Revised February 2018

CURRICULUM VITAE
LAUREN MASSINGHAM, M.D.

BUSINESS ADDRESS

Division of Human Genetics
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EDUCATION

Undergraduate:
Skidmore College, B.A Chemistry
Saratoga Springs, NY 1999

Medical School:
University of Vermont College of Medicine, M.D.
Burlington, Vermont 2006

POSTGRADUATE TRAINING

Internship, Department of Pediatrics
University of Massachusetts Memorial Medical Center
Worcester, Massachusetts: July 2006-June 2007

Residency, Department of Pediatrics
University of Massachusetts Memorial Medical Center
Worcester, Massachusetts: July 2007-June 2009

Residency, Department of Pediatrics, Division of Genetics
Tufts Medical Center,
Boston, Massachusetts: August 2009- September 2012

HONORS AND AWARDS

Freeman Vermont Medical Scholarship

Developmental Biology Training Grant: Stipend awarded for 1 year of Genetics Residency to participate in laboratory research pertaining to developmental biology topics

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Medical License, State of Massachusetts. 2009-2013, 2014-Present

Medical License, State of Rhode Island License	2012-Current
Diplomate of the American Board of Pediatrics	2012-2019
Diplomate of the American College of Medical Genetics	2013-Present

ACADEMIC APPOINTMENTS

Assistant Professor
Warren Alpert School of Medicine at Brown University
Providence, Rhode Island 2013

Instructor in Pediatrics
Warren Alpert Medical School of Brown University
Providence, Rhode Island 2013

Clinical Associate
Tufts University Medical School
Boston, Massachusetts June 2010-September 2012

HOSPITAL APPOINTMENTS

Clinical Geneticist
Division of Genetics
Department of Pediatrics, Hasbro Children's Hospital
Providence, RI 2013- Present

HOSPITAL COMMITTEES:

Career Development Committee 2014-2016

COMMUNITY COMMITTEES:

Rhode Island Birth defects Committee
Rhode Island Department of Health 2015

PROFESSIONAL MEMBERSHIPS

American Academy of Pediatrics	2005-current
Genetics Teleconference Feingold Center Member	2013-current
American Medical Association	2014-current
American College of Medical Genetics	2014-current
Association of Professors of Human and Medical Genetics (APHMG)	2015-Present
American Society of Human Genetics	2017-Present

PUBLICATIONS

1. Darland DC, Massingham LJ, Smith SR, Piek E, Saint-Geniez M, D'Amore PA. Pericyte production of cell-associated VEGF is differentiation-dependent and is associated with endothelial survival. Dev Biol. 2003. Dec 1; 264(1): 257-88

2. Garcia CM, Darland DC, Massingham LJ, D'Amore PA. Endothelial cell-astrocyte interactions and TGF□are required for induction of blood-neural barrier properties. Brain Res Dev Brain Res. 2004. Aug 18; 152(1): 25-38.

3. Dietz JA, Johnson KL, Massingham LJ, Schaper J, Horlitz M, Cowan J, Bianchi DW. Comparison of extraction techniques for amniotic fluid supernatant demonstrates improved yield of cell-free fetal RNA. Prenatal Diagnosis. 2011. June; 31(6): 598-9.

4. Massingham LJ, Johnson KL, Bianchi DW, Pei S, Peter I, Cowan JM, Tantravahi U, Morrison TB. Proof of concept study to assess fetal gene expression in amniotic fluid by nanoarray PCR. J Mol Diag. 2011. Sept; 13(5): 565-70.

5. Massingham LJ, Johnson KL, Scholl T, Slonim DK, Wick HC, Bianchi DW. Amniotic fluid RNA gene expression profiling provides insights into the phenotype of Turner syndrome. Human Genetics. 2014. Sept; 133(9): 1075-82.

6. Guedj F, Pennings JLA, Massingham LJ, Wick HC, Siegel AE, Tantravahi U, Bianchi DW. An integrated human/murine transcriptome and pathway approach to identify prenatal treatments for Down syndrome. Scientfic Reports. 2016. Sept, 6:32353.

ABSTRACTS PRESENTED

1. Massingham LJ, Koide K, Johnson KJ, Slonim DK, Wick HC, Tantravahi U, Cowan JM, Bianchi DW. Gene expression profiling of Turner syndrome from amniotic fluid RNA provides insight into phenotype. Poster presentation. International Society for Prenatal Diagnosis. Amsterdam, Netherlands. 2010.

2. Massingham L, Johnson K, Pei S, Cowan J, Tantravahi U, Peter I, Bianchi D, Morrision T. The fetal "well-being" assay: Multiplex RT-PCR of amniotic fluid RNA to examine lung-associated gene expression. Oral presentation. International Society for Prenatal Diagnosis. Amsterdam, Netherlands. 2010.

