

CURRICULUM VITAE OF
CHRISTOPHER P. CORBO, PH.D.

DEAN, COLLEGE OF ARTS AND SCIENCES

PROFESSOR OF BIOLOGY

JACKSONVILLE UNIVERSITY

2800 University Blvd N, Jacksonville, FL 32211 o: 904-256-7100; coas@ju.edu

EDUCATION

City University of New York - New York, NY

Ph.D. in Biology – Molecular Neuroscience 2008 - 2012

M.Phil. in Biology 2008 – 2011

Wagner College - Staten Island, NY

M.S. in Microbiology 2006 - 2008

B.S. in Biology 2002 - 2006

ADMINISTRATIVE EXPERIENCE

DEAN, COLLEGE OF ARTS AND SCIENCES

2022-PRESENT

JACKSONVILLE UNIVERSITY, FL

- Demonstrate an appreciation of, and commitment to shared governance and a willingness to advocate for the needs of the College of Arts and Sciences and its faculty
- Foster and develop collaborative initiatives within the College, with the Public Policy and Marine Science Institutes, other units across the University, and the larger Jacksonville community
- Seek financial support for the College through grant applications and fundraising in cooperation with Institutional Advancement
- Provide direction for professional accreditation and academic program assessment
- A commitment to engaged learning programs such as undergraduate research, service-learning, study abroad, and internships
- Support and promote the liberal arts in higher education and society

ASSISTANT PROVOST FOR ACADEMIC AFFAIRS & DEAN OF GRADUATE STUDIES

2021-2022

WAGNER COLLEGE, NY

- Primary liaison between involved departments and programs with the senior administration working to implement new programs in natural and health sciences. Specifically, I have been responsible for the implementation of an Occupational Therapy Program at Wagner, revising the current Physicians Assistant Program curriculum, and implementation of the new majors in biology as described below.
- Partner with the Dean of Nursing to develop and bring through campus, state, and accreditation several new programs in the School of Nursing including two post-master's certificates, one in Nurse Educator and one in Psychiatric Nursing. Additionally, we have worked to bring our current Doctor of Nursing Practice to be completely online.
- Worked with faculty in the Anthropology and Government and Politics Departments to build an interdisciplinary program in Public Health. Start conversations between the Department of Visual Arts and Psychology to develop a program in Art Therapy.

- I have worked with faculty governance committees to shepherd above mentioned new programming through campus approval and later the appropriate New York State approval.
- Work with the New York State Education Office to gain state approval for all new programs.
- Work with various departments to facilitate discussions around grant applications, court foundations and individual donors to support various facilities, programs, and students in the areas of natural and health sciences.
- As the Dean of Graduate Studies, I have been responsible for increasing graduate enrollment. This is a new initiative and currently we are working with program directors, admissions, and the marketing department for targeted recruitment of graduate students to the programs on campus. Additionally, we are in conversations to develop 4+1 graduate 5-year programs.
- Chaired the Graduate Council Meeting which oversees the governance of graduate education on campus.
- As the Dean of Graduate Studies, I have dealt with graduate student issues as they arise.

CHAIR, DEPARTMENT OF BIOLOGICAL SCIENCES

2019-2022

WAGNER COLLEGE, NY

- Oversight of four undergraduate programs (biology, microbiology, biopsychology, and health sciences), one graduate program (MS in microbiology), nine full-time tenured and tenure-track faculty, ten part-time faculty, two administrative staff members and four graduate assistants.
- All budgetary oversight for the academic and research activities of the department. Manage a budget of 1.5 million dollars annually.
- Hiring, management, and evaluation of all part-time faculty and providing professional development for faculty new to the classroom
- Oversight of tenure, promotion, and sabbatical applications within the department. I have mentored two faculty members in their tenure and promotion processes.
- Oversight of department meetings and reporting of department activities to the Provost and Senior VP of Academic Affairs.
- Development of departmental strategic plan, assessment report, and annual report. I have developed a strategic plan for the department under the new college president and a SWOT analysis for the new provost.
- Construction of the major in health science along with the Dean of the Spiro School of Nursing in 2019. This program prepares students for any graduate study in health professions including Physician Assistant, Physical and Occupational Therapy, and Medical laboratory sciences to name a few.
- Development of an interdisciplinary major in neuroscience with the Department of Psychology bringing a more cellular and molecular focused program to the college, partnered with the biopsychology major that focuses more on cognitive sciences.
- Oversight of a full undergraduate and master's program curriculum revision to include more specialized majors that complement the strengths of the department faculty. These include two new majors in Molecular and Cellular Biochemistry and Microbiology and Immunology. The master's program in microbiology is in process to be expanded to include more eukaryotic science. The new name will be Microbiology and Cell Science. This program will increase interest and work toward program growth.
- Addition of a post-baccalaureate program in Medical Laboratory Technology that can stand alone or be coupled to the previously mentioned master's program in the department.

