Gregory D. Maniero
Stonehill College
Department of Biology
320 Washington Street, Easton, MA 02357
(508) 565-1729
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Education:

2001 - 2004 University of Rochester School of Medicine and Dentistry
Postdoctoral Research Assistant.
Advisors: Dr. Nicholas Cohen and Dr. Jacques Robert

1996 - 2001 University of Colorado (Boulder, CO)
Doctor of Philosophy. Advisor: Dr. Cynthia Carey
Dissertation title: Influence of Temperature and Season on Selected Aspects of the Immune System of a Mammalian Hibernator, the Golden-Mantled Ground Squirrel, *Spermophilus lateralis*.
Department of Environmental, Population and Organismic Biology

1989 - 1990 American University (Washington, D.C.)
Graduate coursework (towards MS),Environmental Toxicology

1977 - 1982 University of Wisconsin - Parkside, (Kenosha, WI)
Bachelor of Science, Life Sciences

Additional education:

2010 Advanced Immunology Course, American Association of Immunologists, Minneapolis, MN
1989 Photomicroscopy Workshop, Association of Cytogenetic Technologists, Columbia, MD
1989 Tissue Culture Workshop, The Tissue Culture Association, Catonsville, MD

Employment history:

2019 – (2022): Fr. Francis Hurley, CSC, Chair in Biology

2009 – present: *Associate Professor of Biology.* Stonehill College, Department of Biology. Easton, MA. Classes taught include Immunology (BIO 409) Vertebrate Anatomy (BIO 311), Vertebrate Physiology (BI 321), Environment Science (EV 200), Adaptations to the Environment (BOI 416), Human Biology for the Non-Scientist (BIO 111), Parasitology (BIO 301), and labs in Human Anatomy and Physiology (BIO 203/204) and Biological Principals (BIO 101/102). Faculty advisor for the Alpha Rho chapter of the national honors fraternity Sigma Zeta.

2004 – 2009: *Assistant Professor of Biology.* Stonehill College

2001 – 2004: *Postdoctoral Research Associate*. University of Rochester Medical Center, Department of Microbiology and Immunology. Rochester, NY. Advisors: Dr. Nicholas Cohen and Dr. Jacques Robert. Studying evolutionary immunology using the African clawed frog, *Xenopus*, as an amphibian model. Projects included; role of the cellular immune system in heat shock protein-induced immunity, antibody response to the virus FV3, amphibian inflammatory reactions, and distribution of various immune cell receptors. Developed new methods for adoptive transfer of immune cells in *Xenopus*, an enzyme-linked immunosorbent assay (ELISA) for the detection of *Xenopus* antibodies to FV3, primary cell lines and assays for detection of antiviral responses, methods for studying cellular immune responses *in vitro*, and a recombinant *Xenopus* heat shock protein, gp96. Developed novel immunoassays and flow cytometry experiments. Extensive work with amphibian cell culture. University of Rochester Medical Center, Department of Microbiology and Immunology. Rochester, NY.

Fall 2003: *Adjunct Instructor*. Monroe Community College, Biology Department, Rochester, NY. Taught: The Human Machine, a Human Biology course (Biol. 133) for non-Biology majors.

1996 - 2001: *Teaching Assistant*. University of Colorado, Departments of EPO and MCD Biology, Boulder, CO. Courses include Human Physiology, Comparative Animal Physiology, Human Physiology, Cell Physiology, Immunology, Microbiology, and Human Anatomy (cadaver lab). Occasional class lectures in Human Physiology.

1994 - 1996: *Professional Research Assistant.* University of Colorado, Department of EPO Biology, Boulder, CO. Responsible for experimental design and scheduling, technique development, data analysis and presentation of experiments in amphibian immunology and mammalian hibernation physiology. Developed flow cytometry experiments. Extensive experience with primary mammalian immune cell culture.

