HARRY KARMOUTY-QUINTANA, PhD

Assistant Professor – Tenure-Track

Department of Biochemistry and Molecular Biology

The University of Texas Health Science Center Houston (UTHealth) – McGovern Medical School 6431 Fannin Street, Suite 6.214

Houston, TX 77030 Phone: 713 500 5331 Cell: 832 655 7678 Fax: 713 500 0652

Email: Harry.Karmouty@uth.tmc.edu

Citizenship: Spain / US Permanent Resident

EDUCATION

2015 - Present

2003 BSc Pharmacology with Extramural Year, King's College London, UK

2006 PhD in Pharmacology and Biophysics, King's College London, UK, Thesis

work pursued at Novartis Pharma AG, Basel, Switzerland

POST GRADUATE TRAINING

2007 – 2010 Postdoctoral Fellow at McGill University, Canada

2010 – 2012 Postdoctoral Fellow at the University of Texas Medical School at Houston

ACADEMIC AND ADMINISTRATIVE APPOINTMENTS

2012 – 2015	Assistant Professor – Non Tenure Rank (NTR) at the University of Texas Health Science Center at Houston (UTHealth)
2014 – 2015	Associate Member of the Graduate School of Biomedical Sciences of University of Texas Health Science Center at Houston (UTHealth) and MD Anderson Cancer Center
2015 – Present	Full Member of the Graduate School of Biomedical Sciences of University of Texas Health Science Center at Houston (UTHealth) and MD Anderson Cancer Center

Director, UTHealth Pulmonary Center of Excellence Tissue Bank

2015 - Present Assistant Professor - Tenure-Track at the University of Texas Health

Science Center at Houston (UTHealth)

PROFESSIONAL ORGANIZATIONS AND COMMITTEE SERVICE

LOCAL:	
2007 – 2008	McGill University Postdoctoral Affairs Committee (Chair)
2007 – 2009	Postdoctoral Senator, McGill University Senate
2008 – 2009	Founder of the Postdoctoral Association of McGill University
2009	McGill University, Department of Medicine, Director of the Meakins-Christie
	Laboratories Search Committee

British Pharmacological Society
European Academy for Allergology and Clinical Immunology
American Thoracic Society
American Association for the Advancement of Science (AAAS)
European Respiratory Society
Member of the Pulmonary Circulation Planning Committee of the American
Thoracic Society

HONORS AND AWARDS

2004	Best poster award at the summer meeting of the British Association for Lung Research (BALR)
2005	Best oral presentation at the Novartis 3R (Reduction, Replacement, Refinement of Experimental Models of Disease) symposium
2008	Best poster presentation prize for the Junior Member Associate session at the 27th Congress of the European Academy of Allergology and Clinical Immunology (EAACI).
2008	Best poster presentation on Mechanism of Asthma at the 27th Congress of the European Academy of Allergology and Clinical Immunology (EAACI).
2009	Recipient of the Scarlet Key Award, recognizing outstanding leadership in the McGill community.
2011	Best postdoctoral oral presentation at the Biochemistry and Molecular Biology annual retreat
2011	Young Scientist Sponsorship Travel Award from the European Respiratory Society
2012	Third place at the at Gulf Coast Consortia – Lung Research Day poster competition
2012	Travel Award from the Keystones Symposia
2015	1 st place "COPD and Epigenetics" leadership competition organized by BioMedX and Boehringer Ingelheim

2016 Invited to attend the American Heart Association 2016 Research Leaders

Academy

EDITORIAL APPOINTMENTS

Editorial Board Appointments:

2017-present Member of the Editorial Board for Pulmonary Pharmacology and

Therapeutics

2017-present Member of the Editorial Board for the American Journal of Respiratory Cell

and Molecular Biology

2017 Lead Editor for "Molecular Mechanisms in Pulmonary Hypertension and

Right Ventricle Dysfunction" a Research Topic for Frontiers in Physiology

Ad-hoc Journal Reviewer:

American Journal of Physiology - Lung Cellular and Molecular Physiology

American Journal of Respiratory Cell and Molecular Biology

BioFactors

Canadian Journal of Physiology and Pharmacology

Cellular and Molecular Life Sciences European Journal of Pharmacology

Frontiers in Immunology Frontiers in Physiology

PLoS One

Respiratory Research
The FASEB Journal

The Journal of Immunology

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

Service on Grant Review Panels including Study Sections

2016 Asthma UK

2016 Netherlands Organisation for Scientific Research (NWO)

2017 Initiative d'excellence Aix-Marseille, France

2017 Early Career Review (ECR) program of the Centre for Scientific Review of

the NIH

2017- 2020 Regular Member: American Heart Association Vascular Bio & Blood

Pressure Committee

2017 - Current Ad-hoc member Respiratory Integrative Biology and Translational

Research Study Section [RIBT]

