

05/24/2021

**Curriculum Vitae**

(Maria) Cecilia Berin

DOB: 08/28/1970

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**A. ACADEMIC APPOINTMENTS**

- |                   |  |
|-------------------|--|
| 10/2020-current   | The Hugh A. Sampson Professor in Food Allergy Research<br>(Endowed professor)<br>Icahn School of Medicine at Mount Sinai, New York, NY |
| 07/2018-current   | Professor, Department of Pediatrics<br>Icahn School of Medicine at Mount Sinai, New York, NY   |
| 01/2012 - 07/2018 | Associate Professor, Department of Pediatrics<br>Icahn School of Medicine at Mount Sinai, New York, NY                                 |
| 01/2005 – 01/2012 | Assistant Professor, Department of Pediatrics<br>Icahn School of Medicine at Mount Sinai, New York, NY                                 |
| 11/2001 – 01/2005 | Instructor, Department of Pediatrics<br>Icahn School of Medicine at Mount Sinai, New York, NY  |

**B. EDUCATION**

Postdoctoral Fellowship (01/1999 – 11/2001)  
University of California, San Diego  
Mentor: Dr. Martin F. Kagnoff, MD

Ph.D. (1999) Medical Sciences  
McMaster University, Hamilton, Canada  
Mentor: Dr. Mary H. Perdue, PhD

M.Sc. (1994) Physiology  
Queen's University, Kingston, Canada  
Mentor: Dr. Mikael G. Buell, MD PhD

B.Sc. (Honours) (1992) Life Sciences, Queen's University, Kingston, Canada

**C. CERTIFICATION**

Not applicable

**D. LICENSURE**

Not applicable

**E. HONORS & AWARDS**

2019	Phil and Barbara Lieberman and Friends Lectureship, AAAAI, 2019
1999-2002	Canadian Institute of Health Research Postdoctoral Fellowship
1996	Canadian Association of Gastroenterology Student Research Prize
1994-1997	Ontario Graduate Scholarship (PhD studies)
1994-1995	Centennial Scholarship, McMaster University
1993-1994	Ontario Graduate Scholarship (MSc studies)
1992-1993	Dean's Award Scholarship, Queen's University
1989-1990	Major J.H. Rattray Memorial Scholarship in Science, Queen's University
1988-1989	Stirling Scholarship, Queen's University

**F. PATENTS**

None

**G. OTHER PROFESSIONAL APPOINTMENTS**

06/2020	Chair, Peer Review Medical Research Program (PRMRP) Discovery Awards Food Allergies review panel
02/2020	Chair, AACRC (Asthma and Allergic Diseases Cooperative Research Centers) Steering Committee
01/2020	Chair, 2022 Gordon Research Conference on Food Allergy
07/2018-current	Deputy Director, Jaffe Food Allergy Institute
2019-current	Editorial Board, Journal of Allergy and Clinical Immunology
10/2018 - current	Reviewer, ZRG1 IMM-T(57)R <i>Hypersensitivity, Allergies and Mucosal Inflammation</i> recurring special emphasis panel
2014-2019	Reviewer Board, <i>Journal of Allergy and Clinical Immunology</i>
2016-2018	Peer review panel member, COMPARE allergen database
06/2016	Reviewer, NIH Special Emphasis Panel ZRG1 IMM-S
10/2017	Reviewer, NIH Special Emphasis Panel ZRG1 IMM-T90
2004-2016	International Scientific Committee, Society for Mucosal Immunology
03/2016	Reviewer, NIH Review Panel, Asthma and Allergic Disease Clinical Research Centers
2008 – 2012	Programming Committee (Experimental Biology), Gastrointestinal and Liver Section, American Physiological Society.

2002-2009 Editorial Board, *American Journal of Physiology (Gastrointestinal and Liver Physiology)*

#### **H. SERVICE**

##### **Service, Icahn School of Medicine at Mount Sinai Committees**

2015-current Vice Chair, Curriculum Committee  
2017-current MSTP Admissions Committee  
2014-2016 Human Immune Monitoring Center Advisory Committee  
2014-2016 CCMS Advisory Committee  
03/2010 –2018 Faculty Council Representative, Immunology Institute  
07/2010 –2018 Professionalism Committee, Faculty Council  
2011-2012 PhD Admissions Committee, Graduate School of Biological Sciences  
2011 Authorship Policy Committee  
07/2010 Compensation Committee, Department of Pediatrics

##### **Service, Departmental**

2016-2019 Co-Organizer, PRIISM (Immunology Institute) Seminar Series  
2012-2015 Chair, Pediatric Research Day Committee  
2011 - 2012 Organization of the Pediatric Research Seminar Series

##### **Service, Graduate School of Biological Sciences Supervisory Committees**

Thesis Defense Committee:

Thomas Marron (Immunology, Mentor: Charlotte Cunningham-Rundles)  
July 2010

Supervisory Committees:

##### Current:

- Dan Fu Ruan (Immunology, Mentor: Amir Horowitz)
- Katherine Lindblad (Immunology, Mentor: Amaia Lujambio)
- Michael Espino (Immunology, Mentor: Dusan Bogunovic)
- Venu Pothula (Immunology, Mentor: Jordi Ochando)
- Matthew Spindler (Immunology, Mentor Jeremiah Faith)
- Jamie Redes (Immunology, Mentor Maria Lafaille)
- Maris Wilkins (Masters) (Microbiology, Mentor Ana Fernandez Sesma)