1991 - 1994: *Computer/Information Specialist.* Chadwick and Associates, Littleton, CO. Statistical analysis, interpretation and presentation of data from fisheries, hydrological and laboratory studies. Zooplankton and phytoplankton collection. Fish collection and identification in the field. Wet chemical analysis and performance of vertebrate and invertebrate aquatic toxicology assays. Picking and sorting of benthic invertebrates from sediment samples.

1990 - 1991: *Professional Research Assistant*. University of Colorado, Health Sciences Center, AIDS Clinical Trial Group, Department of Infectious Disease, Denver, CO. Responsible for all aspects of cell culture from patients enrolled in national program, in vitro investigation of the effects of therapeutic agents on viral expression, and maintenance of the laboratory.

1988 - 1990: *Research Assistant.* Hazleton Laboratories, America, Kensington, MD. Responsible for design, scheduling, and performance of commercial cytogenetic assays. Other duties included; cell culture, data management, and karyology. Department of Cellular and Molecular Services,

1987 - 1988: *Study Coordinator/Jr. Toxicologist.* Tegeris Laboratories, Laurel, MD. Coordinated all aspects of commercial mammalian toxicology studies. Duties included; preparation compounds, collection of specimens, collection and recording of animal data, necropsy, and data entry. Developed techniques and trained personnel in intravenous drug infusion, electrocardiogram and arterial blood pressure measurement.

1985 - 1987: *Animal Keeper.* Baltimore Zoo, Bird Department, Baltimore, MD. Responsible for maintenance of over 20 species of birds.

Professional memberships:

1996 – present:	International Society of Developmental and Comparative Immunology
1997 - present:	American Association of Immunologists
2004 – present:	American Physiological Society
2004 – present:	Sigma Zeta National Honor Society
2000 – present:	Sigma Xi Scientific Research Society
2009 – 2010:	American Association of University Professors
2004 – 2009	Society for Environmental Toxicology and Chemistry
1996 - 2009:	International Hibernation Society

Grants and Fellowships:

2019; *Summer Undergraduate Research Experience.* Stonehill College (Matthew Gosselin, Acadia Kopek, Zak Michaud)
2017: *Summer Professional Development Grant*: Stonehill College
2017: *Seminar/Institute Grant.* Stonehill College
2016: *Seminar/Institute Grant.* Stonehill College
2016: *Summe*r *Undergraduate Research Experience.* Stonehill College (Taylor Ucello)
2015: *Seminar/Institute Grant.* Stonehill College.
2013: *Summer Undergraduate Research Experience.* Stonehill College (Jacob Gillis, John Walent)
2011: *Summer Undergraduate Research Experience.* Stonehill College (Patrick Cabral, Erica Carbone, Michelle Flannery)
2010: *Summer Professional Development Grant*: Stonehill College
2009: *Summer Undergraduate Research Experience.* Stonehill College (Mike Daly, Caitlyn O'Connel)
2008: *Summer Undergraduate Research Experience.* Stonehill College (Ana Kern)
2006: *Summer Undergraduate Research Experience.* Stonehill College (Jordan Marcou)
2005: *Pedagogy and Technology Grant:* Stonehill College
2005: *Seed Grant:* Declining Amphibian Population Task Force, Oxford, UK
2005: *Summer Undergraduate Research Experience*: Stonehill College (Ryan Schell)
2001 - 2004: *NAID Immunology Training Grant* (Postdoctoral)*:* U. of Rochester Medical Center.
2000: *Travel Grant:* University of Colorado, Graduate School
Travel Grant: International Society for Developmental and Comparative Immunology
Travel Grant: National Science Foundation
Research Fellowship: University of Colorado, Graduate School
Enrollment Enhancement Fellowship: University of Colorado, School of Arts and Sciences
1999: *Departmental Research Grant;* University of Colorado, Dept. of EPO Biology
Young Investigator Award: U.S. Army Research Office, Hibernation and Adaptations to the Cold.
1998: *Beverly Sears Dean's Small Grant;* University of Colorado, Graduate School
Departmental Research Grant; University of Colorado, Dept. of EPO Biology
1997: *Dean's Small Grant*; University of Colorado, Graduate School
Departmental Research Grant: University of Colorado, Dept. of EPO Biology

