

Curriculum Vitae

KEN CADWELL

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EDUCATION

Year	Degree	Field	Institution
1998	Certificate		Buckley High School
2002	B.A.	Biological Sciences	Northwestern University
2006	Ph.D.	Molecular & Cell Biology	University of California, Berkeley

Postdoctoral Training:

2007–10	Virology & Immunology	Herbert “Skip” Virgin	Washington University School of Medicine
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Academic Appointments

2010–2015	Assistant Professor, Molecular Pathogenesis Program at the Skirball Institute, Department of Microbiology, New York University School of Medicine
2015–	Associate Professor, Molecular Pathogenesis Program at the Skirball Institute, Department of Microbiology, New York University School of Medicine

Awards and Honors

2001	URGC Undergraduate Research Grant
2002	Graduated with honors in biological sciences, Northwestern University
2003	Honorable mention, NSF Graduate Research Fellowship
2005	Sigma Xi Science Honor Society pre-doctoral grant
2007	Damon Runyon Cancer Research postdoctoral fellowship
2011	Dale F. Frey Award for Breakthrough Scientists
2011	Whitehead Fellowship Award
2013	ICAAC Young Investigator Award, American Society for Microbiology
2015	Burroughs Wellcome Investigator in the Pathogenesis of Infectious Disease
2016	Ann Palmenberg Junior Investigator Award, American Society of Virology
2016	Kenneth Rainin Foundation Innovator Award
2016	HHMI Faculty Scholar

Major Committee Assignments

National and International

2013–2015 Bsc2 Study Section, American Heart Association
 2014–2016 NIDDK ZDK1 GRB-2 Fellowship Study Section, *ad hoc*
 2014 NIAID ZAI1-LG-M (J1) U19 Study Section
 2014 Infectious Disease A Scientific Review Group, *ad hoc*, Veterans Affairs
 2016 NIDDK ZDK1 GRB (M4) R24 Study Section
 2016 NIDDK ZDK1 GRB-8 PPG Study Section
 2016– Crohn’s Colitis Foundation of America Research Fellowship Awards Committee
 2016– GMPB Study Section, *ad hoc*
 2013– Other *ad hoc*: Broad Foundation, FWO (Research Foundation Flanders), Hong Kong SAR, FWF Wittgenstein Award, Harvard Digestive Disease Center, NSBRI First Award Fellowships, Wellcome Trust, NIDDK-DDKC

New York University School of Medicine

2011–2012 Microbiome faculty search committee
 2012– Animal Research Advisory Committee (ARAC)
 2012– Immunology Club Seminar Series Organizing Committee
 2014 2014 Skirball Symposium Organizing Committee
 2014–2015 2014 and 2015 Skirball Retreat Co-Organizer
 2014– NIDDK T35 Medical Student Training Program Advisory Board
 2015–2016 Department of Microbiology, Virology faculty search committee
 2015– MSTP Faculty Operation Committee (FOC)
 2015–2016 Skirball Metabolic Signaling Program faculty search committee
 2016– Translational Research Core Advisory Committee
 2016– Microbiome Seminar Steering Committee
 2016– Immunology & Inflammation Training Program admissions committee

Memberships in Professional Societies

2012–2015 American Heart Association, BCVS Council Member
 2013– American Society of Microbiology
 2016– American Society of Virology
 2016– American Association of Immunologists

Editorial Positions

Editorships

2013– Associate Editor, Autophagy

Editorial Boards

2011– Autophagy
 2016– PLoS Biology

Ad Hoc Reviewer for

2010– Nature, Molecular Cell Biology, Gastroenterology, Cell Host & Microbe, Inflammatory Bowel Disease, Immunity, PLoS Pathogens, PLoS One, IUBMB Life, Journal of Immunology, Trends in Immunology, Inflammation, DNA and Cell Biology, Cell Death & Disease, Journal of Immunological Methods, PNAS, Cell Reports, Journal of Experimental Medicine, Science, Frontiers in Immunology, Nature Protocols, Nature Communications, Trends in Molecular Medicine, Mucosal Immunology, Nature Microbiology, Journal of Molecular Biology

