,300 |
| • 1984 | Natnl. Sci. Found. (Reg. Biol.) (Co-PI) | $3,000 |
| • 1983-1986 | Natnl. Sci. Found. (Reg. Biol.) | $275,190 |
| • 1980-1983 | Natnl. Sci. Found. (Reg. Biol.) | $100,850 |
| • 1980 | Natnl. Sci. Found. (Inst. Sci. Equip. Program) | $34,008 |

Private Foundation Grants and International Agencies

|  |  |  |
| --- | --- | --- |
| • 2020 | AstraZeneca | $100,000 |
| • 2018 | AstraZeneca | $65,220 |
| • 1997 | Max Baer Heart Fund | $5,000 |
| • 1992 | Japan Society for the Promotion of Science | $5,000 |
| • 1990 | Japanese Ministry of Education., Science & Culture | $5,000 |
| • 1990 | State Government of Sao Paulo, Brazil | $3,500 |
| • 1988 | Parker B. Francis Foundation (Co-PI) | $136,000 |
| • 1985 | Puritan-Bennett Foundation (Co-PI) | $56,000 |
| • 1984 | Puritan-Bennett Foundation (Co-PI) | $24,180 |

University Grants (Competitive Review)

|  |  |  |
| --- | --- | --- |
| • 1999 | Unswachoke International Collaboration Grant (UNT) | $3,600 |
| • 1992 | University Research Grant (UNLV) | $3,000 |
| • 1979-1988 | Biomedical Research Support Grants (UMASS) | $25,000 |
| • 1978-1987 | Faculty Research Grant (UMASS) | $17,820 |
| • 1983 | Healey Endowment Grant (UMASS) | $4,800 |

Training Grants

|  |  |  |
| --- | --- | --- |
| * 2021-2026
 | National Institutes of Health (Co-PI) | $2,195,228 |

|  |  |  |
| --- | --- | --- |
| • 1995-1996 | Dept. of Energy Training Grant for Minority Students(Co-PI) | $29,663 |
| • 1995-96 | NIH Bridges to the Future Program for Minority Students (Co-PI) | $173,251 |

Editorships And Membership In Editorial Boards

|  |  |
| --- | --- |
| • 2024-present | Associate Editor, *Physiological Reports* |
| • 2020-2024 | Specialty Chief Editor, *Frontiers in Developmental Physiology* |
| • 2009-2017 | • 2020-2024, Frontiers in Aquatic Physiology |
| • 2003-2018 | Founding Series Editor, *Ecological and Environmental Physiology*, a monograph series published by Oxford University Press |
| • 1999 | Guest editor for *Comparative Biochemistry and Physiology A: Molecular and Integrative Physiology. Vol 124A* |
| • 1998-2015 | Editorial Board, *University of North Texas Press,* University of North Texas, Denton, Texas |
| • 1988-1995 | Editor-in-Chief, *Physiological Zoology* (now *Physiological Biochemistry and Zoology)*, published by University of Chicago Press, Journals Division |
| • 1986-2000 | Editorial Board, *Zoophysiology*, (monograph series published by Springer-Verlag, Berlin) |
| • 1986 | Guest editor for *Journal of Morphology: Centennial Supplement #1* |

Memberships In Learned Societies

|  |  |
| --- | --- |
| • 1995-present | American Physiological Society |
| • 1987-1995 | Council of Biology Editors |
| • 1986-1995 | American Assoc. for the Advancement of Science (USA) |
| • 1985-1989 | Society For the Preservation of Old Fishes |
| • 1978-1996 | American Society of Zoologists |
| • 1996-present | Society for Comparative and Integrative Biology |
| • 1973-1991 | The Society for Experimental Biology (Britain) |
| • 1972-1990 | Canadian Society of Zoologists (Canada) |

Membership In Science Advisory Boards

|  |  |
| --- | --- |
| • 2006-2012 | National Science Foundation Advisory Board – Biology Directorate |
| • 2002-2009 | Science Advisory Board, Jwala Technolgies Inc. |
| • 2002-present | External Advisory Board, North Dakota State NSF-EPSCoR Program |
| • 2002-2004 | Research Advisory Council, Biotechnology Research Partnership (BRP) consortium with Univ. Texas, Arlington, Univ. of North Texas Health Science Center and Univ. of North Texas, Member |
| • 2000 | Science Advisory Board, National Institute for Discovery Science, Chair |
| • 1998-2004 | Science Advisory Board, National Institute for Discovery Science, Member |
| • 1996-1998 | Corporate Board of Directors, National Institute for Discovery Science, Member |