Independent Research Mentoring:

Maeve Clifford (Fall 2021 – present) Xenopus CD4 as a conserved receptor for IL-16
Cameron Sarkisian (Spring 2021) Xenopus CD4 as a conserved receptor for IL-16
Jenna Clarkin (Fall 2020) Changes in white pulp density associated with hibernation
Arcadia Kopec (Honors, Fall 2018 – Spring 2021) Xenopus CD4 as a receptor for rhIL-16
Zak Michaud (Honors, Fall 2018 – Spring 2021) Xenopus CD4 as a receptor for rhIL-16
Nik Steege (Fall 2018 – Fall 2019) Complement activity from FV3-infected frogs
Matthew Gosselin (Fall 2018 – Fall 2019) Ames Pond zooplankton and parasites
Adam Ziegler (Fall 2018) Ames Pond zooplankton and parasites
Claire Manuszak (Fall 2017 – Spring 2018) IL-16 as a ligand for *Xenopus* CD4
Jon Naval (Spring 2017 – Spring 2018) *Xenopus* Complement response to FV3
Zoie Magri (Honors, Spring 2016 – Fall 2018) IL-16 as a chemoattractant of CD4 T cells
Kaitlyn Hess (Spring 2016 – Spring 2018) CD4 as an IL-16 receptor
Taylor Ucello (Honors, Fall 2014 – 2017), CD4 as an IL-16 receptor in *Xenopus*
Connor Bach (Fall 2014 – present), *Xenopus* immunity
Victoria Morgan (Fall 2014), *Xenopus* immunity
Daniel Lucason (Fall 2013 – 2015), *Xenopus* immunity (several projects)
Jacob Gillis (Honors, Fall 2013 – 2015), CD4 as an IL-16 receptor in *Xenopus*
John Walent (Fall 2013 – Spring 2014), Innate immune response in *Xenopus*
Ryan Heimroth (Honors, Fall 2013 – 2015), Evolution of the complement system
Robert Dickey (Fall 2013 – Spring 2014), Mucosal immunity
Tijana Samadzic (Fall 2013 – Spring 2014), Innate immune resoponse in *Xenopus*
Jessica Andrews (Honors, Fall 2012 – Spring 2013), gp96 in Transfer Factors
Michelle Myles (Honors, Fall 2012 – 2013) CD4 and CD8 T cells in *Xenopus*
Erica Carbone (Honors Fall 2012) Innate immune response genes in *Xenopus*
Lindsay Bock (Honors, Fall 2011 – Spring 2012) CD4 as an IL-16 receptor in *Xenopus*
Bridgette Sarpu (Spring 2010) Expression of Immune Response Genes
Devon Heath (Fall 2009 – Spring 2010) Complement Activity in Frogs
Michael Daly (Fall 2009) Expression of Immune Response Genes
Patrick Olsen (Fall 2008 - Spring 2009) Expression of Immune Response Genes
Jordan Ingliss (Spring 2006) Complement Activity in Frogs
Kim Radziwon (Fall 2006) Complement Activity in Frogs

Directed Study Mentoring:

Walker Smith (2018) Advanced Vertebrate Anatomy
Christine Merchant (2018) Parasitology
Ryan Newell (2012) Exercise Physiology
Rachael Sirois (2011) Animal Nutrition

Internship Mentoring:

Claire Manuszak (2017)
Amy Hanlon (2013)
Christine Dwyer (2012)
Aimee Trudel (2010)

Publications in Peer-Reviewed Books and Journals:

Maniero, G.D., (2021) Evolutionary conservation of the role of CD4 as a receptor for Interleukin 16. Interleukin. In: Interleukins: The Immune and Non-Immune Systems' Related Cytokines. P. Behzadi, ed. Chapter 2. IntertechOpen Limited, London. ISBN: 978-1-83969-099-0 DOI:10.5772/intechopen.96951

Kopec, A.L., Z.E. Michaud, G.D. Maniero (2020) The Role Of IL-16 As a lymphocyte attractant appears to be conserved through phylogeny: Preliminary evidence that recombinant human IL-16 preferentially attracts regulatory lymphocytes in the amphibian, *Xenopus laevis*. Arch. Autoimmune Dis. 1(2): 44-48.