##### Former/Completed:

- Kester Hays (Microbiology, Mentor: Thomas Moran).
- Lauren Peters (Immunology, Mentor: Lloyd Mayer)
- David Chiang (Immunology, Mentor: Lloyd Mayer)
- Douglas Mathern (Immunology, Mentor: Peter Heeger)
- Aleksey Chudnovskiy (Immunology, Mentor: Miriam Merad)
- Sean Llewellyn (Immunology, Mentor: Jeremiah Faith)
- Joong-Hyuk Sheen (Immunology, Mentor: Peter Heeger)

- Luciana Muniz (Immunology, Mentor: Nina Bhardwaj)
- Hanchih Wu (Microbiology, Mentor: Hideki Ueno)
- Mark Aleynick (Immunology, Mentor: Joshua Brody)

### Service, External

#### Grant Review (Ad hoc)

National Institutes of Health (HAMI recurring special emphasis panel); American Institute of Biological Sciences (Department of Defense Grants); Chief Scientist Office (Scotland); DigestScience (France); Environmental Protection Agency (USA); Health Canada; Medical Research Council (UK), Netherlands Organisation for Scientific Research

#### NIH Panels and Workshops

February 2018 *NIAID Network Allergy Summit Meeting (Speaker)*  
August 2017 *Atopic Dermatitis and the Atopic March (Speaker)*  
August 2016 *CASK study strategic planning meeting (Speaker)*  
April 2016 *IgE Regulation in Allergic Diseases Workshop (Sponsored Participant)*  
September 2014 *Gastrointestinal Microbiota in Allergy and Advances in Probiotics Workshop (Sponsored Participant)*

#### Journal Review (Ad hoc)

Allergy, American Journal of Physiology, Clinical and Experimental Allergy, Gastroenterology, Gut, Inflammatory Bowel Diseases, International Archives of Allergy and Immunology, Journal of Clinical Immunology, Journal of Clinical Investigation, Journal of Immunology, Journal of Leukocyte Biology, Mucosal Immunology, Science Immunology, Science Translational Medicine

#### PhD Thesis Defense

- Elizabeth Simms (McMaster University). Supervisor: Mark Larche. Title: Ara h 1 peptide immunotherapy in a mouse model of peanut-induced anaphylaxis. May 2018.
- Sara Benede (Universidad Autonoma de Madrid, Spain). Title: Digestibility of milk and egg white allergens. Immunological responses, peptides released and mapping of epitopes. October 2013.
- Katherine Arias (McMaster University, Canada). Supervisor: Manel Jordana. Title: Immune-Effector Pathways Leading to Peanut Induced Anaphylaxis. September 2011.

### I. TRAINING RECORD

Adina Kay Knight, MD                      Postdoctoral Fellow                      Mentor (2004-2006)  
Current: Senior Medical Director, Quintiles, Rockville, MD

Franziska Roth-Walter, PhD                      Postdoctoral Fellow                      Co-Mentor (2005-2007)

Current: Group Leader, Messerli Research Institute, Vienna

Ana Belén Blázquez, PhD      Postdoctoral Fellow      Mentor (2005 – 2010)  
Current: Project Manager, Biomarker Operations. Bristol Myers Squibb.

Hannah Fong      Pre-doctoral      Mentor (2008 – 2009)  
Current: Technician, Cornell University, Ithaca, NY

Keren Rabinowitz      PhD Student      Co-Mentor (2008-2012)  
Current: Senior Scientist, Tel Aviv Medical Center, Israel.

Mariah Pieretti, MD      Postdoctoral Fellow      Mentor (2008 – 2009)  
Current: Private practice, Ithaca, NY

David Dunkin, MD      Assistant Professor      Co-Mentor (2009-2013)  
Current: Assistant Professor, Mount Sinai

Ivan Lopez-Exposito, PhD      Postdoctoral Fellow      Mentor (2010-2011)  
Current: Institute for food research science, Madrid, Spain

Stephanie Leonard, MD      Postdoctoral Fellow      Mentor (2010 – 2011)  
Current: Assistant Professor, UCSD

Kirsi M. Jarvinen, MD PhD      Assistant Professor      K08 Co-Mentor (2010-2016)  
Current Position: Chief, Allergy & Immunology, Dept. of Pediatrics, University of Rochester

Lauren Steele      Doris Duke Fellow      Mentor (2011-2012)  
Current: Private practice, Eureka, CA

Ritobrata Goswami, PhD      Postdoctoral Fellow      Mentor (2012-2014)  
Current: Assistant Professor, Ahmedabad University, Gujarat, India

James Gregory, PhD      Postdoctoral Fellow      Mentor (2013-2015)  
Current: Staff Scientist, New York Genome Center

David Chiang      MD/PhD Student      Mentor (2013 – 2016)  
Current: Internal Medicine/Pediatrics Resident, UMass Memorial Medical Center

Leticia Tordesillas, PhD      Postdoctoral Fellow      Mentor (2013 – 2017)  
Current: Research Scientist, Moffitt Cancer Center, Tampa, FL

Sara Benede, PhD      Postdoctoral Fellow      Mentor (2014-2016)  
Current: Scientist, Spanish National Research Council

Evan Cody                                      Master's Student                                      Mentor (2015-2017)  
 Current: PhD Student, Icahn School of Medicine at Mount Sinai

Daniel Lozano-Ojalvo, PhD      Postdoctoral Fellow                                      Mentor (2018- current)

Justine Noel                                      PhD Student                                      Mentor (2018-current)

Nicole Ramsey, MD                                      Postdoctoral Fellow                                      Mentor (2019-current)

