Claudia Jakubzick, PhD

Curriculum Vitae

I. ACADEMIC HISTORY

University of Florida	B.S.	1995-1998	Microbiology
University of Michigan	Ph.D.	1999-2003	Immunology (Drs. S. Kunkel and C. Hogaboam)
Mount Sinai School Med	Postdoc	2004-2008	Gene and Cell Med (Dr.Gwendalyn Randolph)
Mount Sinai School Med	Instructor	2008-2009	Gene and Cell Med (Dr.Gwendalyn Randolph)
National Jewish Health	Assist Prof	2010-	Pediatrics (Primary Appointment)
University of Colorado	Assist Prof	2010-	Microbiology and Immunology

II. PROFESSIONAL POSITIONS (INCLUDE INTERNSHIPS, RESIDENCIES, FELLOWSHIPS)

1997	Biochemistry and Molecular Biology Research Internship, PSU, State College, PA.
1998	Biomedical Graduate Studies Internship, University of Pennsylvania, PA
1998-1999	Research Assistant, University of Pennsylvania, PA
1999-2003	Graduate Student, University of Michigan, MI
2002	Teaching Assistant, Microbiology and Immunology, University of Michigan, MI
2004-2008	Postdoctoral Researcher, Mount Sinai School of Medicine, NY
2009	Instructor, Mount Sinai School of Medicine, NY
2010-2013	Assistant Professor Track II, NJ Health and Univ. of Colorado
2014-	Assistant Professor Track I, NJ Health and Univ. of Colorado

III. ACADEMIC HONORS

1997	NSF Undergraduate Research Training Grant, PSU, State College, PA
1998	NIH Undergraduate Research Grant, University of Pennsylvania, Philadelphia, PA
2001-2002	NIAID Training Grant "Research Training Experimental Immunology" Ann Arbor, MI
2004-2007	NRSA, Ruth L. Kirschstein, Mount Sinai School of Medicine, New York, NY
2007-2009	NIAID, Primary Caregiver Technical Assistance Supplement, New York, NY
2009	ATS Minority Trainee Travel Award recipient
2010-2012	NHLBI, Investigator Research Supplement, Denver, CO
2012	Zucker Award Recipient, National Jewish Health, Denver, CO
2012	Bioscience Discovery Evaluation Grant Program, Denver, CO
2012-2013	NHLBI, Investigator Research Supplement, Denver, CO
2012	Colorado Clinical Translational Sciences Institute, Pilot Award, Denver, CO
2013-	NHLBI R01 PI Jan 2013-Dec 2017
2013-	NHLBI R01 Co-investigator 10% effort, Peter Henson PI
2015	NJH Research Award Outstanding Junior Faculty
2016	University of Michigan Plaque Distinguished Alumnus
2017-	NHLBI R01 PI Apr 2017-Mar 2021