DIRECTOR, WAGNER COLLEGE PLANETARIUM**2019-2022***WAGNER COLLEGE, NY*

- Scheduling shows, equipment maintenance, training student presenters, curating show line up, securing new content. To date, I have generated the funds to purchase four additional full dome shows (totaling \$12,000 in licenses). These funds were raised through interaction with the college's donor base.
- Established a new program where local high school students see a planetarium show and do a corresponding laboratory activity. We are working on a grant application focusing on making science accessible to local school students using the planetarium as the gateway.
- Work with the director of the Office of Institutional Advancement to secure funds for planetarium programming from local politicians and to establish a mechanism for donations. We are working with the local NY State Assembly to secure \$600k for a full upgrade of the planetarium projection system and dome surface. My responsibility was to show the capacity of the planetarium and generate interest in the government for the upgrade to benefit the local school students.
- Oversee a budget of \$50K annually, oversight a student staff of four students and work with the college Department of Lifelong Learning to market, advertise, and book community shows and school trips.

FACULTY GRANTS COORDINATOR**2017-2021***WAGNER COLLEGE, NY*

- Mentored all faculty that are preparing grant applications. Assist in proposal development and submission. I have been a PI for an NSF MRI for a laser scanning confocal microscope. We have submitted two times and were ranked highly meritorious. Funding would require a larger user base on campus.
- Responsible for assisting in grant budget development in federal funding.
- Worked with the Business Office and the VP of Finance to report fund utilization and grant progress reports.
- Worked with the Provost and VP for Academic Affairs in soliciting and reviewing all internal grant applications.
- Oversaw the Wagner College faculty development workshops - scholarship circle and grant application workshop.
- Worked with the deans and the VP for Academic Affairs to evaluate and distribute funds for internal grant solicitations.

FACULTY PERSONNEL COMMITTEE**2020-2021***WAGNER COLLEGE, NY*

- Faculty elected science division representative, elected committee chair by committee members
- Oversaw the tenure and promotion review process for all faculty seeking action. Worked with the Provost and Senior Vice President to discuss committee recommendations as they prepared their own recommendations.
- Mentored junior faculty as they prepared their tenure and promotion materials.
- Oversaw the budget for faculty aid (conference funds) and faculty research awards - \$80K annually.
- Worked with committee members and the VP of Academic Affairs to distribute faculty aid and research grants based on committee discussions.
- Oversaw applications for and distribution of faculty performance awards.

ACADEMIC POLICY COMMITTEE**2016-2019***WAGNER COLLEGE, NY*

- Faculty elected science division representative, elected committee chair by committee members
- Oversaw all curriculum revision throughout the college.
- Responsible for the addition of the following programs: dance education, vocal performance, health sciences, and the graduate program in media management.
- Assisted the Dean of the Nicholas School of Business in a reorganization and streamlining of the MBA program.
- Coordinated and oversaw the implementation of a new skill-based undergraduate general education program. This required working directly with the Provost and VP of Academic Affairs as well as all department chairs to implement all departmental changes that were required. Presented all necessary changes to the full faculty for vote.

PROGRAM DIRECTOR, MICROBIOLOGY GRADUATE PROGRAM**2012-2022***WAGNER COLLEGE, NY*

- Program application review and all admissions decisions into the master's program.
- Academic advisement for all enrolled graduate students. Also responsible for all academic probation cases, adherence to thesis policies and procedures,
- Member of the Graduate Council, the committee that oversees all graduate programs.
- Developed a one-year intensive master's program to link with our traditional BS program in microbiology creating the 5-year BS/MS program in microbiology which increased enrollment by 110% in the first three years.
- Designed and oversaw the renovation of the entire microbiology laboratory suit (one teaching lab, one preparatory lab, and three faculty research labs). Coordinated between the college campus operations, college business office, hired architect, and contractor during the design and construction.
- Re-structured the program thesis track to be more student-centered and used assessment data to drive a restructuring of the program toward better student outcomes.