University Committees other than UT Health

2007 – 2008	McGill University Postdoctoral Affairs Committee (Chair)
2007 – 2009	Postdoctoral Senator, McGill University Senate

2008 – 2009 Founder of the Postdoctoral Association of McGill University

2009 McGill University, Department of Medicine, Director of the Meakins-Christie

Laboratories Search Committee

SERVICE TO UT HEALTH AND MCGOVERN MEDICAL SCHOOL COMMITTEES:

2015 – Present	Member of the Executive Committee of the Center of Excellence for
	Pulmonary Disease at the University of Texas – Medical School at Houston
2016 - Present	Co-Director of the BMB Annual Retreat
2016 - Present	Biochemistry and Molecular Biology Student Travel Award Committee
2017 - Present	Animal Welfare Committee

SERVICE TO GRADUATE SCHOOL COMMITTEES:

2014 – 2016	GSBS Advisory Committee for Alexandria Plumer
2015 - Present	GSBS Advisory Committee for Danielle Little
2016 –2016	GSBS Examination Committee for Danielle Little
2016 - Present	GSBS Advisory Committee for Junsuk (Josh) Ko
2017 - Present	Biochemistry and Cell Biology Graduate Program Steering Committee

SERVICE TO THE COMMUNITY:

2010 – 2011	Group Jour	nal Club Coor	dinator					
2014 - Present	Interview	candidates	for	the	MD/PhD	program	for	the
	UTHealth/M	1DAnderson G	SBS					
2017 - Present	Interview ca	andidates for t	he Ph[) progr	am for the U	JTHealth/MD	OAnde	rson
	GSBS							

Sponsorship of Candidates For Postgraduate Degree

2015 – Present	Scott Collum (PhD Student)
2017 – 2017	Tamara Darwiche (Visiting MSc Student) 6 month in vivo research
	supervisor
2017 – 2017	Lauren Headley (Visiting MSc Student) 6 month in vivo research supervisor
2017 - Present	Cory Wilson (MD/PhD Student)
2017 - Present	Mary Fuentes (PhD Student – Rotation)

Sponsorship of Candidates For Postdoctoral Fellows

2016 – Present Tinne CJ Mertens (Postdoctoral Fellow)

CURRENT TEACHING RESPONSIBILITIES:

"Emerging Fields in Biochemistry and Molecular Biology: Translational Science and Molecular Medicine (Yang Xia, MD/PhD Director)"

Lecture 8: Translational potential in pulmonary diseases, from mice to humans and back again (Karmouty-Quintana)

Lecture 9: Pulmonary fibrosis & potential therapies; why the wait? (Karmouty-Quintana)

GSBS Elective: "Integrative and Molecular Physiology (Rebecca Berdeaux PhD Director"

Block 4. Respiratory system

Lecture 13: Pulmonary ventilation, circulation and edema (Karmouty-Quintana)

Lecture 14: Regulation of gas exchange and respiration; transport in blood and tissue fluids (Karmouty-Quintana)

Lecture 15: Respiratory insufficiency: pathophysiology, fibrosis (Karmouty-Quintana)

MENTORING ACTIVITIES:

McGill University, Canada

2009	Maria Marti Solano	(summer student.	currently	a PhD student at Pompeu

Fabra University, Spain)

2008 Laura Xicota (summer student, currently a PhD student at Pompeu Fabra

University, Spain)

2007 Fiona Martin (summer student, currently a Masters student at Dublin City

University)

UTHealth – McGovern Medical School

2011	Jerry Zhang (summer student)
2012	Isabelle Bunge (summer student)
2012 – 2013	Bao Le (summer student)
2012 – 2015	Mesias Pedroza (PhD Student – Primary mentor: Dr. Michael Blackburn)
2014	Simon deLeve (Visiting PhD Student University of Essen, Germany)
2012 – 2015	Kemly Philip (MD/PhD Student – Primary mentor: Dr. Michael Blackburn)
2015 - Present	Scientific Overview Committee for Jennifer Agrusa, MD
2016 – 2016	Ankit Hanmandlu UT Summer Research Program
2016 – 2016	Heather Sweeney (summer student)
2017 – 2017	Melissa Chavez UT Summer Research Program
2017 – 2017	Brent Gudenkauf Visiting MD Student Trainee
2017 – 2017	Chiara Bellochi MD Visiting Scientist
2017 – 2017	Cory Wilson MD/PhD Student
2017 – 2017	Mary Fuentes Rotating PhD Student