IV. PROFESSIONAL SOCIETIES AND HONORARY SOCIETIES

1998	American Society for Microbiology Member
1999-	American Thoracic Society (ATS) Member

2000- American Association of Immunologists (AAI) Member
2002 FASEB, Exp. Biology Conference, Podium and Poster Presentation, LA
2003 Keystone Symposium, Chemokines and Receptors, Conference Assistant, CO
2003 FASEB, Experimental Biology Conference, Poster Presentation, CA
2003 Conference Assistant, Travel Funds, Keystone Symposium Chemokines, CO
2003 American Thoracic Society Intern. Conference, Podium Presentation, WA
2004 American Thoracic Society Intern. Conference, Podium Presentation, FL
2005 AA of Immunologists, Advanced Course in Immunology, Stanford, CA
2006 Dendritic Cell Conference, Poster Presentation, Edinburgh, Scotland
2009 Conference Assistant, Travel Funds, Keystone Symposium DC, Banff, Canada
2009 Dendritic Cell Keystone Conference, Poster Presentation, Banff, Canada
2009 American Thoracic Society Intern. Conference, Poster Presentation, CA
2010 NIH Inflammation Conference, Speaker, Hamilton, MT
2011 Gordon Research Conf. Apoptotic Cell Recognition & Clearance, Invited Speaker
2011 Twenty-first Lung Conference, Cape Town, South Africa-Invited Speaker
2011 Keystone Symposium, Dendritic Cell, Poster Presentation, Santa Fe, NM
2012 Colorado Immunology Conference, Speaker, Vail, CO
2013 Keystone Symposium, Dendritic Cell, Poster Presentation, Keystone, CO
2013 Keystone Symposium, Myeloid, Poster Presentation, Keystone, CO
2014 Dendritic Cell Conference, Poster Presentation, Tours, France
2014 Keystone Symposium, Vaccine Adjuvants, Speaker, Seattle, WA
2014 Univ of Colorado, Dept Immunology and Microbiology, Invited Speaker, CO
2015 Univ of Colorado, Clinical and Translational Medicine, Invited Speaker, CO
2015 Univ of Colorado, Cancer Center Symposium, Invited Speaker, CO
2015 American Thoracic Society Intern. Conference, Invited speaker, CO
2015 American Thoracic Society Intern. Conference, Postgraduate Lecturer, CO
2015 American Association of Immunologists, Conference, Invited Speaker, CO
2015 Lung Institute at Cedar, Invited Speaker, CA
2015 Lankenau Institute for Medical Research, Invited Speaker, PA
2015 Rhode Island Hospital's 13th Annual Inflammation Symposium, Invited Speaker, RI
2015 International SFB-Symposium, Ludwig-Max-Univ, Invited Speaker, Munich, Germany
2016 American Thoracic Society Intern. Conference, Postgraduate Lecturer, CO
2016 American Association of Immunologists, Conference, Chair Symposium, CA
2016- American Association of Immunologists, Minority Affairs Committee Member
2016 Karolinska Institute, Invited speaker and external examiner, Stockholm, Sweden
2016 University of Michigan, Alumni Lecture, Invited Speaker, MI
2016 McGill Monocyte/Macrophage Symposium, Invited Speaker, Montreal, Canada
2016 Duke University Medical Center, Invited Speaker, NC
2016 Oklahoma Medical Research Foundation, Invited Speaker, OK

To be completed 2017

2017 American Thoracic Society Intern. Conference, Postgraduate Co-chair and Lecturer, CO
2017 Gordon Research Conference on Lung Development, Injury & Repair, Invited Speaker
2017 Gordon Research Conference on Phagocytes, Invited Speaker

V. COMMITTEE PARTICIPATION AND OTHER SERVICE ACTIVITIES

National Jewish:

Flow cytometry committee member
IACUC member

BRD faculty search committee

University of Colorado Denver:

Participant yearly for the Immunology Graduate School Recruitment
Participant yearly for the Immunology Comprehensive Exams

Graduate thesis committee:

1. CHAIR for Michelle Nelsen (Ron Gill)
2. Kelsey Haist (Tem Morrison)
3. Lindsay Robin (Rachel Friendman)
4. Brett Mcgettigan (Hugo Rosen)
5. Elizabeth Cheney (Ross Kedl)
6. Erin Lucas (Beth Tamburini)
7. Augustus Kilgore (Ross Kedl)

Graduated- Graduate thesis committee:

8. Sam Li (Mario Santiago)
9. Laura Noges (Pippa Marrack)

Editorial Board

2017- Serve on the Editorial Board of this new journal:
Journal of Immunology and Regenerative Medicine
Steve Badylak, DVM, PhD, MD, Editor in Chief
Tom Wynn, PhD, Deputy Editor
Jason Rock, PhD, Associate Editor

VI. PATENTS HELD OR PENDING

Patent: Chimeric molecule to treat Th2-like cytokine mediated disorder

VII. REVIEW ACTIVITIES

In the last five years I have reviewed over a dozen papers per year for the following journals:
Immunity, Journal of Clinical Investigation (JCI), Journal of Immunology (JI), Blood, Proceedings of the National Academy of Sciences (PNAS), Nature Communications, Mucosal Immunology (MI), European Journal of Immunology (EJI), American Journal of Respiratory and Critical Care Medicine (AJRCCM), American Journal of Respiratory Cell and Molecular Biology (AJRCMB), Frontiers Immunology, Plos One, Scientific Reports, Oncotarget, International Journal of Cancer, Journal of Hepatology, and Seminars in Immunology