**J. TEACHING ACTIVITIES**

<b>Teaching Activity</b>	<b>Level</b>	<b>Role</b>	<b>Number of Learners</b>	<b>Number of hours</b>	<b>Years Taught</b>
<b>Fundamentals of Immunology</b>	Graduate Course	Course Director	25	45	2020-current
<b>1<sup>st</sup> year Immunology</b>	Medical School Course	Small Group Discussion Leader	10/group	4-6 small group sessions/yr	2004-current
<b>Biomedical Sciences (Year 1)</b>	Graduate School Course	Lecturer: Immunology	45	3 lectures /journal club	2011-2018
<b>Fundamentals in Immunology</b>	Graduate School Course	Lecturer	10-15	2 lectures/yr	2009-current
<b>Advanced Topics in Immunology</b>	Graduate School Course	Lecturer/Facilitator	5	14 classroom hours	2015
<b>Journal Club</b>	Graduate School Course	Facilitator	15	4 classroom hours	2010,2014, current
<b>Immunology Didactic Review</b>	Divisional Level	Discussion leader	4-5	5 /yr	2006-current
<b>Gastrointestinal Immunology (NYU)</b>	Graduate School Course	Guest Lecturer (Food Allergy)	10-15	3 hours	2014-current (biannual)

## K. GRANT SUPPORT

### Current

U19 AI136053 (NIAID) 06/05/2018-06/04/2023

Role: Principal Investigator (Multi PI with Scott Sicherer)

Title: **Immune Basis & Clinical Implications of Threshold-Based Phenotypes of Peanut Allergy**

This AADCRC center grant is focused on studying the cellular and molecular basis of threshold of reactivity to peanut, and investigating the impact of dietary intervention on those with high threshold peanut allergy.

R01 AI151707-01 (NIAID) 05/15/2020-04/30/2025

Role: Principal Investigator (Multi-PI with Maria Lafaille)

**Heterogeneity of T cell phenotype and function in food allergy**

The goal of this project is to identify functional interaction between peanut-responsive T cell subsets and B cell subsets

Subcontract, UM2AI30836 (NIAID) 02/15/2018-02/14/2022

Role: Principal Investigator

**Predicting Clinical Response to Omalizumab by High Dimensional Basophil Profiling**

The objective of this project is to identify phenotypic variation in the basophil response to allergen and IgE that predict the efficacy of omalizumab in preventing reactions to peanut.

### **Immune Tolerance Network Subcontract**

FY19ITN300 from AI109565 (Nepom, G) (NIAID) 02/01/2019-01/31/2021

This subcontract supports the processing of blood biospecimens for the ACTIVATE trial and the design of mechanistic studies on the immune basis of food allergy and tolerance.

Texas Children's Hospital Foundation 06/04/2019-06/03/2022

**Intestinal and skin microbiome and immune profiling in infants with food protein-induced enterocolitis syndrome [FPIES]**

This award supports mechanistic studies to determine the underlying immune basis of FPIES.

### **Completed Support**

U24 AI118644-01 06/30/2015-06/29/2020

Role: Principal Investigator (Multi-PI with Miriam Merad)

Title: **Novel tools to maximize profiling of tissue and antigen specific immune dysregulation in allergy and inflammatory bowel disease**

The objective of this project is to develop immune profiling methods that maximize yield of information from limited patient specimens.

P30ES023515 (Wright R) 07/02/2018-07/01/2019

Role: Pilot grant PI

**High Dimensional Immune Profiling of the Response to Prenatal Air Pollution Exposure**

The goal of this project is to establish immune profiling approaches and generate preliminary data examining the link between prenatal air pollution exposure and immune dysfunction.

Mindich Child Health and Development Pilot Funds 1/31/19-1/30/20

Role: Multi-PI (with David Dunkin)

**Food-specific T cells in Eosinophilic Esophagitis**

Our objective is to examine the relationship between T cell phenotype in the esophagus and allergen-specific T cells in the peripheral blood of patients with Eosinophilic Esophagitis

Agency: NIH R21 AI124062-01 02/01/2016-01/31/2018

Role: Principal Investigator

**Title: Communication Between Skin and Gastrointestinal Tract in Food Allergy**

The goal of this project is to identify immune mechanisms underlying the role of skin inflammation in susceptibility to food allergy.

ITN-BRI Subaward No.: FY17ITN250 02/01/2017 – 01/31/2018

Role: Sub-recipient Investigator (PI: Gerald Nepom)

ITN Study: EP182: CyTOF Pilot Experiments for ACTIVATE

The aim of this project is to establish immune monitoring assays for ACTIVATE, a clinical trial to examine the impact of microbial re-seeding of caesarian-born infants on development of sensitization to foods.

U19AI066738 (1/7/2005-30/6/2015)

Role: Director of Mechanistic Studies (PI Hugh Sampson)

**Title: Immunobiology of Food Allergy and its Treatment**

The Consortium of Food Allergy Research (CoFAR) was established in July 2005 by the National Institute of Allergy and Infectious Diseases (NIAID) to conduct both observational and clinical studies to answer questions related to food allergies.

1R01AI093577 02/2012-01/2017

Role: Principal Investigator

**Title: Role of T cells in gastrointestinal manifestations of food allergy**

The primary objective of this project is to determine how allergen-specific T cells alter gastrointestinal physiology by interactions with the intestinal epithelium and sensory nerves.

Agency: NIH (AADCRC Opportunity Fund, Supplement to AI044236, 12/2012 to 11/2013)

Role: Co-Investigator (PI Hugh Sampson)

**Title: Immune phenotyping the response to oral immunotherapy through modular genomics**

The objective of this project is to use transcriptional profiling to identify signatures associated with food allergy and the development of tolerance.