DIRECTOR, WAGNER COLLEGE ELECTRON MICROSCOPY CENTER**2012-2022***WAGNER COLLEGE, NY*

- Oversight of the Wagner College Electron Microscopy Center which included a Philips CM100 TEM, Topcon ABT32 SEM and the Nikon PCM 2000 confocal. During my tenure, we have secured new to Wagner scanning electron and laser scanning confocal microscopes through college donations.
- I have worked to secure funds through college budget and donations to upgrade both electron microscopes to be equipped with digital imaging systems.
- Secure all yearly service contracts.
- Oversee all facility users; oversight of facility graduate assistant; user scheduling, equipment upkeep, scheduling equipment maintenance.

SELECTED COLLEGE SERVICE

Fall 2020 – Spring 2022

Fall 2020 – Spring 2021

Fall 2019 - Spring 2020

Co-Chair - Chair, Higher Education Health Analytics Task Force

Faculty Personnel Committee – Chair

Health Science Taskforce

Fall 2019 – Fall 2020	Priorities and Budget Committee – Science division rep
Fall 2012 – Present	Graduate Council – Microbiology Program Representative
Fall 2014 – Spring 2019	Academic Policy Committee – Science rep, recording secretary
Fall 2012 – Spring 2019	Member, Wagner College First Year Program

EMPLOYMENT RECORD

Professor of Biology – Jacksonville University, FL **2022 – present**
 Promoted to Professor with tenure when hired as Dean, College of Arts and Sciences

Associate Professor of Biology - Wagner College, NY **2018 – 2022**
 Taught undergraduate courses in molecular microbiology and performed research in the areas of neuroimmunology, neurodegeneration, and neuroregeneration. Performed administrative duties in roles mentioned previously.

Assistant Professor of Biology - Wagner College, NY **2012 – 2019**
 Taught undergraduate courses in molecular microbiology and performed research in the areas of neuroimmunology, neurodegeneration, and neuroregeneration. Performed administrative duties in roles mentioned previously.

Graduate Assistant - City University of New York, NY **2008 – 2012**
 Taught lab courses in eukaryotic cell biology and general microbiology while working on the doctoral research

Adjunct Instructor - Wagner College, NY **2008 – 2012**
 Taught undergraduate lab courses in histology and microbiology.

Graduate Assistant in Microbiology - Wagner College, NY **2006 – 2008**
 Prepared media and maintained cultures for teaching lab classes while working on the master’s degree.

Electron Microscopy Technician - NYS Institute for Basic Research, NY **2005 – 2008**
 Prepared samples for transmission and scanning electron microscopy as part of a core facility. Trained users on all instrumentation, was responsible for scheduling all users, responsible for all equipment maintenance.

GRANTS

Summer 2021 - “Cellular characterization of regenerative events in adult zebrafish optic tectum grown in organotypic culture;” grant submitted to the Wagner College Anonymous Donor Grant \$7,000 (Role: PI); (funded)

January 2019 – “Acquisition of a laser scanning confocal microscope for mechanisms into physiological control mechanisms” NSF-MRI; Principal Investigator, \$347,000 (*not funded, highly meritorious*)

Summer 2017 - “The ability of *Listeria monocytogenes* to internalize into non-phagocytic cells of the zebrafish central nervous system – an *in vitro* and *in vivo* study;” grant submitted to the Wagner College Anonymous Donor Grant \$7,000 (Role: PI); (funded)

Summer 2016 - “Investigation of virulence gene function in *Listeria monocytogenes* when infecting the zebrafish central nervous system;” grant submitted to the Wagner College Anonymous Donor Grant \$7,000 (Role: PI); (funded)

Summer 2014 - “Morphological and Molecular Characterization of neuroimmunological responses in adult zebrafish optic tectum infected with *Listeria monocytogenes*;” grant submitted to the Wagner College Anonymous Donor Grant \$7,000 (Role: PI); (funded)

Summer 2014 – “Light and Electron Microscopic Analysis of the Post-traumatic Cellular events in Adult Zebrafish Optic Tectum,” grant submitted to the Wagner College Anonymous Donor Grant \$7,000 (Role: Co-PI); (funded)

PUBLICATIONS

Patents

Curcumin Derivatives - Raja, K.S, Alonso, A, Banerjee . P, Dolai.S , Averick. S, **Corbo. C**, Shi. W, Debnath. S, Mogha. S ,PCT US11/26308 **2011**

Book Chapter

Christopher P. Corbo & Alejandra del C. Alonso; Therapeutic targets in Alzheimer disease and related tauopathies; *Prog Mol Biol Transl Sci.* 2011;98:47-83.