VIII. TEACHING ACTIVITIES

Yearly since 2010
Lecture in Immunology Course IMMU 7662
Lecture in Allergy/Immunology Rounds
Yearly since 2015
Immunology Small Group Facilitator for Medical Students, 2 sessions

Students and Fellows

2011-2014 Trained graduate student A.Nicole Desch; 2014 postdoc at Harvard with Dr. Xavier
2014-2016 Training postdoctoral fellow Rajni Goyal
2014-2016 Training postdoctoral fellow Miglena Prabagar
2014- Training postdoctoral fellow Shaikh Atif
2014- Training graduate student Sandy Larson
2012- Lab Technician Sophie Gibbings (currently 1st author on 3 out of 8 manuscripts)

IX. RESEARCH GRANTS AND CONTRACTS:

Pending Research Support

NIH/NHLBI R01 115334-06
Title: Understanding the unique role endogenous APC subtypes play during the rejection of mAg-mismatched cells
Award Dates: 01/2018-12/2020
Direct Cost / year: $380,000

Ongoing Research Support

NIH/NHLBI R01 RHL135001 Jakubzick PI
Title: Functional roles of human pulmonary DC's in the lung draining lymph nodes
Award Dates: 04/2017-03/2021
Direct Cost / year: $380,000

NIH/NHLBI R01 HL115334 Jakubzick PI
Title: Induction of cytotoxic T cells by pulmonary dendritic cells
Award Dates: 01/2013-12/2017
Direct Cost / year: $253,734

NIH/NHLBI R01 HL114381 Henson PI
Title: Macrophage endocytosis in resolving lung inflammation
Award Dates: 11/01/13 – 10/31/18
Annual Direct Costs: $412,552
Co-investigator Jakubzick- 10% effort and some material costs

Completed Research Support

Research supplement to Dr. Peter Henson (PI) parent grant - R01 HL081151
NIH/NHLBI
Title: Research Supplements to Promote Diversity in Health-Related Research
Parent Grant title: Regulation of Pulmonary Inflammation
Award Dates: 01/2010-05/2013; Awarded twice: 01/2010-12/2011 and 01/2012-05/2013
Direct Cost / year: $64,000

2012 BDEGP Jakubzick PI
Title: Apoptotic cell-like liposome nanoparticles for cell mediated immunity
Award Dates: 03/01/12 – 03/31/13
Total Direct Costs: $72,609
Calendar Months: 1.8

2012 Zucker Award Jakubzick PI
Title: The anti-tumor role of cross-presenting pulmonary dendritic cells
Award Dates: 2012
Total Direct Costs: $15,000

2012 CCTSI Jakubzick PI

Title: The anti-tumor role of cross-presenting pulmonary dendritic cells
Award Dates: 2012
Total Direct Costs: $30,000

Primary caregiver technical assistance supplement to Dr. Gwendalyn Randolph (PI)
parent grant - R01
NIH/NIAID
Title: Primary Caregiver Technical Assistance Supplements
Award Dates: 03/2007-02/2009
Direct Cost / year: $37,000
The supplement addressed the role of mediators involved in migration and differentiation of pulmonary dendritic cells.

Ruth L. Kirschstein National Research Service Award T32 Dr. Lloyd Mayer (PI)- AI07605-04
Award Dates: 07/2004-07/2007
Direct Cost / year: $35,000
Institutionally awarded training grant: To support my postdoctoral training in Dr. Gwendalyn Randolph's laboratory studying pulmonary dendritic cell migration and development.

NIAID Training Grant
Title: Research Training Experimental Immunology
Award Dates: 2001-2002
Institutionally awarded training grant: To support my graduate training in Dr. Steve Kunkel's laboratory studying pulmonary fibrosis.