U19 AI044236-10 - 2/28/13

Role: Principal Investigator, Project 2

**Title: Immunologic Basis of Cow Milk Hypersensitivities (PI Sampson, HA)**



Project 2: Epithelial CD23 in Cow Milk Allergy: Role in Pathogenesis and Function as a Disease Biomarker

The goal of this project is to determine the function of the low-affinity IgE receptor CD23 that is expressed on human intestinal epithelial cells in cow milk allergy.

R83406401 (Sponsor: EPA) 12/2008-11/2010

Role: Principal Investigator

Title: **Gastrointestinal TSLP in the Pathogenesis of Food Allergy**

The goal of this project was to determine the role of the epithelial cytokine TSLP in the development of food allergy and tolerance in the gastrointestinal tract.

Sponsor: Food Allergy Initiative 07/2008-06/2009

Role: Principal Investigator

Title: **TSLP and allergenic dendritic cells in the gut: role in food allergy**

The aim of this project is to determine the role of TSLP in human food allergic disease.

R21 DK071576-01 08/2005-07-2007

Role: Principal Investigator

Title: **Gut Dendritic Cells and Allergic Sensitization**

The major goals of this project were to determine the role of dendritic cell subsets and gastrointestinal lymphoid environment in the development of allergic sensitization to food allergens in mice.

## **L. PUBLICATIONS (125 Total)**

### **Original Peer-Reviewed Articles**

1. Berin MC, Lozano-Ojalvo D, Agashe C, Baker MG, Bird JA, Nowak-Wegrzyn A. Acute FPIES reactions are associated with an IL-17 inflammatory signature. *J Allergy Clin Immunol*. 2021 Apr 20:S0091-6749(21)00650-3. doi: 10.1016/j.jaci.2021.04.012. Epub ahead of print. PMID: 33891982.
2. Chen X, Berin MC, Gillespie VL, Sampson HA, Dunkin D. Treatment of Intestinal Inflammation With Epicutaneous Immunotherapy Requires TGF- $\beta$  and IL-10 but Not Foxp3<sup>+</sup> Tregs. *Front Immunol*. 2021 Feb 26;12:637630. doi: 10.3389/fimmu.2021.637630. PMID: 33717186; PMCID: PMC7952322.
3. Scurlock AM, Burks AW, Sicherer SH, Leung DYM, Kim EH, Henning AK, Dawson P, Lindblad RW, Berin MC, Cho CB, Davidson WF, Plaut M, Sampson HA, Wood RA, Jones SM; Consortium for Food Allergy Research (CoFAR). Epicutaneous immunotherapy for treatment of peanut allergy: Follow-up from the Consortium for Food Allergy Research. *J Allergy Clin Immunol*. 2020 Dec 5:S0091-6749(20)31701-2. doi: 10.1016/j.jaci.2020.11.027. Epub ahead of print. PMID: 33290772.
4. Colicino, E., Cowell, W., Bozack, A., Foppa Pedretti, N., Joshi, A., Niedzwiecki, M. M., Bollati, V., Berin, C., Wright, R. O., & Wright, R. J. (2020). Association between prenatal immune phenotyping and cord blood leukocyte telomere length in the PRISM pregnancy

cohort. *Environmental research*, 191, 110113. Advance online publication.

<https://doi.org/10.1016/j.envres.2020.110113>

5. Kim, E. H., Perry, T. T., Wood, R. A., Leung, D., Berin, M. C., Burks, A. W., Cho, C. B., Jones, S. M., Scurlock, A., Sicherer, S. H., Henning, A. K., Dawson, P., Lindblad, R. W., Plaut, M., Sampson, H. A., & Consortium for Food Allergy Research (CoFAR) (2020). Induction of sustained unresponsiveness after egg oral immunotherapy compared to baked egg therapy in children with egg allergy. *The Journal of allergy and clinical immunology*, S0091-6749(20)30810-1. Advance online publication. <https://doi.org/10.1016/j.jaci.2020.05.040>
6. Benede S, Tordesillas L, Berin C. Demonstration of distinct pathways of mast cell-dependent inhibition of Treg generation using murine bone marrow-derived mast cells. *Allergy*. 2020 Mar 9. doi: 10.1111/all.14267. PubMed PMID: 32147829.
7. Cowell W, Colicino E, Lee AG, Bosquet Enlow M, Flom JD, Berin C, Wright RO, Wright RJ. Data-driven discovery of mid-pregnancy immune markers associated with maternal lifetime stress: results from an urban pre-birth cohort. *Stress*. 2019 Nov 9:1-10. doi: 10.1080/10253890.2019.1686612. [Epub ahead of print] PubMed PMID: 31664889.
8. Gowthaman U, Chen JS, Zhang B, et al. Identification of a T follicular helper cell subset that drives anaphylactic IgE. *Science*. 2019;365(6456):eaaw6433. doi:10.1126/science.aaw6433
9. Tordesillas L, Lozano-Ojalvo D, Dunkin D, Mondoulet L, Agudo J, Merad M, Sampson HA, Berin MC. PDL2(+) CD11b(+) dermal dendritic cells capture topical antigen through hair follicles to prime LAP(+) Tregs. *Nature communications*. 2018;9(1):5238. Epub 2018/12/12. doi: 10.1038/s41467-018-07716-7. PubMed PMID: 30531969; PMCID: PMC6286332.
10. Shan M, Carrillo J, Yeste A, Gutzeit C, Segura-Garzon D, Walland AC, Pybus M, Grasset EK, Yeiser JR, Matthews DB, van de Veen W, Comerma L, He B, Boonpiyathad T, Lee H, Blanco J, Osborne LC, Siracusa MC, Akdis M, Artis D, Mehandru S, Sampson HA, Berin MC, Chen K, Cerutti A. Secreted IgD Amplifies Humoral T Helper 2 Cell Responses by Binding Basophils via Galectin-9 and CD44. *Immunity*. 2018;49(4):709-24 e8. Epub 2018/10/07. doi: 10.1016/j.immuni.2018.08.013. PubMed PMID: 30291028.
11. Benede S, Cody E, Agashe C, Berin MC. Immune Characterization of Bone Marrow-Derived Models of Mucosal and Connective Tissue Mast Cells. *Allergy Asthma Immunol Res*. 2018;10(3):268-77. Epub 2018/04/21. doi: 10.4168/aair.2018.10.3.268. PubMed PMID: 29676074; PMCID: PMC5911446.
12. Berin MC\*, Grishin A\*, Masilamani M\*, Leung DYM, Sicherer SH, Jones SM, Burks AW, Henning AK, Dawson P, Grabowska J, Agashe C, Davidson WF, Wood RA, Sampson HA. Egg-specific IgE and basophil activation but not egg-specific T-cell counts correlate with phenotypes of clinical egg allergy. *The Journal of allergy and clinical immunology*. 2018;142(1):149-58 e8. Epub 2018/03/09. doi: 10.1016/j.jaci.2018.01.044. PubMed PMID: 29518422; PMCID: PMC6282170. \* Equal contribution.
13. Chiang D\*, Chen X\*, Jones SM, Wood RA, Sicherer SH, Burks AW, Leung DYM, Agashe C, Grishin A, Dawson P, Davidson WF, Newman L, Sebra R, Merad M, Sampson HA, Losic B\*, Berin MC\*. Single-cell profiling of peanut-responsive T cells in patients with peanut allergy reveals heterogeneous effector TH2 subsets. *The Journal of allergy and clinical immunology*. 2018;141(6):2107-20. Epub 2018/02/07. doi: 10.1016/j.jaci.2017.11.060. PubMed PMID: 29408715; PMCID: PMC5994177. \* Equal contribution.