Teaching Experience

Year	Name of course	Type of teaching	Contact hours
2011–	Advanced Immunology	Guest Lecturer/Faculty Leader	2/yr
2011–	Intro to Immunology	Guest Lecturer/Faculty Leader	4/yr
2012–	Microbiology Work-in-Progress	Co-Director	30/yr
2012–	Medical Microbiology	Faculty Leader	2/yr
2012–	Principles in Protein Modification in Health and Disease	Guest Lecturer/Faculty Leader	4/yr
2012–	Core Foundations in Medicine	Guest Lecturer/Faculty Leader	5/yr
2015–	Host-Pathogens Interactions	Guest Lecturer	2/yr
2016–	Cell Biology Tutorial	Faculty Leader	4/yr
2016–	Molecular Virology	Guest Lecturer/Faculty Leader	4/yr

Also guest lecturer for following courses outside of NYUSOM: NYU downtown (Advanced Immunology), Rockefeller University (Immunology)

Mentoring of Graduate Students and Postdoctoral Fellows in research

Under Direct Supervision:

Name	Type of Position	Time Period	Present Position
Vanessa Hubbard-Lucey	Postdoctoral Fellow	2011–2014	Senior Analyst, Cancer Research Institute
Amanda Marchiando	Postdoctoral Fellow	2011–2015	Regenerative Med Scientist, New York Blood Center
Lin Wang	Graduate Student (Masters)	2011–2012	Family business
Deepshika Ramanan	Graduate Student (PhD)	2011–2016	Postdoc, Harvard
Alexandria “Katie” Maurer	Graduate Student (MSTP)	2012–2015	Medical School Clerkship
Elisabeth Kernbauer	Postdoctoral Fellow	2012–2015	Project Manager, AOP Orphan Pharmaceuticals
Patricia Martin	Graduate Student (PhD)	2015–	
Matthew Keller	Graduate Student (PhD)	2015–	
Serre-Yu Wong	Postdoctoral Fellow	2015–	
Yu Matsuzawa	Postdoctoral Fellow	2015–	
Jessica Neil (maiden name: Pane)	Postdoctoral Fellow	2015–	
Eugene Rudensky	Graduate Student (PhD)	2016–	
Shushan Sargsian	Graduate Student (PhD)	2016–	

In Advisory Function:

Name	Time Period	Advisor	Type/Role
Ramya Gopal	2012–2013	Bo Shopsin	Thesis committee, member
Sabina Anik	2013–2014	David Levy	Thesis committee, member
Erik Sakowski	2011–2015	Jennifer Philips	Thesis committee, Chair
Dave E. Marzan	2011–	James Salzer	Thesis committee, member
Nadine Bode	2013–2016	Melanie Pearson	Thesis committee, member
Michael Gonzalez	2013–	P’ng Loke	Thesis committee, member
Evelyn Litwinoff	2013–	Ann-Marie Schmidt	Thesis committee, Chair
Gabriel Lutz	2013–2016	Angus Wilson	Thesis committee, member
Patricia Grace	2013–2015	Joel Ernst	Thesis committee, member

Michael Scarpati	2013–	Shaneen Singh (CUNY Brooklyn)	Thesis committee, external member
Laura Fogli	2014–2015	Sergei Korolov	Thesis committee, member
Victoria Fang	2014–	Susan Schwab	Thesis committee, member
Hannah Fehlner-Peach	2014–	Dan Littman	Thesis committee, Chair
Melania Fanok	2014–	Sergei Korolov	Thesis committee, member
Tamara Reyes-Robles	2015	Victor Torres	Thesis defense examiner
Ashira Lubkin	2015–	Victor Torres	Thesis committee, member
Lena Lau	2015–	Gregory David	Thesis committee, member
Yolande Gobler	2015–	Ruth Lehmann	Thesis committee, member
Cynthia Chen	2015–	Susan Schwab	Thesis committee, Chair
Keith Martinez	2016–	Maria Dominguez	Thesis committee, member
Sarah Katzenell	2016	David Leib (Dartmouth)	External thesis examiner
Kristina Boguslawski	2016–	Victor Torres	Thesis committee, member
Lu Yang	2016–	Sergei Korolov	Thesis committee, member

Major Research Interests

1. Mechanisms that distinguish beneficial versus adverse immune reactions
2. Host-microbiome interactions

Work in these respective areas is anticipated to provide key insight into the origin of complex inflammatory disorders, and also provide alternative means to treat infectious disease.