X. BIBLIOGRAPHY

Peer-reviewed Publications (In chronological order)

1. Smith K, Jakubzick C, Whittam T, Ferry JG. Carbonic anhydrase is an ancient enzyme widespread in prokaryotes. **Proc Natl Acad Sci** U S A., 96: 1999.
2. Blease K., Jakubzick C., Westwick J., Lukacs N, Kunkel SL, Hogaboam CM. Therapeutic effect of IL-13 immunoneutralization during chronic experimental fungal asthma. **J. Immunol.,**166: 2001.
3. Blease K, Jakubzick C, Schuh J, Joshi BH, Puri RK, Hogaboam CM. IL-13 fusion cytotoxin ameliorates chronic fungal-induced allergic airway disease in mice. **J. Immunol.,**167: 2001.
4. Blease K, Schuh J, Jakubzick C, Lukacs NW, Kunkel SL., Joshi BH, Puri RK, Kaplan M, Hogaboam CM. Stat6-deficient mice develop airway hyperresponsiveness and peribronchial fibrosis during chronic fungal asthma. **Am. J. Pathol.,**160: 2002.
5. Jakubzick C, Kunkel SL, Lukacs NW, Joshi BH, Puri RK, Hogaboam CM. Interleukin-13 fusion cytotoxin arrests Schistosoma mansoni egg-induced pulmonary granuloma formation in mice. **Am. J. Pathol.,**161: 2002.
6. Jakubzick C, Choi ES., Kunkel SL., Joshi BH., Puri RK., Hogaboam CM. Impact of interleukin-13 responsiveness on the synthetic and proliferative properties of Th1- and Th2- type pulmonary granuloma fibroblasts. **Am. J. Pathol.,** 162: 2003.
7. Jakubzick C, Choi ES., Joshi BH., Keane MP., Kunkel SL., Puri RK., Hogaboam CM. Therapeutic attenuation of PF via targeting of IL-4 and IL-13 responsive cells. **J. Immunol.,** 171: 2003.
8. Jakubzick C, Choi ES., Kunkel SL., Evanoff H., Martinez FJ., Puri RK., Flaherty KR., Toews GB., Colby TV., Kazerooni EA., Gross BH., Travis WD., Hogaboam CM. Augmented pulmonary IL-4 and IL-13 receptor subunit expression in idiopathic interstitial pneumonia. **J Clin Pathol.** 2004 May;57.
9. Jakubzick C., Choi ES., Kunkel SL., Evanoff H., Martinez FJ., Puri RK., Flaherty KR., Toews GB., Colby TV., Kazerooni EA., Gross BH., Travis WD., Hogaboam CM. Human pulmonary fibroblasts

exhibit altered IL-4 and IL-13 receptor subunit expression in idiopathic interstitial pneumonia. **Am J Pathol.** 2004 Jun;164.