14. Benede S, Berin MC. Mast cell heterogeneity underlies different manifestations of food allergy in mice. *PLoS One*. 2018;13(1):e0190453. doi: 10.1371/journal.pone.0190453. PubMed PMID: 29370173; PMCID: PMC5784907.
15. Tordesillas L, Cubells-Baeza N, Gomez-Casado C, Berin C, Esteban V, Barcik W, O'Mahony L, Ramirez C, Pacios LF, Garrido-Arandia M, Diaz-Perales A. Mechanisms underlying induction of allergic sensitization by Pru p 3. *Clin Exp Allergy*. 2017;47(11):1398-408. doi: 10.1111/cea.12962. PubMed PMID: 28618148; PMCID: PMC5659917.
16. Dunkin D, Berin MC, Mondoulet L, Tobar S, Yeretssian G, Tordesillas L, Iuga A, Larcher T, Guillespie V, Benhamou PH, Colombel JF, Sampson HA. Epicutaneous Tolerance Induction to a Bystander Antigen Abrogates Colitis and Ileitis in Mice. *Inflamm Bowel Dis*. 2017 23(11):1972-1982.
17. Agashe C, Chiang D, Grishin A, Masilamani M, Jones SM, Wood RA, Sicherer SH, Burks AW, Leung DYM, Dawson P, Sampson HA, Berin MC. Impact of granulocyte contamination on PBMC integrity of shipped blood samples: Implications for multi-center studies monitoring regulatory T cells. *J Immunol Methods*. 2017 449:23-27.
18. Nowak-Węgrzyn A, Chehade M, Groetch ME, Spergel JM, Wood RA, Allen K, Atkins D, Bahna S, Barad AV, Berin C, Brown Whitehorn T, Burks AW, Caubet JC, Cianferoni A, Conte M, Davis C, Fiocchi A, Grimshaw K, Gupta R, Hofmeister B, Hwang JB, Katz Y, Konstantinou GN, Leonard SA, Lightdale J, McGhee S, Mehr S, Sopo SM, Monti G, Muraro A, Noel SK, Nomura I, Noone S, Sampson HA, Schultz F, Sicherer SH, Thompson CC, Turner PJ, Venter C, Westcott-Chavez AA, Greenhawt M. International consensus guidelines for the diagnosis and management of food protein-induced enterocolitis syndrome: Executive summary-Workgroup Report of the Adverse Reactions to Foods Committee, American Academy of Allergy, Asthma & Immunology. *J Allergy Clin Immunol*. 2017 139:1111-1126.e4.
19. Seppo AE, Savilahti EM, Berin MC, Sampson HA, Jarvinen KM. Breast milk IgA to foods has different epitope specificity than serum IgA-Evidence for entero-mammary link for food-specific IgA? *Clin Exp Allergy*. 2017;47(10):1275-84. doi: 10.1111/cea.12945. PubMed PMID: 28449395.
20. Goswami R, Blazquez AB, Kosoy R, Rahman A, Nowak-Węgrzyn A, Berin MC. Systemic innate immune activation in food protein-induced enterocolitis syndrome. *J Allergy Clin Immunol*. 2017 Feb 10. pii: S0091-6749(17)30219-1. doi:10.1016/j.jaci.2016.12.971.
21. Jones, S. M., S. H. Sicherer, A. W. Burks, D. Y. M. Leung, R. W. Lindblad, P. Dawson, A. K. Henning, M. C. Berin, D. Chiang, B. P. Vickery, R. D. Pesek, C. B. Cho, W. F. Davidson, M. Plaut, H. A. Sampson and R. A. Wood. Epicutaneous immunotherapy for the treatment of peanut allergy in children and young adults. *J Allergy Clin Immunol*, 2017 Apr;139(4):1242-1252.e9.
22. Kosoy R, Agashe A, Grishin A, Leung DY, Wood RA, Sicherer SH, Jones SM, Burks AW, Davidson WF, Lindblad RW, Dawson P, Merad M, Kidd BA, Dudley JT, Sampson HA, Berin MC. Transcriptional Profiling of Egg Allergy and Relationship to Disease Phenotype. *PLoS One*. 2016 Oct 27;11(10):e0163831.
23. Tordesillas L, Rahman AH, Hartmann B, Sampson HA, Berin MC. Mass cytometry profiling the response of basophils and the complete peripheral blood compartment to peanut. *J Allergy Clin Immunol*, 2016, Dec;138(6):1741-1744.e9.