Grants Received

Prior						
Agency	Title	Type & #	Period	Total Direct Costs	Role	% Effort
CCFA	Role of Nod2 in virus-plus-susceptibility gene interaction	Pilot Grant	01/11–12/11	\$68,182	PI	7.5%
NYU	Role of virus-plus-susceptibility gene interaction in chronic intestinal disease	Whitehead Fellowship	09/11–08/12	\$30,000	PI	5%
Damon Runyon	Characterization of mice deficient in autophagy protein Atg16L1	Dale F. Frey Award	01/11–12/12	\$100,000	PI	N/A
NYU CTSI	Identification of genotype-specific biomarkers in Crohn's disease	Pilot Grant	01/13–12/13	\$50,000	Co-PI	5%
NYUCI	Role of Th17 mediated chronic inflammation in lymphomagenesis	Pilot Grant	07/13–06/14	\$25,000	Co-PI	5%
AHA	Role of autophagy gene Atg16L1 in MRSA resistance	Grant-in-Aid 12GRNT120300-41	07/12–06/15	\$180,000	PI	10%
Bernard Levine Award	Role of environment in oral tolerance and food allergies	Philanthropy	07/15–06/16	\$130,000	Co-PI	5%

Current

Agency	Title	Type & #	Period	Total Direct Costs	Role	% Effort
NIH/ NIDDK	Characterization of a commensal enteric virus	R01 DK093668	09/11– 05/20	\$2,289,104	PI	25%
NIH/ NIDDK	Role of Nod2 in microbial imbalances	R01 DK103788	08/15– 07/18	\$750,000	Co-PI	25%
Burroughs Wellcome Fund	Gene-microbe interactions in inflammatory disease	Investigator in the Pathogenesis of Infectious Diseases	07/15– 06/20	\$500,000	PI	5%
NIH/ NHLBI	Role of Atg16L1 in allogeneic hematopoietic stem cell transplantation	R01 HL123340	09/15– 08/19	\$1,400,000	Co-PI	25%
NIH/ NHLBI	Microbial triggers and molecular mechanisms of th17 mediated airway inflammation	R01 HL125816	09/15– 08/19	\$1,938,580	Collaborator	5%
Stony Wold- Herbert Fund	Role of autophagy during Streptococcus pneumoniae lung infection	Grant-in-Aid	01/16– 12/16	\$25,000	PI	N/A
Colton Center	Isolation of novel members of the gut microbiota that inhibit autoimmunity	Collaborative Project Pilot Award	08/16– 07/17	\$100,000	Co-PI	N/A
Merieux Institute	Identifying novel members of the microbiota that inhibit inflammatory bowel disease	Advanced Research Grant	10/16– 09/18	\$112,000	PI	2.5%
Rainin Foundation	Isolation of novel Clostridiales strains that can reverse dysbiosis	Innovator Award	10/16– 09/17	\$100,000	PI	2.5%
HHMI	N/A	Faculty Scholar	11/16– 10/20	\$500,000	PI	5%

Invited Seminars and Lectures

- 12/2010 NYU School of Medicine MSTP Honors Lecture, New York, NY
- 06/2011 2011 GI Research Academy, Kyoto, Japan
- 10/2011 49th Annual Meeting of the Infectious Disease Society of America, Boston, MA
- 11/2011 20th Symposium on Virus-Host Interactions, Mount Sinai School of Medicine and NYU School of Medicine, New York, NY
- 02/2012 24th Belgium Week of Gastroenterology, Oostende, Belgium
- 05/2012 2012 Digestive Disease Week, San Diego, CA
- 07/2013 Symposium: Barrier Function in Inflammatory Diseases, Janssen Research & Development, Springhouse, PA
- 04/2014 Seminar: Department of Molecular Cell Biology, University of California, Berkeley, CA
- 05/2014 Keystone Symposium on Autophagy: Fundamentals to Disease, Austin, TX
- 10/2014 International Symposium on Mucosal Immunity and Vaccine Development, Tokyo, Japan
- 02/2015 Tri-Institutional (MSKCC, Rockefeller, Cornell) Immunology and Microbial Pathogenesis Program Research Seminar Series, New York, NY

