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CURRICULUM VITAE
Jason M. Aliotta, M.D.

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EDUCATION:

Undergraduate:	Tufts University, Biology, B.S., 1993, *cum laude*
Medical School:	Tufts University, 1995-1999, M.D., *AOA* senior year
Other Advanced Degrees:	None

POSTGRADUATE TRAINING

Residency:	Beth Israel Deaconess Medical Center 330 Brookline Avenue Boston, Massachusetts 02215 Intern and Resident in Internal Medicine, 1999-2002
Fellowship:	The Warren Alpert Medical School of Brown University 593 Eddy Street Providence, RI 02903 Fellow in Pulmonary and Critical Care Medicine, 2002-2005

POSTGRADUATE HONORS AND AWARDS

Trainee Travel Award for submitted abstract, Stem Cells and Cellular Therapies in Lung Biology and Lung Diseases, 2007 conference

Elected Fellow of the American College of Chest Physicians (FCCP) 2008

Dean's Teaching Excellence Award, Pulmonary Pathophysiology Small Group, Warren Alpert Medical School of Brown University, 2007, 2008, 2009, 2010

Warren Alpert Medical School of Brown University Department of Medicine Attending Teaching Award. 2013.

Warren Alpert Medical School of Brown University Department of Medicine Beckwith Family Award for Outstanding Teaching. 2015

Warren Alpert Medical School of Brown University Dean's Excellence in Teaching Award. 2017

Warren Alpert Medical School of Brown University Department of Medicine Attending Teaching Award. 2017

Top Doctors in Critical Care Medicine, *Rhode Island Monthly*, 2018, 2019

MILITARY SERVICE

None

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Rhode Island Medical License, since 2005

Diplomate in the specialty of Internal Medicine, No. 215147, since 2002
Last certification date: 10/17/12; Valid through: 10/17/22

Diplomate in the subspecialty of Pulmonary Medicine, No. 215147, since 2005
Last certification date: 11/12/14; Valid through: 11/12/24

Diplomate in the subspecialty of Critical Care Medicine, No. 215147, since 2006
Last certification date: 10/19/15; Valid through: 10/19/25

ACADEMIC APPOINTMENTS

Assistant Professor of Medicine, Boston University Medical School, Roger Williams Medical Center. Providence, Rhode Island. 6/06-11/06

Adjunct Assistant Professor of Medicine, Boston University Medical School, Roger Williams Medical Center. Providence, Rhode Island. 11/06-7/08

Assistant Professor of Medicine, Research Scholar, The Warren Alpert Medical School of Brown University, Rhode Island Hospital. Providence, Rhode Island. 11/06-7/17

Associate Program Director, The Warren Alpert Medical School of Brown University Pulmonary/Critical Care Fellowship, 9/09 - 6/18

Site Program Director, The Warren Alpert Medical School of Brown University Critical Care Fellowship. 9/15 – Present

Course Director, Warren Alpert Medical School Subinternship, Rhode Island Hospital Medical ICU, 1/17 – Present

Assistant Professor of Medicine, Clinician Educator, The Warren Alpert Medical School of Brown University, Rhode Island Hospital. Providence, Rhode Island. 7/17 - 1/19

Associate Professor of Medicine, Clinician Educator, The Warren Alpert Medical School of Brown University, Rhode Island Hospital. Providence, Rhode Island. 1/19 - Present

HOSPITAL APPOINTMENTS

Faculty, Roger Williams Medical Center. Department of Medicine. Providence, RI. 7/05-7/08

Faculty, Rhode Island Hospital. Department of Medicine, Divisions of Hematology and Oncology and Pulmonary, Sleep and Critical Care Medicine. Providence, RI. 11/06-7/17

Faculty, Rhode Island Hospital. Department of Medicine, Division of Pulmonary, Sleep and Critical Care Medicine. Providence, RI. 7/17 - Present

Medical Director of Respiratory Therapy. Rhode Island Hospital. 1/17 – Present

Medical Director, Rhode Island Hospital Medical Intensive Care Unit, Providence, RI. 9/20 - Present

OTHER APPOINTMENTS

Manuscript reviewer, *Experimental Hematology*. 1/07-present.

Manuscript reviewer, *Lung*. 7/07-present

Manuscript reviewer, *Stem Cells and Development*, 9/07-present

Manuscript reviewer, *Proceedings of the American Thoracic Society*, 2/08-present

Manuscript reviewer, *Stem Cells*, 3/08-present

Manuscript reviewer, *American Journal of Respiratory and Critical Care Medicine*, 6/09-present

Editorial board, *Journal of Extracellular Vesicles*, 8/12-present

NIH Extracellular RNA Communication Consortium (ERCC), steering committee member, 10/15 - 7/17

Medical Director, Lifespan Home Medical. 1/17 - Present

HOSPITAL COMMITTEES

The Rhode Island ICU Collaborative Committee, ICU physician representative. Roger Williams Medical Center. 9/05-11/06

CAUTI/CLABSI Reduction Project, process owner. Rhode Island Hospital. 7/15-present

Infection Control, MICU Representative. Rhode Island Hospital. 10/16 – present

Co-Chair Rhode Island Hospital Organ Donation Advisory Committee. Rhode Island Hospital. 4/17 – Present

Quality Measurement and Improvement Committee, committee member. Rhode Island Hospital. 5/18 – Present

Medical Faculty Executive Committee, committee member. Rhode Island Hospital. 10/19 – Present

Rhode Island Hospital MICU Morbidity and Mortality, conference coordinator. 1/17 – Present

UNIVERSITY COMMITTEES

The Warren Alpert Medical School of Brown University Pulmonary Research Seminar Series Co-Chair. 7/05-7/15

The Warren Alpert Medical School of Brown Internal Medicine Residency Search Committee, 9/12-present

The Warren Alpert Medical School of Brown University Pulmonary/Critical Care Fellowship Steering Committee, 9/09-present

Medical Faculty Executive Committee, Warren Alpert Medical School of Brown University, Elected Member. 10/13 - 10/16

Scholarship Oversight Committee, Committee Member. Umbilical Cord Mesenchymal Stem Cells in Premature Infants. Dr. Merline Benny, Neonatology Fellow, Warren Alpert Medical School of Brown University / Women and Infants Hospital. 1/15 – 6/18

MEMBERSHIP IN SOCIETIES

American College of Chest Physicians, 2002-present
Society of Critical Care Medicine, 2002-present
American Thoracic Society, 2003-present
International Society for Experimental Hematology, 2004-2017
International Society of Extracellular Vesicles, 2011-2017

PUBLICATIONS:

- ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. **Aliotta JM**, Pelletier JJ, Ware JL, Moran LS, Benner JS, Hong H. Thermostable Bst DNA polymeraseI lacks 3'-->5' proofreading exonuclease activity. Genetic Analysis. 1996; 12(5-6): 185-195.

2. Sears LE, Zhou B, **Aliotta JM,** Morgan RD, Kong H. BaeI, another unusual BcgI-like restriction endonuclease. Nucleic Acids Research. 1996; 24(18): 3590-3592.

3. Xu S, Xiao J, Ettwiller R, Holden M, **Aliotta J**, PohY C, Dalton M, Robinson DP, Petronzio TR, Moran LS, Ganatra M, Ware JL, Slatko B, Benner JS. Cloning and characterization of ApaLI, NspI, NspHI, SacI, ScaI and SapI restriction-modification systems in Escherichia coli. Molecular and General Genetics. 1998; 260(2-3): 226-231.