GRANT SUPPORT

ACTIVE:

CURRICULUM VITAE H. KARMOUTY-QUINTANA, PhD

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National Institutes of Health (NIH)

8 Percentile

3'UTR shortening in Pulmonary Vascular Disease Direct Funds: \$1,250,000

14SDG18550039

(PI: Karmouty-Quintana)

1 Jan 14 – 31 Dec 17

4 years

American Heart Association

The role of hyaluronan in pulmonary hypertension secondary to lung fibrosis

Total Award: \$370,000

Discovery Award

(PI: Karmouty-Quintana)

1 Jan 16 – 31 Dec 19

3 years

UTHealth Pulmonary Center of Excellence

Cflm25 links alternative polyadenylation with pulmonary hypertension and right ventricle

hypertrophy

Total Award: \$300,000

G-45857 (PI: Karmouty-Quintana)

1 July 16 – 30 June 18

2 years

Genentech

CGN IPF 2016 - BMPR2 in Acute and Chronic Lung Injury.

Total Award: \$100,000

RG-414673 (PI: Karmouty-Quintana)

1 Aug 16 – 31 July 18

2 years

American Lung Association Biomedical Research Grant Alternative Polyadenylation in the pathogenesis of COPD

Total Award: \$50,000

COMPLETED:

2013 (Karmouty-Quintana)

1 July 13 – 30 June 14

1 year

Entelligence MD Actelion Award

The role of hyaluronan in pulmonary hypertension associated with idiopathic pulmonary fibrosis (IPF)

Total Award: \$100,000

11POST7580121 (Karmouty-Quintana) 1 July 11 – 30 August 12

American Heart Association

Adenosinergic Mechanisms in Pulmonary Hypertension

The project focused on understanding the contribution of adenosine in the development of pulmonary hypertension secondary to chronic lung diseases.

Dossier no. 21657 (Karmouty-Quintana)

1 July 10 - 30 June 11

Fonds de la Recherche en Santé Québec

Role of Sphingolipids and Adenosinergic mechanisms in the regulation of pulmonary hypertension

The objective of this study was to investigate the contribution of sphingolips and adenosine in the pathogenesis of pulmonary hypertension.

Dossier no. 15460 (Karmouty-Quintana)

1 June 08 – 31 May 10

2 years

Fonds de la Recherche en Santé Québec

Investigating the role of sphingolipid mechanisms in asthmatic airway remodeling

The goal of this study was to investigate the contribution of sphingolips in the context of asthmatic airway remodeling.

2007-KAR01 (Karmouty-Quintana)

1 September 07 – 30 August 08

1 years

McGill University Health Centre (MUHC)

The role of FTY720 in airway remodeling

This project aimed to investigate the role of FTY720, a sphingosine-1-phosphate analogue in asthmatic airway remodeling.

PEER REVIEWED PUBLICATIONS (1-42)

Corresponding Author Publications marked with ***

As an Undergraduate Student:

- 1. Tigani B, Gremlich HU, Cannet C, Zurbruegg S, **Quintana HK**, Beckmann N. Near-infrared fluorescence imaging and histology confirm anomalous edematous signal distribution detected in the rat lung by MRI after allergen challenge. Journal of magnetic resonance imaging: JMRI. 2004; 20(6):967-74. PubMed [journal] PMID: 15558573
- 2. **Karmouty Quintana H**, Mazzoni L, Fozard JR. Effects of endotoxin and allergenalone and in combination on the sensitivity of the rat airways to adenosine. Autonomic & autacoid pharmacology. 2005; 25(4):167-70. PubMed [journal] PMID:16176448

As a PhD Student:

- 3. **Quintana HK**, Cannet C, Schaeublin E, Zurbruegg S, Sugar R, Mazzoni L, Page CP, Fozard JR, Beckmann N. Identification with MRI of the pleura as a major site of the acute inflammatory effects induced by ovalbumin and endotoxin challenge in the airways of the rat. American journal of physiology. Lung cellular and molecular physiology. 2006; 291(4):L651-7. PubMed [journal] PMID: 16728527
- 4. **Quintana HK**, Cannet C, Zurbruegg S, BIé FX, Fozard JR, Page CP, Beckmann N. Proton MRI as a noninvasive tool to assess elastase-induced lung damage in spontaneously breathing rats. Magnetic resonance in medicine. 2006; 56(6):1242-50. PubMed [journal] PMID: 17029230
- 5. Tigani B, Cannet C, **Karmouty-Quintana H**, Ble FX, Zurbruegg S, Schaeublin E, Fozard JR, Beckmann N. Lung inflammation and vascular remodeling after repeated allergen challenge detected noninvasively by MRI. American journal of physiology. Lung cellular and molecular physiology. 2007; 292(3):L644-53. PubMed [journal] PMID: 17085517
- 6. **Karmouty-Quintana H**, Cannet C, Sugar R, Fozard JR, Page CP, Beckmann N. Capsaicin-induced mucus secretion in rat airways assessed in vivo and non-invasively by magnetic

resonance imaging. British journal of pharmacology. 2007; 150(8):1022-30. PubMed [journal] PMID: 17351665, PMCID: PMC2013907

- 7. Beckmann N, Kneuer R, Gremlich HU, **Karmouty-Quintana H**, Ble FX, Muller M. In vivo mouse imaging and spectroscopy in drug discovery. NMR in biomedicine. 2007; 20(3):154-85. PubMed [journal] PMID: 17451175
- 8. **Karmouty-Quintana H**, Cannet C, Zurbruegg S, BIé FX, Fozard JR, Page CP, Beckmann N. Bleomycin-induced lung injury assessed noninvasively and in spontaneously breathing rats by proton MRI. Journal of magnetic resonance imaging: JMRI. 2007; 26(4):941-9. PubMed [journal] PMID: 17896392
- 9. Beckmann N, Cannet C, **Karmouty-Quintana H**, Tigani B, Zurbruegg S, Ble FX, Cremillieux Y, Trifilieff A. Lung MRI for experimental drug research. European journal of radiology. 2007; 64(3):381-96. PubMed [journal] PMID: 17931813
- 10. **Karmouty-Quintana H**, Ble FX, Cannet C, Zurbruegg S, Fozard JR, Page CP, Beckmann N. In vivo pharmacological evaluation of compound 48/80-induced airways oedema by MRI. British journal of pharmacology. 2008; 154(5):1063-72. PubMed [journal] PMID: 18469845, PMCID: PMC2451044
- 11. Ble FX, Cannet C, Zurbruegg S, **Karmouty-Quintana H,** Bergmann R, Frossard N, Trifilieff A, Beckmann N. Allergen-induced lung inflammation in actively sensitized mice assessed with MR imaging. Radiology. 2008; 248(3):834-43. PubMed [journal] PMID: 18647843
- 12. Ble FX, Schmidt P, Cannet C, Kneuer R, **Karmouty-Quintana H**, Bergmann R, Coote K, Danahay H, Zurbruegg S, Gremlich HU, Beckmann N. In vivo assessments of mucus dynamics in the rat lung using a Gd-Cy5.5-bilabeled contrast agent for magnetic resonance and optical imaging. Magnetic resonance in medicine. 2009; 62(5):1164-74. PubMed [journal] PMID: 19780168

As a postdoctoral Fellow:

- 13. Tuck SA, Ramos-Barbon D, Campbell H, McGovern T, **Karmouty-Quintana H,** Martin JG. Time course of airway remodelling after an acute chlorine gas exposure in mice. Respiratory research. 2008; 9:61. PubMed [journal] PMID: 18702818, PMCID:PMC2531104
- 14. **Karmouty-Quintana H,** Tamimi F, McGovern TK, Grover LM, Martin JG, Barralet JE. Sustained steroid release in pulmonary inflammation model. Biomaterials. 2010;31(23):6050-9. PubMed [journal] PMID: 20472285
- 15. McGovern TK, Powell WS, Day BJ, White CW, Govindaraju K, **Karmouty-Quintana H**, Lavoie N, Tan JJ, Martin JG. Dimethylthiourea protects against chlorine induced changes in airway function in a murine model of irritant induced asthma. Respiratory research. 2010; 11:138. PubMed [journal] PMID: 20925946, PMCID: PMC2965137
- 16. Pedroza M, Schneider DJ, **Karmouty-Quintana H**, Coote J, Shaw S, Corrigan R, Molina JG, Alcorn JL, Galas D, Gelinas R, Blackburn MR. Interleukin-6 contributes to inflammation and remodeling in a model of adenosine mediated lung injury. PloS one. 2011; 6(7):e22667. PubMed [journal] PMID: 21799929, PMCID: PMC3143181