24. Tordesillas L, Mondoulet L, Blazquez AB, Benhamou PH, Sampson HA, Berin MC. Allergen-specific LAP<sup>+</sup> Tregs originating in the skin migrate to the intestine and suppress food-induced anaphylaxis. *J Allergy Clin Immunol*, 2016 Jun 11. pii:S0091-6749(16)30429-8. \*F1000 Recommended article.
25. Caubet JC, Bencharitiwong R, Ross A, Sampson HA, Berin MC, Nowak-Wegrzyn A. Humoral and cellular responses to casein in food protein induced enterocolitis to cow's milk. *Journal of Allergy and Clinical Immunology*, 2017, 139(2):572-583.
26. Tobar S, Tordesillas L, Berin MC. Triclosan promotes epicutaneous sensitization to peanut. *Clinical and Translational Allergy*. 2016, 6:13, DOI: 10.1186/s13601-016-0102-2
27. Rahman AH, Tordesillas L, Berin MC. Heparin reduces nonspecific eosinophil staining artifacts in mass cytometry experiments. *Cytometry A*. 2016 Apr 6. Doi: 10.1002/cyto.a.22826. \*F1000 Recommended article.
28. Jones SM, Burks AW, Keet C, Vickery BP, Scurlock AM, Wood RA, Liu AH, Sicherer SH, Henning AK, Lindblad RW, Dawson P, Berin C, Fleischer DM, Leung DY, Plaut M, Sampson HA; Consortium of Food Allergy Research (CoFAR). Long-term treatment with egg oral immunotherapy enhances sustained unresponsiveness that persists after cessation of therapy. *J Allergy Clin Immunol*. 2016 137:1117-1127.e10.
29. Gregory JA, Shepley-McTaggart A, Umpierrez M, Hurlburt BK, Maleki SJ, Sampson H, Mayfield S, Berin MC. Immunotherapy using algal-produced Ara h1 core domain suppresses peanut allergy in mice. *Plant Biotechnology J*, 2016. 14:1541-50.
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31. Järvinen KM, Suárez-Fariñas M, Savilahti E, Sampson HA, Berin MC. Immune factors in breast milk related to infant milk allergy are independent of maternal atopy. *J Allergy Clin Immunol*. 2015 135:1390-3.e1-6
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#### Peer-reviewed protocols

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#### Invited Review Articles

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97. Steele L, Mayer L, Berin MC. Mucosal immunology of tolerance and allergy in the gastrointestinal tract. *Immunol Res* 2012; 54:75-82.
98. Berin MC. Mechanisms of allergic sensitization to foods: bypassing immune tolerance pathways. *Immunology and Allergy Clinics of North America*. 32:1-10, 2012.
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102. Berin MC and Shreffler WG. Th2 adjuvants: implications for food allergy. *J Allergy Clin Immunol*, 121: 1311-20, 2008.
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104. Berin MC. The Role of TARC in the Pathogenesis of Allergic Asthma. *Drug News and Perspectives*, 15: 10-16, 2002.
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### Editorials/Commentaries

107. Lozano-Ojalvo D, Tyler SR, Berin MC. Is the plasticity of the Th17 subset a key source of allergenic Th2 responses? *Allergy*. 2021 Apr 30. doi: 10.1111/all.14888. Epub ahead of print. PMID: 33930200.
108. Berin MC. Dysbiosis in food allergy and implications for microbial therapeutics. *J Clin Invest*. 2021 Jan 19;131(2):e144994. doi: 10.1172/JCI144994. PMID: 33463542; PMCID: PMC7810494.
109. Nowak-Wegrzyn A, Berin MC, Sicherer SH, Burks AW. Legends of allergy and immunology: Hugh A. Sampson. *Allergy*. 2020 Jun;75(6):1519-1521. doi: 10.1111/all.14094. Epub 2019 Dec 10. PMID: 31659757.
110. Berin MC. Bugs versus bugs: probiotics, microbiome and allergy. *Int Arch Allergy Immunol*. 2014;163(3):165-7.
111. Berin MC and Wright RJ. Unlocking the stress-allergy puzzle: Need for a more comprehensive stress model. *Annals Allergy Asthma Immunol*. 2014; 113:1-2.

### Book Chapters

112. Lozano-Ojalvo, D and Berin C. Mucosal Immunology: An Overview. In *Pediatric Allergy: Principles and Practice*, 4<sup>th</sup> Ed. Eds. Leung D, Akdis C, Bacharier L, Cunningham-Rundles C, Sicherer S, Sampson, H. 2020