Formal Extramural Research/Training Activities

|  |  |
| --- | --- |
| • 1996 | Invited Lecturer for Amphibian Physiology Section of “Graduate Topics in Biology”. University of Puerto Rico, San Juan, Puerto Rico |
| • 1990 | Invited Lecturer for Gas Transport and Circulation Section of "Graduate Topics in Comparative Physiology" University of California, Irvine |
| • 1990 | Visiting Professor, Univ. of Sao Paulo, Brazil |
| • 1985 | Visiting Scholar, University of Melbourne, Australia |
| • 1983 | Visiting Investigator, Naos Marine Laboratory, Smithsonian Tropical Research Institute, Panama |
| • 1982 | Invited Lecturer for Gas Transport and Circulation Section of "Graduate Topics in Comparative Physiology" University of California, Irvine |
| • 1980 | Visiting Investigator, Univ. of Aarhus, Denmark |
| • 1979 | Alpha Helix expedition to Palau, Western Caroline Islands |
| • 1976 | Visiting Lecturer, University of Aarhus, Denmark |

### *8. PLENARY LECTURES, SYMPOSIA AND SEMINARS*

* Plenary and Honorary Lectures

|  |  |
| --- | --- |
| * 2020
 | David Randall Lecture, University of British Columbia, Vancouver, British Columbia, Canada |
| • 2018 | Plenary Lecture, Annual Meeting of the German Zoological Society, Greifswald, Germany |
|  | Plenary Lecture, Annual Meeting of Incubation and Fertiltiy Research Group. Edinburgh, Scotland |
| • 2017 | Plenary Lecture, Annual Meeting of the Society for Chaos Theory in Psychology and Life Sciences, Cininnati, OhioAugust Krogh Distinguished Lecturer, American Physiological Society, Chicago, Illinois |
| • 2015 | Plenary Lecture, Fisheries and Aquaculture Conference 2015, Guilin, China |
|  | Plenary Lecture, BEACON Congress on Evolution in Action, Michigan State University, East Lansing, Michigan |
| • 2014 | Davidson Annual Lecture, Department of Biology, Baylor University, Waco, Texas. |
| • 2013 | Keynote Speaker, Spring Convocation, Mountain View Community College, Dallas, Texas, USA |
| • 2012 | Inaugural Kjell Johansen Lecture, University of Aarhus, Aarhus, Denmark |
| • 2008 | Plenary Lecture, 32nd Annual Larval Fish Conference, Kiel, Germany |
| • 2002 | Diebold Lecture, Kalamazoo College, Michigan, USA |
| • 2002 | Plenary Lecture, Symposium on Ontogeny of Cardiorespiratory Mechanisms: An Evolutionary Perspective, Experimental Biology Meeting, New Orleans, USA |
| • 2001 | Plenary Lecture, American Association for the advancement of Science - South West and Rocky Mountain Regional Meeting. Denton, Texas |
| • 2000 | Plenary Lecture, Sixth International Workshop on Perinatal Physiology in Birds. Berlin, Germany |
| • 1998 | Annual W. S. Hoar Lecture, University of British Columbia, Vancouver, British Columbia, Canada |
| • 1998 | Plenary Lecture, International Conference on Animal Adaptation, Academia Sinica, Taipei, Taiwan |
| • 1997 | Plenary Lecture, International Workshop on Developmental Physiology, Gothenberg, Sweden |
| • 1995 | Annual Phi Sigma Lecturer, Univ. of Texas, Arlington |
| • 1993 | Annual Williams Lecturer, Univ. of Akron |
| • 1990 | Plenary Lecture, Annual meeting of Japanese Society of Comparative Physiologists and Biochemists |
| • 1988 | Annual Dunaway-Burnham Visiting Lecturer, Dartmouth College Medical School |