- 17. Zhou Y, Schneider DJ, Morschl E, Song L, Pedroza M, **Karmouty-Quintana H**, Le T, Sun CX, Blackburn MR. Distinct roles for the A2B adenosine receptor in acute and chronic stages of bleomycin-induced lung injury. Journal of immunology (Baltimore, Md.: 1950). 2011; 186(2):1097-106. NIHMSID: NIHMS453384 PubMed [journal] PMID: 21149612, PMCID: PMC3607290
- ***18. **Karmouty-Quintana H**, Siddiqui S, Hassan M, Tsuchiya K, Risse PA, Xicota-Vila L, Marti-Solano M, Martin JG. Treatment with a sphingosine-1-phosphate analog inhibits airway remodeling following repeated allergen exposure. American journal of physiology. Lung cellular and molecular physiology. 2012; 302(8):L736-45. PubMed [journal] PMID: 22287614
- 19. **Karmouty-Quintana H**, Zhong H, Acero L, Weng T, Melicoff E, West JD, Hemnes A, Grenz A, Eltzschig HK, Blackwell TS, Xia Y, Johnston RA, Zeng D, Belardinelli L, Blackburn MR. The A2B adenosine receptor modulates pulmonary hypertension associated with interstitial lung disease. FASEB journal: official publication of the Federation of American Societies for Experimental Biology. 2012; 26(6):2546-57. PubMed [journal] PMID: 22415303, PMCID: PMC3650483
- 20. MacSharry J, O'Mahony C, Shalaby KH, Sheil B, **Karmouty-Quintana H**, Shanahan F, Martin JG. Immunomodulatory effects of feeding with Bifidobacterium longum on allergen-induced lung inflammation in the mouse. Pulmonary pharmacology & therapeutics. 2012; 25(4):325-34. PubMed [journal] PMID: 22705947
- 21. **Karmouty-Quintana H**, Xia Y, Blackburn MR. Adenosine signaling during acute and chronic disease states. Journal of molecular medicine (Berlin, Germany). 2013; 91(2):173-81. NIHMSID: NIHMS438583 PubMed [journal] PMID: 23340998, PMCID:PMC3606047
- 22. Weng T, **Karmouty-Quintana H**, Garcia-Morales LJ, Molina JG, Pedroza M, Bunge RR, Bruckner BA, Loebe M, Seethamraju H, Blackburn MR. Hypoxia-induced deoxycytidine kinase expression contributes to apoptosis in chronic lung disease. FASEB journal: official publication of the Federation of American Societies for Experimental Biology. 2013; 27(5):2013-26. PubMed [journal] PMID: 23392349, PMCID: PMC4046114
- 23. **Karmouty-Quintana H**, Weng T, Garcia-Morales LJ, Chen NY, Pedroza M, Zhong H, Molina JG, Bunge R, Bruckner BA, Xia Y, Johnston RA, Loebe M, Zeng D, Seethamraju H, Belardinelli L, Blackburn MR. Adenosine A2B receptor and hyaluronan modulate pulmonary hypertension associated with chronic obstructive pulmonary disease. American journal of respiratory cell and molecular biology. 2013; 49(6):1038-47. PubMed [journal] PMID: 23855769
- 24. Roy MG, Livraghi-Butrico A, Fletcher AA, McElwee MM, Evans SE, Boerner RM, Alexander SN, Bellinghausen LK, Song AS, Petrova YM, Tuvim MJ, Adachi R, Romo I, Bordt AS, Bowden MG, Sisson JH, Woodruff PG, Thornton DJ, Rousseau K, De la Garza MM, Moghaddam SJ, **Karmouty-Quintana H**, Blackburn MR, Drouin SM, Davis CW, Terrell KA, Grubb BR, O'Neal WK, Flores SC, Cota-Gomez A, Lozupone CA, Donnelly JM, Watson AM, Hennessy CE, Keith RC, Yang IV, Barthel L, Henson PM, Janssen WJ, Schwartz DA, Boucher RC, Dickey BF, Evans CM. Muc5b is required for airway defence. Nature. 2014; 505(7483):412-6. NIHMSID: NIHMS571052 PubMed [journal] PMID: 24317696, PMCID: PMC4001806
- 25. Davies J, **Karmouty-Quintana H**, Le TT, Chen NY, Weng T, Luo F, Molina J, Moorthy B, Blackburn MR. Adenosine promotes vascular barrier function in hyperoxic lung injury. Physiological reports. 2014; 2(9). PubMed [journal] PMID: 25263205, PMCID: PMC4270235