Gillis, J., T.P. Uccello, Z. Magri, N. Morris, G.D. Maniero. (2020) Preliminary indications that recombinant Human IL-16 attracts and stimulates lymphocytes of the amphibian, Xenopus laevis implying an ancestral role for CD4 as a cytokine receptor. Cytokine. 136:155254.

Inglis, J.E., K.A. Radziwon, G.D. Maniero, (2008) The Serum Complement System: A Simplified Laboratory Exercise to Measure the Activity of an Important Component of the Immune System. Adv. Physiol. Educ. 32(4):317-321.

Robert, J., T. Ramanayake, G.D. Maniero, H. Morales, A. Sima Chida. (2008) Phylogenetic conservation of glycoprotein 96 ability to interact with CD91 and facilitate antigen cross-presentation. J. Immunol. 180(5): 3176-3182

Maniero, G.D., H. Morales, J. Gantress, J. Robert. (2006) Generation of a long-lasting, protective, and neutralizing antibody response to the ranavirus FV3 by the frog *Xenopus*. Dev. Comp Immunol. 30(7):649-657.

Maniero, G.D. (2005) Ground squirrel splenic macrophages bind lipopolysaccharide over a wide range of temperatures at all phases of their annual hibernation cycle. J. Comp. Immunol. Microbiol. and Inf. Dis. 28(4): 297-309.

Marr, S., A. Goyos, G.D. Maniero, J. Robert. (2005) CD91 up-regulates upon immune stimulation in *Xenopus* adult but not larval peritoneal leukocytes. Immunogenetics 56: 735-742.

Maniero, G.D., J. Robert. (2004) Phylogenic conservation of gp96-mediated antigen-specific cellular immunity: New evidence from adoptive transfer in *Xenopus*. Transplantation 78(10):1415-1421.

Robert J., G.D. Maniero, A. Bell, J. Gantress. (2004). Xenopus as a model system to study evolution of HSP-Immune System Interactions. Methods 32:42-53

Robert, J., N. Cohen, G.D. Maniero, A. Goyos, H. Morales, J. Gantress. (2003). Evolution of the immunomodulatory role of the heat shock protein gp96. Cell Mol. Biology, 49(2): 263-275.

Gantress, J., G.D. Maniero, N. Cohen, J. Robert. (2003). Development and characterization of an amphibian model system to study immune responses to iridoviruses. Virology, 311: 254-262.

Maniero, G.D., **(**2002). Classical pathway serum complement activity throughout various stages

of the annual cycle of a mammalian hibernator, the golden-mantled ground squirrel, *Spermophilus lateralis*. Dev. Comp. Immunol. 26:563 – 574.

Maniero, G.D., (2000). The influence of temperature and season on mitogen-induced proliferation of ground squirrel lymphocytes. Life in the Cold: Eleventh International Hibernation Symposium (G. Heldmaier and M. Klingenspor, eds.) Springer, Berlin. pp. 493 - 503.

Martin, S.L., G.D. Maniero, C. Carey, S.C. Hand, (1999). Reversible depression of oxygen consumption in isolated liver mitochondria during hibernation. Physiolog. Biochem. Zool.. 72(3):255-264.

Maniero, G.D., C. Carey, (1996). Changes in selected aspects of immune function in the leopard frog, *Rana pipiens*, associated with exposure to cold. J.Comp.Physiol.B 167(4):256-263.

Martin, S.L., G.D. Maniero, C. Carey, (1996). Patterns of gene expression in the liver during hibernation in ground squirrels. Adaptation to the Cold: Tenth International Hibernation Symposium. (F. Geiser, A.J. Hulbert, and S.C. Nicol eds.) University of New South Wales, Armidale, NSW Australia. pp. 327-332.