06/2015 Annual Meeting of the Canadian Society for Immunology, Winnipeg, Manitoba, Canada

06/2015 VIB Inflammation Research Center, Gent, Belgium

08/2015 External Speaker, Department of Pathology & Immunology Retreat, University of Utah, Park City, UT

08/2015 12th World Congress on Inflammation, Boston, MA

08/2015 Keynote Speaker, 11th Smögen Summer Symposium on Virology, Smögen, Sweden

08/2015 Infection Biology Program Meeting, Karolinska Institute, Stockholm, Sweden

09/2015 NIAID workshop: The Role of the Microbiome in Infectious Disease, Bethesda, MD

10/2015 Janssen R&D Innate Lymphoid Cell Symposium, San Diego, CA

10/2015 4th Annual Kirby Inflammation Signaling Symposium, Fox Chase Cancer Center Philadelphia, PA

11/2015 25th Annual Beckman Symposium on Microbiota in Health in Disease, Duarte, CA

12/2015 National Jewish Health and University of Colorado, Denver, CO

12/2015 2015 American Society of Cell Biology Meeting, San Diego, CA

01/2016 Committee on Immunology Seminar Series, University of Chicago, Chicago, IL

01/2016 Center for the Study of IBD Seminar Series, Massachusetts General Hospital, Boston, MA

02/2016 Microbiology Seminar Series, University of Texas Southwestern, Dallas, TX

02/2016 PENN Microbiology Seminar series, Philadelphia, PA

03/2016 Gordon Research Conference on Autophagy in Stress, Development & Disease, Ventura, CA

04/2016 American Society for Investigative Pathology 2016 Meeting at Experimental Biology, San Diego, CA

04/2016 Cell Biology and Physiology Center, NHLBI/NIH, Bethesda, MD

04/2016 Immunology Seminar Series, McGill University, Montreal, Quebec, Canada

05/2016 Johns Hopkins Microbiome Research Forum, Baltimore, MD

05/2016 Dartmouth College guest lecturer, Hanover, NH

06/2016 Ann Palmenberg Junior Investigator Award Lecture, American Society of Virology 2016, Blacksburg, VA

06/2016 Center for Inflammation & Mucosal Immunology Mini Symposium, University of Florida, Gainesville, FL

07/2016 Gordon Research Conference on Microbial Toxins and Pathogenicity, Waterville Valley, VT

09/2016 International Digestive Education And Science (IDEAS) Symposium, Cleveland, OH

09/2016 Microbiome Initiate Seminar Series, University of Rochester, Rochester, NY

09/2016 NIDDK New Investigator Workshop, Bethesda, MD

10/2016 State of the Art Lecture, 6th International Calicivirus Conference, Savannah, GA

11/2016 Immunobiology Seminar Series, Yale School of Medicine, New Haven, CT

11/2016 NYC IBD Research Day, New York, NY

11/2016 Connaught International Symposium, Toronto, Canada

12/2016 CCFA Advances in IBD meeting, Orlando, FL

01/2017 Microbiology Seminar Series, University of California, Davis, CA

01/2017 56th Midwinter Conference of Immunologists, Pacific Grove, CA

02/2017 Biology Colloquium Seminar Series, Rutgers, New Brunswick, NJ

02/2017 Keystone Symposium on Viral Immunity: Mechanisms and Consequences, Santa Fe, NM

03/2017 Institute for Biomedical Sciences (IBMS) seminar series, Georgia State University, Atlanta, Georgia

03/2017 Immunology Seminar Series, Genentech, San Francisco, CA

04/2017 Immunobiology Seminar Series, UCSD, San Diego, CA

04/2017 Living as a Threesome in the Gut: Viruses, Bacteria and the Host, ASM/ASV Joint Conference, Bethesda, MD

