

Curriculum Vitae
Darrell N. Kotton, MD
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Center for Regenerative Medicine (CReM) of
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ACADEMIC TRAINING:

- 1990-94 M.D. Washington University, St. Louis, MO (Medicine)
- 1989-90 Berklee College of Music, Boston, MA (Guitar Performance)
- 1985-89 B.A. University of Pennsylvania, Philadelphia, PA (Psychology)

POSTDOCTORAL TRAINING:

- 2002-2004 Post Doctoral Fellowship, Laboratory of Richard C. Mulligan, PhD, Department of Genetics, Harvard Medical School, Boston, MA
- 1999-2002 Post Doctoral Fellow, Laboratory of Alan Fine, MD, Pulmonary Center, Boston University School of Medicine (BUSM), Boston, MA
- 1998-2002 Fellow in Pulmonary and Critical Care Medicine, Boston University School of Medicine (BUSM), Boston, MA
- 1995-1997 Resident, Internal Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA
- 1994-1995 Intern, Internal Medicine, Hospital of the University of Pennsylvania

ACADEMIC APPOINTMENTS:

- 2016-current David C. Seldin Professor of Medicine, BUSM
- 2013-current Professor of Medicine, BUSM
- 2013-current Professor of Pathology and Laboratory Medicine, BUSM
- 2008 - 2013 Associate Professor of Pathology and Laboratory Medicine, BUSM
- 2008 - 2013 Associate Professor of Medicine, BUSM
- 2006-2008 Assistant Professor of Pathology and Laboratory Medicine, BUSM
- 2004-2008 Assistant Professor of Medicine, BUSM
- 2002-2004 Instructor of Medicine, BUSM
- 1998-2002 Teaching Fellow in Medicine, BUSM
- 1995-1997 Assistant Instructor of Medicine, University of Pennsylvania

HOSPITAL APPOINTMENTS:

- 2002-current Attending Physician, Pulmonary and Critical Care Medicine, Boston Medical Center, Boston, MA

HONORS:

- 2016 David C. Seldin Endowed Professor of Medicine
- 2014 Robert Dawes Evans Senior Research Mentor Award, Boston Univ. Dept. of Medicine
- 2013 Alpha-1 Foundation, Researcher of the Year Award.
- 2010 American Society of Clinical Investigation, Elected Member
- 2010 Alpha-1 Foundation, Shillelagh Award, Honoring a Researcher whose work most impacts those with alpha-1 antitrypsin deficiency
- 2007 L. Jack Faling Award for Excellence in Teaching, Boston University Pulmonary Center
- 2001 Individual National Research Service Award, NIH/NHLBI
- 2001 American Lung Association Research Fellowship Training Award
- 2001 Evans Days Research Award, 1st Runner Up, Boston University School of Medicine
- 2001 Massachusetts Thoracic Society, 1st Place, Science Research Award
- 1999 Fellow of the Year Award, Boston University Department of Medicine

1997	Penn Pearls Teaching Award, University of Pennsylvania School of Medicine
1990-94	Washington University School of Medicine Class President
1990	Distinguished Student Scholarship Award, a 4-year full tuition scholarship from Washington University School of Medicine
1989	Phi Beta Kappa, University of Pennsylvania
1985	Benjamin Franklin Scholar, University of Pennsylvania Honors Student awardee

LICENSES AND CERTIFICATION:

2001	Critical Care Medicine, American Board of Internal Medicine, recertification 2011
2000	Pulmonary Medicine, Diplomate, American Board of Internal Medicine, recertification 2012
1998	M.D., Massachusetts License

DEPARTMENTAL AND UNIVERSITY COMMITTEES:

2016-17	Boston University President's Committee on Basic Life Sciences
2015-present	BUSM Evans Medical Foundation; Board Member
2015-present	Boston University Task Force on University Collaboration with Industry
2015-present	BUSM Department of Medicine, annual Evans Days Awards Selection Committee
2013-current	Boston Medical Center, Advancement Committee
2011-2012	Evans Center, Committee for Integration of Basic, Clinical, and Translational Research
2010	Pulmonary Center Director Search Committee, selected by peers as sole Pulmonary Faculty representative on Committee
2007-2012	BUSM Department of Medicine Animal Imaging Core Committee
2007-2010	BUMC Flow Cytometry Core Facility (FCCF) Advisory Committee

