

CURRICULUM VITAE

NAME Michael R. Blackburn, Ph.D.

DATE OF BIRTH December 10, 1965

CITIZENSHIP U.S.A.

CURRENT STATUS Executive Vice President and Chief Academic Officer
 UTHealth
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Dean
John P. McGovern Distinguished Professor of Biomedical Sciences
 The University of Texas Graduate School of
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Professor
*William S. Kilroy Sr., Distinguished University Chair in Pulmonary
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 Department of Biochemistry and Molecular Biology
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ACADEMIC APPOINTMENTS

01/01/2016 Executive Vice President and Chief Academic Officer
 UTHealth

07/01/2015 Director
 UTHealth Pulmonary Center of Excellence

07/01/2012 Dean
 MD Anderson Cancer Center UTHealth Graduate School of
 Biomedical Sciences

12/18/2012 Distinguished Teaching Professor
 The University of Texas System

09/01/2011 Vice Chairman
 to 01/01/2016 Department of Biochemistry and Molecular Biology
 University of Texas-Houston Medical School, now McGovern Medical School

09/01/2006 Professor of Biochemistry
 University of Texas-Houston Medical School, now McGovern Medical School

09/01/2005 to 08/31/2010 Director, Graduate Program in Biochemistry and Molecular Biology
Graduate School of Biomedical Sciences,
now MD Anderson Cancer Center UTHealth Graduate School of
Biomedical Sciences

09/01/2003 Associate Professor of Biochemistry with Tenure
University of Texas-Houston Medical School, now McGovern Medical School

02/19/1998 Member of Graduate School Faculty
MD Anderson Cancer Center UTHealth Graduate School of
Biomedical Sciences

09/01/1997 Assistant Professor of Biochemistry
University of Texas-Houston Medical School, now McGovern Medical School

EDUCATION

1984 - 1988 King College, Bristol, TN
B.S., Biology

1988 - 1993 Thomas Jefferson University, Philadelphia, PA
Graduate Research Assistant, Anatomy and Develop Biology
Mentor, Thomas B. Knudsen, Ph.D.

1993 - 1997 Baylor College of Medicine, Houston, TX
Postdoctoral Fellow, Biochemistry and Molecular Genetics
Advisor, Rodney E. Kellems, Ph.D

HONORS AND AWARDS

1988 Graduate *Cum laude*, King College

1989 - 1993 Thomas Jefferson predoctoral fellowship recipient

1990 - 1994 Teratology Society Young Investigator Travel Award

1991 Gordon Research Conference Travel Award

1995 & 1997 V. C. Joshi Memorial Award, Baylor College of Medicine

1996 Trophoblast Research Young Investigator Travel Award

1994 - 1997 NIH, National Research Service Award

2000 Sandler Foundation Young Investigator Award

2003 American Lung Association Career Development Award

2005-10, 12 UT Medical School, Dean's Teaching Excellence Award

2010 Paul Darlington Mentor Award, Graduate School of Biomedical Sciences

2012 Finalist, Texas Regents Outstanding Teaching Award

2012 Appointment as Distinguished Teaching Professor, The University of Texas System

2012 Member, The University of Texas Academy of Health Science Education

2012 John P. McGovern Distinguished Professor of Biomedical Sciences, The University of Texas Graduate School of Biomedical Sciences at Houston

2013 UT Health Presidents Scholar Award for Research

2014 William S. Kilroy Sr., Distinguished University Chair in Pulmonary Disease, McGovern Medical School

2015 Distinguished Alumni Award, Thomas Jefferson University, Philadelphia, PA

2017 Fellow, American Association for the Advancement of Science

RESEARCH INTETESTS

My laboratory focuses on the role of the purine nucleoside adenosine and its role in regulating lung injury, repair and remodeling. Our major hypothesis is that activation of adenosine signaling through its receptors contributes to the progression of chronic lung diseases such as asthma, chronic obstructive pulmonary disease (COPD), pulmonary fibrosis and pulmonary hypertension by promoting excessive remodeling processes in the lung. Current emphasis is on understanding the role of adenosine signaling in the recruitment and activation of alternatively activated macrophages and how this process contributes to fibroproliferation and vascular remodeling in the lung. We are also interested on how adenosine signaling regulates destructive pathways in airway epithelial cells that lead to emphysema, a major feature of COPD. We use contemporary molecular and cellular approaches in mice and humans to promote the development of adenosine-based therapeutics for the treatment of chronic lung disease.

FUNDING

(M.R. Blackburn as Principle Investigator)

Active

R01 HL070952-13 (Blackburn) 07/01/11-06/30/18 3 calendar months
NIH/NHLBI \$405,457 annual total cost

Adenosine Signaling and Lung Fibrosis

This project focuses on examining the contribution of CFLm25 in the progression of pulmonary fibrosis in mouse models and in samples isolated from patients with pulmonary fibrosis.

1 PO1 HL114457-04 (PD, Blackburn) *Hypoxic Adenosine Responses* 04/01/13-03/30/18
NIH/NHLBI \$2,049,519 annual total cost

The goal of this program project is to define the pathways by which adenosine generation and signaling is beneficial in acute lung and kidney injury and detrimental during chronic lung disease and sickle cell disease.

Project 1. *Hypoxic Adenosine Responses in the Regulation of Lung Injury*. (PI, Blackburn)
NIH/NHLBI \$ 542,243 annual total cost 2.4 calendar months
The goal of this project is to examine the mechanisms underlying the protective effects of adenosine during acute lung injury, the detrimental effects of adenosine in chronic lung disease and the continuum between the two. The focus will be on the promotion of barrier function by adenosine during acute lung injury and the role of adenosine-dependent alternatively activated macrophages during chronic disease stages.

Leader of Core A. *Administrative Core*. (PI, Blackburn) 04/01/13-03/30/18 0.6 calendar months
NIH/NHLBI \$123, 348 annual total cost

The goal of this core will be to provide the administrative infrastructure needed to promote interactions between component project of this PPG.

Completed

PO 4500020593 (Blackburn) 02/20/04-12/31/15 1.2 calendar months
Gilead Sciences, Inc. \$153,050 annual direct cost (\$601,204 total cost)

Role of A2B Adenosine Receptor and its Antagonist (GS-6201) in Pulmonary Hypertension

The objective of this study is to treat both ADA-deficient and bleomycin exposed mice with various dosages of GS-6201 and thoroughly asses molecular, structural and physiological endpoints of PAH in these models.

UCB Celltech, Inc., “Assessment of the Efficacy of Anti-CSF-1R Ab535 in an Intra-tracheal Model of Bleomycin-induced Pulmonary Fibrosis and other assessments of pulmonary fibrosis.” (PO 0008209) 05/04/10-04/30/12 \$155,000 total cost.

Institute of System Biology, “System Analysis of Lung Disease in ADA-deficient mice”. (PO 31486) 04/01/2010 – 12/31/2012. \$70,200 total cost.

National Institutes of Health “Adenosine Metabolism and Signaling in Patients with COPD and Pulmonary Fibrosis” (NIH, RO3-HL095403-02) 09/18/2008 - 07/31/11. \$150,000 total cost.

