

Curriculum vitae

ELIZABETH E. HART (CORREIRO) M.A., MT (ASCP)

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EDUCATION HISTORY

- 2008 Master of Arts in Teaching- Biology
Graduate School of Education
University of Massachusetts Dartmouth, North Dartmouth, MA
- 2001 Teaching Certificate, Secondary Education, Science
University of Rhode Island, Kingston, Rhode Island
- 1991 Bachelor of Science Degree- Clinical Laboratory Science
Framingham State College

CERTIFICATIONS

- 2016-Present Inspector-College of American Pathologists (CAP)
- 2012-Present Assessor-AABB (formerly American Associations of Blood Banks)
- 2002 Secondary Education Teaching Certification, Biology and General Science
State of Rhode Island and Providence Plantations
- 1991 NCA, Clinical Laboratory Scientist, Generalist (015645612)
- 1991 MT-ASCP, Medical Technologist, Generalist (185649)

LABORATORY EMPLOYMENT HISTORY

- 1995-Present (Per diem) BRIGHAM & WOMEN'S FAULKNER HOSPITAL (BWFH)
Boston, Massachusetts
Senior Technologist, Department of Transfusion Medicine
Member of a multidisciplinary team in a 160-bed community teaching hospital. Perform pretransfusion testing and preparation of blood products for transfusion. Special testing and reference work are performed in house. Participate in training new employees as well as interns from various medical schools. Assist in the development and continued maintenance of the laboratory *Quality Plan and SOPs*. Serve as a member of the Transfusion Committee.
- 1991- 1995 New England DEACONESS HOSPITAL, Boston, Massachusetts
Medical Technologist, Department of Transfusion Medicine
Responsibilities like current laboratory position yet in a much larger teaching hospital. Full-time employment working evening shift. (See Above)

RESEARCH EXPERIENCE

June 2005-2012 Molecular Biology Laboratory
UMass-Dartmouth, North Dartmouth, MA
Co-Principal Investigators: Peter E. Hart, Ph.D., Dept. of Biology,
UMass-Dartmouth and Catherine Neto, Ph.D., Dept. of Chemistry and
Biochemistry, UMass-Dartmouth.
Research is entering its fourth consecutive year.
Funding (\$50,000. annually) awarded by the Cranberry Institute,
UMass Dartmouth.
Most recent project: Examining the effects of polyphenolic
compounds isolated from *Vaccinium Macrocarpon* on cultured,
Mammalian colon and breast tumor cell lines.

TEACHING EXPERIENCE

2017-Present Senior Lecturer, Dept. of Medical Laboratory Science
University of Massachusetts Dartmouth, North Dartmouth, MA

2003-Present Full-Time Lecturer, Dept. of Medical Laboratory Science
University of Massachusetts Dartmouth, North Dartmouth, MA

2017-Present Education Director, Center for Molecular Diagnostics
University of Massachusetts Dartmouth, North Dartmouth, MA

2008-2010 Director, STEM Biotechnology and Forensic Science Summer Camp
STEM. Southcoast Regional PreK-16

2002-2004 Teacher: Biology, Biochemistry, and General Science
Portsmouth High School, Portsmouth, RI

Courses Instruct (Current)

- ❖ Clinical Immunohematology- Senior Intensive (MLS421)-*Course Coordinator*
- ❖ Senior Practicum-Immunohematology (MLS422)-*Course Coordinator*
- ❖ Clinical Immunobiology (MLS325)
- ❖ Clinical Immunobiology Laboratory (MLS326)-*Course Coordinator*
 - *Laboratory focus is immunoassays and molecular techniques*
- ❖ Human Genetics (MLS121)
- ❖ Human Genetics Laboratory-*Course Coordinator* (MLS122)
- ❖ Senior Seminar (MLS450)

Courses previously instructed

- Forensic Science and DNA Analysis (MLS200-Honors)-*Course Designer*
- Introduction to Clinical Laboratory Techniques (MLS116)
- Clinical Hematology Laboratory (MLS332)
- Molecular Diagnostics for Educators (SCI510)
- CAS101 (Introduction to the College of Arts and Sciences)

Peer reviewed publications

Developing a Student-Centered Donor Workshop in a University Setting (ED10)

E Hart, K Ouellette. Department of Clinical Laboratory Science, University of Massachusetts-Dartmouth, Dartmouth, MA.

AABB Annual Meeting and CTTXPO, Boston, MA. October 2018.

