

## LAWRENCE F. ROBERGE

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### SUMMARY OF QUALIFICATIONS

- Over TEN years full time experience in teaching Anatomy & Physiology and other Biology-related topics (examples: Chemistry, General Biology, Microbiology, Biochemistry, Biotechnology, Human Biology, Environmental Science, Immunology, Nutrition, and Genetics) in both lecture and laboratory setting as well as in online courses.
- Proficient in teaching under collaborative, inquiry-based, and computer assisted pedagogical formats.
- Excellent writing, web page design, organizational, communication, and computer skills.
- Strong experience in relating biological and medical concepts to allied-health issues.
- Extensive experience with distance learning techniques and integrating technology into a science classroom format.
- Strong college experience in advising students, committee work, as Biology course coordinator, and Science Dept. Chair.

### PROFESSIONAL EXPERIENCE

- 2018-2019                      THREE RIVERS COMMUNITY COLLEGE, Norwich, CT  
Anatomy & Physiology Professor
- Teach Anatomy & Physiology (1 & 2) lecture and labs.
  - Advised students in course selection and degree requirements.
- 2014-present                      WESTERN NEW ENGLAND UNIVERSITY, Springfield, MA  
Senior Lecturer
- Teach General Biology and Anatomy & Physiology labs.
- 2014                                      EXCELSIOR COLLEGE, Albany, NY  
Adjunct Microbiology Instructor
- Taught online Microbiology lectures and labs for students using Blackboard and CONNECT.
- 2013-present                      NORTH VIRGINIA COMMUNITY COLLEGE, Annadale, VA  
Adjunct Online Anatomy & Physiology Instructor
- Teach online ANATOMY & PHYSIOLOGY and Pathology lectures and labs.
- 2009-2018                      LABOURE COLLEGE, Boston, MA  
Professor of Anatomy & Physiology & Microbiology
- Taught Anatomy & Physiology (1 & 2) lecture and labs for Nursing and Allied Health Students.
  - Taught hybrid Anatomy & Physiology (1 & 2)-lecture and labs.
  - Design and taught classroom & online Microbiology course.
  - Served on Institutional Research Board (IRB) for Human Subject Experiments.
  - Advised students in course selection and degree requirements.
- 2007-2012                      SOUTH UNIVERSITY, Pittsburgh, PA  
Online Adjunct Instructor
- Taught an online Biology (I & II) course with lab using eCOLLEGE and Lab software.
  - Taught an online Anatomy & Physiology course (I & II) using eCOLLEGE and Lab software.
- Aug 2005-2008                      FLORIDA COMMUNITY COLLEGE, Jacksonville, FL  
Online Adjunct Instructor
- Taught an online Biology lab course (Principles of Biology I) using BLACKBOARD and COMPASS course shell.
- 2003-2006                      BECKER COLLEGE, Worcester, MA  
Online Adjunct Instructor
- Designed and taught an online Nutrition course using BLACKBOARD, streaming media audio files, graphic organizers, and nutrition inventory assignments.
- 2003-2005                      GOODWIN COLLEGE, East Hartford, CT  
Associate Professor of Science-Full Time, Science Dept. Chair
- Taught students Chemistry, Anatomy & Physiology 1 & 2, and Microbiology courses.
  - Supervised and mentored science dept. faculty as well as coordinated science dept. resources, faculty, and curriculum.
  - Directed design and development of science laboratories and science curriculum.
  - Advised students in course selection and degree requirements.
- 2002                                      ITT Technical, Carmel, IN  
Online Adjunct Instructor
- Taught course: SKILLS FOR THE TECHNICAL SPECIALIST.