Peer-Reviewed Journal Articles

Robert F Candia, Leah S. Cohen, Viktoriya Morozova, **Christopher P. Corbo**, Alejandra Alonso; Importin-mediated pathological tau nuclear translocation causes disruption of the nuclear lamina, TDP-43 mislocalization and cell death; *Frontiers in Molecular Neuroscience*; section on *Brain Disease Mechanisms* (2022); Volume 15, Article #888420; DOI: 10.3389/fnmol.2022.88842

Ricardo L. Peguero, Andras Bimbo-Szuhai, Ian T. Massaro, Kevin D. Roach, **Christopher P. Corbo**; Novel mounting of biological tissue samples for 3D model reconstruction using tandem scanning electron microscopy and photogrammetry software; *Microscopy Research and Technique*; (2022); DOI: 10.1002/jemt.24142

Ricardo L. Peguero, Nicole A. Bell, Andras Bimbo-Szuhai, Kevin Roach, Zoltan L. Fulop, & **Christopher P. Corbo**; Ultrastructural analysis of a forming embryonic embodiment in the adult zebrafish optic tectum surviving in organotypic culture; *NeuroSci* (2022); 3, 186-199; <https://doi.org/10.3390/neurosci3020014>

Emma L. Gunderson, Clifford Bryant, Christina A. Bulman, Chelsea Fischer, Mona Luo, Ian Vogel, K.C. Lim, Shabnam Jawahar, Nancy Tricoche, Denis Voronin, **Christopher Corbo**, Rene B. Ayiseh, Faustin P.T. Manfo, Glory E. Mbah, Fidelis Cho-Ngwa, Brenda Beerntsen, Adam R. Renslo, Sara Lustigman, and Judy A. Sakanari; Pyrvinium Pamoate and Structural Analogs Are Early Macrophilicidal Leads; *Pharmaceuticals*, (2022); 15, 189; <https://doi.org/10.3390/ph15020189>

Christopher P. Corbo & Zoltan L. Fulop; Regional differences in the ependyma of the optic tectal ventricle of adult zebrafish with structures referring to brain hydrodynamics.; *Microsc Res Tech.* 2020 Jun;83(6):667-675; Feb. 2020

Donald E. Stearns, Adam J. Houlihan, **Christopher P. Corbo**, Roy H. Mosher; *Teaching Critical Thinking and Civic Thinking in a College Freshman Course*; *Journal on Excellence in College Teaching*, June 2017, 28(2); 193-217

Christopher P. Corbo & Zoltan L. Fulop; Formation of structures resembling early embryonic neural plate in traumatized adult zebrafish optic tectum maintained in organotypic culture; Winter 2017 *In Vivo*, Vol 38(2) 28-43

Alejandra Del C. Alonso, Cindy Beharry, **Christopher P. Corbo**, and Leah Cohen; Molecular mechanisms of prion-like tau-induced neurodegeneration; *Alzheimers Dement.* 2016 Oct;12(10):1090-1097

Jing Di, Leah Cohen, **Christopher P. Corbo**, Gregory R. Philips, Abdeslem El Idrissi & Alejandra del C. Alonso; Abnormal tau induces cognitive impairment through two different mechanisms: synaptic dysfunction and neuronal loss; *Sci Rep.* 2016 Feb 18;6:20833.