Carey, C., G.D. Maniero, J.F. Stinn, (1996). Effect of cold on immune function and susceptibility to disease in toads (*Bufo marinus*). Adaptation to the Cold: Tenth International Hibernation Symposium. (F. Geiser, A.J. Hulbert, and S.C. Nicol eds.) University of New South Wales, Armidale, NSW Australia. pp. 123-129.

Carey, C., G.D. Maniero, C.W.Harper, G.K. Snyder, (1996). Measurements of several aspects of immune function in toads (*Bufo marinus*) after exposure to low pH. Modulators of Immune Responses: The Evolutionary Trail, (J.S. Stolen, T.C. Fletcher, C.J. Bayne, C.J. Secombes, J.T. Zelikoff, L.E. Twerdok, and D.P. Anderson, eds.) SOS Publications, Fair Haven NJ. pp. 565-577.

Other Publications, Abstracts, Posters, and Presentations at Professional Meetings:

2019: S.U.R.E. Poster Session, Stonehill College, Investigation of Freshwater Parasites and Zooplankton Population Characterization from Ames Pond. Matthew E. Gosselin and Gregory D. Maniero

2019: S.U.R.E. Poster Session, Stonehill CollegeCharacterization of *Xenopus laevis* $CD4^+$ T cells Recruited by Recombinant Human IL-16. Acadia L. Kopec, Zak E. Michaud, and Gregory D. Maniero

2018: International Society for Developmental and Comparative Immunology 14th International Congress, Santa Fe, NM. Lymphocytes are recruited to the coelom of the African Clawed Frog, *Xenopus laevis* following interperitoneal injection with recombinant Human Interleukin-16. Magri, Z.R., K.A. Hess, C.E. Manuszak, and G.D. Maniero

2017: North American Comparative Immunology Workshop, North Carolina State University, Raleigh, NC. Evolutionary conservation of CD4 as a receptor for IL-16: Preliminary evidence from *Xenopus laevis.* Gillis, J., T. Uccello, G.D. Maniero

2016: S.U.R.E. Poster Session, Stonehill College. Characterization of Amphibian CD4. Taylor Ucello and Gregory D. Maniero

2016. North American Comparative Immunology Workshop, University of Prince Edward's Island, Charlottetown, P.E.I., CA . Following the Humoral Immune Response in Native New England Amphibians Using Reagents Developed in Xenopus laevis. Ryan T.Schell, Jordan Marcou, and Gregory D. Maniero

2015: North American Comparative Immunology Workshop, Victoria University, Toronto, Ontario, CA . *Xenopus* Mucosal Immunity can be Quantified by a Hemolytic Asssay and is Induced by Exposure to Heat-Killed Bacteria. Heimroth, R., Lucason, D., Dickey, R., Morgan, V., Maniero, G.D.

2015: North American Comparative Immunology Workshop, Victoria University, Toronto, Ontario, CA . The Complement System of Lamprey can be Activated by Mammalian Antibodies. Heimroth, R., Lucason, D., Dickey, R., Maniero, G.D.

2015: Eastern New England Biological Conference, Simmons College, Boston MA. *Xenopus* CD4 is a Receptor for IL-16; Conservation of an Ancient Role for CD4. Gillis, J., Ucello, T., Walent, J., Bach, C., Maniero, G.D.

2015: Eastern New England Biological Conference, Simmons College, Boston MA. *Xenopus* Mucosal Immunity can be Quantified by a Hemolytic Asssay and is Induced by Exposure to Heat-Killed Bacteria. Heimroth, R., Lucason, D., Dickey, R., Morgan, V., Maniero, G.D.

2015: Eastern New England Biological Conference, Simmons College, Boston MA. The Complement System of Lamprey can be Activated by Mammalian Antibodies. Heimroth, R., Lucason, D., Dickey, R., Maniero, G.D.