113. Berin MC and Aceves SS. GI Mucosal Immunology. In: Middleton's Allergy: Principles and Practice, 9th Edition. Eds. Burks W, Holgate S, O'Hehir R, Bacharier L, Broide D, Hershey G, Peebles S. 2019.
114. Berin MC and Tordesillas L. Food Allergy. In: Kuipers, EJ (ed.) Encyclopedia of Gastroenterology, 2nd edition. vol. 2, pp. 443-449. Oxford: Academic Press. 2020. Pp443-449.
115. Berin MC and Chehade M. Mucosal Immunology: An Overview. In: Pediatric Allergy, 3rd Edition. Eds. Leung DMY, Sampson HA, Geha R, and Szeffler SJ. Elsevier, London. 2015. pp 365-370.
116. Berin MC and Sampson HA. IgE-Mediated Food Allergy. In: Mucosal Immunology, 4th Edition. Eds. Mestecky J, Strober W, Russell MW, Kelsall BL, Cheroutre H, Lambrecht BN. Elsevier, 2015. pp. 1649-1660.
117. Berin MC and Masilamani M. Experimental Approaches to the Study of Food Allergy. In: Food Allergy: Adverse Reactions to Food and Food Additives, 5th Edition. Eds. Metcalfe DD, Sampson H, and Simon RA. Blackwell Publishing Ltd, Oxford. 2014. pp 547-555.
118. Steele L and Berin MC. Immunologic Tolerance. In: Food Allergy: Adverse Reactions to Food and Food Additives, 5th Edition. Eds. Metcalfe DD, Sampson H, and Simon RA. Blackwell Publishing Ltd, Oxford. 2014. pp 100-109.
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122. Berin MC and Sampson HA. Food Allergy: Immunophysiology. In: Mucosal Immunology, 3rd Edition. Eds. Mestecky J, Bienenstock J, Lamm ME, Mayer L, McGhee JR, and Strober W. Elsevier, London. 2005. pp 1335-1351.
123. Berin MC. Food Intolerance. In: Encyclopedia of Gastroenterology. Ed. Johnson, LR. Academic Press, San Diego. 2003. pp 57-59
124. Berin MC. Food Allergy. In: Encyclopedia of Gastroenterology. Ed. Johnson, LR. Academic Press, San Diego. 2003. pp. 47-50
125. Berin MC, Yang P-C, Yu LCH, Perdue MH. Epithelial Transport Changes in Experimental Inflammation. In: Intestinal Mucosa and Its Diseases: Pathophysiology and Clinics. Eds. Domschke W, Stoll R, Brasitus TA, Kagnoff MF. Kluwer Academic Publishers, Dordrecht. 1999. pp 21-38.

### **M. INVITED LECTURES**

#### **SEMINARS**

- 01/2020: *Immunology of allergy and tolerance to foods*  
Allergy/Immunology Grand Rounds  
Northwell Medical Center, Great Neck, NY
- 06/2019: *Immune mechanisms of food allergy: lessons from pediatric cohorts.*

- Immunology, infection, inflammation and transplantation (I3T) retreat  
UCLA
- 05/2019: *Skin-gut communication in food allergy*  
Indianapolis University – Purdue University Indianapolis  
Microbiology and Immunology
- 02/2018: *Role of the skin in sensitization and tolerance to foods*  
Massachusetts General Hospital  
Immunology Research Group
- 11/2017: *Immune mechanisms of allergy and tolerance to foods*  
SickKids, Toronto, Canada  
Allergy and Immunology
- 08/2017: *Profiling the allergic response to foods in pediatric cohorts*  
Columbia University  
Pediatric Gastroenterology
- 04/2017: *Immune mechanisms of allergy and tolerance to foods*  
Rochester University  
Allergy and Immunology
- 11/2016: *Immunology of Food Allergy: learning from patients*  
McMaster University  
Immunology and Infection Program, Department of Pathology
- 10/2016: *Immune profiling the allergen-specific immune response in pediatric cohorts*  
Yale University  
Human and Translational Immunology Seminar Series
- 04/2012: *Central role of the intestinal epithelium in food allergy*  
Cincinnati Children’s Hospital Medical Center  
Allergy and Immunology
- 12/2011: *Induction, pathophysiology, and resolution of food allergy*  
Trudeau Institute, Saranac Lake, NY
- 12/2011: *Induction, pathophysiology, and resolution of food allergy*  
University of Connecticut Health Sciences Center  
Department of Immunology
- 10/2011: *How can immune tolerance be restored in food allergy?*  
Massachusetts General Hospital, Charlestown, MA  
Mucosal Immunology Laboratory
- 06/2011: *Mucosal Immunology of allergy and tolerance in the gastrointestinal tract*  
University of Manitoba, Winnipeg, MB  
Department of Immunology
- 01/2011: *Mechanisms of allergic sensitization and tolerance to food proteins at mucosal sites*  
Northwestern University, Chicago, IL  
Division of Allergy/Immunology
- 10/2010: *Mechanisms of allergic sensitization and tolerance to food proteins at mucosal sites*  
Duke University, Durham, NC

- 07/2010: Department of Immunology  
*Mucosal Immunology of Food Allergic Disorders*  
Queen's University, Kingston, Ontario  
Gastrointestinal Diseases Research Unit (GIDRU)
- 02/2009: *Epithelial-Dendritic Cell Communication in Food Allergic Disorders*  
Medical College of Wisconsin, Milwaukee, WI  
Department of Microbiology and Molecular Genetics
- 12/2007: *Immune Mechanisms of Gastrointestinal Food Hypersensitivities*  
National Taiwan University, Taipei, Taiwan  
Department of Physiology
- 10/2007: *Mucosal Immunology of Food Allergy* Center for Molecular Biology  
and Biotechnology,  
Florida Atlantic University, Boca Raton, FL.
- 06/2004: *Antigen Handling in the Intestinal Mucosa: How does a Food Antigen become a  
Food Allergen?*  
McMaster University, Hamilton, Canada.  
Intestinal Disease Research Program 05/2002: *Central Role of Intestinal  
Epithelial Cells in Allergic Inflammation: Regulation of Antigen Trafficking and Th2-Chemokine  
Release*  
University of Münster, Münster, Germany.  
Department of Medicine