* Invited Symposium/Workshop Presentations

|  |  |
| --- | --- |
| 2023 | Symposium in Honor of James Hicks. University of California, Irvine. Irvine, California, USA. |
| 2022 | Krogh Nobel Prize Centenary Symposium. University of Copenhagen, Denmark. |
| 2020 | Symposium on Evolutionary Biology and Ecology. University of Greifswald, Germany |
| 2018 | Symposium on Phenotypic Plasticity and Epigenetics: Annual Meeting of Society for Advancement of Chicano and Native American Students, San Antonio, USA. |
| 2017 | Symposium on Morphology Meets Physiology: A Tribute to Pierre Laurent. Society for Experimental Biology, Gothenburg, Sweden |
| 2016 | Symposium on The Physiology and Genetics of Fishes, Autonomous Juarez University of Tabasco, Villahermosa, Mexico |
|  | Symposium on Physiological Systems in Birds and Mammals, Jaboticabal, Sao Paulo, Brazil |
|  | Open Access Publishing Symposium, University of North Texas, Denton, Texas. |
| 2015 | Fisheries and Aquaculture Conference 2015. Guilin, China |
|  |
| Symposium onHow Environmental Influences on Parents and Early Developmental Stages Determine “Winners and Losers”. **Society for Experimental Biology, Prague, Czech Republic.** |
| 2014 | Symposium on **Challenges from the Very Beginning: Developmental Physiology, Epigenetics, and Critical Windows. American Physiological Society, San Diego, CA.** |
| Symposium on Epigenetics: Molecular Through Organismal Influences. SICB Annual Meeting, Austin, Texas |
| JEB Workshop on Epigenetics, Banff, Alberta, Canada |
| 2012 | BioEnergetics Workshop, Thermodynamics Conference. Autonomous University of the State of Mexico, Toluca, Mexico |
| Comparative Physiology Symposium. Society for Experimental Biology. Sarteano, Italy |
| Workshop on Cardiovascular Physiology. Aarhus University, Aarhus, Denmark |
| Symposium on Women in Science. 99th Indian Science Congress. Bhubeneswar, India |
| 2010 | Symposium on Environmental Adaptations of Cardio-Respiratory Systems. APS Intersociety Meeting, Westminster, CO. |
| Symposium on Integrative Developmental Systems: Where Developmental Biology, Physiology and Ecology Meet. 34th Larval Fish Conference, Santa Fe, NM. |
| 2009 | Symposium on Developmental Physiology and Genetics. Society for the Advancement of Chicano and Native American Students Annual Meeting, New Orleans, LA. |
| Symposium on Oxygen Stressors, Development And Adaptations Experimental Biology Annual Meeting, New Orleans, LA. |
| 2006 | Symposium on Physiological Complexity: Recognition, Definitions, Modeling and Predictions, American Physiological Society Comparative Physiology Conference, Virginia Beach, VA. |
| 2004 | Symposium on Ontogeny of Physiological Regulatory Mechanisms: Fitting into the Environment. Society for Integrative and Comparative Biology, Annual Meeting, New Orleans, LA. |
| 2002 | Symposium on Cardiovascular Developmental Physiology. Experimental Biology Annual Meeting, New Orleans, LA. |
| Bilateral Seminar of Cooperative Research on Development of Physiological Functions in Avian Embryos. Muroran Institute of Technology, Muroran, Japan |
| 2001 | Symposium on “From First Beat to Last”. Society for Experimental Biology Annual Meeting, Canterbury, U.K. |
| 2000 | Sixth International Workshop on “Perinatal Physiology in Birds”. Berlin, Germany |
| 1999 | Symposium on "Functional Ontogeny of Organ Systems". Annual Meeting of the Deutsche Zoologische Gesellschaft. Innsbruck, Austria |
| 1997 | International Symposium on “Animal Adaptation”. Academic Sinica, Taipei, Taiwan. “Developmental Physiology: Past, Present and Future” |
| Workshop on “Animal Physiology Techniques”, National Taiwain Normal University, Department of Biology, Taipei, Taiwan |