Validation of Quotient's IgG Sensitized RBCs (IGT82)

T Gorey¹, **E Hart**^{1,2}. ¹Transfusion Services, Brigham and Women's Faulkner Hospital, Boston, MA, United States; ²Clinical Laboratory Science, University of Massachusetts-Dartmouth, Dartmouth, MA.

AABB Annual Meeting and CTTXPO, Boston, MA. October 2018.

Use of Microscope for Pre-Transfusion Antibody Screens (CP254)

T Gorey¹, **E Hart**^{1,2}. ¹Transfusion Services, Brigham and Women's Faulkner Hospital, Boston, MA, United States; ²Clinical Laboratory Science, University of Massachusetts-Dartmouth, Dartmouth, MA.

AABB Annual Meeting and CTTXPO, San Diego, CA. October 2017.

Utilization Audit of Using Thawed Plasma (AP20)

T Gorey¹, **E Hart**^{1,2}. ¹Transfusion Services, Brigham and Women's Faulkner Hospital, Boston, MA, United States; ²Clinical Laboratory Science, University of Massachusetts-Dartmouth, Dartmouth, MA, United States.

AABB Annual Meeting and CTTXPO, Orlando, FL. October 2016.

Use of Expired Reagent Panel Cells: Reactivity and Hemolysis Indicators (SP307)

T Gorey¹, **E Hart**^{1,2}. ¹Transfusion Services, Brigham and Women's Faulkner Hospital, Boston, MA, United States; ¹Blood Bank, Brigham and Women's Faulkner Hospital, Boston, MA,

²Clinical Laboratory Science, University of Massachusetts, Dartmouth, MA, United States.

AABB Annual Meeting and CTTXPO, Philadelphia, PA. October 2014.

Temperature Devices for the Monitoring of Returned RBCs for Reissue (SP100)

T Gorey¹, **E Hart**^{1,2}. 2013. ¹Blood Bank, Brigham and Women's Faulkner Hospital, Boston, MA, United States; ² Clinical Laboratory Science, University of Massachusetts-Dartmouth, Dartmouth, MA.

AABB Annual Meeting and CTTXPO, Denver, CO. October 2013.

Tissue Usage Cards Used as a Quality Indicator (SP361)

T Gorey¹, **E Hart**^{1,2}. 2012. ¹Transfusion Services, Faulkner Hospital, Boston, MA, United States;

²Clinical Laboratory Science, University of Massachusetts-Dartmouth, Dartmouth, MA, United States.

AABB Annual Meeting and CTTXPO, Boston, MA. October 2012.

Difficulty in Monitoring Transfusion Transmitted Infections (SP430)

T Gorey¹, Dolores Marmol¹, **E Hart**^{1,2} 2012.

¹Blood Bank, Faulkner Hospital, Boston, MA,

²Clinical Laboratory Science, University of Massachusetts-Dartmouth, Dartmouth, MA, United States.

AABB Annual Meeting and CTTXPO, Boston, MA. October 2012.

Performance of the DAT Positive Control Cell on the Galileo Echo (SP347)

T Gorey¹, **E Hart**^{1,2}. ¹Blood Bank, Faulkner Hospital, Boston, MA,

²UMass-Dartmouth, Dartmouth, MA, United States.

AABB Annual Meeting and CTTXPO, San Diego, CA. October 2011.

Evaluation of Two RPR Card Test Kits (**SP364**)

T Gorey¹, **E Hart**^{1,2}. ¹Blood Bank, Faulkner Hospital, Boston, MA,

²UMass-Dartmouth, Dartmouth, MA, United States.

AABB Annual Meeting and CTTXPO, Baltimore, MD. October 2010.

Correiro E., Griffin L., Hart P. E. 2008. A constructivist approach to inquiry-based learning: A TUNEL assay for the detection of apoptosis in cheek cells. *The American Biology Teacher*; 70(8). 457-60.

Correiro E., Liberty, Anne M., Neto, C., and Hart, P.E. 2007. Tumor-specific cytotoxicity of polyphenolic compounds isolated from *Vaccinium macrocarpon*. *Molecular Biology of the Cell*. (Abstract).