#### **NATIONAL AND INTERNATIONAL MEETINGS**

- 02/2021: *Role of T cells in Tolerance to Foods*  
AAAAI 2021 Virtual Meeting
- 10/2020: *Immune Processes in IgE and non-IgE Mediated Food Allergy*  
FAAM – EUROBAT Digital 2020
- 07/2020: *Immune Mechanisms of Food Allergy and Oral Tolerance*  
EAACI Food Allergy Interest Group Business Meeting
- 10/2019: *Food immunotherapy: new evidence on mechanisms*  
Pediatric Allergy and Asthma Meeting  
Florence, Italy
- 09/2019: *The role of omalizumab in food allergy*  
Food Allergy: From Primary Prevention to Treatment and Intervention (AAAAI)  
Chicago, USA
- 06/2019: *Introductory lecture: Mechanisms of oral tolerance development*  
Basic and Clinical Immunology Section  
EAACI, Lisbon, Portugal
- 03/2019: *Novel Therapies in Development*  
Presidential Plenary Symposium: Optimal Care of the Food Allergic Patient  
AAAAI, San Francisco, CA
- 06/2018: *Keynote Lecture: Immune profiling of pediatric allergic cohorts*  
ImpARAS Congress, Naples, Italy

- 05/2018: *Introductory Lecture: Skin exposure promotes sensitization to food allergens: Laboratory and Clinical Evidence*  
Dermatology Section  
EAACI Annual meeting, Munich, Germany
- 05/2018: *Heterogeneity of food-specific T cells and relationship to clinical phenotype*  
NIAID Symposium: Tracking T and B Lymphocytes in Allergic Disease: State of the Art  
EAACI Annual meeting, Munich, Germany
- 01/2018: *Generation of intestinal tolerance through the skin.*  
Meeting: Gordon Research Conference on Food Allergy, Ventura, CA.
- 12/2017: *Immune profiling of pediatric food allergic cohorts.*  
Meeting: Food Allergy Science Initiative, Boston, MA.
- 06/2016: *Profiling Food Allergen - Specific Immune Response in Pediatric Cohorts.*  
Meeting: Federation of Clinical Immunology Societies (FOCIS), Boston, MA.
- 03/2016: *T Cell Response to Food Allergens: A Fine Balance Between Tolerance and Allergy*  
Meeting: American Academy of Allergy Asthma & Immunology, Los Angeles, CA
- 03/2016: *Insights from New Mechanistic Studies in Food Allergy*  
Meeting: American Academy of Allergy Asthma & Immunology, Los Angeles, CA
- 11/2015: *The Role of Microbiota In Food Allergy: State Of The Clinical Evidence.*  
Meeting: Boston Children's Hospital/Massachusetts General Hospital Joint Symposium. "The Gut Microbiome in Health and Disease".
- 02/2015: *Profiling the Human Egg Allergic Immune Response.*  
Meeting: American Academy of Allergy Asthma & Immunology, Houston, TX
- 02/2015: *Using Microbiome Analysis to Guide the Next Generation of Probiotics for Prevention and Treatment of Food Allergy or Atopic Dermatitis*  
Meeting: American Academy of Allergy Asthma & Immunology, Houston, TX
- 05/2014: *Regulation of tolerance and allergy to foods.*  
*Induction of tolerance to foods through immunotherapy: lessons from mouse models.*  
Meeting: Japanese Society of Allergology, Kyoto, Japan.
- 03/2014: *Immunity and B cells in the gut: from immune exclusion to food allergy.*  
Meeting: American Academy of Allergy Asthma & Immunology, San Diego, CA.
- 11/2013: *Mechanisms of allergic sensitization to foods: Implications for immune tolerance based therapy.*  
Meeting: New England Immunology Conference, Woods Hole, MA.
- 03/2013: *Mechanisms of Primary Sensitization to Food Allergens Through the Skin.*  
Meeting: American Academy of Allergy Asthma & Immunology, San Antonio, TX
- 02/2013: *The Role of the Gastrointestinal And Oral Mucosal In Oral Immunotherapy.*  
Meeting: Food Allergy and Anaphylaxis Meeting (FAAM), Nice, France.
- 03/2012: *Experimental Approaches to the Study of Food Allergy*  
Meeting: American Academy of Allergy Asthma & Immunology  
Orlando, FL
- 03/2012: *Epithelial Cell and Dendritic Cell Handling of Food Antigens at the Mucosa*  
Meeting: American Academy of Allergy Asthma & Immunology

- Orlando, FL
- 10/2011: *Development of the GI immune system and oral tolerance*  
Meeting: EAACI Pediatric Allergy and Immunology Conference.  
Barcelona, Spain
- 11/2009: *Overview of Mucosal Immunology*  
Meeting: EAACI Pediatric Allergy and Immunology Conference.  
Venice, Italy.
- 09/2009: *Mast Cells, IgE, and the Epithelial Barrier*  
Meeting: Neuroimmunophysiology of the Gastrointestinal Mucosa.  
Banff, Canada.
- 04/2009: *Antibody-facilitated antigen sampling across mucosal barriers*  
Meeting: Experimental Biology 2009  
New Orleans, LA.
- 09/2005: *Antibody-Mediated Antigen Sampling Across Intestinal Epithelial Barriers*  
Meeting: New York Academy of Sciences International Symposium.  
“Inflammatory Bowel Disease: Research Drives Clinics”. Muenster, Germany

#### **EDUCATION/WEBINARS**

- 05/2020: “Future Outlook of Therapies”, in the “Creating a Better Future” Webinar Series,  
Food Allergy Canada.