4. **Aliotta JM**, Keaney P, Passero M, Dooner MS, Pimentel J, Greer D, Demers D, Foster B, Peterson A, Dooner G, Theise ND, Adedi M, Colvin GA, Quesenberry PJ. Bone marrow production of lung cells: the impact of G-CSF, cardiotoxin, graded doses of irradiation and subpopulation phenotype. Exp Hematol. 2006;34(2):230-41.

5. **Aliotta JM,** Sanchez-Guijo FM, Dooner GJ, Johnson KW, Dooner MS, Greer KA, Greer D, Pimentel J, Kolankiewicz LM, Puente N, Faradyan S, Ferland P, Bearer EL, Passero MA, Adedi M, Colvin GA, Quesenberry PJ. Alteration of marrow cell gene expression, protein production and engraftment into lung by lung-derived microvesicles: A novel mechanism for phenotype modulation. Stem Cells. 2007;25(9):2245-56.

6. **Dooner MS *, Aliotta JM*,** Pimentel J, Dooner GJ, Abedi M, Colvin GA, Liu Q, Weier HU, Johnson KW, Quesenberry PJ. Cell cycle related differentiation of bone marrow cells into lung cells. Stem Cell Dev. 2008;17(2):207-20.
*Equal Contributions

7. Fritzell JA, Mao Q, Gundavarapu S, Pasquariello T, **Aliotta JM**, Ayala A, Padbury JF, De Paepe ME. Fate and effects of adult bone marrow cells in lung of normoxic and hyperoxic newborn mice. Am J Respir Crit Care Med. 2009;40(5):575-87.

8. **Aliotta JM**, Keaney PJ, Warburton RR, Del Tatto M, Dooner MS, Passero MA, Quesenberry PJ and Klinger JR. Marrow cell infusion attenuates vascular remodeling in a murine model of monocrotaline-induced pulmonary hypertension. Stem Cell Dev. 2009;18(5):773-82.

9. Ming Li, **Aliotta JM**, Asara JM, Tucker LD, Quesenberry PJ, Ramratnam B. Intercellular transfer of proteins that impact the mesenchymal-epithelial transition as identified by stable isotope labeling of amino acids in cell culture (SILAC). J Biol Chem. 2010;285(9):6285-97.

10. **Aliotta JM**, Pereira M, Johnson KW, de Paz N, Dooner MS, Puente N, Ayala C, Brilliant K, Berz D, Lee D, Ramratnam B, McMillan PN, Hixson DC, Josic D, Quesenberry PJ. Microvesicle entry into marrow cells mediates tissue-specific changes in mRNA by direct delivery of mRNA and induction of transcription. Exp Hematol. 2010;38(3):233-45.

11. Renzulli JF, Del Tatto M, Dooner G, Goldstein L, Dooner M, **Aliotta JM**, Colvin G, Chatterjee D, Quesenberry PJ. Microvesicle Induction of Prostate Specific Gene Expression in Normal Human Bone Marrow Cells. J Urol. 2010;184(5):2165-71.

12. Del Tatto M, Ng T, **Aliotta JM**, Colvin GA, Dooner MS, Berz D, Dooner GJ, Papa EF, Hixson DC, Ramratnam B, Aswad BI, Sears EH, Reagan J, Quesenberry PJ. Marrow cell genetic phenotype change induced by human lung cancer cells. Exp Hematol. 2011;39(11):1072-80.

13. **Aliotta JM,** Lee D, Faradyan S, Pereira M, Dooner MS, Quesenberry PJ. Progenitor/Stem Cell Fate Determination: Interactive Dynamics of Cell Cycle and Microvesicles. Stem Cells Dev. 2012;21(10):1627-1638.

14. **Aliotta JM**, Pereira M, Amaral A, Dooner MS, Sears EH, Brilliant K, Ramratnam B, Hixson DC, Quesenberry PJ. Stable Cell Fate Changes in Marrow Cells Induced by Lung-Derived Microvesicles. J Extracell Vesicles. 2012;1:18163 - http://dx.doi.org/10.3402/jev.v1i0.18163

15. Li M, **Aliotta JM**, Asara JM,Tucker L, Quesenberry PJ,Lally M, Ramratnam B. Quantitative proteomic analysis of HIV-1 infected lymphocytic cells using Stable Isotope Labeling of Amino acids in Cell Culture. Proteomics. 2012;12(13):2203-11

16. Sears E, **Aliotta JM**, Klinger JR. Partial Anomalous Pulmonary Venous Return Presenting with Adult-onset Pulmonary Arterial Hypertension. Pulm Circ. 2012;2(2):250-255.

17. **Aliotta JM**, Pereira M, Amaral A, Sorokina A, Igbinoba Z, Hasslinger A, El-Bizri R, Rounds SI, Quesenberry PJ, Klinger JR. Induction of pulmonary hypertensive changes by extracellular vesicles from monocrotaline-treated mice. Cardiovasc Res. 2013;100(3):354-362.

18. Goldberg LR, Dooner MS, Johnson KW, Papa EF, Pereira MG, Del Tatto M, Adler DM, **Aliotta JM**, Quesenberry PJ. The murine long-term multi-lineage renewal marrow stem cell is a cycling cell. Leukemia. 2014 Apr;28(4):813-22.

19. **Aliotta JM**, Pereira M, Sears EH, Dooner MS, Wen S, Goldberg LR, Quesenberry PJ. Lung-derived exosome uptake into and epigenetic modulation of marrow progenitor/stem and differentiated cells. J Extracell Vesicles. 2015 Sep 16;4:26166. doi: 10.3402/jev.v4.26166. eCollection 2015.

20. **Aliotta JM**, Pereira M, Wen S, Dooner MS, Del Tatto M, Papa E, Goldberg LR, Baird GL, Ventetuolo CE, Quesenberry PJ, Klinger JR. Exosomes Induce and Reverse Monocrotaline-Induced Pulmonary Hypertension in Mice. Cardiovasc Res. 2016 Mar 14. pii: cvw054. [Epub ahead of print]

21. Mesenchymal stromal cell-derived extracellular vesicles rescue radiation damage to murine marrow hematopoietic cells. Wen S, Dooner M, Cheng Y, Papa E, Del Tatto M, Pereira M, Deng Y, Goldberg L, **Aliotta J**, Chatterjee D, Stewart C, Carpanetto A, Collino F, Bruno S, Camussi G, Quesenberry P. Leukemia. 2016 May 27. doi: 10.1038/leu.2016.107

22. **Aliotta JM**, Pereira M, Wen S, Dooner MS, Del Tatto M, Papa E, Cheng Y, Goldberg L, Ventetuolo CE, Liang O, Klinger JR, Quesenberry PJ. Bone Marrow Endothelial Progenitor Cells Are the Cellular Mediators of Pulmonary Hypertension in the Murine Monocrotaline Injury Model. Stem Cells Transl Med. 2017 May 5. doi: 10.1002/sctm.16-0386.

23. Liang OD, So EY, Egan PC, Goldberg LR, **Aliotta JM**, Wu KQ, Dubielecka PM, Ventetuolo CE, Reginato AM, Quesenberry PJ, Klinger JR. Endothelial to haematopoietic transition contributes to pulmonary arterial hypertension. Cardiovasc Res. 2017 Nov 1;113(13):1560-1573. doi: 10.1093/cvr/cvx161.

24. Corl KA, Prodromou M, Merchant RC, Gareen I, Marks S, Banerjee D, Amass T, Abbasi A, Delcompare C, Palmisciano A, **Aliotta J**, Jay G, Levy MM. The Restrictive IV Fluid Trial in Severe Sepsis and Septic Shock (RIFTS): A Randomized Pilot Study. Crit Care Med. 2019 Apr 12. doi: 10.1097/CCM.0000000000003779.