05/2017 Major Symposium on Barrier Function, AAI 2017, Washington DC
05/2017 I³ seminar series, Vanderbilt University Medical Center, Nashville, TE
07/2017 FASEB meeting on Gastrointestinal Tract XVII, Steamboat Springs, CO
09/2017 Cold Spring Harbor conferences on Microbiota, metagenomics & Health, Suzhou, China
09/2017 Molecular Pathogenesis and Host Response meeting, Cold Spring Harbor, NY
09/2017 Host-Parasite Interactions – from Molecules to Ecosystems, Banff, Canada
09/2017 Snyder Institute Endowed Chair Seminar, University of Calgary, Canada

Boards and Community Organizations

2016– Secretary and Advisory board member, The Reagents Project

Other

Funding and Prizes Awarded to Trainees

T32 AI007647 (Marchiando), T32 AI007647 (Hubbard-Lucey), T32 AI100853 (Marchiando), Vilcek Fellowship (Kernbauer), T32 AI100853 (Maurer), F32 FHL115974A (Hubbard-Lucey), F30 DK098925 (Maurer), Erwin Schrodinger Fellowship (Kernbauer), CCFA fellowship (Marchiando), Special McCracken Award (Ramanan), CCFA Summer research award (Felder), Mochida Memorial Foundation Award (Matsuzawa), Sir Keith Murdoch Fellowship (Neil), Uehara Foundation Award (Matsuzawa), Vilcek Fellowship (Neil), Skirball Retreat Poster Prize (Ramanan), Harold M. Weintraub Graduate Student Award (Ramanan), ACG 2016 Clinical Research Award (Serre-Yu Wong), Special McCracken Award (Martin), F31 DK111139 (Martin)

Oral Presentations at Major Meetings by Trainees

Keystone Symposium on Autophagy (Marchiando) 02/2013, Cell Symposia: TH2 Immunity (Ramanan) 12/2014, Keystone Symposium on Gut Microbiota (Kernbauer) 03/2015

Session Chair and/or Panelist at the Following Meetings

2011 Digestive Disease Week (DDW), Chicago, IL (05/2011); Keystone Symposium on Autophagy, Inflammation and Immunity, Montreal, Canada (02/2013), CCFA Advances in IBD Meeting, Orlando, FL (12/2016)

Bibliography

Primary peer-reviewed

1. **Cadwell K** and Coscoy L. Ubiquitination on nonlysine residues by a viral E3 ubiquitin ligase. **Science**. 2005. July 1; 309(5731):127-30.
2. Miller BC, Zhao Z, Stephenson LM, **Cadwell K**, Pua HH, Lee HK, Mizushima NN, Iwasaki A, He Y, Swat W, Virgin HW. The autophagy gene ATG5 plays an essential role in B lymphocyte development. **Autophagy**. 2007. Dec 24;4(3).
3. **Cadwell K** and Coscoy L. The specificity of KSHV-encoded E3 ubiquitin ligases is determined by the positions of lysine or cysteine residues within the intracytoplasmic domain of their targets. **Journal of Virology**. 2008. Apr;82(8):4184-9. PMC2293015
4. **Cadwell K**, Liu J, Brown SL, Miyoshi H, Loh J, Lennerz J, Kishi C, Kc W, Carrero JA, Hunt S, Stone C, Brunt EM, Xavier RJ, Sleckman BP, Li E, Mizushima N, Stappenbeck TS, Virgin HW. A