10. Choi ES., Jakubzick C., Carpenter KJ., Kunkel SL., Evanoff H., Martinez FJ., Flaherty KR., Toews GB., Colby TV., Kazerooni EA., Gross BH., Travis WD., Hogaboam CM. Enhanced CCL7 and CCL22 expression in usual interstitial pneumonia. **Am J Respir Crit Care Med.** 2004 Sep 1;170.
11. Kolodsick JE, Toews GB, Jakubzick C, Hogaboam C, Moore TA, McKenzie A, Wilke CA, Chrisman CJ, and Moore BB.Protection from FITC-Induced fibrosis in IL-13 deficient, but not IL-4 mice results from impaired collagen synthesis by fibroblasts. **J Immunol.** 2004 Apr 1;172.
12. Jakubzick C, Wen H, Matsukawa A, Keller M, Kunkel SL, Hogaboam CM. Role of CCR4 Ligands, CCL17 and CCL22, during Schistosoma mansoni Egg-Induced Pulmonary Granuloma Formation in Mice. **Am J Pathol.** 2004 Oct;165.
13. Jakubzick C, Kunkel SL, Puri RK, Hogaboam CM. Therapeutic Targeting of Il-4 and IL-13-Responsive Cells in Pulmonary Fibrosis. **Immunologic Research** 2004;30.
14. Choi ES, Pierce EM, Jakubzick C, Carpenter KJ, Kunkel SL, Evanoff H, Martinez FJ, Flaherty KR, Moore BB, Toews GB, Colby TV, Kazerooni EA, Gross BH, Travis WD, Hogaboam CM.Focal Interstitial CC Chemokine Receptor-7 (CCR7) Expression in Idiopathic Interstitial Pneumonia. **J Clin Pathol.** 2006 Jan;59.
15. Tacke F, Ginhoux F, Jakubzick C, van Rooijen N, Merad M, and Randolph GJ. Monocytes acquire antigens from other cells in the bone marrow and present them to T cells after maturing in the periphery. **J Exp Med.** 2006 Mar 20.
16. Jakubzick C, Tacke F, Llodra J, and Randolph GJ. Modulation of DC trafficking to and from the airways. **J Immunol.** 2006 Mar 15.
17. Pierce EM, Carpenter K, Jakubzick C, Kunkel SL, Flaherty KR, Martinez FJ, Hogaboam CM.Therapeutic targeting of CCL21 or CCR7 abrogates pulmonary fibrosis induced by the adoptive transfer of human pulmonary fibroblasts into immunodeficient mice. **Am. J. Pathol.** Apr;170.
18. Pierce EM, Carpenter K, Jakubzick C, Kunkel SL, Evanoff H, Flaherty KR, Martinez FJ, Toews GB, and Hogaboam CM. Idiopathic pulmonary fibrosis fibroblasts migrate and proliferate to CCL21. Eur Respir J. 2007 Mar 1.
19. Tacke F, Alvarez D, Kaplan TJ, Jakubzick C, Spanbroek R, Llodra J, Garin A, Liu J, Mack M, van Rooijen N, Lira SA, Habenicht AJ, and Randolph GJ. Monocyte subsets differentially employ CCR2, CCR5, and CX3CR1 to accumulate within atherosclerotic plaque. **J Clin Invest.** 2007 Jan;117.
20. Randolph GJ, Jakubzick C, and Qu C. Antigen Presentation by Monocytes and Monocyte-derived Cells. **Current Opinion of Immunology,** Dec 2007.
21. Jakubzick C, Tacke F, Ginhoux F, Wagers A, Mack M, Merad M, and Randolph GJ. Blood monocyte subsets differentially give rise to CD103+ and CD103- pulmonary dendritic cell populations. **J. Immunol.** 2008 Mar 1;180.
22. Jakubzick C, Helft J, Kaplan TJ, and Randolph GJ. Optimization of methods to study pulmonary dendritic cell migration reveals distinct capacities of pulmonary dendritic cell subsets to acquire soluble versus particulate antigen. **J Immunol Methods.** 2008 Sep 15.
23. Jakubzick C, Bogunovic M, Bonito AJ, Kuan EL, Merad M, and Randolph GJ. Lymph-migrating, tissue-derived dendritic cells are minor constituents within steady-state lymph nodes. **J Exp Med.** 2008 Nov 24;205.
24. Zhang N, Schröppel B, Lal G, Jakubzick C, Mao X, Chen D, Yin N, Jessberger R, Ochando JC, Ding Y, and Bromberg JS. Regulatory T cells sequentially migrate from the site of tissue inflammation to the draining LN to suppress allograft rejection. **Immunity.** 2009 Mar 20;30.
25. Bogunovic M, Ginhoux F, Helft J, Shang L, Hashimoto D, Greter M, Liu K, Jakubzick C, Ingersoll MA, Leboeuf M, Stanley ER, Nussenzweig M, Lira SA, Randolph GJ, and Merad M. Origin of the lamina propria dendritic cell network. **Immunity.** 2009 Sep 18.