Correiro E., Berube B. Feb. 2007. Professionalism: Making the Grade. *Clinical Laboratory Science*. (Abstract)

Correiro, E., Rego, S., Neto C., Hart P. E. 2006. Polyphenolic compounds isolated from *Vaccinium macrocarpon* affect tumorigenesis in breast and colon cell lines. *Molecular Biology of the Cell* 17: 662. (Abstract)

Brodeur L., **Correiro E.** Teaching Techniques to Increase First Year Success. *Clinical Laboratory Science*, spring 2006; 19(2). 95. (Abstract)

Griffin L., Rego S., **Correiro E.**, Neto C., Hart P. E. 2005. Induction of apoptosis in tumor cell lines by polyphenolic compounds isolated from *Vaccinium macrocarpon*. *Molecular Biology of the Cell* 11, 184a. (Abstract)

Non-peer review publications

Correiro, E., Neto, C., Hart, P.E. Polyphenolic compounds isolated from *Vaccinium macrocarpon* affect tumorigenesis in breast and colon cell lines. 13th Annual Sigma Xi Research Exhibit, UMass-Dartmouth; April 2007.

Griffin, L., Rego, S., **Correiro, E.**, Neto, C., Hart, P.E. Induction of apoptosis in tumor cell lines by polyphenolic compounds isolated from *Vaccinium macrocarpon*. 12th Annual Sigma Xi Research Exhibit, UMass-Dartmouth; April 2006.

Invited Seminars, Workshops and Presentations

National presentations

N Rubien¹, **E Hart**¹; ¹Medical Laboratory Science, University of Massachusetts, Dartmouth, MA.
Improving Scientific Writing and Literacy - An Integrated Approach
ASCLS Clinical Laboratory Educators' Conference (CLEC); Boston. February 24, 2017. (1.5 hours)

Nurses are from Mars; Lab Techs are from Venus: Interprofessional Collaboration in the Workplace. **9207-LMT** (1.5 hours)

CM. West RN, BSN, MBA, CPHQ Nursing Director: Quality and Magnet Programs, B. King¹, **E Hart**²,
³. ¹ Dana-Farber Cancer Institute, Boston, MA. ²Blood Bank, Faulkner Hospital, Boston, MA,
³UMass-Dartmouth, North Dartmouth, MA, United States.

AABB Annual Meeting and CTTXPO, Boston. October 7, 2012.

Strategies to Increase First-Year Student Success in a Clinical Laboratory Program (1.5 hours)
ASCLS Clinical Laboratory Educators' Conference (CLEC); February 2009.

Partial D in a Surgical Patient. (1.5 hours). American Society for Clinical Laboratory Scientist Annual Conference. Washington, D.C. July 2008.

Bouchard B, **Correio E**. Professionalism: Making the Grade; Clinical Laboratory Educators Conference (CLEC). San Antonio, TX. February 2008. (1.5 hours)

Hart P, **Correio E**. "A mini-curriculum that incorporates constructivist principles into a suite of DNA damage assays". National Biology Teachers Professional Development Conference; Memphis, TN. October 2008. (5 hours)

Hart P, **Correio E**. A Mini-curriculum that Incorporates Constructivist Principles into a Suite of DNA-Damage Assays National Biology Teachers Professional Development Conference; Atlanta, GA. December 2007. (2.0 hours).

Bouchard B., **Correio E.**, Boudria T. "Anatomy of a Biotechnology Program: UMass-Dartmouth Partnering with Bristol TechPrep". (1.5 hours) National TechPrep Network Annual Convention; September 2005.

Correio E., Bouchard B., Boudria T. "UMass Dartmouth- Bristol TechPrep Partnership Integrate Professionalism in the Classroom". (1.5 hours) National Tech Prep Annual Convention; October 2004.

Regional presentations

Antigen-Antibody Interactions: Back to Basics. A How-To for Interpretation of Panels (1.0 hour)
E Hart. UMass-Dartmouth, North Dartmouth, MA, United States.
Massachusetts Association of Blood Banks 42nd Annual Spring Seminar and Exhibit. Westford, MA. April 8, 2014.

Immunohematology Case Studies: Serology and Beyond. (1.5 hours)
E. Hart. UMass-Dartmouth, North Dartmouth, MA, United States.
ASCLS Region I Seminar, Springfield, MA. November 2013.

Immunohematology Case Studies: Serology and Beyond. (1.5 hours)

E. Hart. UMass-Dartmouth, North Dartmouth, MA, United States.

ASCLS Region I Seminar, Springfield, MA. November 9, 2012.

Panel Presenter: Careers in Medical Laboratory Science. ASCLS-CNE Annual Convention. (1.5 hours) Providence, RI. May 2013.