MAJOR MENTORING ACTIVITIES (CURRENT AND PAST LABORATORY TRAINEES):

2017-present	Michael Herriges, PhD, Post-doctoral fellow, currently post-doctoral fellow
2016-present	Kostas Alysandratos, MD, Pulmonary Fellow, currently Pulmonary Fellow, BUSM
2016-present	Yuliang (Leon) Sun, BS, MD/PhD Graduate Student, currently MD/PhD student, BUSM
2016-present	John Kennedy, MD, Brigham&Women's Hosp. Pulmonary Fellow, currently Fellow, BWH
2015-present	Killian Hurley, MD, PhD, Pulmonary Fellow, currently Pulmonary Fellow, BUSM
2015-2017	Nicole Ruopp, MD, Pulmonary Fellow, currently Pulmonary Fellow, BUSM
2015	Matthew Brown, Undergraduate student, BU, currently undergraduate student
2014-2015	Anita Kurmann, MD, Post-doctoral fellow, deceased
2014-2016	Sinead Nguyen, Undergraduate student, BU, currently undergraduate student
2013-2017	Hector Marquez, MD, Pulmonary Fellow, currently Instructor, BUSM
2013-2017	Anjali Jacob, BS, MD/PhD Graduate Student, currently MD/PhD student, BUSM
2013-2017	Katie Benson McCauley, BS, PhD Graduate Student, currently Post-doctoral Fellow, BUSM
2013-current	George Kwong, BS, PhD Graduate Student, currently PhD graduate student, BU BME
2012-2013	Derek Liberti, BS, undergraduate student, BU, currently PhD graduate student, U. Penn
2012-2013	Chian Yang, BS, Graduate MA Student, currently industry scientist
2012-2017	Mohamed Jamal, DMD, Postdoctoral Fellow, currently Attending clinician-scientist, Dubai, UAE
2011-2017	Maria Serra, PhD, Postdoctoral Fellow, currently Postdoctoral Fellow, Turin, Italy
2010-2015	Finn Hawkins, MD, Pulmonary Fellow, currently Assistant Professor, BUSM
2009-2012	Laertis Ikonomou, PhD, Postdoctoral Fellow, currently Assistant Professor, BUSM
2008-2010	Aba Somers, MD, Pulmonary Fellow, currently Attending Pulmonologist

2008-2011	Constantina Christodoulou, PhD, PhD Graduate Student, currently Instructor, Harvard University
2007-2011	Tyler Longmire, PhD, Graduate Student, currently Staff Scientist, Novartis
2006-2008	Sara Greenhill, MD, Pulmonary Fellow, currently Interventional Pulmonologist
2005-2006	Asha Anandaiah, MD, Medical Resident, currently Instructor, Harvard University
2004-2010	Andrew Wilson, MD, Pulmonary Fellow, currently Assistant Professor, BUSM

Mentored Grant Awards (serving as primary sponsor)

Alpha-1 Foundation Research Fellowship; Killian Hurley
 K08 (NIH/NHLBI Career Training Grant); Andrew Wilson
 American Lung Association Fellowship; Andrew Wilson
 Alpha-1 Foundation Research Fellowship; Andrew Wilson
 American Lung Association Fellowship; Finn Hawkins
 Cystic Fibrosis Foundation Fellowship; Finn Hawkins
 Flight Attendant Medical Research Institute (FAMRI) Young Clinical Scientist Award; Andrew Wilson
 American Association of Endodontics; Mohamed Jamal
 F31 NIH/NHLBI (F31 HL129777) individual NRSA Predoctoral fellowship; Katie Benson
 F31 NIH/NHLBI (F31 HL128085) individual NRSA Predoctoral fellowship ; George Kwong
 F31 NIH/NHLBI individual NRSA Predoctoral fellowship; Anjali Jacob