- Aug 2000-Jun 2002      ORANGE COUNTY COMMUNITY COLLEGE: SUNY-ORANGE, Middletown, NY  
 Department of Biology  
 Biology Instructor-Full Time  
 - Taught General Biology 1 & 2, Vertebrate Biology, and Human Biology courses.  
 - Coordinated General Biology labs and lectures with lab staff and instructors.  
 - Expanded computer instruction and Biotechnology techniques in classes.  
 - Taught labs using PCR, Gel Electrophoresis, Plant tissue culture, and Mendelian genetics fruit fly lab experiments.
- Aug 1999-Jun 2000      HOLYOKE COMMUNITY COLLEGE, Holyoke, MA  
 Division of Continuing Education  
 Adjunct Instructor  
 -Taught Introduction to Nutrition courses both on campus and off campus.
- Aug 1997-Jun 2000      SPRINGFIELD HIGH SCHOOL OF SCIENCE & TECHNOLOGY, Springfield, MA  
 Science Department  
 Teacher-Biology/Chemistry/Biotechnology-Full Time  
 - Taught Introduction to Biotechnology, Biology, Human Biology, and Chemistry courses.  
 - Instructed using computer assisted and inquiry-based methods.  
 - Designed yearlong biotechnology course and laboratory exercises.
- Sep 1997-2000      ELMS COLLEGE, Chicopee, MA  
 Division of Continuing Education  
 Adjunct Instructor  
 - Developed and taught Biology: Human Concerns and Environmental Science courses.
- Nov 1996-2004      LESLEY UNIVERSITY, Cambridge, MA  
 General Education and School of Management Program  
 Adjunct Faculty Instructor  
 - Developed Environmental Science, Genetics, Nutrition, and Technology & Society course curricula as well as taught all courses both on site and using distance learning approach.  
 - Designed and taught online courses using BLACKBOARD CMS.
- Jan 1996-Jun 1996      BAY PATH COLLEGE, Longmeadow, MA  
 Department of Math and Science  
 Adjunct Professor  
 - Taught General Biology course; both lecture and laboratory sessions, including use of dissection and biotechnology experiments.
- 1989-1993      NERAC, Inc., Tolland, CT  
 Technology Specialist (Pharmaceutical, Biotech, Medical)  
 -Advised medical, biotechnological, chemical, aerospace, and pharmaceutical companies across the U.S., Europe, and Japan on issues of basic research, product development, marketing, patents, and government regulations.
- 1989      INTERSTATE NUCLEAR SERVICES, Springfield, MA  
 Nuclear Chemist  
 - Researched and developed radioisotope decontamination treatments for oil, fabric, and metal.
- 1988      MASSACHUSETTS GENERAL HOSPITAL, Boston, MA  
 Renal Research Unit, Senior Research Technician  
 - Managed cell cultures (mammalian, reptile, human) to supply renal research studies.  
 - Coordinated lab personnel to avoid lab contamination.  
 - Performed select culture experiments.  
 - Reduced cell culture contamination losses from 80% to less than 3%.

## **EDUCATION**

Atlantic International University, Honolulu, HI  
 Ph. D in Biology: Advisor: Dr. Franklin Valcin  
 DISSERTATION THESIS: Introduced Species as a Form of Biological Weapon

Florida Community College, Jacksonville, FL  
 Certificate in Online Professor Teaching and Instruction

University of Massachusetts Medical Science School, Worcester, MA

## Master of Science in Biomedical Sciences

### University of Massachusetts-Amherst, Amherst, MA

- Bachelor of Science in Psychology
- Bachelor of Science in Zoology, Minor-Chemistry

### Becker College, Worcester, MA

#### Certificate in Biotechnology Studies

-Extensive study and skills in QC/QA CFR 600/601, cell culture, immunoassays, fermentation, and bioprocessing techniques.

## LABORATORY SKILLS

Cell Culture (animal, plant, yeast, bacteria), Polymerase Chain Reaction, HPLC, ELISA, Gel Electrophoresis, Southern Blotting, Small Animal Surgery, Gene Cloning, UV/VIS/IR Spectrophotometry, DNA Sequencing, Immunocytochemistry, Radioimmunoassays, PowerPoint, Microsoft Office, HTML, Adobe Photoshop, Video Microscopy, RasMol, CHIME, MOODLE, BLACKBOARD, JAVASCRIPT, FLASH, ANATOMAGE, CANVAS, CAMTASIA, eCollege, Bioinformatics (GENBANK), BIOCLIM & GARP (Environmental Niche Modeling software), QuickTime.

## WORKSHOP/SEMINAR TRAINING

- MIT Workshop-2011-Pandemics & Bioterrorism
- Advanced Medical Techniques in Hostile Environments-MEDICAL CORPS
- DNA Sequencing Without Radioactivity.
- Basic Cloning and Hybridization Techniques.
- Introduction to Polymerase Chain Reaction.
- Biology Training Institute-UMASS/HHMI.
- Using FLASH for online course instruction.
- Designing Online Courses Using BLACKBOARD CMS.
- Microscale Chemistry in the Classroom.
- CREating Optimum Learning Environments (CREOLE)
- Molecular Biol. & Genetics-Hampshire College/HHMI.
- Teaching Science Courses Online.
- Introduction to Molecular Modeling (RasMol & CHIME).
- Faculty Training on the Family Educational Rights and Privacy Act (FERPA).
- YOU TUBE skills and tricks every instructor can use.
- KNOWLEDGE FORUM: Facilitating development of Idea-centered Learning Environments.
- Disasters and Public Health: Lessons for Bioterrorism Preparedness Trainer.
- Principles and Emergency Applications of Hemostatic Agents-instructor level training.
- Measuring Disease Dynamics in Populations: Characterizing the Likelihood of Control.
- Teaching Science Online.
- Applying FLASH to online course content.
- Tactical Combat Causality Care (TCCC).

## GRANTS & AWARDS

- **2017-HARVARD MEDICAL/BETH ISRAEL DEACONESS DISASTER MEDICINE FELLOWSHIP: CBRN AND BIOTERRORISM**
- **2005-CASE/CARNEGIE FOUNDATION AWARD-PROFESSOR OF THE YEAR.**
- 2005-Award for Innovative Excellence in Teaching, Learning and Technology, Center for the Advancement of Teaching and Learning.
- 2001 & 2002-Harriman Grant Awards-Grants purchased multimedia technology and software for OCCC Biology Dept.
- 2000-Springfield Chamber of Commerce Teaching Excellence Award-Celebrated Teacher.
- 1997, 1998, 1999-Mass. Mutual Grant Awards-Grants used to fund biotechnology course and lab equipment at High School of Science & Technology.