3. Massingham L, Tracy D, McCauley R, Bansal S, Braun S, Ngo P, Padlusky K, Griesemer D, Demmer LA. Delayed diagnosis of scurvy in a developmentally delayed child with refusal to walk and multiple fractures. Poster Presentation. American College of Medical Genetics Annual Clinical Genetics Meeting. Charlotte, NC. 2012.

4. Guedj F, Massingham L, Johnson K, Tantravahi U, Bianchi D. Use of the amniotic fluid transcriptome to identify novel antenatal treatments for fetuses affected with Down syndrome. Poster presentation. American Society for Human Genetics Annual Meeting. San Francisco, CA. 2012.

5. Massingham L, Walsh J, Shur N, Benson C, Rintels P, Berliner N, Treaba D, Li J, Phornphutkul C. Likely pathogenic hypomorphic mutation in the perforin 1 gene causing

adult-onset familial hemophagocytic lymphohistiocytosis. Poster Presentation. American Society for Human Genetics Annual Meeting. Boston, MA 2013.

6. Wang A, Massingham L, Bercovitch L. It's not all about the Ras: PTEN hamartoma tumor syndrome presenting as linear nevus sebaceous syndrome in a newborn. Case of the Year. Society for Pediatric Dermatology Annual Meeting. Boston, MA. 2015.

7. Benson C, Schwab J, Massingham L, Perez, K. The ever changing role of genetic counseling in oncology. Poster presentation. National Society for Genetic Counselors Annual Meeting. Pittsburg, PA. 2015.

8. Costello V, Schwab J, Massingham L. Forget the Guidelines? Atypical presentations of well-defined hereditary cancer syndromes. Poster Presentation. National Society for Genetic Counselors Annual Meeting. Pittsburg, PA. 2015.

9. Du N, Riese J, Massingham, L. Uncovering Dravet Syndrome: Neonate with bronchiolitis and failure to thrive. Poster presentation. Second Annual Pediatric Medical Student Research Forum. Orlando, FL. 2015.

10. Swartz, S, Fischbach S, Monteiro K, Dumenco L, Dollase D, Massingham L. Bedside to desktop: Patient narratives as an affective learning tool for genetics. Brown summer showcase 2016.

11. Swartz S, Fischbach S, Phornphutkul C, Monteiro K, Dumenco L, Dollase R, Massingham L. Utilizing the affective domain to enhance medical student education. Oral and poster presentation. Association of professors of human and medical genetics (APHMG) annual meeting. 2017.

INVITED PRESENTATION- LOCAL

Perinatal Management Conference. "From multiple anomalies to a syndrome". Mystery case: Smith –Lemli-Opitz.
Women and Infants' Hospital
Providence, Rhode Island 2014

Genetics lecture for early childhood education students.
Rhode Island College
Providence, Rhode Island 2015-2017

Genetics of Prostate Cancer 2017
Urology Grand Rounds
Providence, Rhode Island

INVITED PRESENTATION- REGIONAL

Panel Presentation-- Discussion of various occupations in genetics 2015
New England Regional Genetics Group (NERGG) annual meeting
Portsmouth, NH

Updates in pediatric genetics. 2017
Consortium for New England Childhood Cancer Survivors (CONNECCS)
annual meeting
Providence, RI

RESEARCH

Co-Investigator in utilizing nanoarray PCR technology to compare gene expression in amniotic fluid by gender and gestational age project headed by Dr. Diana Bianchi and Dr Thomas Morrison, 2009-2011

Co-investigator comparing RNA expression of Turner syndrome and euploid fetal amniotic fluid supernatant project headed by Dr Diana Bianchi, 2009-present.

Co-investigator comparing RNA expression of Down syndrome and euploid amniotic fluid supernatant and amniocyte cell samples project headed by Dr Diana Bianchi, 2009-present.

Co-investigator in Down syndrome mice studies aimed to improve Down syndrome phenotype utilizing prenatal treatment project headed by Dr Diana Bianchi, 2011-2016.

UNIVERSITY TEACHING ROLES

Lecturer: Tufts University School of Medicine. September 2010-October 2011. Lecture for prematriculation genetics classes to incoming medical students. Class size: 15.

Tutor: Tufts University School of Medicine. 2010-2012. Tutor for medical students for the genetics section.

Lecturer: Brown University Alpert School of Medicine. October 2013- November 2013. Lecture for first year medical student classes introductory genetics concepts. Class size: 100.

Course Co-Coordinator: Brown University Alpert School of Medicine. June 2014-present. Design and maintain current and relevant lectures for the first year medical students. Coordinate the course schedule with the genetics lecturers. Class size: 100.

HOSPITAL TEACHING ROLES

Tufts Medical Center Pediatric Morning Report. 2012

Tufts Medical Center Genetics Grand Rounds 2-3/year 2010-2102

Department of Pediatrics Noon Lecture Series, 2-3/year 2013-Present

Pediatric Developmental Behavioral Fellowship Core Curriculum 1-2/year 2014-Present

Department of Orthopedics Morning Report lecture	2015
Department of Neonatology Genetics lecture series 2-3/year	2016