| Third Workshop on Comparative Physiology. “Physiological Changes During Ontogeny”, Sao Paulo, Brazil |
| International Workshop on “Homeostasis and Environment During Development. Gothenberg, Sweden |
| 1995 | American Society of Zoologists Symposium on "The Regulation of Arterial Blood Gases ", Annual Meeting, Washington, D. C. |
| International Symposium on Hypoxia, Session on “Comparative Physiology of Respiratory Pigments”. Lake Louise, Alberta, Canada |
| 1994 | American Physiological Society Symposium on "Ontogeny of Cardiovascular Systems", San Diego, California |
| International Symposium on "Metabolism and Respiration in Vertebrates". Sao Carlos, Brazil |
| International Conference on "Environmental Physiology and Metabolism". Friedrichroda, Germany; Japanese Society for Comparative Physiology and Biochemistry, Tokyo, Japan |
| 1993 | Italian Association of Cardiovascular Sciences: "International Workshop on Determinants of Cardiac Shape and Function". Trento, Italy |
| 1992 | American Society of Zoologists Symposium on "The Form and Function of Open and Closed Circulations", Annual Meeting, Vancouver, B.C., Canada |
| 1991 | American Society of Zoologists Symposium Current Perspectives on the "Evolution, ecology and Comparative Physiology of Bimodal Breathing", Annual Meeting, Atlanta, GA. |
| 1990 | "Plenary Lecture", Japanese Society of Comparative Biochemistry and Physiology, Japan |
| Symposium on "Gas Exchange, Gas Transport, and Acid-base Regulation in Lower Vertebrates" - Max Planck Institute for Experimental Medicine Gottingen, West Germany |
| American Society of Zoologists Symposium on "The Publication Process", Annual Meeting, San Antonio, Texas |
| American Society of Zoologists Symposium on "The Complete Crab: Physiological Ecology of Everyday Life and Special Events", Annual Meeting, San Antonio, Texas |
| American Society of Zoologists Symposium on "Amphibian Metamorphosis", Annual Meeting, San Antonio, Texas |
| 1989 | International Union of Physiological Sciences - Satellite Symposium on "Strategies on Physiological Adaptation", Copenhagen, Denmark |
| 1988 | Spring Systematics Symposium on "Evolutionary Innovations: Pattern and Processes", Field Museum, Chicago, Illinois |
| 1986 | American Society of Zoologists Symposium on "Cutaneous Exchange of Gases and Ions", Annual Meeting, Nashville, Tennessee |
| International Union of Physiological Sciences - Satellite Symposium on "Diving and Hypometabolism", Cowichan Bay, British Columbia, Canada |
| National Science Foundation Workshop on "New Directions in Physiological Ecology", Washington, D.C. |
| Society for Experimental Biology Symposium on "Bimodal Respiration", Nottingham, England |
| Canadian Society of Zoologists Symposium on "Respiratory Strategies in Non-mammalian Vertebrates", Annual Meeting, Saskatoon, Canada |
| 1985 | NATO Conference on "Evolutionary Biology of Primitive Fishes", Bamfield Marine Station, Vancouver Island, Canada |
| 1984 | American Society of Zoologists Symposium on "The Biology and Evolution of Lungfishes", Annual Meeting, Denver, Colorado |
| American Society of Zoologists Symposium on "Cardiovascular Adaptations in Reptiles", Annual Meeting, Denver, Colorado |
| Alfred Benzon Foundation Symposium on "Cardiovascular Shunts: Phylogenetic, Ontogenetic and Clinical Aspects", Royal Danish Academy of Sciences and Letters, Copenhagen, Denmark |
| 1983 | International Union of Physiological Sciences Satellite Symposium on "Respiration and Metabolism in Embryonic Vertebrates", University of Adelaide, Australia |
| 1982 | Symposium on "Gas Exchange, Gas Transport, and Acid base Regulation in Lower Vertebrates" - Max Planck Institute for Experimental Medicine Gottingen, West Germany |