Mina Farid, **Christopher P. Corbo**, Alejandra del C. Alonso; Tau binds ATP and induces aggregation; (2014) *Microscopy Research and Technique*, Feb;77(2):133-137

Deborah Sturm, Alejandra Alonso, **Christopher Corbo**, Isaac Osoro, Cynthia Murillo; Quantitative Analysis of the effect of Phosphorylated Tau on Cellular Microfilament Networks, SPIE, 2013 Volume 8672

Christopher P. Corbo, Nidaa A. Othman, Michael C. Gutkin, Alejandra del C. Alonso, Zoltan L. Fulop; Use of different morphological techniques to analyze the cellular composition of the adult zebrafish optic tectum; (2012) *Microscopy Research and Technique*, Mar;75(3):325-33

Sturm, D., Jawad, M., Alonso, A., **Corbo, C.**; A cytoskeleton linearity measure, *Image Analysis and Interpretation (SSIAI)*, 2012, pages 45-48.

Sukanta Dolai, Wei Shi, **Christopher Corbo**, Chong Sun, Saadyah Averick, Dinali Obeysekera, Mina Farid, Alejandra Alonso, Probal Banerjee, and Krishnaswami S Raja; “Clicked” Sugar Curcumin Conjugate: Modulator of Amyloid-beta and Tau Peptide Aggregation at Ultra-low Concentrations; *ACS Chem Neurosci*; 2011, 2 (12), 694–699

Zulmarie Franco, Marlene Streisinger, **Christopher P Corbo**, Linda A. Raths, Zoltan L. Fulop; Morphophysiological Characterization of the adult zebrafish peripheral blood; (2011); *In Vivo*, 32(3),56-66

Alejandra del C. Alonso, John Di Clerico, Bin Li, Christopher P Corbo, M. Eugenia Alaniz, Inga Grundke-Iqbal, Khilaid Iqbal; Phosphorylation of Tau at Thr212, Thr231, and Ser262 Combined Causes Neurodegeneration; *J Biol Chem.* 2010 Oct 1;285(40):30851-30860.

Christina Lamb, Ammini Moorthy, **Christopher Corbo** & Zoltan Fulop; Teratogenic Effects of Lithium Chloride on Eye Development in Early Embryogenesis of Zebrafish (*Danio rerio*); *In Vivo*, 2009; 31(1); 24-31

Alejandra del C. Alonso & **Christopher P. Corbo**; Novel Therapeutics Based on Tau/Microtubule Dynamics; *Expert Opinions on Therapeutic Patents*; 2009; 19(9), p. 1335-8

Charles E. Isaacs, Guang Y. Wen, Weimin Xu, Jun Hua Jia, Lisa Rohan, **Christopher Corbo**, Vincenzo Di Maggio, Edmund C. Jenkins, Jr., Sharon Hiller; Epigallocatechin Gallate Inactivates Clinical Isolates of Herpes Simplex Virus *Antimicrob. Agents and Chemother.*, 2008 Mar;52(3):962-70.

Andrew Needle, **Christopher Corbo**, Denise Wong, Garry Greenfeder, Linda Raths and Zoltan Fulop, Combining Arts and Sciences in “Arts and Sciences” Education; *College Teaching*, Vol. 55, No. 3, 2007

Published Pedagogical Lab Demonstrations

Christopher P. Corbo, Jonathan Blaize, and Elizabeth Suter; The Needs of the Many; what different bacteria need to grow successfully. 2019 **Journal of Visual Experimentation**.

Jonathan Blaize, Elizabeth Suter, and **Christopher P. Corbo**; Too Numerous to Count! An evaluation of microbial enumeration through serial dilution and plating. 2019; **Journal of Visual Experimentation**.

Elizabeth Suter, **Christopher P. Corbo**, and Jonathan Blaize; How diverse microbial species establish a unified ecosystem: The Winogradsky Column. 2019; **Journal of Visual Experimentation**.

Abstracts Published in Peer-Reviewed Journals

Eden Stark, Marc Valitutto, Kathleen Bobbitt and **Christopher Corbo**; Prevalence of *Salmonella* spp. And serogroups found in venomous and nonvenomous snakes maintained in a zoological collection; The FASEB Journal 29(1); Supp. 575.11 (presentation by Eden Stark at Experimental Biology, 2015); **San Diego, CA**

Christopher P. Corbo, Corey E. Gaylets, Alex J Molesan and William A. Rivera; *Listeria monocytogenes* infects zebrafish central nervous system; a useful model to analyze the neuroimmune response; Microsc. Microanal. 20 (Suppl 3), 2014 (presentation at Microscopy and Microanalysis, 2014) **Hartford, CT**