## PAPERS:

1. Roberge, Lawrence F. (2015) Agriculture, Biological Weapons and Agrobioterrorism: A Review. *EC Agriculture* 1.4): 182-200.
2. Lawrence F Roberge (2014) Chikungunya Virus (CHIKV): Coming to America. *Biosafety* 3: e149. doi: 10.4172/2167-0331.1000e149
3. Roberge Lawrence F (2013) Black Biology-A Threat to Biosecurity and Biodefense. *Biosafety* 2: e139 doi: 10.4172/2167-0331.1000e139
4. Roberge LF (2013) Analysis of Introduced Species as a Form of Biological Weapon: Part 1-Theory and Approaches. *Biosafety* 2: 107.doi:10.4172/2167-0331.1000107.
5. Roberge LF (2013) Analysis of Introduced Species as a Form of Biological Weapon: Part 2-Detection and Counterstrategies. *Biosafety* 2:111. doi: 10.4172/2167-0331.1000111
6. Roberge, L.F. 2006, Chemical Weapons, *Catholic Social Thought, Social Science, and Social Policy: An Encyclopedia*, ed., Joseph A. Varacalli, Stephen M. Krason, and Richard S. Myers (Lanham MD: Scarecrow Press)
7. Roberge, L.F. 2006, Biological Weapons, *Catholic Social Thought, Social Science, and Social Policy: An Encyclopedia*, ed., Joseph A. Varacalli, Stephen M. Krason, and Richard S. Myers (Lanham MD: Scarecrow Press)

8. Roberge, L. F., 2006, Cloning: Scientific, Technological & Ethical Considerations, St. John's Journal of Legal Commentary, Fall 2005, 20, 1, 57-70.
9. Roberge, L.F. 2002, "A Lesson in Economics by Alan Greenspan ", Teachers.Net Gazette, May 2002, <http://teachers.net/gazette/MAY02/roberge.html>
10. Roberge, L.F. 2002, "Teaching Perseverance Through Adversity-A History Lesson ", Teachers.Net Gazette, Apr 2002, <http://teachers.net/gazette/APR02/roberge.html>
11. Roberge, L.F.: It's Time for Biotechnology in Western Mass. BusinessWest, April 1994, 10, 12: 8.
12. Ferris, C.F., Axelson, J.F., Martin, A.M., Roberge, L.F.: Vasopressin immunoreactivity in the anterior hypothalamus is altered during the establishment of dominant/subordinant relationships between hamsters. Neuroscience 1989, 29, 3: 675-683.

#### **Papers presented:**

1. Prions as a potential Bioweapon-Hazard Prediction and Risk Analysis, Poster presentation, Chemical & Biological Defense Science and Technology Conference, DTRA, Long Beach, CA, Nov 28-30, 2017.
2. Hypothermia and Other Cold Weather Injuries, Nursing Seminar, Laboure College, Milton, MA, Dec 5, 2016.
3. Prions as a Potential Biological Weapons. Poster Presentation, 2016 BIODEFENSE, American Society of Microbiology, Reston, VA, Feb 8-10, 2016.
4. Hemostatic Agents and Bleeding Management, Nursing Seminar, Laboure College, Milton, MA, June 3, 2015.
5. Analysis of Introduced Species as a Form of Biological Weapon. Poster presentation, Chemical & Biological Defense Science and technology Conference, DTRA, St. Louis, MO, May 12-14, 2015.
6. Analysis of Introduced Species as a Form of Biological Weapon. NCT CBRNe USA 2015, Reston, VA, April 30, 2015.
7. Classroom and E-Learning Applications of IMPATICA. Celebrating the Two-Year College Experience, College Board, Worcester, MA, Oct 20, 2006.
8. Classroom Applications of Microsoft Producer. Celebrating the Two-Year College Experience, College Board, Worcester, MA, Oct 21, 2005.
9. Classroom Applications of Microsoft Producer. 16th International Conference on Teaching, Learning, and Technology, Jacksonville, FL, Mar 31, 2005.
10. Cloning: Scientific, Technological & Ethical Considerations. Engineering Eden: Investigating the Legal and Ethical Dilemmas of Modern Biotechnology, 12th Annual Symposium of the St. John's Journal of Legal Commentary, St John's University Law School, Jamaica, NY, February 25, 2005

#### **REVIEWER/EDITOR:**

- 2014-present-Peer Reviewer-Journal of Anatomy & Physiology-MedCrave Online Journals.
- 2013-present-Editorial Board Member- Journal of Biosafety, Omics Online.
- 2011-2012-Supereditor for W.H. Freeman, Catalyst Instructor guide to accompany Jay Phelan's textbook, "What is Life? A Guide to Biology", second edition.
- 2008-2009-Supereditor for W.H. Freeman, Catalyst Instructor guide to accompany Jay Phelan's textbook, "What is Life? A Guide to Biology", first edition.
- 2005-2010-Biology Reviewer/Editor for MERLOT (Multimedia Educational Resource for Learning and Online Teaching).