Conference/Symposium Organizing

|  |  |
| --- | --- |
| • 2023 | Co-organizer, 7th International Workshop on Integrative Biology. Toluca, Mexico. |
| • 2017 | Co-organizer, Larval Fish Converence, Austin, Texas. |
| • 2015 | Co-organizer. Fisheries and Aquaculture Conference. Guilin, China |
| • 2014 | Organizer. Epigenetics: Molecular Through Organismal Influences. Society of Comparative and Integrative Biology, Annual Meeting. Austin, Texas |
| • 2009 | Co-Organizer of Symposium on Oxygen Stressors, Development And Adaptations Experimental Biology Annual Meeting, New Orleans, LA. |
| • 2006 | Organizer. Symposium on Physiological Complexity: Recognition, Definitions, Modeling and Predictions, American Physiological Society Comparative Physiology Conference, Virginia Beach, VA. |
| • 2002 | Co-organizer of International Roundtable on Comparative Developmental Physiology, Glen Rose, Texas |
| • 1999 | Co-organizer of International Symposium on Crustacean Physiology, International Union of Biological Sciences, Calgary, Alberta Canada |
| • 1998 | Co-organizer of International Symposium on Cardiac Rhythms in Animals: Regulation, Development and Environmental Influences, Muroran, Japan |
| • 1995 | Co-organizer of International Union of Biological Sciences Symposium on "Amphibian Models in the Study of Transcapillary and Lymphatic Fluid Movement", Manchester, England |
| • 1994 | Organizer of American Physiological Society Symposium on "Ontogeny of Cardiovascular Systems", San Diego, California |
| • 1994 | Co-organizer of "International Workshop on Developmental Physiology", University of Nevada, Las Vegas |
| • 1988 | Co-organizer of International Union of Biological Sciences Symposium on "Comparative Physiology of Tissue Fluid Balance", Baton Rouge, Louisiana |
| • 1986 | Co-organizer of National Science Foundation Workshop on "New Directions in Physiological Ecology", Washington, D.C. |
| • 1986 | Co-organizer of American Society of Zoologists Symposium on "Cutaneous Exchange of Gases and Ions", Nashville, Tennessee |
| • 1985 | Co-organizer of Alfred Benzon Foundation Symposium on "Cardiovascular Shunts: Phylogenetic, Ontogenetic and Clinical Aspects". Copenhagen, Denmark |
| • 1985 | Co-organizer of American Society of Zoologists Symposium on "Cardiovascular Adaptations in Reptiles", Denver, Colorado |

* INSTITUTIONAL SEMINARS (INVITED)

**United States**

• Alaska-Anchorage, University of - Biology

• Alaska-Fairbanks, University of - Biology

• Arizona, University of - Biology

• Arizona State University - Zoology

• Baylor School of Dentistry

• Baylor University – Biology (2 occasions)

• Baylor University – Environmental Sciences

• Boston University – Biology

• Brookhaven College – Biology

• Brown University - Physiology (2 occasions)

• California, Irvine, University of - Cellular/Developmental Biology

• California, Los Angeles, University of – School of Medicine

• Chicago, University of - Anatomy (2 occasions)

• Colorado, University of - Population/Organismic Biology

• Connecticut, University of - Biology

• Dartmouth University - Physiology (2 occasions)

• Eastern Connecticut State University - Biology

• Illinois, University of - Physiology and Biophysics

• Harvard Medical School - Cardiology

• Kalamazoo College - Biology

• Loma Linda University - Physiology

• Lovelace Medical Center - Bioengineering (2 occasions)

• Lovelace Medical Center - Oxygen Transport Group

• Louisiana State University - Biology

• Massachusetts, University of, Amherst - Zoology

• Massachusetts, University of, Amherst - Biology

• Miami, University of - Rosenstiel School of Marine and Atmospheric Science

• Midwestern State University (Wichita Falls, TX) - Biology

• Mount Holyoke College, Mass. - Biology (2 occasions)

• Nevada, Reno, University of - Ecology, Evolution and Conservation Biology

• Nevada, Las Vegas, University of - Biology (2 occasions)

• New Mexico, University of - Physiology (2 occasions)

• New Mexico, State University - Biology

• North Dakota, University of - Biology

• North Texas, University of, Health Sciences Center - Integrative Physiology

• North Texas, University of, Health Sciences Center - Cell. & Mol. Biology

• North Texas, University of - Biology (2 occasions)

• Northeastern University - Zoology

• Northern Arizona University - Biology

• Oklahoma, University of - Biology

• Rensselaer Polytechnic Institute - Biology

• Rutgers University, - Biology

• San Diego, University of - Biology

• Scripps Institution of Oceanography - Physiol. Research. Lab.