2014: S.U.R.E. Poster Session, Stonehill College. Identification and Characterization of $CD4^+$ Lymphocytes from the frog, *Xenopus laevis*. Jacob Gillis, John Walent, Gregory D. Maniero

2013: 12th Annual New England Environmental Research Symposium, Bridgewater State College, Bridgewater, MA. Investigation of Behavioral Thermoregulation of American Alligators (*Alligator mississippiensis*). Dixon, X., Gregory D. Maniero G.D.

2010: Eastern New England Biology Conference, Bridgewater, MA Early Gene Expression of the Innate Immune Response of *Xenopus laevis* Following Exposure to the Fungal Pathogen *Batrachochytrium dendrobatidis*. Daly, M., O'Connell, C., and Maniero, G.D.

2010: Eastern New England Biology Conference, Bridgewater, MA Complement Activity in the Serum of *Xenopus laevis* Following Exposure to the Pathogenic Fungus *Batrachochytrium dendrobatidis.* Heath,D., and Maniero, G.D.

2010: S.U.R.E. Poster Session, Stonehill College. Early Gene Expression of the Innate Immune Response of *Xenopus laevis* Following Exposure to the Fungal Pathogen *Batrachochytrium dendrobatidis*. Michael Daly, Caitlin O'Connell, and Gregory D. Maniero

2008: 7th Annual New England Environmental Research Symposium, Bridgewater State College, Bridgewater, MA. The effect of coloration and temperature on thermoregulation of Green and Brown Anoles of southern Florida. Moreau, E., Kelly, G., Finnance, P., Maniero, G.D.

2008: S.U.R.E. Poster Session, Stonehill College. Detection of Heat Shock Protein 70 (Hsp70) by Western Blot from Gill Tissue of the Northern Blue Mussel. Anna B Kern and Gregory D. Maniero

2006: International Society for Developmental and Comparative Immunology 10th International Congress, Charleston, SC. Generation of a long-lasting, protective, and neutralizing antibody response to the ranavirus FV3 by the frog *Xenopus*. Maniero, G.D., Morales, H., Gantress, J., Robert, J.

2006: New England Immunology Conference, Woods Hole, MA. Generation of a long-lasting, protective, and neutralizing antibody response to the ranavirus FV3 by the frog *Xenopus*. Maniero, G.D., Morales, H., Gantress, J., Robert, J.

2006: FrogLog (June), Newsletter of the Declining Amphibian Task Force. Progress Report: Detection of the antibody response in northern leopard frogs (*Rana pipiens*) by ELISA using reagents developed in *Xenopus*. Schell, R.T., Maniero, G.D

2006. Eastern New England Biology Conference, Boston, MA Detection of the antibody response in northern leopard frogs (*Rana pipiens*) by ELISA using reagents developed in *Xenopus*. Schell, R.T., Maniero, G.D.

2005: S.U.R.E. Poster Session, Stonehill College. Humoral Immunity in Amphibians: Incomplete Isotype-Switch in the Secondary Antibody Response. Jordan Marcou and Gregory D. Maniero

2005: New England Immunology Conference, Woods Hole, MA. Generation of a long-lasting, protective, and neutralizing antibody response to the ranavirus FV3 by the frog *Xenopus*. Maniero, G.D., Gantress, J., Morales, H. Robert, J.

2004: Declining Amphibian Task Force Meeting, Tempe, AZ. Viral immunity in normal and immunosuppressed adult and larval Xenopus. Maniero, G.D., Gantress, J., Morales, H. Cohen, N., Robert, J.

2004: S.U.R.E. Poster Session, Stonehill College. The Kinetics of the Antibody Response by Northern Leopard Frogs (*Rana pipiens*). Ryan T.Schell and Gregory D. Maniero

2004: Heat Shock Protein Workshop, Farmington, CT. A phylogenetically conserved immunological role for heat-shock protein gp96 and its putative receptor(s). Robert, J., Cohen, N., Goyos, A., Maniero, G.D., Marr, S., Morales, H., Puskas, J., Gantress, J.

2004: 12th International Immunology Congress, Montreal, Canada. Immune response to emerging ranavirus in *Xenopus*. Robert J., Maniero, G.D., Cohen, N., Marr, J., Gantress, J..