- key role for autophagy and the autophagy gene Atg1611 in mouse and human intestinal Paneth cells. **Nature**. 2008. Nov 13;456(7219):259-63. PMC2695978
5. Zhao Z, Fux B, Strong D, Miller BC, **Cadwell K**, Delgado M, Pnopuak M, Green KG, Schmidt RE, Mizushima NN, Deretic V, Sibley LD, Virgin HW. ATG5 is essential for cellular immunity in vivo and recruitment of a p47 GTPase to the Toxoplasma gondii parasitophorous vacuole in macrophages. **Cell Host and Microbe**. 2008. Nov 13;4(5):458-69. PMC2682425
 6. Ju J, Miller SE, Jackson E, **Cadwell K**, Piwnica-Worms D, Wehl CC. Quantitation of selective autophagic protein aggregate degradation in vitro and in vivo using luciferase reporters. **Autophagy**. 2009. May 5(4):511-9. PMC2992796
 7. Stephenson LM, Miller BC, Ng A, Eisenberg J, Zhao Z, **Cadwell K**, Graham DB, Mizushima NN, Xavier R, Virgin HW, Swat W. Identification of Atg5-dependent transcriptional changes and increases in mitochondrial mass in Atg5-deficient T lymphocytes. **Autophagy**. 2009. Jul 5(5):625-35.
 8. **Cadwell K**, Patel KK, Maloney N, Liu TC, Ng ACY, Storer CE, Head RD, Xavier R, Stappenbeck TS, Virgin HW. Virus-plus-susceptibility gene interaction determines Crohn's disease gene *Atg16L1* phenotypes in intestine. **Cell**. 2010. Jun 25; 141(7): 1135-45. PMC2908380
 9. Wang C, Mendonsa GR, Symington JW, Zhang Q, **Cadwell K**, Virgin HW, Mysorekar IU. Atg16L1 deficiency confers protection from uropathogenic Escherichia coli infection in vivo. **Proceedings of the National Academy of Sciences**. 2012. Jul 3; 109(27):11008-13. PMC3390880
 10. Nishimura T, Kaizuka T, **Cadwell K**, Himatbhai SM, Saitoh T, Akira S, Virgin HW, Mizushima N. FIP200 regulates the isolation membrane targeting of Atg16L1. **EMBO Reports**. 2013. Mar 1; 14(3):283-91. PMC3589088
 11. Marchiando AM, Ramanan D, Ding Y, Gomez LE, Hubbard-Lucey VM, Maurer K, Wang C, Ziel JW, van Rooijen N, Nuñez G, Finlay BB, Mysorekar IU, **Cadwell K**. A Deficiency in the Autophagy Gene Atg16L1 Enhances Resistance to Enteric Bacterial Infection. **Cell Host Microbe**. 2013 Aug 14;14(2):216-24. PMC3825684
 12. Patel KK, Miyoshi H, Beatty WL, Head RD, Malvin, NP, **Cadwell K**, Seglen PO, Dinauer MC, Virgin HW, Stappenbeck TS. Autophagy proteins control goblet cell function by potentiating reactive oxygen species production. **EMBO J**. 2013 Dec 11;32(24):3130-44. PMC3981139
 13. Yu HB, Croxen MA, Marchiando AM, Ferreira RB, **Cadwell K**, Foster LJ, Finlay BB. Autophagy Facilitates Salmonella Replication in HeLa Cells. **MBio**. 2014 Mar 11;5(2):e00865-14. PMC3952155
 14. Ramanan D, Bowcutt R, Tang MS, Loke P, **Cadwell K**. Nod2 prevents small intestinal inflammation by restricting the expansion of a common member of the microbiota. **Immunity**. 2014 Aug 21;41(2):311-24. PMC4238935
 15. Hubbard-Lucey VM, Shono Y, Maurer K, West ML, Singer NV, Ziegler CGK, Lezcano C, Motta ACF, Schmid K, Levi SM, Murphy GF, Liu C, Winkler JD, Amaravadi RK, Rogler G, Dickinson AM, Holler E, van den Brink MRM, **Cadwell K**. Autophagy gene *Atg16L1* prevents lethal T cell alloreactivity mediated by dendritic cells. **Immunity**. 2014 Oct 16;41(4):579-91. PMC4237219
 16. Kernbauer E, Ding Y, **Cadwell K**. An enteric virus can replace the beneficial function of commensal bacteria. **Nature**. 2014 Dec 4;516(7529):94-8. PMC4257755