• Texas, Arlington, University of - Biology

• Texas, University of - South Western Medical Center, Pulmonary Division

• Texas, Austin, University of - Marine Science Laboratory

• Texas A & M University - Biology

• Texas Woman’s University - Biology

• Toledo, University of - Biology

• Tripler Army Medical Center - Clinical Physiology

• Tulsa University - Biology

• Wellesley College, Mass. - Biology

• Woods Hole Marine Biological Laboratory

International

 Australia

 • Baker Cardiovascular Research Institute, Melbourne

 • Queen Victoria Hospital, Melbourne - Pediatrics

 • Melbourne, University of - Zoology

 Brazil

 • Sao Paulo, University of - Physiology

 • Ribeiro Preto Campus, University of Sao Paulo - Physiology

 • Rio Claro Campus, University of Sao Paulo - Zoology

 • Federal University of Sao Carlos - Biology

 Canada

 • Acadia University – Biology

 • University of Alberta – Biology

 • University of British Columbia – Zoology (4 occasions)

 • University of Calgary - Biology (3 occasions)

 • Dalhousie University - Anatomy, Biology

 • McMaster University - Zoology

 • Mount Allison University - Biology

 • University of Saskatchewan - Physiology

 • St. Francis Xavier University - Biology

Denmark

 • University of Aarhus - Zoophysiology (4 occasions)

* University of Copenhagen

 England

 • University of East Anglia - Biological Sciences

 Hong Kong

 • City University of Hong Kong – Biology (2 occassions)

• City University of Hong Kong – Chemistry

• Hong Kong University – Biology

• Education University of Hong Kong - Biology

Mexico

 • Universidad Autónoma del Estado de Mexico - Biological Sciences

 • Universidad Autónoma del Estado de Mexico - Biotechnology

 • Universidad Juárez Autónoma de Tabasco - Aquaculture

Panama

 • Smithsonian Tropical Research Institute

 Puerto Rico

 • University of the Central Caribbean - Department of Physiology

 • University of Puerto Rico - Department of Biology

 • University of Puerto Rico - Department of Physiology and Biophysics

 Japan

 • Muroran Institute of Technology - Electrical Engineering

 • Muroran Institute of Technology - International Programs

 • Yamagata University School of Medicine - Physiology

 • Yamagata University Hospital

 • Tokyo Metropolitan University - Biology

 Scotland

* University of Glasgow, Biodiversity, Animal Health and Comparative Medicine
* University of the West of Scotland, Biology

Taiwan

 • National Taiwan University - Zoology

 • National Taiwan Normal University - Biology

 • Academia Sinica - Institute of Zoology (2 occasions)

 Vietnam

 • Nong Lam University (Institute of Biotechnology)

 • Vietnam International University (Biology)

 • Vietnam National University

###  *9. REVIEWING*

* Reviewing for Journals

|  |  |
| --- | --- |
| • Advances in Physiological Education | • Physiological Zoology |
| • American Journal of Anatomy | • PLOS One |
| • American Journal of Physiology | • Science - articles, book review s |
| • Animal Behaviour | • Journal of Experimental Zoology |
| • Biological Bulletin (Woods Hole) | • Marine Behaviour and Physiology |
| • Canadian Journal of Zoology | • Nature |
| • Ecology | • Natural History |
| • Fieldiana Zoology | • Physiological Reviews |
| • Functional Ecology | • Journal of Morphology |
| • Herpetologica | • Proceedings of the Royal Society B |
| • Journal of Comparative Physiology |  |
| • Journal of Applied Physiology |  |
| • Journal of Experimental Biology |  |

* Reviewing for Funding Agencies

|  |  |
| --- | --- |
| • NASA | • The Canada Council |
| • National Science Foundation | • Research Corporation |
| - Biology Directorate | • Hudson River Foundation |
| (multiple programs) | • Jefrees Trust |
| - Undergraduate Instrumentation  | • Louisiana Board of Regents |
| Program | • Guggenheim Foundation |
| - International Programs | • Mass. Water Resources Board |
| - Science, Tech., Engin. Program  | • New Zealand Federal Research |
| (STEP) | Agencies (various) |
| • National Institutes of Health | • Australian Research Council |
| • American Heart Association | • British Federal Research |
| • NATO - Scientific Affairs Division | • Netherlands Council for the Earth and Life Sciences |
| * Fonds de Recerche du Quebec
 | * National Science Center (Poland)
 |

|  |  |
| --- | --- |
| * National Science and Engineering Research Council (Canada)
 |  |