25. Gottlieb ER, **Aliotta JM**, Tammaro D.Comparison of analogue and electronic stethoscopes for pulmonary auscultation by internal medicine residents. Postgrad Med J. 2018 Dec;94(1118):700-703. doi: 10.1136/postgradmedj-2018-136052. Epub 2018 Nov 24.

26. Dooner MS, Stewart C, Deng Y, Papa E, Pereira M, Del Tatto M, Johnson S, Wen S, Amaral A, **Aliotta J**, Quesenberry PJ, Goldberg LR. Daily rhythms influence the ability of lung-derived extracellular vesicles to modulate bone marrow cell phenotype. PLoS One. 2018 Nov 26;13(11):e0207444. doi: 10.1371/journal.pone.0207444. eCollection 2018.

27. Corl KA, Dado C, Agarwal A, Azab N, Amass T, Marks SJ, Levy MM, Merchant RC, **Aliotta J.** A modified Montpellier protocol for intubating intensive care unit patients is associated with an increase in first-pass intubation success and fewer complications. J Crit Care. 2018 Apr;44:191-195. doi: 10.1016/j.jcrc.2017.11.014. Epub 2017 Nov 10.

28. Egan PC, Liang OD, Goldberg LR, **Aliotta JM,** Pereira M, Borgovan T, Dooner M, Camussi G, Klinger JR, Quesenberry PJ. Low dose 100 cGy irradiation as a potential therapy for pulmonary hypertension. J Cell Physiol. 2019 Apr 22. doi: 10.1002/jcp.28723.

29. Corl KA, Prodromou M, Merchant RC, Gareen I, Marks S, Banerjee D, Amass T, Abbasi A, Delcompare C, Palmisciano A, **Aliotta J**, Jay G, Levy MM. The Restrictive IV Fluid Trial in Severe Sepsis and Septic Shock (RIFTS): A Randomized Pilot Study. Crit Care Med. 2019 Jul;47(7):951-959

30. Ventetuolo CE, **Aliotta JM**, Braza J, Chichger H, Dooner M, McGuirl D, Mullin CJ, Newton J, Pereira M, Princiotto A, Quesenberry PJ, Walsh T, Whittenhall M, Klinger JR, Harrington EO. Culture of pulmonary artery endothelial cells from pulmonary artery catheter balloon tips: considerations for use in pulmonary vascular disease. Eur Respir J. 2020 Mar 20;55(3):190131

31. Klinger JR, Pereira M, Del Tatto M, Brodsky AS, Wu KQ, Dooner MS, Borgovan T, Wen S, Goldberg LR, **Aliotta JM**, Ventetuolo CE, Quesenberry PJ, Liang OD. Mesenchymal Stem Cell Extracellular Vesicles Reverse Sugen/Hypoxia Pulmonary Hypertension in Rats. Am J Respir Cell Mol Biol. 2020 May;62(5):577-587.

32. Baird GL, Walsh T, **Aliotta J**, Allahua M, Andrew R, Bourjeily G, Brodsky AS, Denver N, Dooner M, Harrington EO, Klinger JR, MacLean MR, Mullin CJ, Pereira M, Poppas A, Whittenhall M, Ventetuolo CE. Insights from the Menstrual Cycle in Pulmonary Arterial Hypertension.. Ann Am Thorac Soc. 2020 Sep 4. doi: 10.1513/AnnalsATS.202006-671OC. Online ahead of print

- OTHER PEER-REVIEWED PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Colvin GA, Lambert JF, Abedi M, Dooner MS, Demers D, Moore BE, Greer D, **Aliotta JM**, Pimentel J, Cerny J, Lum LG, Quesenberry PJ. Differentiation hotspots: the deterioration of hierarchy and stochasm. Blood Cells Mol Dis. 2004;32(1):34-41.

2. Quesenberry PJ, Abedi M, **Aliotta J**, Colvin G, Demers D, Dooner M, Greer D, Hebert H, Menon MK, Pimentel J, Paggioli D. Stem cell plasticity: an overview. Blood Cells Mol Dis. 2004;32(1):1-4.

3. **Aliotta JM**, Passero MA, Meharg J, Klinger J, Dooner MS, Pimentel J, Quesenberry PJ. Stem cells and pulmonary metamorphosis: new concepts in repair and regeneration. J Cell Physiology. 2005;204(3):725-41.

4. Quesenberry PJ, Colvin GA, Abedi M, Dooner G, Dooner M, **Aliotta J**, Keaney P, Luo L, Demers D, Peterson A, Foster B, Greer D. The stem cell continuum. Ann N Y Acad Sci. 2005;1044:228-35.

5. Quesenberry PJ, Abedi M, Dooner M, Colvin G, Sanchez-Guijo FM, **Aliotta J**, Pimentel J, Dooner G, Greer D, Demers D, Keaney P, Peterson A, Luo L, Foster B. The marrow cell continuum: stochastic determinism. Folia Histochem Cytobiol. 2005;43(4):187-90.

6. Puente N, **Aliotta JM**, Passero MA. Update on idiopathic pulmonary fibrosis: the role of gamma interferon and cytokines. Med Health RI. 2007;90(2):43-45.

7. Quesenberry PJ, Colvin G, Dooner G, Dooner M, **Aliotta JM**, Johnson K. The Stem Cell Continuum: Cell Cycle, Injury, and Phenotype Lability. Ann N Y Acad Sci. 2007;1106:20-9.

8. Quesenberry PJ, **Aliotta JM**. The Paradoxical Dynamism of Marrow Stem Cells: Considerations of Stem Cells, Niches, and Microvesicles. Stem Cell Rev. 2008;4(3):137-47

9. Quesenberry PJ, Dooner MS, **Aliotta JM**. Stem cell plasticity revisited: The continuum model and phenotypic changes mediated by microvesicles. Exp Hematol. Exp Hematol. 2010;38(7):581-92

10. Quesenberry PJ, **Aliotta JM**. Cellular phenotype switching and microvesicles. Adv Drug Deliv Rev. 2010;62(12):1141-8.

11. Erzurum S, Rounds SI, Stevens T, Aldred M, **Aliotta J**, Archer SL, Asosingh K, Balaban R, Bauer N, Bhattacharya J, Bogaard HJ, Choudhary G, Dorn Ii GW, Dweik R, Fagan K, Fallon M, Finkel T, Geraci M, Gladwin MT, Hassoun PM, Humbert M, Kaminski N, Kawut SM, Loscalzo J, McDonald D, McMurtry IF, Newman J, Nicolls M, Rabinovitch M, Shizuru J, Oka M, Polgar P, Rodman D, Schumacker P, Stenmark K, Tuder R, Voelkel NF, Sullivan E, Weinshilboum R, Yoder MC, Zhao Y, Gail D, Moore TM. Strategic Plan for Lung Vascular Research: An NHLBI-ORDR Workshop Report. Am J Respir Crit Care Med. 2010;182(12):1554-62

12. **Aliotta JM**. Tumor exosomes: a novel biomarker? J Gastrointest Oncol 2011;2:203-205.