UT MD Anderson Cancer Center Multidisciplinary Research Program Grant. “Inducible Innate Resistance of the Lung Epithelium to Infection” 04/01/10-03/31/11, \$10,000 total cost.

National Institutes of Health “Molecular Models of Adenosine Signaling and Asthma” (NIH, RO1-AI43572-10) 07/01/98 through 02/28/10, \$2,227,201 total cost.

Battelle Memorial Institute and Institute for Systems Biology, “Systems analysis of adenosine-mediated lung disease in mice”. 12/01/07 through 10/31/10, \$336,413.59 total cost.

ENZON Pharmaceuticals Inc. “Efficacy of adenosine deaminase enzyme therapy in the treatment of bleomycin-induced pulmonary fibrosis”. 07/01/06 through 12/31/07, \$64,591.00 total cost.

ENZON Pharmaceuticals Inc. “Analysis of human PEG-ADA in adenosine deaminase deficient mice”. 07/01/06 through 12/31/07, \$54,718 total cost.

ENZON Pharmaceuticals Inc. “Pharmacodynamics of Adagen and recombinant PEG-ADA in Adenosine Deaminase-deficient mice”. 09/01/09 through 10/31/10, \$134,992.00 total cost.

American Lung Association Career Investigator Award “Role of Ecto-5'-Nucleotidase (CD73) in Chronic Lung Disease” (CI-1077-N-03) 07/01/04 through 06/30/07, \$150,000 total cost.

Sandler Program for Asthma Research “Adenosine Deaminase Enzyme Therapy and Asthma Exacerbations” 07/01/04 through 06/30/05, \$135,000 total cost.

National Institutes of Health “Adenosine Signaling and Lung Inflammation” (NIH, HL61888-04) 09/01/98 through 08/30/03, \$1,181,150.00 total cost.

Sandler Junior Investigator Award in Asthma Research “Role of the Adenosine A3 Receptor in Experimental Asthma” 07/01/00 through 06/30/03, \$375,000 total cost.

Texas Higher Education Coordinating Board “The Role of Adenosine Signaling in Asthma” (011618-060) 01/01/98 through 12/31/99 \$148,500 total cost.

(M.R. Blackburn as Co-Investigator)

Active

UL1TR000371 (McPherson) 06/27/12-12/31/17 (NCE) 1.2 calendar months
NIH/National Center for Advancing Translational Sciences \$500,835
“Center for Clinical and Translational Sciences (CCTS)”

The goal of the CCTS is to move scientific and medical discoveries as fast as possible from the laboratory to the clinic and community, where they can improve the health of the American people. The

CCTS trains researchers, provides research services, and works with its communities to learn their health concerns and spread health care information.

Role: Co-Director of the TL1 component of the CTSA

Completed

1 R01 DK083559 (Xia) 4/1/2009-3/31/2015 0.6 calendar months
NIH/NIDDK \$250,000 annual direct cost

Adenosine Signaling, Priapism and Sickle Cell Disease

The major goal of this study is to reveal an important role for adenosine signaling in several aspects of the penile erection process and highlight various therapeutic opportunities to treat priapism and other erectile disorders.

Role: Co-I

Investigator-Initiated Research Award (Agarwal) 09/30/12-09/29/15 0.6 calendar months
DOD \$250,000

Cadherin-11 Regulation of Fibrosis through Modulation of Epithelial-to-mesenchymal Transition: Implications for pulmonary fibrosis in scleroderma

The aims of this proposal are to determine the contribution of cadherin-11 to process of epithelial-to-mesenchymal transition in airway epithelial cells, to investigate the expression of cadherin-11 on alveolar macrophages and the cadherin-11 dependent regulation of TGF-beta production by alveolar macrophages and to determine if cadherin-11 is a key mediator of fibrosis in the intraperitoneal bleomycin model of pulmonary fibrosis and if cadherin-11 modulates epithelial-to-mesenchymal transition in vivo during the development of pulmonary fibrosis.

Role: Co-I

R01 AI077679-01 (Shyu) 07/25/11-06/30/15 0.6 calendar months
NIH/NIAID \$250,000 annual direct cost

Translational Regulation in Bronchial Epithelial Cells

The aims of this proposal are to determine whether a reduction in miR-26 and miR-16 abundance contributes to the persistent, elevated level of IL-6 observed in asthmatic primary HBE cells; to define the role of a group of miRNAs that are significantly down-regulated in asthmatic primary HBE cells in controlling the activity of translation machinery in bronchial epithelial cells; and to determine whether a reduction in P-bodies is a hallmark of activated bronchial epithelial cells, and how alteration of P-body assembly and disassembly influences the inflammatory response in bronchial epithelial cells.

Role: Co-PI

SCIENTIFIC/ACADEMIC SOCIETY MEMBERSHIPS

1989 - 1996	Teratology Society
1992 - present	American Association for the Advancement of Science
1996 - 2000	International Federation of Placental Associations
1998 – 2012	American Society for Biochemistry and Molecular Biology
2000 - present	American Thoracic Society
2000 – present	American Association of Immunologists
2012- present	The University of Texas Academy of Health Science Education

MANUSCRIPT REVIEWER FOR JOURNALS

Pharmacology and Therapeutics (Associate Editor)
Purinergic Signaling (Editorial Board Member)
Therapeutic Advances in Chronic Lung Disease (Editorial Board Member)

American Journal of Respiratory and Critical Care Medicine
 American Journal of Respiratory Cell and Molecular Biology
 American Journal of Respiratory Medicine
 American Journal of Physiology Lung Cell and Molecular Physiology
 American Journal of Physiology Cell Physiology
 Analytical Biochemistry
 Developmental Biology
 Development
 Gene
 Immunology Today
 FASEB Journal
 Journal of Biological Chemistry
 Journal of Clinical Investigation
 Journal of Experimental Medicine
 Journal of Immunology
 Journal of Endocrinology
 Journal of Pharmacology and Experimental Therapeutics
 Leukocyte Biology
 Nature Reviews
 Nature Medicine
 PlosOne
 PNAS
 Teratology
 Trends in Pharmacological Sciences
 Trends in Immunology

COMMITTEE ACTIVITIES

University of Texas Health Science Center and Medical School

1998 – 2006	UTHSC Radiation Safety Protocol Approval Committee
1998 – 2005	UT-Medical School Animal Welfare Committee
2000 - 2002	UT-Houston HSC Research Council
2002- 2004	UT Medical School Faculty Senate
2004	UT Medical School Dean Search Committee
2005 – present	UT-Medical School Graduate School Education Committee (Chair, 2010)
2006 – 2012	UTHSC Houston Faculty Promotion and Tenure Committee
2006- 2008	Pediatrics Research Faculty Search Committee
2006	Integrative Biology Department Chairman Search Committee
2006 – 2010	UTHSC Houston Clinical Research Center Advisory Board
2007	Biochemistry and Molecular Biology Faculty Search Committee
2007 - 2012	UT Medical School Research Committee
2007 – 2009	Advisory Committee on Resource Development and Utilization
2009, 2010	UT Health Science Center Executive Council Member
2010	Microbiology and Molecular Genetics Chairman Search Committee
2010	UT Medical School Committee on Committees
2011	Institute of Molecular Medicine Executive Director Search Committee
2011	UT Medical School Committee on Committees (Chair)
2012	Pediatrics Research Faculty Search Committee
2013	UT Medical School Deans Search Committee
2014	UT School of Public Health Deans Search Committee (Chair)