* Consulting for Publishers

|  |  |
| --- | --- |
| • Benjamin/Cummings | • Houghton Mifflin |
| • Blackwell | • Oxford University Press |
| • Cambridge University Press | • Academic Press |
| • Chapman and Hall | • Saunders College Publishing |
| • D. Van Nostrand | • Sinauer Associates |
| • Encyclopedia Britannica | • Times Mirror/Mosby |
| • Harper and Row | • Willard Grant |
| • William C. Brown | • W. H. Freeman |
| • National Geographic Publications | • Iowa State University Press |
| • University of North Texas Press | • Graduate Record Exam |
| • Pearson Publishing | • Prentice-Hall |

### *10. PUBLICATIONS*

1. BOOKS (Authored or Co-authored)

|  |  |  |
| --- | --- | --- |
| • 2016 | (11) | **Burggren, W.W.**, Bagatto, B., Brewster, J. and Hester, L. Study Guide for Biological Science. Prentice Hall, Upper Saddle River, New Jersey. 6th. Ed. |
| • 2013 | (10) | **Burggren, W.W.**, Bagatto, B., Brewster, J. and Hester, L. Study Guide for Biological Science. Prentice Hall, Upper Saddle River, New Jersey. 5th. Ed. |
| • 2010 | (9) | **Burggren, W.W.**, Bagatto, B., Brewster, J. and Hester, L. Study Guide for Biological Science. Prentice Hall, Upper Saddle River, New Jersey. 4th. Ed. |
| • 2008 | (8) | **Burggren, W.W.**, Bagatto, B., Brewster, J. and Hester, L. Study Guide for Biological Science. Prentice Hall, Upper Saddle River, New Jersey. 3rd. Ed |
| • 2005 | (7) | **Burggren, W.W.**, Bagatto, B., Brewster, J. and Hester, L. Study Guide for Biological Science. Prentice Hall, Upper Saddle River, New Jersey. 2nd. Ed. |
| • 2002 | (6) | **Burggren, W.** and Hester, L. Study Techniques for the Sciences. Prentice Hall. Upper Saddle River, New Jersey. |
|  | (5) | **Burggren, W.W.**, Bagatto, B., Brewster, J. and Hester, L. Study Guide for Biological Science. Prentice Hall, Upper Saddle River, New Jersey. |
| •2001 | (4) | Randall, D. J., **Burggren, W.W.**, and French, K. Animal Physiology. 5th Edition. W. H. Freeman, New York. |
|  | (3) | Minor, V.C., Dzialowski, E.D., **Burggren, W.W.**, Goodloe, L. and Guild, N. Study Guide to Accompany Life, the Science of Biology, 6th ed. Sinauer, Sunderland, MA. |
| •1997 | (2) | Randall, D. J., **Burggren, W.W.**, French, K., and Fernald, R. *Eckert* Animal Physiology. 4th Edition. W. H. Freeman, New York. |
| •1981 | (1) | Randall, D.J., **Burggren, W.W.**, Haswell, M.S. and Farrell, A.P. The Evolution of Air Breathing in Vertebrates. Cambridge University Press, Cambridge, England. |

2. BOOKS (Edited or Co-edited)

|  |  |  |
| --- | --- | --- |
| * 2018
 | (8) | **Burggren,** **W.** and Dubansky, B. Editors. Development and Environment. Springer, Cham, Switzerland*.* |
| • 2006 | (7) | Warburton, S., **Burggren, W.W.**, Pelster, B., Reiber, C, and Spicer, J. Comparative Developmental Physiology. Oxford University Press, New York. |
| • 1997 | (6) | **Burggren, W.W.** and B. Keller. Editors. Development of Cardiovascular Systems: Molecules to Organisms. Cambridge University Press, New York. |
| • 1992 | (5) | Feder, M.E. and **Burggren, W.W.**, Editors. Environmental Physiology of the Amphibia. University of Chicago Press, Chicago. |
| • 1988 | (4) | **Burggren, W.W.** and McMahon. B., Editors. Biology of the Land Crabs. Cambridge University Press, New York. |
| • 1987 | (3) | Feder, M.E., Bennett, A. F., **Burggren, W.W.**, and Huey, R. Editors. New Directions in Physiological Ecology. Cambridge University Press, New York |
|  | (2) | Bemis, W., **Burggren, W.W.** and Kemp, N., Editors. The Biology and Evolution of Lungfishes. Alan R. Liss, New York. |
| • 1985 | (1) | Johansen, K. and **Burggren, W.W.**, Editors. Cardiovascular Shunts: Phylogenetic, Ontogenetic and Clinical Aspects. Munksgaard, Copenhagen. |