26. Gautier EL, Jakubzick C, and Randolph GJ. Regulation of the migration and survival of monocyte subsets by chemokine receptors and its relevance to atherosclerosis. **ATVB.** 2009 Oct;29.
27. Janssen WJ, Barthel L, Muldrow A, Oberley-Deegan RE, Kearns MT, Jakubzick C, and Henson PM. Fas Determines Differential Fates of Resident and Recruited Macrophages During Resolution of Acute Lung Injury. **Am. J. Respir. Crit. Care Med.** 2011 Mar.
28. Desch AN, Randolph GJ, Murphy K, Gautier EL, Kedl RM, Lahoud MH, Caminschi I, Shortman K, Henson PM, and Jakubzick C. CD103+ pulmonary dendritic cells preferentially acquire and present apoptotic cell-associated antigen. **J Exp Med.** 2011 Aug 23. (Selected and evaluated by Faculty of 1000: 2011. F1000.com/13272037 and Cancer Research Sept 15 2011 71)
29. Gautier EL, Chow A, Spanbroek R, Marcelin G, Greter M, Jakubzick C, Bogunovic M, Leboeuf M, van Rooijen N, Habenicht AJ, Merad M, and Randolph GJ. Systemic analysis of PPARγ in mouse macrophage populations reveals marked diversity in expression with critical roles in resolution of inflammation and airway immunity. **J Immunol.** 2012 Sep 1.
30. Desch AN, Henson PM, Jakubzick C. Pulmonary dendritic cell development and antigen acquisition. **Immunol Res.** 2012 Sep 12.
31. Gautier EL, Shay T, Miller J, Greter M, Jakubzick C, Ivanov S, Helft J, Chow A, Elpek K, Gordonov S, Mazloom A, Ma'ayan A, Chua W, Hansen TH, Turley SJ, Merad M, and Randolph G.J.; The Immunological Genome Project Consortium. Gene expression profiles and transcriptional regulatory pathways underlying mouse tissue macrophage identity and diversity. **Nature Immunology**, 2012 Nov;13.
32. Huang Y, Aydintug MK, Loomis J, Macleod MK, McKee AS, Kirchenbaum G, Jakubzick C, Kedl RM, Sun D, Jacobelli J, O'Brien RL, Born WK. Antigen-Specific Regulation of IgE Antibodies by Non-Antigen-Specific γδ T Cells. **J Immunol**. 2013 Feb 1.
33. Jakubzick C, Gautier E, Gibbings SL, Sojka DK, Schlitzer A, Johnson TE, Ivanov S, Duan Q, Bala S, Condon T, van Rooijen N, Grainger JR, Belkaid Y, Ma'ayan A, Riches DW, Yokoyama WM, Ginhoux F, Henson PM, and Randolph GJ. Minimal differentiation of classical monocytes as they survey steady state tissues and transport antigen to lymph nodes. **Immunity** 2013, 2013 Sep 19.
34. Guilliams M, Ginhoux F, Jakubzick C, Naik SH, Onai N, Schraml BU, Segura E, Tussiwand R and Yona S All authors contributed equally to this work. Dendritic cells, monocytes and macrophages: a unified nomenclature based on ontogeny, **Nature Rev Immunol.** 2014 Aug
35. Desch AN, Gibbings SL, Clambey ET, Janssen WJ, Slansky JE, Kedl RM, Henson PM, Jakubzick C. Dendritic cell subsets require cis-activation for cytotoxic CD8 T-cell induction, **Nature Commun.** 2014 Aug 19
36. Kedl RM, Wysocki LJ, Janssen WJ, Born WK, Rosenbaum MD, Granowski J, Kench JA, Fong DL, Switzer LA, Cruse M, Huang H, Jakubzick CV, Kosmider B, Takeda K, Stranova TJ, Klumm RC, Delgado C, Tummala S, De Langhe S, Cambier J, Haskins K, Lenz LL, Curran-Everett D. General parity between trio and pairwise breeding of laboratory mice in static caging. **J Immunol.** 2014 Nov 15
37. Fernandez-Boyanapalli RF, Frasch SC, Thomas SM, Malcolm KC, Nicks M, Harbeck RJ, Jakubzick CV, Nemenoff R, Henson PM, Holland SM, Bratton DL. Pioglitazone restores phagocyte mitochondrial oxidants and bactericidal capacity in chronic granulomatous disease. **J Allergy Clin Immunol.** 2014 Dec 9
38. Kuan EL, Ivanov S, Bridenbaugh EA, Victora G, Wang W, Childs EW, Platt AM, Jakubzick CV, Mason RJ, Gashev AA, Nussenzweig M, Swartz MA, Dustin ML, Zawieja DC, Randolph GJ. Collecting Lymphatic Vessel Permeability Facilitates Adipose Tissue Inflammation and Distribution of Antigen to Lymph Node-Homing Adipose Tissue Dendritic Cells. **J Immunol.** 2015 Apr 27
39. Atif SM, Nelsen MK, Gibbings SL, Desch AN, Kedl RM, Gill RG, Marrack P, Murphy KM, Grazia TJ, Henson PM, Jakubzick CV. Cutting Edge: Roles for Batf3-Dependent APCs in the Rejection of Minor Histocompatibility Antigen-Mismatched Grafts. **Cutting Edge J Immunol.** 2015