13. Quesenberry PJ, Dooner MS, Goldberg LR, **Aliotta JM**, Pereira M, Amaral A, Del Tatto MM, Hixson DC, Ramratnam B. A new stem cell biology: the continuum and microvesicles. Trans Am Clin Climatol Assoc. 2012;123:152-66; discussion 166

14. Quesenberry PJ, Goldberg L, **Aliotta JM**, Dooner MS. Marrow hematopoietic stem cells revisited: They exist in a continuum and are not defined by standard purification approaches; then there are the microvesicles. Int J of Terraspace. 2012. (In Press)

15. Quesenberry P, Goldberg L, **Aliotta J**, Dooner M, Pereira M, Wen S, Camussi G. Cellular phenotype and Extracellular vesicles: Basic and clinical considerations. Stem Cells Dev. 2014 Jul 1;23(13):1429-36

16. Quesenberry PJ, Goldberg L, **Aliotta J**, Dooner M. Marrow Hematopoietic Stem Cells Revisited: They Exist in a Continuum and are Not Defined by Standard Purification Approaches; Then There are the Microvesicles. Front Oncol. 2014 Apr 4;4:56. doi: 10.3389/fonc.2014.00056.

17. Quesenberry PJ, **Aliotta J**, Camussi G, Abdel-Mageed AB, Wen S, Goldberg L, Zhang HG, Tetta C, Franklin J, Coffey RJ, Danielson K, Subramanya V, Ghiran I, Das S, Chen CC, Pusic KM, Pusic AD, Chatterjee D, Kraig RP, Balaj L, Dooner M Potential functional applications of extracellular vesicles: a report by the NIH Common Fund Extracellular RNA Communication Consortium. J Extracell Vesicles. 2015 Aug 28;4:27575. doi: 10.3402/jev.v4.27575. eCollection 2015.

18. Quesenberry PJ, **Aliotta J**, Deregibus MC, Camussi G. Role of extracellular RNA-carrying vesicles in cell differentiation and reprogramming. Stem Cell Res Ther. 2015 Sep 3;6(1):153. doi: 10.1186/s13287-015-0150-x.

19. Theroux CD, **Aliotta JM**, Mullin CJ. High-Risk Pulmonary Embolism: Current Evidence-Based Practices. R I Med J. 2019 Dec 2;102(10):43-47.

BOOKS AND BOOK CHAPTERS

1. **Aliotta JM**, Quesenberry PJ. Marrow cell regeneration of the lung: Basic and clinical aspects. In: Scott E, Fisher R (eds): Textbook of Regenerative Medicine, 1st edition. Jones and Bartlett Publishers, Sudbury, MA. Section V, Chapter 30.

2. **Aliotta JM**, Jankowich M. Interstitial Lung Diseases. In: Andreoli TE, Carpenter CC (eds): Cecil Essentials of Medicine. 8th Edition. W.B. Saunders Company, Philadelphia, PA. Chapter 18.

3. Jankowich M, **Aliotta JM**. Neoplastic Disorders of the Lung. In: Andreoli TE, Carpenter CC (eds): Cecil Essentials of Medicine. 8th Edition. W.B. Saunders Company, Philadelphia, PA. Chapter 24.

4. Catalano L, **Aliotta JM**. Neoplastic Disorders of the Lung. In: Andreoli TE, Carpenter CC (eds): Cecil Essentials of Medicine. 9th Edition. W.B. Saunders Company, Philadelphia, PA. Chapter 23.

5. Vazquez ZGS, **Aliotta JM,** Azzoli CG. Neoplastic Disorders of the Lung. In: Andreoli TE, Carpenter CC (eds): Cecil Essentials of Medicine. 11th Edition. W.B. Saunders Company, Philadelphia, PA. Chapter 56. (In Press)

OTHER NON-PEER REVIEWED PUBLICATIONS

None

CORPORATE AUTHORSHIP OR MULTICENTER TRIALS

None

ABSTRACTS

A1. **Aliotta JM**, Abedi M, Colvin G, Demers D, Dooner MS, Greer D, Pimentel J, Quesenberry PJ. Conversion of whole bone marrow cells to cells of the lung after radiation and cardiotoxin injuries. Abstract # 48, International Society for Experimental Hematology, 2004 conference. *Oral Presentation.*

A2. **Aliotta JM**, Dooner MS, Pimentel GC, Abedi M, Demers D, Greer D, Quesenberry PJ. Homing of bone marrow-derived stem cells and conversion to cells of the lung after an acute injury. Abstract, American Thoracic Society, 2004 conference. A211. *Oral Presentation.*

A3. Dooner M, Pimentel J, Colvin G, Abedi M, **Aliotta J**, Demers D, Greer D, Dooner G, Cerny J, Quesenberry PJ. Engraftment and homing of whole bone marrow and stem cells to lung. International Society for Experimental Hematology, 2004 conference. *Poster Presentation.*

A4. Colvin GA, Dooner MS, Abedi M, Demers D, **Aliotta J**, Huerta F, Ramanathan M, Bitar I, Lambert JF, Quesenberry PJ. Pronounced heterogeneity of clonally-derived purified murine marrow stem cells. International Society for Experimental Hematology, 2004 conference. *Poster Presentation.*

A5. Colvin GA, Dooner MS, Abedi M, Demers D, **Aliotta J**, Ramanathan M, Huerta F, Bitar I, Lambert JF, Quesenberry PJ. Hotspots of differentiation found in clonally-derived purified murine marrow stem cells. International Society for Experimental Hematology, 2004 conference. *Poster Presentation.*

A6. Keaney PJ, Warburton R, **Aliotta JM**, Pimentel J, Quesenberry PJ, Klinger JR. Bone marrow infusion and irradiation blunts monocrotaline-induced pulmonary hypertension in mice. American Thoracic Society, 2005 conference. *Poster presentation.*

A7. Kolankiewicz LM, **Aliotta JM**, Passero MA, Sanchez-Guijo F, Quesenberry PJ. 2006. *Epigenetic Changes in Bone Marrow Cells Co-Cultured with Radiation-Injured Lung.* Abstract, Rhode Island Chapter, American College of Physicians 2006 Conference. *Oral Presentation*.

A8. **Aliotta JM**, Keaney P, Passero M, Dooner MS, Pimentel J, Colvin GA, Abedi M, Demers D, Greer D, Quesenberry PJ. Bone marrow mobilization with G-CSF and

transplantation with certain stem cell subpopulations influence lung cell production in radiation-injured mice. Abstract # 264, International Society for Experimental Hematology, 2005 conference. *Poster presentation.*

A9. Faradyan S, **Aliotta J**, Passero M, Dooner GJ, Quesenberry PJ. Phenotypic Changes of Bone Marrow Stem Cells through Cell Cycle. Poster #812, American Thoracic Society, 2007 conference. *Poster presentation.*

A10. **Aliotta JM**, Sanchez-Guijo FM, Dooner GJ, Johnson KW, Dooner MS, Faradyan S, Colvin GA, Quesenberry PJ. Alteration of marrow cell gene expression, protein production and engraftment into lung by lung-derived microvesicles: A novel mechanism for phenotype modulation. Stem Cells and Cellular Therapies in Lung Biology and Lung Diseases, 2007 conference. *Poster Presentation.*

A11. **Aliotta JM**, Sanchez-Guijo FM, Dooner GJ, Johnson KW, Dooner MS, Faradyan S, Colvin GA, Quesenberry PJ. Alteration of marrow cell gene expression, protein production and engraftment into lung by lung-derived microvesicles: A novel mechanism for phenotype modulation. Brown University Department of Medicine Thirteenth Annual Research Forum Poster Session, 2007. *Poster Presentation.*