3. BOOK CHAPTERS

|  |  |  |
| --- | --- | --- |
| • 2023 | (41) | Khursigara, A.J., Roberts, A., **Burggren, W.** and Hamilton, T.J. Behavior and Toxicology. In: Encyclopedia of Fish Physiology, 2nd edition. Elsevier. Doi.org/10.1016/B978-0-323-90801-6.00037-9 |
| • 2021 | (40) | Mueller, C., **Burggren, W.W.**, and Tazawa, H. The Physiology of the Avian Embryo. In: Sturkie’s Avian Physiology. Seventh Edition. Ed. Scanes, C.J., Dridi, Sami. Elsevier, New York. Pp. 995-1026. |
|  | (39) | **Burggren, W. W.**Gobierno y Autonomia Universitaria en Canada, Estados Unidos y Mexico: Un Estudio Comparativo. En: Autonomia: Legado y Futuro. Prensa de la Universidad del Estado de Mexico.  |
| • 2018 | (38) | Burggren, W. W. and Dubansky, B. The Nexus of Development and Environment. In: Development and Environment. Editors: Burggren, W. and Dubansky, B. Springer, Cham, Switzerland. |
|  | (37) | Pelster, B. and Burggren, W. W. Responses to Environmental Stressors in Developing Animals: Costs and Benefits of Phenotypic Plasticity. In: Development and Environment. Editors: Burggren, W. and Dubansky, B. Springer, Cham, Switzerland. |
| • 2017 | (36) | Burggren, W.W., Dubansky, B. and Bautista, N. Cardiovascular Development Of Embryonic And Larval Fishes. In: Fish Physiology. Vol. 35. The Cardiovascular System: Design, Control and Function. Editors: Gamperl, K. and Gillis, T. Academic Press.  |
|  | (35) | **Burggren, W.W.** Epigenetics in insects: Mechanisms, phenotypes, and ecological and evolutionary implications. In Advances in Insect Physiology. Vol 53.1-30 Editors R. Jurenka and H. Verlinden. Elsevier, New York.  |
|  | (34) | **Burggren, W.W.**, Chapman, K., Keller, B., Monticino, M. and Torday, J. Interdisciplinarity In The Biological Sciences. In Handbook of Interdisciplinarity. Eds. Frodeman, R, Mitchum, C and Hollbrook, J.B. Vol II. Oxford University Press. |
| • 2015 | (33) | Mueller, C., **Burggren, W.W.**, and Tazawa, H. The Physiology of the Avian Embryo. In: Sturkie’s Avian Physiology. Sixth Edition. Ed. Scanes, C.J. Elsevier, New York. Pp.739766. |
| • 2010 | (32) | **Burggren, W.W.**, Chapman, K., Keller, B., Monticino, M. and Torday, J. Interdisciplinarity In The Biological Sciences. In Handbook of Interdisciplinarity. Eds. Frodeman, R, Mitchum, C and Hollbrook, J.B. Oxford University Press. |
| • 2009 | (31) | **Burggren, W.W.** and Pan, T-C.  Chemoreceptive Control of Ventilation in Amphibians and AirBreathing Fishes.In: Structure, Evolution and Function of the Airway Chemoreceptors in the Vertebrates. Eds. Zaccone, G., Cutz, E., Adriaensen, D., Nurse, C., and Mauceri, A. Science Publishers, Enfield,N.H. |
| • 2008 | (30) | **Burggren, W.W.** and Bagatto, B. Cardiovascular Anatomy and Physiology of Larval Fishes. In: Fish Larval Physiology. Eds. N. Finn, B.G. Kapoor. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi. |
| • 2007 | (29) | **Burggren, W.W.** and Reiber, CL. Evolution of Cardiovascular Systems. In: The Endothelium: A Comprehensive Reference. Ed. W. Aird. Cambridge University Press. |
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