Graduate Student Thesis Committees

PhD Alejandro Balasz, Harvard University
 PhD Daniel Fabish, BU School of Dental Medicine
 MA Heather Arnold, BU
 MA Chian Yang, BU School of Engineering
 PhD Jed Mahoney, BU School of Medicine
 PhD Juliana Barrios, BU School of Medicine (Committee Chair)
 PhD Kelsey Derricks, BU School of Medicine (Committee Chair)
 PhD Abby Sarkar, Harvard Medical School
 PhD Tim Norman, BU School of Medicine
 MA Michael A. H. Ferguson, BU School of Engineering

MAJOR ADMINISTRATIVE RESPONSIBILITIES:

2009-current	Founding Director, Center for Regenerative Medicine of BU and BMC
2012-current	Co-Director, The Alpha-1 Center, Boston Medical Center
2008-2013	Co-Director, BUMC Small Animal Imaging Core Facility, BUSM
2010-2013	ARC Co-Director, Evans Center, Regenerative Medicine ARC, BUSM
2015-current	Program Director, TL1 BU Pre/post-doctoral Training Program in Regenerative Medicine

OTHER PROFESSIONAL ACTIVITIES:

PROFESSIONAL SOCIETIES: MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS

2010-current	Lifeboat Foundation
2010-current	American Society for Clinical Investigation
2006-2009	Webmaster, The Boston University Pulmonary Center Website
2005-current	International Society for Stem Cell Research
2002-current	Massachusetts Thoracic Society
1998-current	American Thoracic Society
1997-2001	Director, Internal Medicine Overseas, Malawi Program, Health Volunteers Overseas

EDITORIAL BOARDS:

2010-2015 Journal of Cellular Biochemistry, Associate Editor
 2015-2017 American Journal of Respiratory Cell and Molecular Biology
 2017-current Journal of Immunology and Regenerative Medicine

PEER-REVIEWER PANELS FOR JOURNALS:

2014-current Nature Biotechnology
 2014-current Nature Protocols
 2012-current Cell Stem Cell
 2011-current Development
 2015-current eLife
 2011-current Stem Cell Research
 2009-current New England Journal of Medicine
 2007-current Stem Cells
 2009-current Science
 2009-current Molecular Therapy
 2007-current Respiratory Research
 2008-current Journal of Clinical Investigation
 2007-current Circulation
 2006-current American Journal of Physiology: Lung Cell and Molecular Physiology
 2006-current American Journal of Respiratory Cell and Molecular Biology
 2006-current American Journal of Respiratory and Critical Care Medicine

MAJOR COMMITTEE ASSIGNMENTS:

Private/Foundation

2016-current Addgene, Board of Directors
 2012-2014 FASEB Lung Conference, Vermont, Organizing Chair of Meeting
 2013-current International Society for Stem Cell Research, Program Abstract Review Committee
 2009-current Vermont Lung Stem Cell Meeting, Organizing, and Program Committee
 2010-current Lifeboat Foundation, Scientific Advisory Board
 2010-current Alpha-1 Foundation, Grants Advisory Council, Vice-Chair
 2015-current Alpha-1 Foundation, Tissue Bank Advisory Committee, Chair
 2010-2013 American Thoracic Society, Annual Meeting Program Committee
 2010-current American Thoracic Society, Stem Cells and Regenerative Medicine Committee
 2006-current American Thoracic Society, Respiratory Cell & Molecular Biology Assembly, committee member

Study Sections

National Institutes of Health
 2015-17 NHLBI CFTR-directed therapeutics STTR (ZHL1 CSR-I M2 1)
 2014 NHLBI PCBC (Progenitor Cell Biology Consortium) ad hoc reviewer
 2010 NHLBI Workgroup: Cell plasticity in lung injury and repair
 2006 NHLBI/NIH Strategic Planning Committee for Theme 3: Lung Injury/Inflammation, Repair/Remodeling, Replacement/Regeneration, committee member
 2004 Study Section member, NIAID RFA 03-015 "Cooperative Centers for Translational Research in Human Immunology and Biodefense"

CIRM

2012-16 CIRM, California Institute for Regenerative Medicine

Cystic Fibrosis Foundation

2016 Cystic Fibrosis Foundation Therapeutics (CFFT) Ad hoc study section

Alpha-1 Foundation

2011-current Alpha-1 Foundation, annual grants study section, Associate Chair.