26. Dahm PH, Richards JB, **Karmouty-Quintana H**, Cromar KR, Sur S, Price RE, Malik F, Spencer CY, Barreno RX, Hashmi SS, Blackburn MR, Haque IU, Johnston RA. Effect of antigen sensitization and challenge on oscillatory mechanics of the lung and pulmonary inflammation in obese carboxypeptidase E-deficient mice. American journal of physiology. Regulatory, integrative and comparative physiology. 2014; 307(6):R621-33. PubMed [journal] PMID: 25009214, PMCID: PMC4166760

As a NTR Assistant Professor:

- 27. Le TT, **Karmouty-Quintana H,** Melicoff E, Le TT, Weng T, Chen NY, Pedroza M, Zhou Y, Davies J, Philip K, Molina J, Luo F, George AT, Garcia-Morales LJ, Bunge RR, Bruckner BA, Loebe M, Seethamraju H, Agarwal SK, Blackburn MR. Blockade of IL-6 Trans signaling attenuates pulmonary fibrosis. Journal of immunology (Baltimore, Md.: 1950). 2014; 193(7):3755-68. NIHMSID: NIHMS619142 PubMed [journal] PMID: 25172494, PMCID: PMC4169999
- 28. Weng T, Poth JM, **Karmouty-Quintana H**, Garcia-Morales LJ, Melicoff E, Luo F, Chen NY, Evans CM, Bunge RR, Bruckner BA, Loebe M, Volcik KA, Eltzschig HK, Blackburn MR. Hypoxia-induced deoxycytidine kinase contributes to epithelial proliferation in pulmonary fibrosis. American journal of respiratory and critical care medicine. 2014; 190(12):1402-12. PubMed [journal] PMID: 25358054, PMCID: PMC4299646
- 29. **Karmouty-Quintana H**, Philip K, Acero LF, Chen NY, Weng T, Molina JG, Luo F, Davies J, Le NB, Bunge I, Volcik KA, Le TT, Johnston RA, Xia Y, Eltzschig HK, Blackburn MR. Deletion of ADORA2B from myeloid cells dampens lung fibrosis and pulmonary hypertension. FASEB journal: official publication of the Federation of American Societies for Experimental Biology. 2015; 29(1):50-60. PubMed [journal] PMID: 25318478, PMCID: PMC4763976
- 30. Hoegl S, Brodsky KS, Blackburn MR, **Karmouty-Quintana H**, Zwissler B, Eltzschig HK. Alveolar Epithelial A2B Adenosine Receptors in Pulmonary Protection during Acute Lung Injury. Journal of immunology (Baltimore, Md. : 1950). 2015; 195(4):1815-24. NIHMSID: NIHMS702270 PubMed [journal] PMID: 26188061, PMCID: PMC4530072
- 31. Pedroza M, Le TT, Lewis K, **Karmouty-Quintana H**, To S, George AT, Blackburn MR, Tweardy DJ, Agarwal SK. STAT-3 contributes to pulmonary fibrosis through epithelial injury and fibroblast-myofibroblast differentiation. FASEB journal: official publication of the Federation of American Societies for Experimental Biology. 2016; 30(1):129-40. PubMed [journal] PMID: 26324850, PMCID: PMC4684532
- 32. Luo F, Le NB, Mills T, Chen NY, **Karmouty-Quintana H**, Molina JG, Davies J, Philip K, Volcik KA, Liu H, Xia Y, Eltzschig HK, Blackburn MR. Extracellular adenosine levels are associated with the progression and exacerbation of pulmonary fibrosis. FASEB journal: official publication of the Federation of American Societies for Experimental Biology. 2016; 30(2):874-83. PubMed [journal] PMID: 26527068, PMCID: PMC4714555

As an Assistant Professor (Tenure Track):