17. Kernbauer E, Maurer K, Torres V, Shopsin B, **Cadwell K**. Gastrointestinal dissemination and transmission of *Staphylococcus aureus* following bacteremia. **Infection and Immunity**. 2015 Jan;83(1):372-8. PMC4238935
18. Maurer K, Reyes-Robles T, Alonzo F, Durbin J, Torres VJ, **Cadwell K**. Autophagy Mediates Tolerance to *Staphylococcus aureus* Alpha-Toxin. **Cell Host & Microbe**. 2015 Apr 8;17(4):429-40. PMC4392646
19. Sakowski ET, Koster S, Portal Celhay C, Park HS, Shrestha E, Hetzenecker SE, Maurer K, **Cadwell K**, Philips JA. Ubiquilin 1 Promotes IFN- γ -Induced Xenophagy of Mycobacterium tuberculosis. **PLoS Pathog**. 2015 Jul 30;11(7):e1005076. PMC4520715
20. Ramanan D, Bowcutt R, Lee SC, Tang MS, Kurtz ZD, Ding Y, Honda K, Gause WC, Blaser MJ, Bonneau RA, Lim YA, Loke P, **Cadwell K**. Helminth Infection Promotes Colonization Resistance via Type 2 Immunity. **Science**. 2016 Apr 29;352(6285):608-12. PMC4905769
21. Livanos AE, Greiner TU, Vangay P, Pathmasiri W, Stewart D, McRitchie S, Li H, Chung J, Sohn J, Kim S, Gao Z, Barber C, Kim J, Ng S, Rogers AB, Sumner S, Zhang XS, **Cadwell K**, Knights D, Alekseyenko A, Bäckhed F, Blaser MJ. Antibiotic-mediated gut microbiome perturbation accelerates development of type 1 diabetes in mice. **Nat Microbiol**. 2016 Aug 22;1(11):16140.

Preview Articles (Invited)

1. **Cadwell K**. Crohn's Disease Susceptibility Gene Interactions, a NOD to the Newcomer ATG16L1. **Gastroenterology**. 2010. Nov; 139(5):1448-50.
2. **Cadwell K**. Bacteria, it's What's for Dinner. **Cell Host and Microbe**. 2013. Jun 12;13(6):627-8.
3. **Cadwell K**, Philips JA. Autophagy meets phagocytosis. **Immunity**. 2013 Sep 19;39(3):425-7.

Guidelines (Invited)

1. Guidelines for the use and interpretation of assays for monitoring autophagy. **Autophagy**. 2012. Apr; 8(4):445-544.
2. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). **Autophagy**. 2016. Jan 2; 12(1):1-222.

Reviews and commentaries (Invited)

1. **Cadwell K**, Patel KK, Komatsu M, Virgin HW, Stappenbeck TS. A common role for Atg16L1, Atg5 and Atg7 in small intestinal Paneth cells and Crohn disease. **Autophagy**. 2009. Feb 8;5(2).
2. **Cadwell K**, Stappenbeck TS, Virgin HW. Role of autophagy and autophagy genes in inflammatory bowel disease. **Curr Top Microbiol Immunol**. 2009;335:141-67.
3. Hubbard VM and **Cadwell K**. Viruses, Autophagy Genes, and Crohn's Disease. **Viruses**. 2011. Jul; 3(7):1281-311.
4. Kernbauer E, **Cadwell K**. Autophagy, viruses, and intestinal immunity. **Curr Op Gastroenterol**.

2014 Nov;30(6):539-46.

5. **Cadwell K.** Expanding the Role of the Virome: Commensalism in the Gut. **J Virol.** 2015 Feb;89(4):1951-3. PMC4338900
6. **Cadwell K.** The Virome in Host Health and Disease. **Immunity.** 2015 May 19;42(5):805-813. PMC4578625
7. Maurer K, Torres VJ, **Cadwell K.** Autophagy is a key tolerance mechanism during *Staphylococcus aureus* infection. **Autophagy.** 2015 Jul 3;11(7):1184-6.
8. Ramanan D and **Cadwell K.** Intrinsic Defense Mechanisms of the Intestinal Epithelium. **Cell Host and Microbe.** 2016 Apr 13;19(4):434-41.
9. **Cadwell K.** Crosstalk between autophagy and inflammatory signalling pathways: balancing defence and homeostasis. **Nat Rev Immunol.** 2016 Nov;16(11):661-675.

Book Chapters

1. **Cadwell K** and Dustin M. Introduction to Functional Cell Biology of Immunity. In: Ralph A Bradshaw and Philip D Stahl (Editors-in-Chief), **Encyclopedia of Cell Biology**, Vol 3, Waltham, MA: Academic Press, 2016, pp. 518-527.
2. **Cadwell K** and Marchiando AM. Function of Epithelial Barriers. In: Ralph A Bradshaw and Philip D Stahl (Editors-in-Chief), **Encyclopedia of Cell Biology**, Vol 3, Waltham, MA: Academic Press, 2016, pp. 687-694.