State:

2010-2012 Stem Cell Advisory Committee, UMASS Center for Stem Cell Biology and Regenerative Medicine

National:

2015-present External Advisory Board, University of Vermont Center for Regenerative Medicine

Current Other Support:

1. R01HL122442 (Kotton) 04/01/14- 03/31/18
NIH/NHLBI
iPSC Modeling of the Role of NKX2-1 in Human Lung Development and Disease
Role: PI

2. R01HL128172 (Kotton) 09/15/15- 06/30/2019
NIH/NHLBI
Epigenomic and transcriptomic networks in normal and defective lung development
Role: PI

3. R01DK105029 (Hollenberg/Kotton MPI) 12/01/2015 – 11/30/2019
NIH/NIDDK
Thyroid Follicular Cell Development in Mice and Humans
Role: PI

4. R01 HL095993 (Kotton) 08/01/13 – 05/31/18
NIH/NHLCI
Role: PI
Derivation of Transplantable Lung Epithelial Progenitors from iPS Cells

5. R24HL123828 (Kotton/Mostoslavsky MPI) 7/01/14-6/30/19
NIH/NHLBI
A National Resource for Lung disease-specific iPS cells
Role: PI

6. TL1TR001410 (Kotton) 08/13/2015 – 03/31/2019
NIH/NCATS
Boston University Clinical and Translational Science Institute
TL1 Training Program in Regenerative Medicine
Role: PI

7. U01HL134745 (Whitsett/Kotton/Morrissey MPI) 9/1/16-8/31/23
NIH/NHLBI
Editing Alveolar Progenitor Cells for Correction of Monogenic Disease
Role: PD/PI

8. U01HL134766 (Chapman/Kotton/Rock MPI) 9/1/16-8/31/23
NIH/NHLBI
Engraftment of lung progenitors to reconstitute lung epithelium

PI

Role: PD/PI

9. U01TR001810 (Kotton/Wilson/Morrissey/Cowan/Gilad) 09/15/2016 – 06/30/2021
 NIH/NCATS
 A National iPS Cell Network with Deep Phenotyping for Translational Research
 Role: PI

Past Other Support:

1R01 HL108678 (Kotton/Ott) 09/15/11-5/31/15
 NIH/NHLBI
 Role: Principal Investigator
 Bioengineering of Transplantable Humanized Lungs from iPS Cells

R01 HL111574 (Oikonomou) 09/01/11-8/31/16
 NIH/NHLBI
 Role: Investigator
 Defining the genetic program of primordial lung progenitors

U01 HL107443 (Chui, Mostoslavsky, Murphy, Steinberg) 07/05/11 – 06/30/16
 NIH/NHLBI
 Role: Investigator
 Globin Gene Expression in Sickle Cell Genotype-Specific iPS Cells

Lung Cancer Research Concept Award (Kathuria) 09/15/13-9/14/14
 DOD
 Role: Investigator
 In vivo tagging of lung epithelial cells to define the early steps of tumor cell dissemination

U01 HL099997 (Morrissey) 08/1/13 - 4/30/15
 NIH/NHLBI PCBC
 Role: Investigator
 NHLBI Progenitor Cell Biology Consortium (PCBC) Administrative Coordinating Center, at Univ of MD.
 BU Subcontract for ancillary studies to complement U. of Penn Project (Kotton=subcontract PI)
 Generation & Characterization of a Lung Stem Cell “Tool Kit” to Generate Functional Lung Epithelial Lineages