Panel Presenter: Careers in Medical Laboratory Science. ASCLS-CNE Annual Convention. (1.5 hours) Providence, RI. May 2012

Panel Presenter: Careers in Medical Laboratory Science. ASCLS-CNE Annual Convention. (1.5 hours) Providence, RI. May 2011.

Case Studies: Serology and Beyond (1.5 hours)

ASCLS Region I Seminar, Springfield, MA. November 19, 2010.

Local presentations

Hidden Curriculum: Integrating Teaching and Learning Strategies to Promote First-Year Success among Science Majors. (1.5 hours) Center for Teaching Excellence: Talking About Teaching Conference. UMass-Dartmouth; January 2009.

Panel Presenter: "Supportive Practices in Teaching and Teaching Partnerships". Center for Teaching Excellence: Talking About Teaching Conference. UMass Dartmouth; January 2008

Strategies for Success in the Classroom; 7th Annual First-Year Success Conference. (1 hour) UMass Dartmouth; June 2007.

Co-Presenter: "Group Inquiry-based Learning in the Laboratory"; Center for Teaching Excellence: Talking About Teaching Conference. (1 hour) UMass-Dartmouth; January 2007.

Use of a Student Grade Record in Human Genetics: (1 hour) 6th Annual First-Year Success Conference. UMass Dartmouth; June 2006.

Workshops

Forensic Science and Biotechnology Workshop. Girls STEM Summit. (6 hours) Worcester Polytechnic Institute. November 2013.

Forensic Science and Biotechnology Workshop. SciTech Girl Expo. (6 hours) Massachusetts Maritime Academy. April 2013.

Forensic Science and Biotechnology Workshop. SciTech Girl Expo. (6 hours) Massachusetts Maritime Academy. April 7, 2012.

Forensic Science and Biotechnology Workshop. SciTechGirl Expo. (6 hours) Massachusetts Maritime Academy. April 9, 2011.

Selected Departmental, University, and Professional Service

2016-present	Inspector. College of American Pathologists (CAP)
2014-present	<i>Ad-hoc</i> reviewer, MediaLab, Inc.
2013-present	Academic Advisor. First-year MLS students. Dept. of Medical laboratory Science. UMass Dartmouth
2012-present	Assessor. AABB
2010-present	MLS Dept. Curriculum Committee. Chairperson
2017-present	University Curriculum Committee. UMass Dartmouth
2010-2012	
2017-present	Center for Molecular Diagnostics, Education Director University of Massachusetts Dartmouth
2016-present	Board of Directors. American Society of Clinical Laboratory Scientists
2011-2015	of Central New England
2008-present	<i>Ad-hoc</i> Research Committee, National Association of Biology Teachers
2006-present	<i>Ad-hoc</i> reviewer, The American Biology Teacher
2006-present	College of Arts and Sciences Curriculum Committee; UMass Dartmouth
2005-present	Health Occupations Students of America (HOSA)- <i>Workshop instructor</i>
2005-present	Facilitator, High School Laboratory Exploration Day; UMass Dartmouth
2003-present	Advisory Committee. Dept. of Medical Laboratory Science; UMASS Dartmouth
2014-2017	Awards Committee. American Society of Clinical Laboratory Scientists of Central New England (ASCLS-CNE)
2015-2016	Faculty Senate, University of Massachusetts Dartmouth
2014-2016	Search and Screen Committee, Dept. of Medical Laboratory Science
2013-2015	Scholar of the Year Committee. UMASS Dartmouth
2009-2011	Honors Program Committee. UMass Dartmouth
2008-2011	Treasurer. American Society of Clinical Laboratory Scientists of Central New England. (ASCLS-CNE)
2007-2010	Coordinator and instructor. CSI Dartmouth. Spotlight Program; UMass Dartmouth
2005-2015	Grade Appeal Committee; UMASS Dartmouth
2004-2008	Faculty Advisor. Outing Club; University of Massachusetts Dartmouth
2004-2006	Secretary. Cultural Affairs Committee; University of Massachusetts Dartmouth
2008	Teacher of the Year Committee, Faculty Federation
2007	Faculty Federation Grievance Committee; UMass Dartmouth

Professional Memberships

AABB (formerly American Association of Blood Banks)

Massachusetts Association of Blood Banks (MABB)

American Society of Clinical Laboratory Scientists (ASCLS)

American Society of Clinical Laboratory Scientists of Central New England (ASCLS-CNE)