***33. Garcia-Morales LJ, Chen NY, Weng T, Luo F, Davies J, Philip K, Volcik KA, Melicoff E, Amione-Guerra J, Bunge RR, Bruckner BA, Loebe M, Eltzschig HK, Pandit LM, Blackburn MR, **Karmouty-Quintana H**. Altered Hypoxic-Adenosine Axis and Metabolism in Group III Pulmonary Hypertension. American journal of respiratory cell and molecular biology. 2016; 54(4):574-83. PubMed [journal] PMID: 26414702, PMCID: PMC4821053

- 34. Wirsdorfer F, de Leve S, Cappuccini F, Eldh T, Meyer AV, Gau E, Thompson LF, Chen NY, **Karmouty-Quintana H**, Fischer U, Kasper M, Klein D, Ritchey JW, Blackburn MR, Westendorf AM, Stuschke M, Jendrossek V. Extracellular Adenosine Production by ecto-5'-Nucleotidase (CD73) Enhances Radiation-Induced Lung Fibrosis. Cancer research. 2016; 76(10):3045-56. NIHMSID: NIHMS778378 PubMed [journal] PMID: 26921334, PMCID: PMC4960984
- 35. Hu X, Adebiyi MG, Luo J, Sun K, Le TT, Zhang Y, Wu H, Zhao S, **Karmouty-Quintana H**, Liu H, Huang A, Wen YE, Zaika OL, Mamenko M, Pochynyuk OM, Kellems RE, Eltzschig HK, Blackburn MR, Walters ET, Huang D, Hu H, Xia Y. Sustained Elevated Adenosine via ADORA2B Promotes Chronic Pain through Neuro-immune Interaction. Cell reports. 2016; 16(1):106-19. PubMed [journal] PMID: 27320922
- ***36. Chen NY, D Collum S, Luo F, Weng T, Le TT, M Hernandez A, Philip K, Molina JG, Garcia-Morales LJ, Cao Y, Ko TC, Amione-Guerra J, Al-Jabbari O, Bunge RR, Youker K, Bruckner BA, Hamid R, Davies J, Sinha N, **Karmouty-Quintana H**. Macrophage bone morphogenic protein receptor 2 depletion in idiopathic pulmonary fibrosis and Group III pulmonary hypertension. American journal of physiology. Lung cellular and molecular physiology. 2016; 311(2):L238-54. PubMed [journal] PMID: 27317687
- 37. Liu H, Zhang Y, Wu H, D'Alessandro A, Yegutkin GG, Song A, Sun K, Li J, Cheng NY, Huang A, Edward Wen Y, Weng TT, Luo F, Nemkov T, Sun H, Kellems RE, **Karmouty-Quintana H**, Hansen KC, Zhao B, Subudhi AW, Jameson-Van Houten S, Julian CG, Lovering AT, Eltzschig HK, Blackburn MR, Roach RC, Xia Y. Beneficial Role of Erythrocyte Adenosine A2B Receptor-Mediated AMP-Activated Protein Kinase Activation in High-Altitude Hypoxia. Circulation. 2016; 134(5):405-21. PubMed [journal] PMID: 27482003
- ***38. Collum SD, Amione-Guerra J, Cruz-Solbes AS, DiFrancesco A, Hernandez AM, Hanmandlu A, Youker K, Guha A, **Karmouty-Quintana H**. Pulmonary Hypertension Associated with Idiopathic Pulmonary Fibrosis: Current and Future Perspectives. Canadian respiratory journal. 2017; 2017:1430350. PubMed [journal] PMID: 28286407, PMCID: PMC5327768
- 39. Song A, Zhang Y, Han L, Yegutkin GG, Liu H, Sun K, D'Alessandro A, Li J, **Karmouty-Quintana H**, Iriyama T, Weng T, Zhao S, Wang W, Wu H, Nemkov T, Subudhi AW, Jameson-Van Houten S, Julian CG, Lovering AT, Hansen KC, Zhang H, Bogdanov M, Dowhan W, Jin J, Kellems RE, Eltzschig HK, Blackburn M, Roach RC, Xia Y. Erythrocytes retain hypoxic adenosine response for faster acclimatization upon re-ascent. Nature communications. 2017; 8:14108. PubMed [journal] PMID: 28169986, PMCID: PMC5309698
- 40. Muller T, Fay S, Vieira RP, **Karmouty-Quintana H**, Cicko S, Ayata K, Zissel G, Goldmann T, Lungarella G, Ferrari D, Di Virgilio F, Robaye B, Boeynaems JM, Blackburn MR, Idzko M. The purinergic receptor subtype P2Y2 mediates chemotaxis of neutrophils and fibroblasts in fibrotic lung disease. Oncotarget. 2017; PubMed [journal] PMID: 28415591
- 41. Mertens TCJ, **Karmouty-Quintana H**, Taube C, Hiemstra PS. Use of airway epithelial cell culture to unravel the pathogenesis and study treatment in obstructive airway diseases. Pulmonary pharmacology & therapeutics. 2017; PubMed [journal] PMID: 28502841
- 42. Segura-Ibarra V, Amione-Guerra J, Cruz-Solbes AS, Cara FE, Iruegas-Nunez DA, Wu S, Youker KA, Bhimaraj A, Torre-Amione G, Ferrari M, **Karmouty-Quintana H**, Guha A, Blanco E. Rapamycin nanoparticles localize in diseased lung vasculature and prevent pulmonary arterial