Graduate School of Biomedical Sciences

1998 – 2001	Biochemistry and Molecular Biology Graduate Program Admissions Reviewer
2000 - present	Biochemistry and Molecular Biology Program Steering Committee
2001 –2004	Graduate School of Biomedical Sciences Admissions Committee (Chair, 2004)
2004	Graduate School of Biomedical Sciences Executive Committee
2006 – 2011	Graduate School of Biomedical Sciences Executive Committee (Chair, 2008)
2008	Vice President, Graduate School of Biomedical Sciences Faculty
2009	President, Graduate School of Biomedical Sciences Faculty
2010	Molecular Pathology Graduate Program Review Committee (Chair)
2011	Graduate School Dean Search Committee

GRANT REVIEW SERVICE

1999	Grant Reviewer, NIH, PO1 “Asthma and Allergic Disease Research Centers”
2000	Grant Reviewer, NIH, Idea Grant Review Section
2001	Grant Reviewer, Bank of America Trust Fund
2002	Grant Reviewer, NIH, PO1, Mechanisms of Pulmonary Inflammation
2003	Grant Reviewer, The Wellcome Trust, Pulmonary Fibrosis Grant Reviews
2004	Grant Reviewer, North Carolina Science and Technology Development Program
2004	Grant Reviewer, Czech Republic Scientific Board
2005	Grant Reviewer, NIH, PO1, Lung Injury and Repair
2006	Grant Reviewer, The Wellcome Trust, Asthma
2006	Grant Reviewer, NIH, SCCOR, lung host diseases
2006	Grant Reviewer, NIH, Lung Cellular and Molecular Immunology Study Section, Ad Hoc
2007	Grant Reviewer, NIH, Lung Injury, Repair and Remodeling Study Section, Ad Hoc
2007-2012	Grant Reviewer, NIH, Lung Injury, Repair and Remodeling Study Section, Member
2009	Grant Reviewer, Rain Medical Research Foundation, Australia
2012	Workshop Leader, NHLBI, NIH workshop on Idiopathic Pulmonary Fibrosis
2014	Grant Reviewer, NIH, PPG reviewer, Ad Hoc
2015	Department of Defense Pulmonary Fibrosis Review Group (Committee Chair)

CONSULTING ACTIVITIES

2000, 2005	Novartis Pharmaceuticals Inc. (adenosine and lung disease)
2006, 2008	Enzon Pharmaceuticals Inc. (adenosine and lung disease)
2004-2008	CV Therapeutics Inc. (A2B adenosine receptors and lung disease)
2008	Roche Inc, (A2B adenosine receptors and lung disease)
2007-2010	Scientific Advisory Committee, Battelle Memorial Institute (Lung Health Initiative)
2008-2012	UCB Celltech Inc. (novel therapies for pulmonary fibrosis)
2008-2015	Gilead Sciences Inc. A2BR antagonist for the treatment of pulmonary hypertension.
2009-present	Scientific Advisory Committee, International Center for Biomedical Science, China
2009-2011	Sigma Tau Inc. (pegylated ADA development)
2010	Ambit Biosciences (novel adenosine receptor antagonists)
2011	Med Immune (novel targets for the treatment of chronic lung diseases)
2011	Lexicon Pharmaceuticals (small molecules for the treatment of lung disease)

TEACHING ACTIVITIES**Medical School:**

2000-2016	Medical School Biochemistry Lecturer (4 lectures)
1998-2016	Medical School Biochemistry Conference Leader (4 lectures)
2007-2012	Postdoctoral Career Development (2 lectures)
2006-present	Grants 102 (1 lecture)

Graduate School of Biomedical Sciences:

2014	Emerging Trends in Biochemistry and Molecular Biology (2 lectures)
2013-2015	Current Methods in Molecular Research (1 lecture on in situ hybridization)
1998-2012	Current Methods in Molecular Research (Course Director, and 6 lectures)
2005-2012	Seminars in Biochemistry and Molecular Biology (Course Director)
1998	Advanced Reproductive Biology (2 lectures)
2000-2012	Metabolic Biochemistry (4 lectures)
2006, 2012	Topics in Molecular Medicine (2 lectures)
2004-2010	Stem Cells in Biomedical Science (2 lectures)
2001	Seminars in Regulatory Biology (3 lectures)
2017	Foundations in Biomedical Sciences (1 lecture)

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE

1998-2002	Honyan Zhong, obtained Ph.D., currently a research scientist at Gilead Sci., Inc.
1999-2004	Hays Young, obtained Ph.D., currently research scientist with Arkansas Crime lab
2000-2006	Jonathon Volmer, obtained Ph.D., currently a Post Doc at UNC Chapel Hill
2001-2006	Janci Chunn, obtained Ph.D., currently scientists with at Exoponet in Houston
2003-2006	Amir Mohsenin, obtained Ph.D., currently an Assistant Professor at UTHealth
2004-2006	Rebecca Corrigan, obtained M.S., currently an intern at a law firm in Houston
2004-2006	Brandi Baird, obtained M.S., currently a graduate student at UT-Houston
2006-2010	Yang Zhou, obtained Ph.D. currently an Assistant Professor at Brown University
2007-2010	Daniel Schneider, obtained Ph.D., currently a Medicine Resident at the Univ. of Michigan
2008-2011	Mesias Pedroza, obtained Ph.D. currently a Postdoc at Baylor College of Medicine
2009-2014	Thuy Le, obtained M.D./Ph.D., currently in residency at UTHealth Medical School
2010-2012	Luis Acero (Ph.D. Student), left with terminal masters
2013-2017	Kemly Philips, obtained M.D./Ph.D., beginning residency at UTHealth
2015-present	Josh Ko, (Ph.D. student)

SPONSORSHIP OF POSTDOCTORAL FELLOWS

1999-2003	Suman Banerjee, M.D. Ph.D., currently a practicing pathologist in Florida
2001-2003	Christopher Evans, Ph.D., currently an Assistant Professor at M.D. Anderson
2002-2006	Chun-Xiao Sun, Ph.D., currently Assistant Professor at Lomalinda Univ. in CA
2006-2007	Amir Mohsenin, Ph.D., currently a 3 rd year Med Student at UT Houston
2004-2008	Eva Morschl, Ph.D., currently a Research Associate at the IMM in Houston TX
2010-2011	Daniel Schneider, Ph.D., currently a Medicine Resident at the Univ. of Michigan
2010-2012	Harry Karmouty-Quintana, Ph.D., obtained an AHA Postdoctoral Fellowship, currently an Assistant Professor at UTHealth Medical School
2010-2015	Tingting Weng, Ph.D., obtained an AHA Postdoctoral Fellowship