U01HL110-967 (Morrissey) 01/01/13 – 12/31/14
 NIH/NHLBI LRRC CReATV3
 Role: Investigator
 NHLBI Lung Regeneration and Repair Consortium (LRRC) Administrative Coordinating Center at Duke University. BU
 Subcontract for ancillary studies to complement U. of Penn Project (Kotton=subcontract PI)
 Generation and analysis of gene corrected SFTPC mutations in human iPSC lines

R13 NIH/NHLBI (Kotton)
 Role: PI/ Organizing Chair
 The Lung Epithelium in Health and Disease (FASEB Science Research Conference)
 Award to support FASEB Lung Epithelium in Health and Disease, biennial meeting in Saxtons River, VT, 2014.

R21 HL108689 (Weiss) 08/1/12 - 7/31/13
 NIH/NHLBI
 BU Subcontract with BWH (Kotton)
 De-Cellularized Human Lungs for Ex-Vivo Lung Regeneration

PO1 HL047049-16A1 (Cardoso PPG PI; Kotton Project 3 Leader) 12/1/07-1/31/13

NIH/NHLBI

Determinants of Cell Fate and Differentiation in the Developing Lung
Project 3: Embryonic Stem Cell Modeling of Lung Lineage Specification
Role: Project 3 Leader

IDEA in Stem Cell Research (Kass) 09/1/10 - 8/31/13

NYSTEM

Role: Sub-Project PI, Boston University Component

Mechanistic study of an inherited arrhythmia in a complex genetic background using iPS cell derived cardiomyocytes

RC4 HL106625 (Weiss) 09/17/10 - 8/30/13

NIH

Role: Sub-Project PI, Boston University Component

Bioengineering New Lungs from Cadaveric Scaffolds

Research Grant (Kotton) 7/1/11 - 6/30/13

Alpha-1 Foundation

Role: Principal Investigator

Generation of bioartificial lungs from gene corrected PiZZ iPS cells

P01 HL47049 (Cardoso) 02/01/08 - 01/31/13

NIH/NHLBI

Role: Investigator

Microscopy-Image Analysis and FACS Core

R01 HL095993-01 (Kotton) 7/01/09-7/31/13

NIH/NHLBI

Derivation of Transplantable Lung Epithelial Progenitors from iPS Cells

Role: Principal Investigator

RC2HL101535-01 (Kotton) 9/30/09-8/31/12

NIH/NHLBI

Characterization of human hematopoietic and endodermal progenitors derived from iPS cells free of reprogramming transgenes

Role: Principal Investigator

Pilot and Feasibility Award (Kotton) 04/01/10 – 03/31/12

Cystic Fibrosis Foundation

Role: Principal Investigator

Derivation of Pluripotent Stem Cells (iPS) for Cystic Fibrosis Therapy

USAMRC 07138002 (Fine) 7/1/08-6/30/11

Congressionally Directed Medical Research Programs (CDMRP). Department of the Army.
Acute Lung Injury: Making the Injured Lung Perform Better and Rebuilding Healthy Lungs,

Role: Sub-Project PI, Boston University Component

R21HL086610-01A1 (Kotton) 4/1/08-3/31/10

NIH/NHLBI

Hemangioblast Transplantation for Reconstitution of Lung Endothelium

Role: Principal Investigator

R21HL086414-02 (Kotton) 9/30/06-9/30/08

NIH/NHLBI

Cell-specific Delivery of RNAi to Pulmonary Alveolar Macrophages in vivo

Role: Principal Investigator

RO1 HL083034-01A1 (Ramirez) 7/1/06-6/30/11

NIH/NHLBI

Lung Alveolar Type I Cell Morphogenesis

Role: Co-PI

A-05-005 (Kotton) 1/1/06-1/1/08

American Thoracic Society/Alpha-1 Foundation

Stem cell-based therapy for alpha-1 antitrypsin deficiency

Role: Principal Investigator

K08 HL 71640 (Kotton) 02/04/03 - 01/31/08

NIH/NHLBI

Role: Principal Investigator

Bone Marrow Cells as Progenitors of Alveolar Epithelium

Bibliography:

Complete List of Published Work in MyBibliography (copy/paste this URL into browser):

<https://www.ncbi.nlm.nih.gov/sites/myncbi/1xKZymjcezw5t/bibliography/47844369/public/?sort=date&direction=descending>

PEER REVIEWED ARTICLES:

1. Hawkins F, Kramer P, Jacob A, Driver I, Tomas DC, McCauley KB, Skvir N, Crane AM, Kurmann AA, Hollenberg AN, Ngyen S, Wong BG, Khalil AS, Huang SXL, Guttentag S, Rock JR, Shannon JM, Davis BR, **Kotton DN**. Prospective Isolation of NKX2-1 Expressing Human Lung Progenitors Derived from Pluripotent Stem Cells. *Journal of Clinical Investigation*. May 2, 2017. doi: 10.1172/JCI89950. PMID: 28463226
2. Rashid S, **Kotton DN**, Bar-Joseph Z. TASIC: Determining branching models from time series single cell data. *Bioinformatics*. 2017 Apr 4. doi: 10.1093/bioinformatics/btx173. [Epub ahead of print] PubMed PMID: 28379537.
3. Coleman FT, Blahna MT, Kamata H, Yamamoto K, Zabinski MC, Kramnik I, Wilson AA, **Kotton DN**, Quinton LJ, Jones MR, Pelton SI, Mizgerd JP. The capacity of pneumococci to activate macrophage NF-kB determines necroptosis and pneumonia severity. *J Infect Dis*. 2017 Mar 25. doi: 10.1093/infdis/jix159. [Epub ahead of print] PubMed PMID: 28368460.
4. McCauley KB, Hawkins F, Serra M, Thomas DC, Jacob A, **Kotton DN**. Efficient Derivation of Functional Human Airway Epithelium from Pluripotent Stem Cells via Temporal Regulation of Wnt Signaling. *Cell Stem Cell*. 2017 Mar 22. pii: S1934-5909(17)30072-3. doi: 10.1016/j.stem.2017.03.001. PubMed PMID: 28366587.
5. Dame K, Cincotta S, Lang AH, Sanghrajka RM, Zhang L, Choi J, Kwok L, Wilson T, Kańduła MM, Monti S, Hollenberg AN, Mehta P, **Kotton DN**, Ikonomou L. Thyroid Progenitors Are Robustly Derived from Embryonic Stem Cells through Transient, Developmental Stage-Specific Overexpression of Nkx2-1. *Stem Cell Reports*. 2017 Feb 14;8(2):216-225. doi: 10.1016/j.stemcr.2016.12.024. Epub 2017 Feb 2. PubMed PMID: 28162994; PubMed Central PMCID: PMC5312259. 5: Hollenberg AN, Choi J, Serra M, Kotton DN. Regenerative therapy for hypothyroidism: Mechanisms and possibilities. *Mol Cell Endocrinol*. 2017 Apr 15;445:35-41. doi: 10.1016/j.mce.2016.11.012. Epub 2016 Nov 19. PubMed PMID: 27876515; PubMed Central PMCID: PMC5373653.
6. Finn Hawkins, Scott A. Rankin, **Darrell N. Kotton**, and Aaron M. Zorn. Chapter 1: The Genetic Programs Regulating Embryonic Lung Development and Induced Pluripotent Stem Cell Differentiation. Jobe, Whitsett et al. 2016 in press.