A12. Colvin GA, Dooner GJ, Dooner MS, **Aliotta JM**, Johnson K, DelTatto M, Politopoulou G, Quesenberry PJ. Differentiation profiling of marrow stem cells: a megakaryopoietic hotspot and the continuum model of hematopoiesis. Brown University Department of Medicine Thirteenth Annual Research Forum Poster Session, 2007. *Poster Presentation.*

A13. Faradyan S, **Aliotta JM**, Passero M, Dooner M, Dooner G, Johnson K, Quesenberry PJ. The influence of lung on bone marrow stem cell gene expression through cell cycle. Brown University Department of Medicine Thirteenth Annual Research Forum Poster Session, 2007. *Poster Presentation.*

A14. Colvin GA, Berz D, Dooner MS, Dooner GJ, Johnson K, **Aliotta JM**, Quesenberry PJ. Differentiation hotspots on a cell cycle related continuum. American Society of Hematology, 2007 conference. *Poster Presentation.*

A15. **Aliotta JM**, Faradyan S, Johnson KW, Dooner MS, Dooner GJ, Quesenberry PJ. Transfer of Information from Lung to Marrow Cells via Microvesicles. American Society of Hematology, 2007 conference. *Oral Presentation.*

A16. **Aliotta JM**, Keaney PJ, Warburton RR, Del Tatto M, Dooner MS, Passero MA, Quesenberry PJ and Klinger JR. Marrow cell infusion attenuates vascular remodeling in a murine model of monocrotaline-induced pulmonary hypertension. American Thoracic Society, 2008 conference. *Poster Presentation.*

A17. **Aliotta JM**, Keaney PJ, Warburton RR, Del Tatto M, Dooner MS, Passero MA, Quesenberry PJ and Klinger JR. Marrow cell infusion attenuates vascular remodeling in a murine model of monocrotaline-induced pulmonary hypertension. Brown University Department of Medicine Fourteenth Annual Research Forum Poster Session, 2008. *Poster Presentation.*

A18. **Aliotta JM**, Keaney PJ, Warburton RR, Del Tatto M, Dooner MS, Passero MA, Quesenberry PJ and Klinger JR. Marrow cell infusion attenuates vascular remodeling in a

murine model of monocrotaline-induced pulmonary hypertension. Cardiac Development and Regeneration 2008 conference. *Poster Presentation.*

A19. **Aliotta JM,** Pereira M and Quesenberry PQ. Tissue-Specific Gene Expression of Marrow Cells Co-Cultured with Various Murine Organs. American Society of Hematology, 2008 conference. *Oral Presentation.*

A20. **Aliotta JM,** DePaz N, Pereira M and Quesenberry PQ. Actinomycin D Blocks Transcription of Surfactant B mRNA in Marrow Cells Co-Cultured with Lung. American Society of Hematology, 2008 conference. *Poster Presentation.*

A21. **Aliotta JM**, DelTatto M, Dooner MS, Pereira M, Weier HUG, Quesenberry PJ. Bone marrow transplant induces pulmonary vascular remodeling. Lifespan Research Celebration, 2009. *Poster Presentation.*

A22. **Aliotta JM**, Pereira M, Johnson KW, de Paz N, Dooner MS, Puente N, Ayala C, Brilliant K, Berz D, Lee D, Ramratnam B, McMillan PN, Hixson DC, Josic D, Quesenberry. Microvesicle-mediated transfer of genetic phenotype from lung to marrow cells. Lifespan Research Celebration, 2009. *Poster Presentation.*

A23. **Aliotta JM**, Pereira M, Dooner MS, Brilliant K, Hixson DC, Quesenberry PJ. Lung-derived microvesicle entry into marrow cells mediates tissue-specific changes in mRNA. National COBRE symposium, 2010. *Poster Presentation*.

A24. **Aliotta JM**, Pereira M, Dooner MS, Brilliant K, Hixson DC, Quesenberry PJ. Lung-derived microvesicle entry into marrow cells mediates tissue-specific changes in mRNA. ISSCR, 2010 conference. *Poster Presentation*.

A25. Pereira M, **Aliotta JM**, Amaral A, Dooner MS, Quesenberry PJ. Persistence of lung-derived microvesicle-induced gene expression changes in marrow cells. National COBRE symposium, 2010. *Poster Presentation*.

A26. Pereira M, **Aliotta JM**, Amaral A, Dooner MS, Quesenberry PJ. Persistence of lung-derived microvesicle-induced gene expression changes in marrow cells. ISSCR, 2010 conference. *Poster Presentation*.

A27. **Aliotta JM**, Pereira M, Dooner MS, Brilliant K, Hixson DC, Quesenberry PJ. Lung-derived microvesicle entry into marrow cells mediates tissue-specific changes in mRNA. Brown University Department of Medicine Sixteenth Annual Research Forum Poster Session, 2010. *Poster Presentation.*

A28. Pereira M, **Aliotta JM**, Amaral A, Dooner MS, Quesenberry PJ. Persistence of lung-derived microvesicle-induced gene expression changes in marrow cells. Brown University Department of Medicine Sixteenth Annual Research Forum Poster Session, 2010. *Poster Presentation.*

A29. **Aliotta JM,** Lee D, Faradyan S, Pereira M, Dooner MS, Quesenberry PJ. Progenitor/Stem Cell Fate Determination: Interactive Dynamics of Cell Cycle and Microvesicles. International Microvesicle and Exosome Symposium, Providence, Rhode Island, 2011. *Poster Presentation.*

A30. **Aliotta JM**, Pereira M, Amaral A, Dooner MS, Sears EH, Brilliant K, Ramratnam B, Hixson DC, Quesenberry PJ. Stable Cell Fate Changes in Marrow Cells Induced by Lung-Derived Microvesicles. International Microvesicle and Exosome Symposium, Providence, Rhode Island, 2011. *Poster Presentation.*

A31. **Aliotta JM**, Pereira M, Amaral A, Dooner MS, Sears EH, Brilliant K, Ramratnam B, Hixson DC, Quesenberry PJ. 4th Northeast Regional IDeA Meeting, Newport, Rhode Island, 2011. *Poster Presentation.*

A32. **Aliotta JM,** Lee D, Faradyan S, Pereira M, Dooner MS, Quesenberry PJ. Progenitor/Stem Cell Fate Determination: Interactive Dynamics of Cell Cycle and Microvesicles. 4th Northeast Regional IDeA Meeting, Newport, Rhode Island, 2011. *Poster Presentation.*

A33. **Aliotta JM**, Pereira M, Amaral A, Dooner MS, Sears EH, Brilliant K, Ramratnam B, Hixson DC, Quesenberry PJ. COBRE Symposium, Providence, Rhode Island, 2011. *Poster Presentation.*

A34. **Aliotta JM,** Lee D, Faradyan S, Pereira M, Dooner MS, Quesenberry PJ. Progenitor/Stem Cell Fate Determination: Interactive Dynamics of Cell Cycle and Microvesicles. COBRE Symposium, Providence, Rhode Island, 2011. *Poster Presentation.*

A35. **Aliotta JM,** Pereira M, Sorokina S, Goldberg L, Wen S, Adler D, Papa E, DelTatto M, Klinger JR, Quesenberry PJ. Microparticles from mice with monocrotaline-induced pulmonary hypertension induce right ventricular hypertrophy and pulmonary vascular remodeling in healthy mice. International Society of Extracellular Vesicles, Gothenburg, Sweden, 2012. *Oral presentation.*

A36. **Aliotta JM,** Pereira M, Sorokina S, Goldberg L, Wen S, Adler D, Papa E, DelTatto M, Klinger JR, Quesenberry PJ. Microparticles from mice with monocrotaline-induced pulmonary hypertension induce right ventricular hypertrophy and pulmonary vascular remodeling in healthy mice. American Thoracic Society, San Francisco, CA, 2012, *Oral presentation.*