2013-2017 Fayong Luo, Ph.D., obtained an AHA Postdoctoral Fellowship

CLINICIAN SCIENTIST, JUNIOR FACULTY MEMBERS AND CLINICAL FELLOW MENTORSHIPS

2007-2010 Jay Murthy, M.D., Pulmonary Proteomics (UT-Houston)
 2007-2012 Sandeep Agarwal, M.D. Ph.D., Pulmonary Fibrosis (UT-Houston)
 2009-2012 Dat Tran, M.D., T Regulatory Cells and Disease (UT-Houston)
 2008-2012 Amber Loung, M.D., Allergic Rhinitis (UT-Houston)
 2009-2012 Richard Johnston, Ph.D., Asthma (UT-Houston)
 2010-2013 Ernestina Melencorft, M.D., Pediatric Fellow Research Project (BCM)
 2011-2015 Jonathan Davies, M.D., Pediatric Fellow Research Project (BCM)
 2012-2015 Harry Karmouty-Quintana, Ph.D., Assistant Professor (UTHealth)
 2015-present Tingting Mills, Ph.D., Assistant Professor (UTHealth)

PUBLICATIONS

Total Citations = 8,670

h-index = 58

i10-index = 136

Abstracts

Available upon request.

Journal Articles

1. Knudsen, T. B., Gray, M. K., Church, J. K., **Blackburn, M. R.**, Airhart, M. J., Kellems, R. E. and Skalko, R. G. (1989) Early postimplantation embryo lethality in mice following in utero inhibition of adenosine deaminase with 2'-deoxycoformycin. *Teratology*, **40**, 615-626.
2. Chinsky, J. M., Ramamurthy, V., Fanslow, W. C., Ingolia, D. E., **Blackburn, M. R.**, Shaffer, K. T., Higley, H. R., Trentin, J. J., Rudolph, F. B., Knudsen, T. B. and Kellems, R. E. (1990) Developmental expression of adenosine deaminase in the upper alimentary tract of mice. *Differentiation*, **42**, 172-183.
3. Knudsen, T. B., **Blackburn, M. R.**, Chinsky, J. M., Airhart, M. J. and Kellems, R. E. (1991) Ontogeny of adenosine deaminase in the mouse decidua and placenta: Immunolocalization and embryo transfer studies. *Biol. Reprod.*, **44**, 171-184.
4. Knudsen, T. B., Winters, R. S., Otey, S. K., **Blackburn, M. R.**, Airhart, M. J., Church, J. K. and Skalko, R. G. (1992) Effects of (R)-deoxycoformycin (pentostatin) on intrauterine nucleoside catabolism and embryo viability in the pregnant mouse. *Teratology*, **45**, 91-103.
5. **Blackburn, M. R.**, Gao, X., Airhart, M. J., Skalko, R. G., Thompson, L. F. and Knudsen, T. B. (1992) Adenosine levels in the postimplantation mouse uterus: Quantitation by HPLC-fluorometric detection and spatiotemporal regulation by 5'nucleotidase and adenosine deaminase. *Dev. Dynam.*, **194**, 155-168.
6. Resta, R., Hooker, S. W., Hansen, K. R., Laurent, A. B., Park, J. L., **Blackburn, M. R.**, Knudsen, T. B. and Thompson, L. F. (1993) Murine ecto-5'-nucleotidase (CD73): cDNA cloning and tissue distribution. *Gene*, **133**, 171-177.

7. Gao, X., **Blackburn, M. R.** and Knudsen, T. B. (1993) Activation of apoptosis in early mouse embryos by 2'-deoxyadenosine. *Teratology*, **49**, 1-12.
8. Wakamiya, M., **Blackburn, M. R.**, Jurecic, J., McArthur, M. J., Geske, R. S., Cartwright, J. Jr., Mitane, K., Vaishnav, S., Belmont, J. W., Kellems, R. E., Finegold, M. J., Bradley, A. and Caskey, C. T. (1994) Disruption of the adenosine deaminase gene causes hepatocellular impairment and perinatal lethality in mice. *Proc, Ntl, Acad. Sci.*, **92**, 3673-3677.
9. **Blackburn, M. R.**, Wakamiya, M., Caskey, C. T. and Kellems, R. E. (1995) Tissue-specific rescue suggests that placental adenosine deaminase is important for fetal development in mice. *J. Biol. Chem.*, **270**, 23891-23894.
10. **Blackburn, M. R.**, Datta, S. K., Wakamiya, M., Vartabedian, B. S. and Kellems, R. E. (1996) Metabolic and immunological consequences of partial adenosine deaminase deficiency in mice. *J. Biol. Chem.*, **271**, 15203-15210.
11. Shi, D., Winston, J. H., **Blackburn, M. R.**, Datta, S. K., Hanten, G. and Kellems, R. E. (1997) Diverse genetic regulatory motifs required for murine adenosine deaminase expression in the placenta. *J. Biol. Chem.*, **272**, 2334-2331.
12. **Blackburn, M. R.**, Knudsen, T. B. and Kellems, R. E. (1997) Genetically engineered mice demonstrate that adenosine deaminase is essential for early postimplantation development. *Development*, **124**, 3089-3097.
13. **Blackburn, M. R.**, Datta, S. K. and Kellems, R. E. (1998) Adenosine deaminase deficient mice generated using a two stage genetic engineering strategy exhibit a combined immunodeficiency. *J. Biol. Chem.*, **273**, 5093-5100.
14. **Blackburn, M. R.**, Wakamiya, M. and Kellems, R. E. (1998) Purine metabolic disturbances in adenosine deaminase deficient fetuses and placentas suggest a protective role for this enzyme during murine development. *Trophoblasts Res.*, **11**, 121-135.
15. **Blackburn, M. R.**, Wubah, J., Chunn, J. L., Thompson, L. T., and Knudsen, T. B. (1999) Transitory expression of the A2b adenosine receptor during implantation chamber development. *Developmental Dynamics*, **216**, 127-136.
16. **Blackburn, M. R.**, Volmer, J. B., Thrasher, J. C., Crosby, J. R., Lee, J. J. and Kellems, R. E. (2000) Metabolic consequences of adenosine deaminase deficiency in mice are associated with defects in alveogenesis, pulmonary inflammation and airway obstruction. *J. Exp. Med.*, **192**, 159-170.
17. **Blackburn, M. R.**, Aldrich, M., Volmer, J. B., Chen, W., Kelly, S., Hershfield, M. S., Datta, S. K. and Kellems, R. E. (2000) The use of enzyme therapy to regulate the metabolic and phenotypic consequences of adenosine deaminase deficiency in mice: Differential impact on pulmonary and immunologic abnormalities. *J. Biol. Chem.*, **275**, 32114-32121.
18. Thompson, L. F., Van De Wiele, C. J., Laurent, A. B., Hooker, S. W., Vaughn, J. G., Jiang, H., Kellems, R. E., **Blackburn, M. R.**, Hershfield, M. S. and Resta, R. (2000) Metabolites from apoptotic thymocytes inhibit thymopoiesis in adenosine deaminase-deficient fetal thymic organ cultures. *J. Clin. Invest.*, **106**, 1149-1157.
19. Van De Wiele, C. J., Hooker, S. W., Laurent, A. B., Vaughn, J. G., **Blackburn, M. R.**, Kellems, R. E., Hershfield, M. S., and Thompson, L. F. (2000) Inhibition of thymic caspases abrogates the consequences of adenosine deaminase deficiency. *Adv. Exp. Med. Biol.* **486**, 65-70.