2003: International Society for Developmental and Comparative Immunology 9th International Congress, St. Andrews, Scotland. Phylogenic conservation of gp96-mediated antigen-specific cellular immunity: New evidence from adoptive transfer in *Xenopus*. Maniero, G.D., N. Cohen, Robert J.

2003: International Society for Developmental and Comparative Immunology 9th International Congress, St. Andrews, Scotland. Classical MHC-unrestricted CD8+ cytotoxic T cell responses elicited by the heat shock protein (HSP) gp96. Goyos, A.S., J. Gantress, N. Cohen, Robert J.

2003: International Society for Developmental and Comparative Immunology 9th International Congress, St. Andrews, Scotland. Evolution of the immunomodulatory role of heat shock protein. Robert J., N. Cohen, A. Goyos, G.D. Maniero, H. Morales, Gantress, J.

2003: American Association of Immunology Conference, Denver, CO. Phylogenetic conservation

of gp96-mediated antigen-specific cellular immunity: New evidence from adoptive transfer in the frog *Xenopus*. Maniero, G.D., N. Cohen, Robert, J. FASEB J. 17(7):C76 Suppl. S April 14, 2003

2003: American Association of Immunology Conference, Denver, CO. Classical MHC-unrestricted $CD8^+$ cytotoxic T cell responses elicited by the heat shock protein (HSP) gp96. Goyos, A.S., J. Gantress, N. Cohen, Robert J.

2003: American Association of Immunology Conference, Denver, CO. Evolution of the immunomodulatory role of heat shock protein. Robert J., N. Cohen, A. Goyos, G.D. Maniero, H. Morales, Gantress, J.

2002: University of Rochester Summer Student Poster Session, Rochester, NY. Immunomodulation of the hsp gp96 in competent adult or naturally MHC-class I-deficient larvae of the frog *Xenopus*. Goyos, A.S., J. Gantress, G.D. Maniero, N. Cohen, J. Robert

2002: University of Rochester Medical Center, Cancer Center Symposium, Rochester, NY Evolution of hsp-elicited immunomodulation. Maniero G.D., N. Cohen, J. Gantress, A. Goyos, H. Morales, Robert, J.

2002: Upstate New York Immunology Conference, Bolton's Landing, NY. Evolution of hsp-elicited immunomodulation. Maniero G.D., N. Cohen, J. Gantress, A. Goyos, H. Morales, Robert J.

2002: 3rd Innate Immunity Workshop, Mykonos, Greece. Heat shock proteins: An evolutionary bridge between innate and adaptive immunity. Robert, J., Gantress J., Bell A., Maniero, G.D., Cohen, N., Rau, L.

2002: Heat Shock Protein Workshop, Farmington, CT. Evolution of stress proteins as agents of immune surveillance. Robert, J., Gantress, J. Goyos, A.S., Kotewala, L., Maniero, G.D., Morales, H., Cohen, N., Muharemagic, A., Rau, L.

2000: University of Rochester Medical School, Rochester, NY. The effects of temperature and season on selected aspects of the immune system of a mammalian hibernator. Maniero, G.D.

2000: Life in the Cold, 11th International Hibernation Symposium, Jungholz, Austria. The influence of temperature and season on mitogen-induced proliferation of ground squirrel lymphocytes. Maniero, G.D.

2000: International Society for Developmental and Comparative Immunology 8th International Congress, Cairns, Australia. Modulation and regulation of the serum complement system throughout the hibernation cycle of the golden-mantled ground squirrel, *Spemophilus lateralis*. Maniero, G.D. Abstract E4. Developmental and Comparative Immunology 24(sup.1):S24 2000.

1999: Hibernation and Adaptations to the Cold, Estes Park, CO. Serum complement activity in the golden-mantled ground squirrel, *Spermophilus lateralis*. Maniero, G.D.