40. Gibbings SL, Goyal R, Desch AN, Leach SM, Prabagar M, Atif SM, Bratton DL, Janssen W, Jakubzick CV. Transcriptome analysis highlights the conserved difference between embryonic and postnatal-derived alveolar macrophages. **Blood**. 2015 Sep 10
41. Desch AN, Gibbings SL, Goyal R, Kolde R, Bednarek J, Bruno T, Slansky JE, Jacobelli J, Mason R, Ito Y, Messier E, Randolph GJ, Prabagar M, Atif SM, Segura E, Xavier RJ, Bratton DL, Janssen WJ, Henson PM, Jakubzick CV. Flow cytometric analysis of mononuclear phagocytes in non-diseased human lung and lung-draining lymph nodes. **Am J Respir Crit Care Med.** 2015 Nov 9
42. Larson SR, Atif SM, Gibbings SL, Thomas SM, Prabagar MG, Danhorn T, Leach SM, Henson PM, Jakubzick CV. Ly6C^{+} monocyte efferocytosis and cross-presentation of cell-associated antigens. **Cell Death and Differentiation** 2016 March 18
43. Jakubzick CV, Warburton D. Can Alveolar Macrophages Made from Stem Cells Achieve Functional Rescue of Lung Diseases? **Am J Respir Crit Care Med.** 2016 Jun 1
44. Frasch SC, McNamee EN, Kominsky D, Jedlicka P, Jakubzick C, Zemski Berry K, Mack M, Furuta GT, Lee JJ, Henson PM, Colgan SP, Bratton DL. G2A Signaling Dampens Colitic Inflammation via Production of IFN-γ. **J Immunol.** 2016 Aug 15
45. Janssen WJ, Bratton DL, Jakubzick CV, Henson PM. Myeloid Cell Turnover and Clearance **Microbiol Spectr.** 2016 Nov

Chapters

46. Jakubzick C. and Randolph G.J. Methods to study pulmonary dendritic cell migration. Chapter: Dendritic Cell Protocols, **Methods Mol Biol.** 2010
47. Redente EF, Jakubzick C, Martin TR, and Riches DW. Innate Immunity. Chapter: **Murray and Nadels Textbook of Respiratory Medicine**. 2015