20. Janahi, I. A., Elidemir, O., Shardonofsky, F. R., Abu-Hassan, M. N., Fan, L. L., Larsen, G. L., **Blackburn, M. R.** and Colasurdo, G. N. (2000) Recurrent milk aspiration produces changes in airway mechanics, lung eosinophilia, and goblet cell hyperplasia in a murine model. *Pediatric Res.*, **48**, 776-781.
21. Khan, S., **Blackburn, M.** Mao, D. L., Huber, R., Schlessinger, D. and Fant, M. (2001) Glypican-3 (GPC3) expression in human placenta: localization to the differentiated syncytiotrophoblast. *Histol. Histopathol.*, **16**, 71-78.
22. Apasov, S., **Blackburn, M. R.**, Kellems, R. E., Smith, P. and Sitkovsky, M. V. (2001) Adenosine deaminase deficiency increases thymic apoptosis and causes defective T Cell receptor signaling. *J. Clin. Invest.*, **108**, 131-141.
23. Zhong, H., Chunn, J. L., Volmer, J. B., Fozard, J. L. and **Blackburn, M. R.** (2001) Adenosine mediated mast cell degranulation in adenosine deaminase-deficient mice. *J. Pharm. Exp. Ther.*, **298**, 433-440.
24. Chunn, J. L., Young, H. W. J., Zhong, H., Banerjee, S. K., Colasurdo, G. N. and **Blackburn, M. R.** (2001) Adenosine-dependent airway inflammation and hyperresponsiveness in partially adenosine deaminase deficient mice. *J. Immunol.*, **167**, 4676-4685.
25. Banerjee, S. K., Young, H. W. J., Volmer, J. B. and **Blackburn, M. R.** (2002) Gene expression profiling in inflammatory airway disease associated with elevated adenosine. *Am. J. Phys. Lung Cell Mol. Physiol.*, **282**, L169-L182.
26. Van De Wiele, C. J., Vaughn, J. G., **Blackburn, M. R.**, LeDent, C., Parmentier, M. Jacobson, M., and Thompson, L. F. (2002) An adenosine kinase inhibitor rescues thymocyte development and normalizes dATP levels in adenosine deaminase-deficient murine fetal thymic organ culture. *J. Clin. Invest.*, **110**, 395-402.
27. Khan, A. M., Elidemir, O., Epstein, C. E., Lally, K. P., Xue, H. **Blackburn, M. R.**, Larsen, G. L. and Colasurdo, G. N. (2002) Meconium aspiration produces airway hyperresponsiveness and eosinophilic inflammation in a murine model. *Am. J. Phys. Lung Cell Mol. Physiol.*, **283**, L785-L790.
28. Zhong, H., Sergiy, S., Molina, J. G., Sanborn, B. M., Jacobson, M. A., Tilley, S. L. and **Blackburn, M. R.** (2003) Activation of murine lung mast cells by the adenosine A₃ receptor. *J. Immunol.* **170**, 338-345.
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113. Davies, J., Karmouty-Quintana, H., Le, T. T., Chen, N. Y., Weng, T., Luo, F., Molina, J., Moorthy, B. and **Blackburn, M. R.** (2014) Adenosine promotes vascular barrier function in hyperoxic lung injury. *Physiol. Reports* **28**, e12155. PMID: 25263205
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Book Chapters, Invited Reviews and Commentaries

1. **Blackburn, M. R.** and Kellems, R. E. (1996) Regulation and function of adenosine deaminase in mice. *Progress in Nucleic Acid Research and Molecular Biology*, W. E. Cohn and K. Moldave, eds., Academic Press, New York. Vol. 55, pp 195-226.
2. **Blackburn, M. R.** and Kellems, R. E. (1996) Utilizing transgenic mice to study gene regulation and function. *Molecular and Cellular Methods in Developmental Toxicology*, G.P. Daston, ed., CRC Press, Inc., Boca Raton. pp 49-68.
3. Thompson, L. F. and **Blackburn, M. R.** (1998) At last! Experimental models for adenosine deaminase deficiency. *The Immunologist* **6**, 72-75.
4. **Blackburn, M. R.** (1999) Examination of normal and abnormal placentation in the mouse. *Dev. Biol. Protocols Vol I* (eds., R. S. Tuan and C. W. Lo). pp. 179-187.
5. Aldrich, M. B., **Blackburn, M. R.** and Kellems, R. E. (2000) The importance of adenosine deaminase for lymphocyte development and function. *Biochem. Biophys. Res. Com.* **272**, 311-315.
6. Aldrich, M. B., **Blackburn, M. R.**, Datta, S. K., and Kellems, R. E. (2000) Adenosine deaminase-deficient mice: models for the study of lymphocyte development and adenosine signaling. *Adv. Exp. Med. Biol.* **486**, 57-63.
7. **Blackburn, M. R.** and Zhong, H. (2001) Adenosine mediated lung inflammation and damage; lessons from adenosine deaminase-deficient mice. *Drug Dev. Res.* **52**, 416-423.
8. **Blackburn, M. R.** (2003) Too much of a good thing: Adenosine overload in adenosine deaminase-deficient lungs. *Trends Pharmacol. Sci.*, **24**, 66-70.
9. Elias, J. A., Zheng, T., Lee, C.-G., Ma, B., **Blackburn, M. R.**, and Zhu, Z. (2003) Transgenic modeling of IL-13 in the lung. *Chest*, **123**, 339S-345S.
10. Banerjee, S. K. and **Blackburn, M. R.** (2003) Adenosine signaling and lung inflammation. In *Biology of Airway Inflammation: Therapeutic Targets*. N. T. Eissa and D. P. Huston editors, *Lung Biology in Health and Disease*, **177**, 681-698.
11. **Blackburn, M. R.**, and Young, H. W. J. (2003) Impact of endogenous adenosine on airway hyperresponsiveness. *Drug Dev. Res.*, **58**, 472-478.