1999: Society for Integrative and Comparative Biology, Denver CO. Changes in serum complement activity in a hibernating mammal. Maniero, G.D. American Zoologist, 38(5):91A

1997: Regional Physiology Meeting, University of Wyoming, Laramie WY. The effect of certain

environmental stressors on selected aspects of the amphibian immune system. Maniero, G.D., Carey, C.

1996: 9th annual meeting of the Rocky Mountain Chapter of the Society for Environmental Chemistry and Toxicology. Denver, CO. Toxicants and the decline of boreal toads in the Colorado rockies. Carey, C., Maniero, G.D.

1996: International Hibernation Symposium, Cradle Mountain Lodge, Tasmania. Effect of cold on immune function and susceptibility to bacterial infection in frogs and toads. Maniero, G.D., Carey, C., Stinn, J.F.

1996: International Symposium on Amphibian Endocrinology, Boulder, CO. Responses of immune functions to cold in frogs and toads. Maniero, G.D., Carey, C., Stinn, J.F.

1996: International Hibernation Symposium, Cradle Mountain Lodge, Tasmania. Reversible changes in oxygen consumption in liver mitochondria during hibernation. Martin, S.L., Maniero, G.D. Carey, C., Hand, S.C.

1996. International Hibernation Symposium, Cradle Mountain Lodge, Tasmania. Patterns of gene expression in the liver during hibernation in ground squirrels. Martin, S.L., Maniero, G.D., Carey, C.

1996: Army Research Office Meeting, Research Triangle Park, NC. Differential expression of liver genes as a function of hibernation in ground squirrels. Martin, S.L., Saxton, J., Maniero, G.D., Carey, C.

1995: The Evolutionary Trail: Annual Comparative Immunology Meeting, Breckenridge CO. Measurements of several aspects of immune function in toads (*Bufo marinus*) after exposure to low pH. Carey, C., Maniero, G.D., Harper, C.W., Snyder, G.K.

Professional Meetings without presentation:
2021: North American Comparative Immunology Workshop, (online)
2020: North American Comparative Immunology Workshop, (online)
2014: North American Comparative Immunology Workshop, Toronto, ON, CA
2012: North American Comparative Immunology Workshop, Rochester, NY.
2007: Eastern New England Biology Conference, Boston, MA.
2007: Tufts University Wildlife Symposium, North Grafton, MA.
2006: Eastern New England Biology Conference, Framingham, MA
2006: New England Immunology Conference, Woods Hole, MA
2005: Eastern New England Biology Conference, Framingham, MA.
2005: Tufts University Wildlife Symposium, North Grafton, MA.
2004: New England Immunology Conference, Woods Hole, MA.

Stonehill College Service:
2021 – 2024: Faculty Grievance Committee, Academic Integrity Board
2018 – 2021: Faculty Grievance Committee
2019: Search Committee for the Director of the General Education Program
2016 – 2018: Rank and Tenure Committee
2014 – 2016: Professional Development Committee
2013 – 2014: Standards and Standings Committee
2012 – 2013 Academic Integrity Board, Faculty Grievance Committee
2011 – 2012: President of the Faculty Senate
2010 – 2011: Vice-President of the Faculty Senate
2010 – present: Institutional Animal Care and Use Committee
2008 - 2010: Faculty Senate liaison to the Curriculum Committee
2007: Chaired Faculty Senate Task Force on Academic Challenge
2006 – 2012: Faculty Senate
2005: Curriculum Committee
Occasional: Community Associate – Named Community Associate of the Year 2017 - 2018

Outside Reviewer (and external service):
Frontiers in Immunlogy (guest topic editor, 2021)
American Journal of Physiology B
Kuby's Immunology (textbook) 6^{th} , 7^{th}, and 8^{th} editions)
National Science Foundation
Developmental and Comparative Immunology (Journal of the International Society of Developmental and Comparative Immunonology)
International Journal of Medical Sciences
Biological Procedures online
National Science Foundation
SEA grant
Emmanuel College (outside tenure review)
Odyssey High School Science Fair (Judge)
South Shore Regional Science Fair(Judge)