A37. **Aliotta JM**, Pereira M, Amaral A, Sorokina A, Igbinoba Z, Hasslinger A, El-Bizri R, Rounds SI, Quesenberry PJ, Klinger JR. Transfer of Monocrotaline-Induced Pulmonary Hypertension to Healthy Mice via Microparticles. International Society of Experimental Hematology and Stem Cells, 2012 Conference. *Poster Presentation.*

A38. **Aliotta JM,** Pereira M, Sorokina S, Goldberg L, Wen S, Adler D, Papa E, DelTatto M, Klinger JR, Quesenberry PJ. Reversal of Monocrotaline-Induced Pulmonary Hypertension After infusion of Mesenchymal Stem Cell-Derived Microvesicles. International Society of Extracellular Vesicles 2013 Conference. *Oral Presentation.*

A39. **Aliotta JM,** Pereira M, Sorokina S, Goldberg L, Wen S, Adler D, Papa E, DelTatto M, Klinger JR, Quesenberry PJ. Cell Cycle-Related Changes in Murine Bone Marrow Stem Cell Internalization of Microvesicles. International Society of Extracellular Vesicles 2013 Conference. *Oral Presentation.*

A40. **Aliotta JM,** Pereira M, Sorokina S, Goldberg L, Wen S, Adler D, Papa E, DelTatto M, Klinger JR, Quesenberry PJ. Transfer of Monocrotaline-Induced Pulmonary Hypertension to Healthy Mice via Lung and Plasma-Derived Microvesicles. International Society of Extracellular Vesicles 2013 Conference. *Oral Presentation.*

A41. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. Microparticles from mesenchymal stem cells prevent monocrotaline-induced right ventricular hypertrophy and pulmonary vascular remodeling in mice. American Thoracic Society 2013 Conference. *Poster Presentation*

A42. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. Extracellular Vesicles From Mesenchymal Stem Cells Prevent Monocrotaline-Induced Right Ventricular Hypertrophy And Pulmonary Vascular Remodeling In Mice. American Thoracic Society, 2014 conference. San Diego, CA. *Oral poster presentation*

A43. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. Bone Marrow Progenitor Cells From Mice With Monocrotaline-Induced Pulmonary Hypertension Induce Right Ventricular Hypertrophy And Pulmonary Vascular Remodeling In Healthy Mice. American Thoracic Society, 2014 conference. San Diego, CA. *Oral poster presentation*

A44. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. Comparative Analysis Of Extracellular Vesicle-Based MiRNA Isolated From Mice With Monocrotaline-Induced Pulmonary Hypertension And Humans With Pulmonary Arterial Hypertension. American Thoracic Society, 2014 conference. San Diego, CA. *Oral poster presentation*

A45. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. Increased miR107 In Pulmonary Vascular Endothelial Cells Cultured With Extracellular Vesicles Known To Induce Pulmonary Hypertension In Mice. International Society of Extracellular Vesicles 2015 Conference. *Poster Presentation.*

A46. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. Transplanted Bone Marrow-Derived Endothelial Progenitor Cells Isolated From Mice With Monocrotaline-Induced Pulmonary Hypertension Cause Pulmonary Hypertension In Healthy Mice. International Society of Extracellular Vesicles 2015 Conference. *Poster Presentation.*

A47. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. The Exosome Subpopulation of Extracellular Vesicles Is Central To The Pathogenesis And Reversal Of Monocrotaline-Induced Pulmonary Hypertension In Mice. International Society of Extracellular Vesicles, Washington, DC, 2015. *Oral poster presentation.*

A48. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. Increased miR107 In Pulmonary Vascular Endothelial Cells Cultured With Extracellular Vesicles Known To Induce Pulmonary Hypertension In Mice. American Thoracic Society, 2015 conference. *Poster Presentation.*

A49. **Aliotta JM**, Pereira M, Sorokina S, Wen S, Quesenberry PJ, Klinger JR. Transplanted Bone Marrow-Derived Endothelial Progenitor Cells Isolated From Mice With Monocrotaline-Induced Pulmonary Hypertension Cause Pulmonary Hypertension In Healthy Mice. American Thoracic Society, 2015 conference. *Poster Presentation.*

A50. **Aliotta JM**, Pereira M, Wen S, Dooner MS, Del Tatto M, Papa E, Cheng Y, Goldberg LR, Klinger JR, Quesenberry PJ. Bone marrow endothelial progenitor cells are the cellular mediators of pulmonary hypertension in the murine monocrotaline injury model. American Society of Hematology, 2015 conference. *Poster Presentation.*

A51. **Aliotta JM**, Pereira M, Wen S, Dooner MS, Del Tatto M, Papa E, Cheng Y, Goldberg LR, Klinger JR, Quesenberry PJ. Bone Marrow Endothelial Progenitor Cells are the Cellular Mediators of Pulmonary Hypertension in the Murine Monocrotaline Injury Model. American Thoracic Society, 2016 conference. *Oral Presentation.*

A52. Ventetuolo CE, **Aliotta J**, Banerjee D, Pereira M, Ma B, Lee CG, Klinger JR, Elias JA. The Role of the Chitosome in Pulmonary Hypertension: From Mice to Men. American Thoracic Society, 2016 conference. *Poster Presentation.*

A53. **Aliotta JM**, Pereira M, Wen S, Dooner MS, Del Tatto M, Papa E, Cheng Y, Goldberg LR, Baird G, Ventetuolo CE, Quesenberry PJ, Klinger JR. Exosomes induce and reverse monocrotaline-induced pulmonary hypertension in mice. International Society of Extracellular Vesicles 2016 Conference. *Poster Presentation.*

A54. **Aliotta JM**, Pereira M, Wen S, Dooner MS, Del Tatto M, Papa E, Cheng Y, Goldberg LR, Klinger JR, Quesenberry PJ. Bone marrow endothelial progenitor cells are the cellular mediators of pulmonary hypertension in the murine monocrotaline injury model. International Society of Extracellular Vesicles 2016 Conference. *Oral Presentation.*

A55. Amin S, Koukoularis, **Aliotta J.** A comparison of outcomes in a medical step down unit using a non-physician provider model. American Thoracic Society, 2017 conference. *Poster Presentation.*

A56. Corl KA, Dado C, Agarwal A, Azab N, Amass T, Marks SJ, Levy MM, Merchant RC, **Aliotta J**. A modified Montpellier protocol for intubating intensive care unit patients is associated with an increase in first-pass intubation success and fewer complications. American Thoracic Society, 2017 conference. Oral *Poster Presentation.*

A57. **Aliotta JM**, Dix K, Edwards A, Ferguson J, Ward NS. Non-Critically ill patients in a tertiary care MICU: a quantitative and qualitative analysis. American Thoracic Society, 2018 conference. *Poster Presentation.*

<u>INVITED PRESENTATIONS (REGIONAL)</u>

1. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University: "BNP for the Diagnosis and Treatment of Congestive Heart Failure". 10/02

2. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University: "Bronchial Carcinoid Tumors". 12/02

3. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University: "Stem Cells for the Treatment of Pulmonary Disease". 3/03

4. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University: "Activated Protein C and Sepsis". 9/03

5. Pulmonary and Critical Care Research Seminar, The Warren Alpert Medical School of Brown University**: "**Homing of Bone Marrow-Derived Stem Cells to the Injured Lung and Conversion to Lung Cells". 9/03

6. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University: "Stem Cells of the Respiratory Tract". 2/04

7. Pulmonary and Critical Care Research Seminar, The Warren Alpert Medical School of Brown University**: "**Homing of Bone Marrow-Derived Stem Cells to the Injured Lung and Conversion to Lung Cells". 4/04

8. COBRE Research Seminar Series, Center for Stem Cell Biology, Roger Williams Medical Center: "Lung Injury and the Conversion of Hematopoietic Marrow Cells to Lung Cells". 4/04

9. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University: "Retinoids in Lung Development and Disease". 5/04

10. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University: "Partially Anomalous Pulmonary Venous Return". 2/05

11. Introductory Lecture Series for New Pulmonary Fellows, The Warren Alpert Medical School of Brown University: "The Neurosurgical Intensive Care Unit: An Overview". 8/05

12. COBRE Research Seminar Series, Center for Stem Cell Biology, Roger Williams Medical Center: "Lung Injury and the Conversion of Hematopoietic Marrow Cells to Lung Cells". 10/05

13. COBRE Research Seminar Series, University of Vermont: "Lung Injury and the Conversion of Hematopoietic Marrow Cells to Lung Cells". 11/05

14. Pulmonary and Critical Care Research Seminar, The Warren Alpert Medical School of Brown University: "Stem Cell Repopulation of the Injured Lung". 3/06

15. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University: "Impaired Apoptotic Cell Removal and Chronic Inflammatory Lung Disease". 12/06

16. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University, "Pulmonary Edema in the Obstetric Population." 9/07

17. The Warren Alpert Medical School of Brown University, Pulmonary Pathophysiology Course, "Tuberculosis". 11/07

18. Medical Grand Rounds, Rhode Island Hospital, "Stem cells: Basic concepts, controversies and therapeutic implications for pulmonary diseases." 5/08

19. The Warren Alpert Medical School of Brown University, Pulmonary Pathophysiology Course, "Respiratory Failure". 11/08

20. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University, "Bronchopulmonary Dysplasia: An evolving disease." 9/09

21. Division of Surgical Research, Rhode Island Hospital/Brown University Seminar Series. "The lung and bone marrow: Microvesicles and their role in cellular communication". 10/09

22. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University, "Circulating microparticles and pulmonary vascular disease." 10/10

23. Cancer Collaborative Research Opportunities, The Warren Alpert Medical School of Brown University, “Lung and Bone Marrow The role of cell-derived vesicles in cellular communication”. 3/11.

24. Liver Research Center research Conference, Rhode Island Hospital/Brown University Seminar Series. “The lung and bone marrow: Microvesicles and their role in cellular communication”. 6/11.

25. Medical Grand Rounds, Rhode Island Hospital, “Stem cells: Thinking outside the box with stem cell-based therapies: where are we in 2012?.” 3/12

26. Division of Surgical Research, Rhode Island Hospital/Brown University Seminar Series. “The lung and bone marrow: Microvesicles and their role in cellular communication”. 9/12

27. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University, “Pulmonary Alveolar proteinosis” 12/12

28. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University, “Metabolic Dysfunction in Pulmonary Hypertension: The Warburg Effect” 10/13

29. Department of Pathology Grand Rounds, Rhode Island Hospital. “The lung and bone marrow: Microvesicles and their role in cellular communication”. 10/13

30. Women and Infants Hospital Pediatrics Grand Rounds. Providence, RI. “Extracellular vesicles and their role in pulmonary hypertension”. 6/14

31. Brown Institute for Respiratory Diseases. Providence, RI. “Extracellular Vesicles in Pulmonary Vascular Disease: Friend or Foe”. 2/15

32. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University, “Endothelial Progenitor Cells and Pulmonary Hypertension” 10/15

33. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University, “Patients Gone Wild: Life After ICU Delirium” 9/17

34. Pulmonary Grand Rounds, The Warren Alpert Medical School of Brown University, “Post Intensive Care Syndrome” 9/18

<u>INVITED PRESENTATIONS (NATIONAL/INTERNATIONAL)</u>

1. International Society for Experimental Hematology, 2004 conference. New Orleans, Louisiana: “Donor Cell Identification in the Lung”. Tutorial Session Speaker. 7/04

2. American Thoracic Society, 2006 conference. San Diego, California: “Animal Models for the Treatment of Monocrotaline-Induced Pulmonary Hypertension with Stem Cells”. Invited Symposium Speaker. 5/06

3. Hematologic Malignancies Symposium, 2008 conference. Providence, Rhode Island: "Microvesicles and cancer: mediators of cell-to-cell communication". Invited Symposium Speaker. 10/08

4. Experimental Biology, 2009 conference. New Orleans, Louisiana. "The Lung and Bone Marrow: Microvesicles and their role in cellular communication." Invited Symposium Speaker. 5/09

5. NHLBI-ORDR Workshop: Strategic Plan for Lung Vascular Research. Bethesda, Maryland. "Circulating elements: impact on lung vascular function and disease." Invited Workshop Speaker, 3/10.

6. COBRE CCRD Minisymposium on Breakthroughs in Cancer Mechanism, Treatment and Prognosis. Providence, Rhode Island. "Lung-derived microvesicles: the bench top and beyond." Invited Symposium Speaker, 3/10.

7. International Microvesicle and Exosome Symposium, Providence, Rhode Island. "Lung and Bone Marrow The role of cell-derived vesicles in cellular communication." Invited Symposium Speaker, 4/11

8. 4th Northeast Regional IDeA Meeting, Newport, Rhode Island. "Persistence of Gene and Protein Expression Changes in Microvesicle-Modified Marrow Cells." Invited Symposium Speaker, 8/11.

9. Society of Critical Care Medicine, 2012 conference. Houston, Texas. "Year in Internal Medicine Review." Invited symposium speaker, 2/12.

10. American Thoracic Society, 2012 conference. San Francisco, CA. "Lung Cell-Derived Microparticles and their Influence on the Gene and Protein Expression of Cells of the Bone Marrow". Invited symposium speaker and moderator. 5/12.

11. Microvesicle and Exosome Seminar Series, Massachusetts General Hospital. Boston, MA. "Persistence of Gene and Protein Expression Changes in Microvesicle-Modified Marrow Cells". Invited Symposium speaker. 5/12.

12. American Physicians Institute, Critical Care Board Review Course. Chicago, IL. "Toxicology/Pharmacology". Course Lecturer. 10/12.

13. Exosomes and Microvesicles as Biomarkers and Diagnostics Conference. Philadelphia, Pennsylvania. "Microvesicles: Linking the Bone Marrow and Endothelium in Pulmonary Vascular Disease". Invited Speaker. 5/13.

14. Stem Cells and Cellular Therapies in Lung Biology and Lung Diseases, 2013 conference. Burlington, VT. "The Emerging Role of Extracellular Vesicles in Intercellular Communication". Invited Speaker. 7/13.

15. International Congress on Emerging Concepts and Therapeutic Strategies in Acute Kidney Injury. Torino, Italy. "Microvesicles and Pulmonary Hypertension". Invited Speaker. 9/13.

16. 16th International Conference on Dialysis, Advances in Kidney Disease 2014. Las Vegas, NV. "Stem Cell-Based Therapies: Where Are We in 2014?". Invited speaker. 1/14

17. American Thoracic Society, 2014 conference. San Diego, CA. "Microvesicles and Pulmonary Hypertension". Invited symposium speaker. 5/14.