Horst Onken, Monica Bassous, David Moffett and **Christopher Corbo**; The Alkaline Midgut of Larval Mosquitoes as a Barrier for Microorganism, The FASEB Journal, 4/2014; 28(1); (presentation by Horst Onken at Experimental Biology, 2014); **San Diego, CA**

Alejandra del C. Alonso, Maria Eugenia Alaniz, **Chistopher Corbo**; Effect of Alzheimer-like pseudophosphorylated tau on microtubules dynamics in a live-imaging system; *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* July 2010 (Vol. 6, Issue 4, Supplement, Pages S279-S280); also presented at International Conference on Alzheimer's Disease (AAICAD) 2010, **Honolulu Hawaii, USA**

Alejandra del C. Alonso, **Christopher P. Corbo**, William L'Amoreaux; Live Imaging, Immunocytochemistry and Electron Microscopic Studies of the Effect of Alzheimer-like Phosphorylation on Tau; Microscopy and Microanalysis (2010), 16: 1010-1011; also presented at Microscopy and Microanalysis Conference 2010, **Portland, OR, USA**

GY Gary Wen, **Christopher P Corbo**, E Charles Jenkins Jr, Sara Rose Guariglia, Nan Zhong, Wena Zhong, Edmund C Jenkins, W Ted Brown; Nuclear pore is significantly increased in numbers in the skin fibroblast cultured cells of the Hutchinson-Gilford progeria syndrome. Scanning 2006 , **Washington, D.C.**, April 25th, 2006. Scanning. March/April 2006;28(2):98,99.

Selected Abstracts Published in Proceedings of Research Conferences

Corbo, C., Gaylets, CE., Molesan, AJ., Rivera, WA.; *Listeria monocytogenes* infects zebrafish central nervous system; a useful model to analyze the neuroimmune response; presentation at Microscopy and Microanalysis, 2014 **Hartford, CT**

Corbo C, Alaniz ME, Farid M, Alonso A; Use of time lapse imaging to study the effect of hyperphosphorylated tau; Microscopy and Microanalysis 2011; **Nashville TN, USA**

Farid M, **Corbo C**, Alonso A; Characterization of tau filament assembly with the addition of varying concentrations of ATP and GTP using transmission electron microscopy; Alzheimer's Association International Conference on Alzheimer's Disease 2011 (AAICAD), July 16-21, 2011 in **Paris, France**

Corbo C, Alaniz ME, Farid M, Alonso A ; Time lapse imaging and dynamic analysis of microtubule disruption caused by tau hyperphosphorylation; Alzheimer's Association International Conference on Alzheimer's Disease 2011 (AAICAD), July 16-21, 2011 in **Paris, France**

Alaniz ME, **Corbo C**, Farid M, Braun A, Alonso AC; Expression of Alzheimer-like pseudophosphorylated tau at Thr212, Thr231 and Ser262 induces a behavioral defect in *Drosophila melanogaster*; Alzheimer's Association International Conference on Alzheimer's Disease 2011 (AAICAD), July 16-21, 2011 in **Paris, France**

N. Nunez, Rodriguez, E. Alaniz, **C. Corbo**, M. Rodriguez, A. Alonso; Unraveling the Pseudophosphorylated TAU Role in Alzheimer Dementia Cell Death Mechanisms; Alzheimer's Association 2011 International Conference on Alzheimer's Disease (AAICAD) July 16-21, 2011 in **Paris, France**.

Z. Franco, **C. Corbo** & Z. Fulop; Formed Elements in Peripheral Blood of Adult Zebrafish (*Danio rerio*): An Ultrastructural Study; 2010 New England Science Symposium; **Boston, MA, USA** (2010)

C. Corbo, A. Lysenko, L. Consolo, M. Gutkin, Z. Fulop, A. Alonso; Use of zebrafish as a model organism for tau neurodegenerative diseases; Society for Neuroscience Annual Conference (SfN); **Chicago, IL, USA**; (2009)

JM. Merola, S. Browne, **C. Corbo**, W. L'Amoreaux, A. Alonso, The use of inducible expression and live cell imaging to study the effect of Alzheimer-like tau on microtubule dynamics; Society for Neuroscience Annual Conference (SfN); **Chicago, IL, USA**; (2009)