7. Liberti WA, Markowitz JE, Perkins LN, Liberti DC, Leman DP, Guitchounts G, Velho T, **Kotton DN**, Lois C, Gardner TJ. Unstable neurons underlie a stable learned behavior. Nature Neuroscience. 2016 Oct 10. doi: 10.1038/nn.4405. PubMed PMID: 27723744.
8. Kurmann AA, Serra M, Hawkins F, Rankin SA, Mori M, Astapova I, Ullas S, Lin S, Bilodeau M, Rossant J, Jean JC, Ikonomou L, Deterding RR, Shannon JM, Zorn AM, Hollenberg AN, **Kotton DN**. Regeneration of Thyroid Function by Transplantation of Differentiated Pluripotent Stem Cells. Cell Stem Cell. 2015 Nov 5;17(5):527-42. doi: 10.1016/j.stem.2015.09.004. Epub 2015 Oct 22. PubMed PMID: 26593959.
9. Wilson AA, Ying L, Liesa M, Segeritz CP, Mills JA, Shen SS, Jean J, Lonza GC, Liberti DC, Lang AH, Nazaire J, Gower AC, Müeller FJ, Mehta P, Ordóñez A, Lomas DA, Vallier L, Murphy GJ, Mostoslavsky G, Spira A, Shirihai OS, Ramirez MI, Gadue P, **Kotton DN**. Emergence of a stage-dependent human liver disease signature with directed differentiation of alpha-1 antitrypsin-deficient iPS cells. Stem Cell Reports. 2015 May 12;4(5):873-85. doi: 10.1016/j.stemcr.2015.02.021. Epub 2015 Apr 2. PubMed PMID: 25843048; PubMed Central PMCID: PMC4437473.
10. Crane AM, Kramer P, Bui JH, Chung WJ, Li XS, Gonzalez-Garay ML, Hawkins F, Liao W, Mora D, Choi S, Wang J, Sun HC, Paschon DE, Guschin DY, Gregory PD, **Kotton DN**, Holmes MC, Sorscher EJ, Davis BR. Targeted correction and restored function of the CFTR gene in cystic fibrosis induced pluripotent stem cells. Stem Cell Reports. 2015 Apr 14;4(4):569-77. doi: 10.1016/j.stemcr.2015.02.005. Epub 2015 Mar 12. PubMed PMID: 25772471; PubMed Central PMCID: PMC4400651.
11. Weiss DJ, Chambers D, Giangreco A, Keating A, **Kotton D**, Lelkes PI, Wagner DE, Prockop DJ; ATS Subcommittee on Stem Cells and Cell Therapies. An official American Thoracic Society workshop report: stem cells and cell therapies in lung biology and diseases. Ann Am Thorac Soc. 2015 Apr;12(4):S79-97. doi: 10.1513/AnnalsATS.201502-086ST. PubMed PMID: 25897748.
12. Tafaleng EN, Chakraborty S, Han B, Hale P, Wu W, Soto-Gutierrez A, Feghali-Bostwick CA, Wilson AA, **Kotton DN**, Nagaya M, Strom SC, Roy-Chowdhury J, Stolz DB, Perlmutter DH, Fox IJ. Induced pluripotent stem cells model personalized variations in liver disease resulting from α 1-antitrypsin deficiency. Hepatology. 2015 Jul;62(1):147-57. doi: 10.1002/hep.27753. Epub 2015 Apr 13. PubMed PMID: 25690322; PubMed Central PMCID: PMC4482790.
13. Hawkins F, **Kotton DN**. Embryonic and induced pluripotent stem cells for lung regeneration. Ann Am Thorac Soc. 2015 Mar;12 Suppl 1:S50-3. doi: 10.1513/AnnalsATS.201410-457MG. PubMed PMID: 25830836.
14. Ikonomou L, **Kotton DN**. Derivation of Endodermal Progenitors From Pluripotent Stem Cells. J Cell Physiol. 2015 Feb;230(2):246-58. doi: 10.1002/jcp.24771. Review. PubMed PMID: 25160562; PubMed Central PMCID: PMC4344429.
15. West JD, Austin ED, Gaskill C, Marriott S, Baskir R, Bilousova G, Jean JC, Hemnes AR, Menon S, Bloodworth NC, Fessel JP, Kropski JA, Irwin D, Ware LB, Wheeler L, Hong CC, Meyrick B, Loyd JE, Bowman AB, Ess KC, Klemm DJ, Young PP, Merryman WD, **Kotton D**, Majka SM. Identification of a common Wnt-associated genetic signature across multiple cell types in pulmonary arterial hypertension. Am J Physiol Cell Physiol. 2014 Sep 1;307(5):C415-30. PubMed PMID: 24871858; PubMed Central PMCID: PMC4154073.
16. **Kotton DN**, Morrisey EE. Lung Regeneration: Mechanisms, Applications, and Emerging Stem Cell Populations. Nature Medicine. Aug. 2014. PMID: 25100528
17. Ikonomou L, **Kotton DN**. Derivation of endodermal progenitors from pluripotent stem cells. J Cell Physiol. 2014 Aug 27. doi: 10.1002/jcp.24771. PubMed PMID: 25160562.
18. **Kotton DN**, Rossant J. Modeling pulmonary alveolar proteinosis with induced pluripotent stem cells. Am J Respir Crit Care Med. 2014 Jan 15;189(2):124-6. doi: 10.1164/rccm.201312-2122ED. PubMed PMID: 24428646.
19. Hamvas A, Deterding R, Balch WE, Schwartz DA, Albertine KH, Whitsett JA, Cardoso WV, **Kotton DN**, Kourembanas S, Hagood JS. Diffuse lung disease in children: Summary of a scientific conference. Pediatr Pulmonol. 2014 Apr;49(4):400-9. doi: 10.1002/ppul.22805. Epub 2013 Jun 24. PubMed PMID: 23798474.
20. Leung A, Nah SK, Reid W, Ebata A, Koch CM, Monti S, Genereux JC, Wiseman RL, Wolozin B, Connors LH, Berk JL, Seldin DC, Mostoslavsky G, **Kotton DN**, Murphy GJ. Induced pluripotent stem cell modeling