18. Extracellular Vesicle Therapeutics, 2014 conference. Providence, RI. "Extracellular vesicles and their role in pulmonary hypertension". Invited speaker. 6/14

19. American Physicians Institute, Critical Care Board Review Course. Chicago, IL. "Toxicology/Pharmacology". Course Lecturer. 9/14

20. Extracellular Biomarkers Summit, 2015 Conference. Cambridge, MA. "Extracellular Vesicles in Pulmonary Vascular Disease: Friend or Foe". Invited Speaker. 3/15

21. Rhode Island NIH IDeA Symposium, Providence, RI. "In Sickness and in Health: Extracellular Vesicles and Pulmonary Hypertension". Invited speaker. 3/16

22. Gordon Research Conference, Biologic Effects and Therapeutic Potential of Extracellular Vesicles, 2016 Conference. Sunday River, ME. "In Sickness and in Health: Extracellular Vesicles and Pulmonary Hypertension". Invited Speaker. 8/16

23. RI Society for Respiratory Care Conference. Warwick, RI. "Do you know your ABCDEs? Multidisciplinary Approaches to Improving Outcomes in Ventilated Patients". Invited speaker. 8/17.

GRANTS

Active:

1. 5P20 GM103652 (Ventetuolo PI) - Sex hormones and pulmonary vascular and right ventricular dysfunction
   Agency: NIH/NIGMS
   PI: Sharon Rounds, MD; COBRE project leader Corey Ventetuolo, MD
   07/01/14-06/30/19
   $270,439 (direct costs/year)
   Effort: 0.24 calendar months

Completed:

1. 5K08 HL086868 - Injured Lung and its Influence on Bone Marrow Cell Phenotype
   Agency: NIH/NHLBI
   PI: Jason Aliotta, MD
   1/4/08 - 12/31/12
   $ 117,475 (direct costs/year)
   Effort: 9 calendar months

2. 5P20GM103468 - New Directions in Clinical and Basic Research COBRE
   Agency: NIH/NIGMS
   PI: Peter Quesenberry, MD
   Role: Project Leader
   9/30/09 - 6/30/14
   $ 103,251 (direct costs/year)

Effort: 6 calendar months

3. 1R01 HL103726 - Genetic Information Transfer to Hematopoietic Cells: Role of Microvesicles
Agency: NIH/NHLBI
PI: Peter Quesenberry, MD
Role: Co-investigator
04/01/11 - 3/30/16
$158,538 (direct costs/year)
Effort: 1.2 calendar months

4. 1UH2 TR000880 - Regulation of renal and bone marrow injury by extracellular vesicle non-coding RNA
Agency: NIH/NIDDK
PI: Peter Quesenberry, MD
Role: Co-Investigator
07/01/13 - 6/30/18
$300,000 (direct costs/year)
Effort: 0.3 calendar months

UNIVERSITY/HOSPITAL TEACHING ROLES

Warren Alpert Medical School of Brown University, Pulmonary Pathophysiology Small Group Discussion Leader. These two hour sessions occurred three times a week for two weeks and focused on a case-based approach to learning certain aspects of pulmonary pathophysiology. As the group leader, my role was to facilitate the students' (eight per session) discussion of each case, helping them to focus on the pertinent findings and create a differential diagnosis. I was responsible for evaluating each student, which contributed to 50% of their final grade in the pulmonary pathophysiology course. Dates of participation: 10/03, 10/05, 10/06, 11/07, 10/08, 10/09, 10/10,10/12, 10/15, 10/16

Warren Alpert Medical School of Brown University, Teaching Attending. I developed an educational curriculum for house staff rotating through the Medical ICU at Rhode Island Hospital. This curriculum consists of PowerPoint talks on core critical care topics and these talks are presented three times each week, 30 minutes per session. They are presented by pulmonary critical care fellows on weeks that I'm not on service but by me on weeks that I am on service. 7/08 - Present.

Lab Mentor. I have served as a mentor for the following house staff and research fellows that have participated in projects examining the use of marrow-derived stem cells in various murine lung injury models:

-Luiz Kolankiewicz, M.D. Internal Medicine Resident, Roger Williams Medical Center. 3/06-5/06
-Napoleon Puente, M.D. Internal Medicine Resident, Roger Williams Medical Center. 7/06-9/06
-Sam Faradyan, M.D. Pulmonary and Critical Care Medicine Fellow, Brown University. 7/06-7/07
-Nicole DePaz: Summer student, participant in the Leadership Alliance Summer Research Early Identification Program (SR-EIP). 6/08-8/08

-David Lee, M.D. Pulmonary and Critical Care Medicine Fellow, Brown University. 7/08-7/09.
-Cianna Edqualine: Summer student, participant in the Leadership Alliance Summer Research Early Identification Program (SR-EIP). 6/09-8/09
-Napoleon Puente, M.D. Pulmonary and Critical Care Medicine Fellow, Brown University. 7/09-6/10
-Edmund Sears, M.D. Pulmonary and Critical Care Medicine Fellow, Brown University. 7/10-6/11
-Rabih El-Bizri, M.D. Pulmonary and Critical Care Medicine Fellow, Brown University. 7/11-7/12
-Zenas Igbinoba: Summer student, participant in the Leadership Alliance Summer Research Early Identification Program (SR-EIP). 6/11-8/12
-Shannon L. Johnson: Brown University Undergraduate student (Thesis Advisor). 10/11-6/14
-Mandy Pereira: Brown University Graduate student (Thesis Advisor). 9/12-5/14
-Aida Morse, M.D. Pulmonary and Critical Care Medicine Fellow, Brown University. 1/15-6/15
-Muhammed Bostaji, M.D. Pulmonary Medicine Fellow, Boston University. 9/15-6/17

Mentor for Clinical Research:
- Ankita Agarwal, M.D. Internal Medicine Resident, Brown University. Project title: A modified Montpellier protocol for intubating intensive care unit patients is associated with an increase in first-pass intubation success and fewer complications. 9/16-12/17.
- Timothy Amass, M.D. Pulmonary and Critical Care Medicine Fellow, Brown University. Project title: A modified Montpellier protocol for intubating intensive care unit patients is associated with an increase in first-pass intubation success and fewer complications. 9/16-12/17.
- Nader Azab, M.D. Critical Care Medicine Fellow, Brown University. Project title: A modified Montpellier protocol for intubating intensive care unit patients is associated with an increase in first-pass intubation success and fewer complications. 9/16-12/17.
- Christopher Dado, M.D. Pulmonary and Critical Care Medicine Fellow, Brown University. Project title: A modified Montpellier protocol for intubating intensive care unit patients is associated with an increase in first-pass intubation success and fewer complications. 9/16-12/17.
- Kristen Dix, M.D. Internal Medicine Resident, Brown University. Project title: Non-Critically ill patients in a tertiary care MICU: a quantitative and qualitative analysis. 1/17-6/18
- Eric Gottlieb, M.D. Internal Medicine Resident, Brown University. Project title: A study of electronic stethoscopes for lung auscultation in the ambulatory setting. 9/17-6/18
- Burton Shen, MD. Internal Medicine/Pediatrics Resident, Brown University. Project title: Outcomes with different staffing models in a medical step down unit. 7/17-present
- Katie Lehman, MD. Internal Medicine Resident, Brown University. Project title: Outcomes of non-critically ill patients admitted to the RIH MICU. 5/19-present
- Paul Cohen, MD. Emergency Medicine Resident, Brown University. Project title: Outcomes of non-critically ill patients admitted to the RIH MICU. 5/19-present
- Brian Osler, MD. Internal Medicine Resident, Brown University. Project title: Analysis of RIH MICU readmissions. 6/19-present