12. Thompson, L. F., Vaughn, J. G., Laurent, A. B., **Blackburn, M. R.** and Van De Wiele, C. J. (2003) Mechanism of apoptosis in developing thymocytes as revealed by adenosine deaminase-deficient fetal thymic organ cultures. *Biochem. Pharmacol.* **66**, 1595-1599.
13. **Blackburn, M. R.**, and Kellems, R. E. (2005) Adenosine deaminase deficiency: metabolic basis of immune deficiency and pulmonary inflammation. *Adv. Immunol.* **86**, 1-41.
14. Mohsenin, A. and **Blackburn, M. R.** (2006) Adenosine signaling in asthma and COPD. *Curr. Opin. Pul. Med.* **12**, 54-59.
15. **Blackburn, M. R.** (2006) Adenosine signaling in chronic lung disease. In: Adenosine Receptors: Therapeutic Aspects for Inflammatory and Immune Diseases. G. Hasko, B. Cronstein and C. Szabo editors. pp 187-212.
16. Ashton, K. J., Peart, J. N., Morrison, R. R., Matherne, G. P., **Blackburn, M. R.** and Headrick, J. P. (2007) Genetic modulation of adenosine receptor function and adenosine handling in murine hearts: insights and issues. *J. Mol. Cell. Cardio.* **42**, 693-705.
17. **Blackburn, M. R.** (2007) A role for neural pathways in adenosine-induced bronchoconstriction. *Am. J. Phys. Lung Cell Mol. Physiol.*, **293**, L22-L24.
18. Zhou, Y., Schneider, D. J. and **Blackburn, M. R.** (2009) Adenosine signaling and the regulation of chronic lung disease. *Pharmacol. Therap.* **123**, 105-116.
19. **Blackburn, M.R.**, Vance, C. Morschl, E. and Wilson, C. (2009) Adenosine receptors and inflammation. In: Handbook for Experimental Pharmacology: Volume 20: Adenosine Receptors in Health and Disease. pp. 215-269.
20. Polosa, R. and **Blackburn, M. R.** (2009) Adenosine Receptors as targets for therapeutic intervention in respiratory diseases. *Trends Pharmacol. Sci.*, **30**, 528-535.
21. Dai, Y., Zhang, Y., Phatarpekar, P., Mi, T., Zhang, H., **Blackburn, M. R.** and Xia, Y. (2009) Adenosine signaling, priapism and novel therapies. *J. Sex Med.* **3**, 291-301.
22. **Blackburn, M. R.** (2011) P2Y6 and vascular inflammation. *Blood.* **117**, 2304-2305.
23. Thompson, L. F., Picher, M. and **Blackburn, M. R.** (2011) "Animal Models of Airway Disease" In *Purinergic Regulation of Respiratory Disease*. Eds. M. Picher and R. C. Boucher, *Subcell. Biochem.* **55**, 195-234.
24. Thompson, L. F. and **Blackburn M. R.** (2012) Pillar of Immunology Commentary. "Adenosine Deaminase Deficiency: Testing Ground for Novel Therapies". *J. Immunol.* **183**, 933-935.
25. Karmouty-Quintana, H., Xia, Y. and **Blackburn, M.R.** (2012) Adenosine Signaling in Acute and Chronic Disease States. *J. Mol. Med.* **91**, 173-181.
26. Blackwell, T. S , Tager, A. M., Borok, Z., Moore, B. B., Schwartz, D. A., Anstrom, K. J., Bar-Joseph Z., Bitterman, P., **Blackburn, M. R.**, Bradford, W., Brown, K. K., Chapman, H. A., Collard, H. R., Cosgrove, G. P., Deterding, R., Doyle, R., Flaherty, K. R., Garcia, C. K., Hagood, J. S., Henke, C. A., Herzog, E., Hogaboam, C. M., Horowitz, J. C., King, T. E. Jr., Loyd, J. E., Lawson, W. E., Marsh, C. B., Noble, P. W., Noth. I., Sheppard, D., Olsson, J., Ortiz, L. A., O'Riordan, T. G., Oury, T. D., Raghu, G., Roman, J., Sime, P. J., Sisson, T. H., Tschumperlin, D., Violette, S. M., Weaver, T. E., Wells, R. G., White, E. S., Kaminski, N., Martinez, F. J., Wynn, T. A., Thannickal, V. J., Eu, J.

P. (2014) Future directions in idiopathic pulmonary fibrosis research: an NHLBI workshop report. *Am. J. Respir. Crit. Care Med.* **189**, 214-222.

Patents

Kellems, R. E., Datta, S. K., and Blackburn, M. R. (2001) Adenosine deaminase deficient mice and methods for the use thereof. US 6,207,876 B1

Zeng, D. and Blackburn, M. R. (2007) Method of preventing airway remodeling and pulmonary inflammation using A2B adenosine receptor antagonists. US 60/619,439

Blackburn, M. R. Kellems, R.E. and Greenberg, L. (2007) Use of adenosine deaminase for treating pulmonary disease. No. 60/882,748

INVITED SEMINARS AND MEETING SYMPOSIUM PRESENTATIONS

1999 Adenosine deaminase deficient mice develop severe lung eosinophilia and damage in association with elevated adenosine levels. Platform presentation at Keystone Symposium on Asthma. Incline Village, NV

Adenosine-dependent lung eosinophilia in adenosine deaminase deficient mice. Tanox Inc. Houston TX.

Adenosine-dependent lung inflammation in adenosine deaminase deficient mice. Department of Pathology Seminar Program. UTHSC-Houston TX.

Adenine nucleoside regulation and signaling at the murine maternal-fetal interface. Texas Forum on Female Reproduction. Texas Medical Center, Houston TX.

Adenosine deaminase deficient mice develop a combined immunodeficiency and severe lung inflammation. Invited speaker for Biochemistry and Molecular Biology seminar series. Mayo Clinic, Scottsdale AR.

Generation of adenosine deaminase deficient mice: models for adenosine-dependent lung inflammation and damage. Novartis Pharmaceuticals, Horsham, UK.

The use of genetically modified mice to probe the function of nucleoside signaling during lung disease. Department of Molecular Genetics Seminar Series, M. D. Anderson Cancer Center, Houston, TX.

Adenosine deaminase-deficient mice as models of adenosine mediated lung inflammation. Origins of Asthma in Early Life NIH RFA Meeting, Bethesda, MD.

2000 The Role of Adenosine in Asthma. Medicine and Critical Care Seminar, Baylor College of Medicine, Houston, TX.

Adenosine deaminase-deficient mice as models of adenosine mediated lung inflammation. Leukocyte Biology Seminar Series, Baylor College of Medicine, Houston, TX.

Adenosine deaminase-deficient mice as models of adenosine mediated lung inflammation. Invited speaker, CV Therapeutics, Palo Alto, CA.

Adenosine deaminase deficient mice: models for the study of lymphocyte development and adenosine signaling. Invited Speaker, International Symposium of Nucleosides and Nucleotides, Madrid, Spain.

Adenosine mediated lung inflammation and damage: lessons from adenosine deaminase-deficient mice. Integrative Biology and Pharmacology Seminar Series, UT-Houston Medical School. Houston, TX.

Adenosine mediated lung inflammation and damage: lessons from adenosine deaminase-deficient mice. Experimental Radiation Oncology Seminar Series, MD Anderson Cancer Center, Houston, TX.

Adenosine mediated lung inflammation and damage: lessons from adenosine deaminase-deficient mice. Department of Cell Biology Seminar Series, Baylor College of Medicine, Houston, TX.

2001 Adenosine-dependent lung inflammation and damage. Genetics Department Seminar Program. Case Western Reserve University. Cleveland, OH.

The Role of the Adenosine A3 receptor in Experimental Asthma. Sandler Program for Asthma Research Symposium. San Francisco, CA.