- of multisystemic, hereditary transthyretin amyloidosis. *Stem Cell Reports*. 2013 Oct 31;1(5):451-63. doi: 10.1016/j.stemcr.2013.10.003. eCollection 2013. PubMed PMID: 24286032; PubMed Central PMCID: PMC3841264.
21. Mills JA, Wang K, Paluru P, Ying L, Lu L, Galvão AM, Xu D, Yao Y, Sullivan SK, Sullivan LM, Mac H, Omari A, Jean JC, Shen S, Gower A, Spira A, Mostoslavsky G, **Kotton DN**, French DL, Weiss MJ, Gadue P. Clonal genetic and hematopoietic heterogeneity among human-induced pluripotent stem cell lines. *Blood*. 2013 Sep 19;122(12):2047-51. doi: 10.1182/blood-2013-02-484444. Epub 2013 Aug 12. PMID: 23940280
 22. Furmanov K, Elnekave M, Sa'eed A, Segev H, Eli-Berchoer L, **Kotton DN**, Bachrach G, Hovav AH. Diminished Memory T-Cell Expansion Due to Delayed Kinetics of Antigen Expression by Lentivectors. *PLoS One*. 2013 Jun 18;8(6):e66488. Print 2013. PMID: 23824049
 23. Goldman O, Han S, Sourrisseau M, Dziedzic N, Hamou W, Corneo B, D'Souza S, Sato T, **Kotton DN**, Bissig KD, Kalir T, Jacobs A, Evans T, Evans MJ, Gouon-Evans V. KDR identifies a conserved human and murine hepatic progenitor and instructs early liver development. *Cell Stem Cell*. 2013 Jun 6;12(6):748-60. doi: 10.1016/j.stem.2013.04.026. PMID: 23746980
 24. Smith BW, Rozelle SS, Leung A, Ubellacker J, Parks A, Nah SK, French D, Gadue P, Monti S, Chui DH, Steinberg MH, Frelinger AL, Michelson AD, Theberge R, McComb ME, Costello CE, **Kotton DN**, Mostoslavsky G, Sherr DH, Murphy GJ. The aryl hydrocarbon receptor directs hematopoietic progenitor cell expansion and differentiation. *Blood*. 2013 Jul 18;122(3):376-85. doi: 10.1182/blood-2012-11-466722. Epub 2013 May 30. PMID: 23723449
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