G.Y. Wen, Y.W. Hwang, M.H. Lee, **C. Corbo**, E.C. Jenkins Jr., S.R. Guariglia, W.T. Brown; Generation and characterization of Neuroligin-3 knock down mice for Autism Research; New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY 10314; Presented at The International Meeting for Autism Research (IMFAR), **London, UK** (2008)

HONORS & AWARDS

Spring 2022	Staten Island Economic Development Corporation (SIEDC) – 20 under 40 Award
Spring 2022	Faculty Performance Award for Service – Wagner College
Spring 2017	Faculty Performance Award for Scholarship – Wagner College

Spring 2015	Faculty Performance Award for Service to the College – Wagner College
Spring 2014	Microbiology Graduate Faculty of the Year Award – Wagner College
Summer 2011	Travel fellowship from the International Conference on Alzheimer’s Disease to present my work at the 2011 meeting in Paris, France
Summer 2008	Blood Brain Barrier research summer stipend, Wagner College
Summer 2008	Microbiology Graduate Student Award
Fall 2006	Second Place Presentation Award in the Graduate Student category at the MACUB Conference 2006
Fall 2005	Dean’s List
Fall 2005	Best Presentation Award in the College and University Category at the MACUB Conference 2005
Fall 2005	Best Presentation in Physiology and Immunology at the Sigma Xi Student Research Conference
Spring 2005	Wagner College Biology Department Project Pericles Nominee
Spring 2005	Robert D. Blomquist Memorial Award in Biology
Spring 2005	Best Poster in Physiology and Microbiology at the Eastern Colleges Science Conference
Fall 2004	Hormesis Research Scholarship Award

TEACHING EXPERIENCE

I have taught the following courses through my various teaching appointments:

- Microbiology *Wagner College – MI200 & Lab*
- General Microbiology Lab *CUNY College of Staten Island – BI314*
- Pathogenic Fungi Lab *Wagner College - MI513*
- Graduate Seminar I & II *Wagner College – MI710/720*
- Advanced Microbial Physiology *Wagner College – MI626 & lab*
- Electron Microscopy *Wagner College - MI615*
- Molecular Biotechnology *Wagner College - BI/MI524*
- Exploring Biology *Wagner College - BI130*
- Basic Medical Histology Lab *Wagner College - BI311*
- Neuroanatomy & Neurophysiology Lab *Wagner College - BI306*
- Cell Biology Lab *CUNY College of Staten Island - BI352*
- Immunology & Serology *Wagner College – MI521*
- Microbial Genetics *Wagner College – MI522*
- Applied, Food and Industrial Microbiology *Wagner College – MI512*
- Cellular Microbiology *Wagner College – MI630*

RESEARCH EXPERIENCE

My research since joining the Wagner faculty has focused on how the brains of lower vertebrates are able to regenerate and the neuroimmunological response that occurs during this recovery. This organism is a great model for undergraduate students to participate in vertebrate and neuroscience research. To answer the questions, I pose within my field of study, I utilize various advanced imaging modalities as well as molecular techniques. I have developed proficiency in the following technologies:

- Laboratory research involving cellular morphology using both light (brightfield and confocal) and electron microscopy histotechniques including ultrathin sectioning

- Managing Multi-user Imaging facilities
- Scanning, transmission, laser scanning confocal, and light sheet microscopy
- Microbiological techniques including establishing cultures, preparing media, and proper disposal of biological waste
- Working with both pathogenic and nonpathogenic bacteria and viruses
- Handling and isolating bacteriophage
- Immunohistochemistry for light and electron microscopy
- Recombinant DNA techniques & gene manipulation using Site directed Mutagenesis, Gibson assembly, CRISPR, standard Lambda Red recombination
- Protein analysis including SDS-PAGE and western blotting techniques
- Eukaryotic cell and tissue culture techniques
- Handling experimental mice and zebrafish both in the animal colony as well as in the lab performing animal surgeries (including micro-surgery)
- Training users in the EM equipment as well as the preparatory techniques involved
- Regular use and maintenance of both laser scanning confocal, TEM and SEM equipment including Nikon, Lecia, Philips, Hitachi and Topcon

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2021 - Present	American Conference for Academic Deans
2012 – Present	Council for Undergraduate Research
2006 – Present	Sigma Xi Associate Member
2006 – Present	Microscopy Society of America
2006 – Present	American Society for Microbiology
2005 – Present	Metropolitan Association of College and University Biologists