Genetic approaches for the examination of adenosine signaling in inflammatory lung diseases. Department of Pharmacology Seminar Series. East Carolina University School of Medicine, Greenville NC.

Genetic approaches for studying the role of adenosine in lung inflammation and damage. Department of Pulmonary Medicine Seminar Series. University of North Carolina at Chapel Hill, School of Medicine, Chapel Hill, NC.

2002 Mutant mouse models of pulmonary disease. Symposium Speaker NIH-OLAW conference on comparative pathology in functional genomics. Baylor College of Medicine, Houston TX.

The Role of the Adenosine A3 receptor in Experimental Asthma. Sandler Program for Asthma Research Symposium. San Francisco, CA.

Pulmonary consequences of adenosine overload: lessons from adenosine deaminase-deficient mice. 7th International Symposium on Adenosine and Adenine Nucleotides. Gold Coast, Australia.

Adenosine signaling and lung inflammation. NIH workshop on Asthma in Early Life. Bethesda, MD.

2003 Pulmonary consequences of adenosine overload. Department of Critical Care Medicine Seminar Pulmonary Seminar Series. Baylor College of Medicine, Houston, TX.

Adenosine signaling and in lung inflammation and damage: lessons from genetically modified mice. Department of Molecular Physiology and Biophysics Seminar Series. Baylor College of Medicine. Houston, TX.

Pulmonary consequences of adenosine overload. Department of Critical Care Medicine Seminar Pulmonary Seminar Series. Yale School of Medicine, New Haven, CT.

Examining patterns of adenosine-dependent gene expression in models of adenosine mediated lung disease. Faculty Research Retreat Speaker. The University of Texas Health Science Center at Houston. Woodlands Conference Center, Woodlands, TX.

Pulmonary consequences of adenosine overload. Cardiovascular Research Center Invited Seminar Speaker. University of Virginia, Charlottesville, VA.

Consequences of adenosine overload in chronic lung disease. Department of Molecular Genetics invited seminar speaker. M.D. Anderson Cancer Center, Houston, TX.

The Role of the Adenosine A3 receptor in Experimental Asthma. Sandler Program for Asthma Research Symposium. San Francisco, CA.

Pulmonary consequences of adenosine overload: lessons from adenosine deaminase deficient mice. Symposium Speaker, Purines and Pyrimidines in Man Meeting, Amsterdam, Netherlands

Molecular Models of Adenosine Signaling and Chronic Lung Disease. Toxicology Seminar Series, M.D. Anderson Cancer Center, Houston, TX

2004 Molecular Models of Adenosine Signaling and Chronic Lung Disease. Biology and Chemistry Departmental Seminar, Southwestern University, Georgetown, TX.

Molecular Models of Adenosine Signaling and Chronic Lung Disease. Symposia Speaker, Purines 2004 International Meeting, Chapel Hill, NC.

The ying and yang of adenosine signaling and pulmonary inflammation and damage. Division of Medical Pharmacology Seminar Series, New York University Medical School, New York, NY.

Pulmonary consequences of adenosine overload. Department of Pediatrics seminar series, Baylor College of Medicine, Houston, TX.

Pulmonary consequences of adenosine overload. Department of Pharmacology seminar series, The University of Houston, Houston, TX.

Adenosine signaling and chronic lung disease. Human and Molecular Genetics Program Seminar, University of Texas Health Science Center at Houston School of Public Health, Houston, TX.

2005 A2B adenosine receptor signaling in chronic lung disease. CV Therapeutics Inc., Palo Alto, CA.

Contribution of A2B adenosine receptor signaling to development of adenosine-dependent lung disease. CV therapeutics Asthma Advisory Board Meeting, New York, NY

Adenosine Deaminase Enzyme Therapy and Asthma Exacerbations. Annual SPAR Meeting speaker. San Francisco, CA

Adenosine signaling in lung inflammation and damage: lessons from genetically modified mice. Biology Seminar Series, King College, Bristol, TN

Adenosine signaling in lung inflammation and damage: lessons from genetically modified mice. Summer Research Program Seminar Series, UT Medical School, Houston, TX

Regulation of endogenous adenosine: insights into adenosine signaling in pulmonary inflammation and remodeling. Symposium on Timeless Pharmacology, Novartis Institute for Biomedical Research, Horsham, UK

Adenosine signaling in lung inflammation and damage: lessons from genetically modified mice. Postdoctoral Association Seminar Series, Baylor College of Medicine, TX

Adenosine signaling in lung inflammation and damage: lessons from genetically modified mice. Division of Cardiology lab seminar, UT Medical School, Houston, TX

2006 Molecular models of adenosine signaling and lung disease. Department of Biology Seminar Series. Texas A&M International, Laredo, TX

Adenosine signaling and the amplification of fibroproliferative lung disease. Integrative Biology Seminar Program, The University of Texas-Houston Medical School, Houston, TX

Adenosine receptors and the regulation of chronic lung disease. Invited symposium speaker at the 8th International Symposium on Adenosine and Adenine Nucleotides. Ferrara, Italy

The role of adenosine in chronic lung disease. UT Medical School Summer Research Program Seminar Series. Houston, TX

The use of ADA enzyme therapy in the treatment of adenosine-dependent lung disease. Consulting seminar, ENZON Pharmaceuticals Inc. Piscataway, NJ

Contribution of A2B adenosine receptor signaling to development of adenosine-dependent lung disease. CV therapeutics Asthma Advisory Board Meeting, New York, NY

Adenosine signaling and the regulation of fibroproliferative lung disease. Pharmacology Seminar Series, Medical College of Wisconsin, Milwaukee, WI

Adenosine signaling and the regulation of chronic lung disease. National Toxin Research Center Seminar Series. Kingsville A&M, Kingsville, TX

2007 Adenosine signaling in pulmonary angiogenesis and fibrosis. Adult Pulmonary Seminar Series. MD Anderson Cancer Center. Houston, TX

Contribution of A2B adenosine receptor signaling to adenosine mediated pulmonary fibrosis and angiogenesis. Cardiovascular Research Center Seminar Series. University of Virginia, Charlottesville, VA

Molecular Models of Adenosine Signaling and Chronic Lung Disease. Institute for Systems Biology Seminar Speaker. Institute for Systems Biology Seattle WA

Molecular Models of Adenosine Signaling and Chronic Lung Disease. Quest Speaker in Biological Sciences, Pacific Northwest National Laboratory, Richland, WA

Contribution of A2B adenosine receptor signaling to adenosine mediated pulmonary fibrosis and angiogenesis. CV therapeutics Seminar Series, CV Therapeutics Inc., Palo Alto, CA

Genetic Models Examining the function of adenosine signaling in chronic lung disease. Grand Rounds in Clinical Pharmacology, Vanderbilt School of Medicine, Nashville, TN

The use of ADA enzyme therapy in the treatment of adenosine-dependent lung disease. Consulting seminar, ENZON Pharmaceuticals Inc. Piscataway, NJ