hypertension. International journal of pharmaceutics. 2017; 524(1-2):257-267. PubMed [journal] PMID: 28359821

***43. Collum SD, Chen N-Y, Hernandez AM, Hanmandlu A, Sweeney H, Mertens TCJ, Weng T, Luo F, Molina JG, Davies J, Horan IP, Morrell NW, Amione-Guerra J, Al-Jabbari O, Youker KA, Sun W, Rajadas J, Bollycky PL, Bindu AH, Jyothula SS, Sinha N, Guha A, **Karmouty-Quintana H**, Inhibition of Hyaluronan Synthesis Attenuates Pulmonary Hypertension Associated with Lung Fibrosis 2017; Br J Pharmacol. 2017 Oct;174(19):3284-3301. doi: 10.1111/bph.13947. Epub 2017 Aug 17. PubMed PMID:28688167.

Book Chapters

1. Beckmann N, Crémillieux Y, Tigani B, **Karmouty Quintana H**, Blé F-X, and Fozard JR. Lung MRI in Small Rodents as a Tool for the Evaluation of Drugs in Models of Airways Diseases In: "In Vivo MR Techniques in Drug Discovery and Development" (Editor: N. Beckmann). Francis & Taylor, Boca Raton, New York, USA, 2006; pp 351-372

INVITED SEMINARS

2007	Meakins-Christie Laboratories, McGill University, Canada
2007	Respiratory Health Network of Quebec, Montreal, Canada.
2008	Division of Pharmaceutical Sciences, King's College London, UK
2009	Department of Pulmonary Medicine, MD Anderson Cancer Center, USA
2009	Department of Biochemistry and Molecular Biology, University of Texas – Medical School, USA
2009	Respiratory Health Network of Quebec, Montreal, Canada.
2011	IMIM-Hospital del Mar, Barcelona, Spain
2011	Respiratory Center for Respiratory Research, University College London, UK
2011	Sackler Institute for Pulmonary Pharmacology, King's College London, UK
2011	INSERM 999 Pulmonary Hypertension Unit, Centre Chirurgical Marie Lannelongue, Paris, France
2013	Department of Biochemistry and Molecular Biology. UT Health Medical School, Houston, Texas, US
2013	Department of Rheumatology. UT Health Medical School, Houston, Texas, US
2013	UT Physicians, Houston, Texas, US
2014	GSBS Topic Series, UT Health Medical School, Houston, Texas, US

CURRICULUM VITAE	
H. KARMOUTY-QUINTANA, P	'nD

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2014	Department of Pulmonology, UT Health Medical School, Houston, Texas, US
2014	Department of Pediatric Transplantation, Texas Children's Hospital, Houston, Texas, US.
2015	"COPD and Epigenetics" Heidelberg, Germany
2017	"Adenosinergic mechanisms in the skin and the lung" at Scleroderma Unit, Referral Center for Systemic Autoimmune Diseases, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico di Milano, Milano, Italy. September 13 th , 2017

INVITED SEMINARS (SCHEDULED)

2017	"GAGs in Group I and Group III Pulmonary Hypertension" James T. Willerson Seminar at the Texas Heart Institute, Houston, Texas. September 28th, 2017
2017	"Disease Mechanisms in Group III Pulmonary Hypertension" Pulmonary Grand Rounds at University of Birmingham at Alabama, Birmingham Alabama. December 7th, 2017
2017	"TBA" Division of Pulmonary, Allergy, Critical Care and Sleep Medicine Seminar Series at The Department of Medicine, Emory University, Atlanta, Georgia. December 13th, 2017
2018	"TBA" Meakins-Christie Laboratories, McGill University, Montreal, Canada. February 5th, 2018