Jakubzick, C. is part of the Immunological Genome Project Consortium

48. Malhotra D, Fletcher AL, Astarita J, Lukacs-Kornek V, Tayalia P, Gonzalez SF, Elpek KG, Chang SK, Knoblich K, Hemler ME, Brenner MB, Carroll MC, Mooney DJ, Turley SJ; The Immunological Genome Project Consortium. Transcriptional profiling of stroma from inflamed and resting lymph nodes defines immunological hallmarks. **Nat Immunol.** 2012 Apr 1.
49. Narayan K, Sylvia KE, Malhotra N, Yin CC, Martens G, Vallerskog T, Kornfeld H, Xiong N, Cohen NR, Brenner MB, Berg LJ, Kang J; The Immunological Genome Project Consortium. Intrathymic programming of effector fates in three molecularly distinct γδ T cell subtypes. **Nat Immunol.** 2012 Apr 1.
50. Miller JC, Brown BD, Shay T, Gautier EL, Jojic V, Cohain A, Pandey G, Leboeuf M, Elpek KG, Helft J, Hashimoto D, Chow A, Price J, Greter M, Bogunovic M, Bellemare-Pelletier A, Frenette PS, Randolph GJ, Turley SJ, Merad M; The Immunological Genome Consortium. Deciphering the transcriptional network of the dendritic cell lineage. **Nat Immunol.** 2012 Jul 15.
51. Bezman NA, Kim CC, Sun JC, Min-Oo G, Hendricks DW, Kamimura Y, Best JA, Goldrath AW, Lanier LL; The Immunological Genome Project Consortium. Molecular definition of the identity and activation of natural killer cells. **Nat Immunol.** 2012 Aug 19.
52. Benoist C, Lanier L, Merad M, Mathis D; The Immunological Genome Project Consortium. Consortium biology in immunology: the perspective from the Immunological Genome Project. **Nat Rev Immunol.** 2012 Oct;12
53. Cohen NR, Brennan PJ, Shay T, Watts GF, Brigl M, Kang J, Brenner MB; The Immunological Genome Project Consortium. Shared and distinct transcriptional programs underlie the hybrid nature of iNKT cells. **Nat Immunol.** 2013 Jan;14.
54. Best JA, Blair DA, Knell J, Yang E, Mayya V, Doedens A, Dustin ML, Goldrath AW; Immunological Genome Project Consortium. Transcriptional insights into the CD8(+) T cell response to infection and memory T cell formation. **Nat Immunol.** 2013 Apr;14
55. Malhotra N, Narayan K, Cho OH, Sylvia KE, Yin C, Melichar H, Rashighi M, Lefebvre V, Harris JE, Berg LJ,

Kang J; Immunological Genome Project Consortium. A network of high-mobility group box transcription
factors programs innate interleukin-17 production. **Immunity.** 2013 Apr 18

56. Jojic V, Shay T, Sylvia K, Zuk O, Sun X, Kang J, Regev A, Koller D; Immunological Genome Project Consortium. Identification of transcriptional regulators in the mouse immune system. **Nat Immunol.** 2013 Jun;14
57. Mingueneau M, Kreslavsky T, Gray D, Heng T, Cruse R, Ericson J, Bendall S, Spitzer MH, Nolan GP, Kobayashi K, von Boehmer H, Mathis D, Benoist C; Immunological Genome Project Consortium. The transcriptional landscape of αβ T cell differentiation. **Nat Immunol.** 2013 Jun;14
58. Ergun A, Doran G, Costello JC, Paik HH, Collins JJ, Mathis D, Benoist C; Immunological Genome Project Consortium. Differential splicing across immune system lineages. **PNAS** 2013 Aug 27
59. Mostafavi S, Ortiz-Lopez A, Bogue MA, Hattori K, Pop C, Koller D, Mathis D, Benoist C; Immunological Genome Consortium. Variation and genetic control of gene expression in primary immunocytes across inbred mouse strains. **J Immunol.** 2014 Nov 1
60. Ericson JA, Duffau P, Yasuda K, Ortiz-Lopez A, Rothamel K, Rifkin IR, Monach PA; Immunological Genome Consortium. Gene expression during the generation and activation of mouse neutrophils: implication of novel functional and regulatory pathways. **PLoS One.** 2014 Oct 3

Three completed manuscripts currently under review or submitted

1. Shaikh M. Atif, Sophie L. Gibbings, Raul M. Torres, Ross M. Kedl, Claudia V. Jakubzick. Natural IgM initiates the immunological cascade against altered antigens elucidating the unique roles and lack of redundancy for APC subtypes, Submitted

2. Sophie L. Gibbings, Stacey M. Thomas, Shaikh M. Atif, Alexandra L. McCubbrey, A. Nicole Desch, Thomas Danhorn, Sonia M Leach, Donna L. Bratton, Peter M. Henson, William J. Janssen, Claudia V. Jakubzick. Characterization of three unique pulmonary interstitial macrophages, also present in other organs, Ongoing revision at AJRCMB

3. Claudia V. Jakubzick, Gwendalyn Randolph, Peter M. Henson. Monocyte differentiation and antigen presentation, Invited review from Nature Reviews Immunology