Adenosine signaling and the regulation of pulmonary inflammation; contribution of the A3 adenosine receptor and eosinophils. Invited Speaker. International Eosinophil Society meeting, Snowbird, UT

Molecular Models of Adenosine Signaling and Chronic Lung Disease. Invited seminar speaker. Physiology Department, Baylor College of medicine. Houston, TX

Adenosine signaling and the regulation of pulmonary fibrosis and angiogenesis. Human genetics center seminar. The University of Texas Health Science Center at Houston School of Public Health. Houston, TX

Systems analysis of adenosine-mediated lung disease in mice. Battelle Memorial Institute, Seattle WA

2008 Adenosine signaling and the regulation of fibroproliferative lung disease. Pathology and Laboratory Medicine monthly seminar series, Baylor College of Medicine, Houston, TX

Molecular Models of Adenosine Signaling and Chronic Lung Disease. Invited seminar speaker. Molecular Pathology Department. University of Texas-Houston Medical School, Houston, TX

Molecular Models of Adenosine Signaling and Chronic Lung Disease. Invited seminar speaker. Department of Pediatric Pulmonary, Baylor College of Medicine, Houston, TX

A model for adenosine-dependent pulmonary inflammation and damage. Lung Bio-initiative Meeting. Battelle Memorial Institute, Seattle WA

A2B adenosine receptor signaling in aspects of pulmonary inflammation and injury. Consulting seminar. CV Therapeutics, Palo Alto, CA

Adenosine signaling in lung inflammation, asthma and COPD. Invited Speaker. Purines 2008, Copenhagen, Denmark

Adenosine signaling and the regulation of chronic lung disease. GSBS Summer Research Program Seminar Speaker. Houston, TX

Adenosine signaling and the regulation of chronic lung diseases. Carleton College Seminar Series, Northfield, MN.

Adenosine Signaling and the Regulation of Chronic Lung Diseases. Oklahoma State University Veterinary College, Distinguished Professor Seminar Series, Stillwater, OK

2009 A systems biology approach to the analysis of adenosine-dependent lung disease. Battelle Memorial Institute, Seattle WA.

Adenosine and Chronic Lung Disease. University of Texas Health Science Center Research Day Symposium Speaker. Houston, TX

2010 Adenosine Signaling and the Regulation of Chronic Lung Diseases. Department of Pulmonary and Critical Care, University of Texas Health Science Center at Tyler, Tyler TX.

Adenosine Signaling and the Regulation of Fibroproliferative Lung Disease. Department of Medicine, Division of Rheumatology Grand Rounds, University of Texas-Houston Medical School. Houston TX.

Adenosine signaling and the regulation of chronic lung disease. Symposium speaker, Purines 2010 International Meeting in Tarragona, Spain.

Adenosine signaling and the regulation of pulmonary hypertension. Gilead Scientific Inc. Palo Alto, CA

Therapeutic approaches for adenosine deaminase deficiency, Clinic for Special Children, Strasburg, PA

Adenosine signaling and the regulation of chronic lung disease. University of Pennsylvania seminar series in lung health. Philadelphia, PA

2011 The role of the A_{2B} adenosine receptor in fibroproliferative lung disease. Department of Pediatrics Seminar Series, Baylor College of Medicine. Houston, TX

Models of adenosine mediated lung injury. Med Immune, Gaithersburg, MD

Adenosine and P2 Receptor Signaling in Pulmonary Fibrosis. Symposium Speaker, European Respiratory Society Meeting, Amsterdam, Netherlands

A_{2B} Adenosine Receptor Signaling in the Regulation of Pulmonary Fibrosis and Pulmonary Hypertension. Invited Seminar. Division of Allergy, Asthma and Critical Care Medicine, Vanderbilt School of Medicine, Nashville TN

2012 The role of the A_{2B} adenosine receptor in the regulation of chronic lung disease. Invited Seminar. Pediatrics Research Division Seminar Series. UT Houston Medical School. Houston, TX

The role of the A_{2B} adenosine receptor in chronic lung disease. Invited Seminar and session organizer. Collaborative Research Alliances for the Cure of Lung Diseases, Houston, TX

Contribution of adenosine A_{2B} receptor signaling in idiopathic pulmonary fibrosis and pulmonary hypertension. Invited Seminar. Methodist J.C. Walter Jr. Transplant Grand Rounds, Methodist Hospital, Houston

Adenosine Signaling and Lung Disease: Translating Findings From Mice into Novel Therapies. Topics in Translational Research Seminar Series. UT Medical School. Houston

The role of adenosine signaling in the regulation of chronic lung disease. Invited Speaker. Biosciences Seminar Series, University of South Florida Health Science Center. Tampa, Florida

The role of inflammation in idiopathic pulmonary fibrosis. Invited Speaker, NIH, NHLBI workshop, Bethesda, Maryland

2013 The role of the A_{2B} adenosine receptor in lung injury and remodeling. Invited Speaker, Department of Anesthesiology, University of Colorado Anschutz Medical Campus. Denver, Colorado

Adenosine signaling and the progression of chronic lung disease. Invited Speaker, Texas Heart Institute at St. Luke's Hospital. Houston, Texas

You Had Me at Hello – How to write a specific aims page. Invited Speaker, Texas Regional Consortium of CTSA recipients. San Antonio, TX

Role of adenosine signaling and inflammation in the progression of chronic lung disease. Invited Speaker. Inflammation workshop, UTHealth.

- 2014 Adenosine in Chronic Lung Disease: Too Much of a Good Thing. Invited speaker at the Biochemistry and Molecular Biology Graduate Program Retreat at the University of Texas Graduate School of Biomedical Sciences, New Brounfels, TX

Adenosine signaling and the regulation of pulmonary fibrosis. Invited Speaker. Pulmonary and Critical Care Medicine Grand Rounds. UTHealth Medical School, Houston, TX

Adenosine signaling and lung fibrosis: Role of the ADORA2B on pulmonary macrophages. Symposium Speaker. Purines 2014 Meeting, Bonn, Germany

The Role of Adenosine Signaling in Pulmonary Fibrosis: Too Much of a Good Thing. Molecular Pathology Graduate Program Retreat Keynote Speaker. Brown University, Providence, RI

A2B Adenosine Receptor Signaling in Pulmonary Fibrosis: The Role of Alternatively Activated Macrophages. Joint COBRE/Pulmonary Division Seminar Series, Visiting Professor, Brown University, Providence, RI

- 2015 Novel Approaches for the Treatment of Pulmonary Fibrosis: Translating Findings from Mouse to Man, Keynote Speaker for Cullen Symposium, UTHealth/MD Anderson/Baylor College of Medicine

A2B Adenosine Receptor Signaling in Pulmonary Fibrosis: The Role of Alternatively Activated Macrophages. Division of Genetics seminar speaker. UTHealth School of Public Health, Houston TX

The Role of Macrophages in Idiopathic Pulmonary Fibrosis. Invited Symposium Speaker, Pulmonary Fibrosis Foundation Annual Meeting. Washington DC.

- 2016 Adenosine Signaling and Lung Fibrosis. Pediatric Research Center Seminar Series, UTHealth Medical School, Houston TX