



## Stephen J. Galli, MD

Mary Hewitt Loveless, MD, Professor in the School of Medicine and Professor of Pathology and of Microbiology and Immunology

### Bio

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#### BIO

In 1999, I became chair of the Department of Pathology (and finished my tenure in that role on April 30, 2016), the Mary Hewitt Loveless, MD Professor, and a professor of pathology and of microbiology and immunology at Stanford University School of Medicine. I am also a member of the Executive Committee of the Stanford Institute for Immunity, Transplantation and Infection. From 2009-2016, while chair of pathology, I also was Co-Director of the Stanford Center for Genomics and Personalized Medicine.

I received a BA in biology in 1968 from Harvard College, a BMS in 1970 from Dartmouth Medical School (then a two year school) and the MD in 1973 from Harvard Medical School (HMS), and completed a residency and chief residency in Anatomic Pathology at Massachusetts General Hospital (MGH) in 1977. After postdoctoral training with Harold F. Dvorak at MGH, I joined the HMS faculty in 1979 as assistant professor of pathology, became professor of pathology in 1993, and, until moving to Stanford, served as director of the Division of Experimental Pathology at Beth Israel Deaconess Medical Center and a member of the HMS Committee on Immunology.

My research focuses on the development and function of mast cells and basophils (major effector cells in allergic disorders) and the development of new animal models for studying the roles of these cells in health and disease. I have particular interests in the roles of these cells in anaphylaxis, food allergies, and asthma, and in the roles of mast cells and IgE in innate and acquired host defense against venoms.

#### ACADEMIC APPOINTMENTS

- Professor, Pathology
- Professor, Microbiology & Immunology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

#### ADMINISTRATIVE APPOINTMENTS

- Chair, Stanford University School of Medicine - Pathology, (1999-2016)

#### HONORS AND AWARDS

- Dottorato di Ricerca Honoris Causa in Medicina Clinica e Sperimentale (Honorary PhD), University of Naples Federico II (2019)
- Karl Landsteiner Medal, Austrian Society of Allergology and Immunology (2014)

- Rous-Whipple Award, American Society for Investigative Pathology (2014)
- Scientific Achievement Award, World Allergy Organization (2011)
- Faculty Mentor Award for Postdoctoral Education, Immunology Program, Stanford University School of Medicine (2010)
- President's Award for Excellence Through Diversity, Stanford University (2010)
- Highly Cited Researcher (Immunology), ISI Highly Cited (2006)
- Scientific Achievement Award, International Association of Allergy & Clinical Immunology (1997)
- MERIT Award (AI/CA 23990, "Regulation of mast cell development and function"), NIAID/NIH (1995-2006)
- Karin Grunebaum Cancer Research Foundation Fellowship, Harvard Medical School (1971-1972)
- B.M.S. with honors, Dartmouth Medical School (1970)
- B.A., magna cum laude in Biology, Harvard College (1968)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Foreign Member, Società Nazionale di Scienze, Lettere e Arti (2019 - present)
- Member, Sigma Xi (2017 - present)
- Overseas Fellow, Royal Society of Medicine (London) (2017 - present)
- Fellow, Center for Innovation in Global Health, Stanford University (2016 - present)
- Member, American Clinical and Climatological Association (2015 - present)
- Member, National Allergy and Infectious Diseases Council of the National Institutes of Health (2014 - 2019)
- Board of Consulting Editors, Journal of Clinical Investigation (2012 - present)
- Member, National Academy of Medicine (2010 - present)
- Editorial Board, The Annual Review of Pathology: Mechanisms of Disease (2004 - present)
- Foreign Member in the Physical, Mathematical, and Natural Sciences Class, Accademia Nazionale dei Lincei (2001 - present)
- Editorial Board, Laboratory Investigation (1997 - present)
- Member, Association of American Physicians (1997 - present)
- Advisory Editor, Journal of Experimental Medicine (1993 - 2011)
- Member, American Society for Clinical Investigation (1991 - present)
- Member; Past: President, Pluto Club (Association of University Pathologists (1986 - present)
- Member of Council; Past: President, Vice President, Secretary, Collegium Internationale Allergologicum (1984 - present)
- Member; Past: President, Vice President, American Society for Investigative Pathology (1982 - present)
- Member, American Association of Immunologists (1980 - present)
- Fellow, American Association for the Advancement of Science (1975 - present)

## **LINKS**

- Galli Lab: <http://gallilab.stanford.edu/>

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

Mast cells, which normally reside in the tissues, and basophils, which circulate in the blood, are major effector cells of asthma and other IgE-associated allergic disorders (e.g., anaphylaxis, food allergy, allergic rhinitis, atopic dermatitis, and asthma) and in immune responses to parasites. However, mast cells also have been implicated (as effector and/or immunoregulatory cells) in many other settings.

For example, our lab has shown that mast cells can enhance innate and acquired immune responses that help to reduce the toxicity and mortality induced by arthropod and reptile venoms, which may represent a major evolutionary benefit of mast cells (and IgE antibodies). There also is evidence that mast cells can contribute to host responses to pathogens other than parasites, such as bacteria and viruses, and can have potential beneficial or harmful effects in diverse immunological or inflammatory disorders that are not thought to involve IgE. Finally, mast cells have been implicated in many processes that maintain homeostasis or regulate tissue remodeling, such as angiogenesis, wound healing, the regulation of epithelial and mesenchymal cell development and function, and interactions with sensory nerves.

The goals of Dr. Galli's laboratory are to develop and employ genetic approaches in mice to understand the regulation of mast cell and basophil development and the expression of mast cell and basophil function, and to elucidate the roles of these cells in health and disease. In parallel with these mouse studies, we investigate the roles of mast cells and basophils in human health and disease by conducting studies of human mast cells and basophils in vitro, or by analyzing specimens derived from patients with food allergy, asthma, atopic dermatitis, or other disorders in which mast cells or basophils have been implicated.

In addition to studies focused on mast cells and basophils, the Galli lab also analyzes immunological mechanisms which underlie the development of severe allergies, such as those to certain foods, and the immunological regulatory mechanisms that can be engaged therapeutically to reduce the severity of these disorders or ameliorate them, e.g., via the induction of desensitization or tolerance. Finally, we are attempting to define "biomarkers", such as changes in the levels of surface structures on circulating basophils, which can be used to monitor the severity of allergic disorders and/or the patients' responses to immunotherapy or other therapeutic interventions.

## Teaching

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### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Nora Vivanco Gonzalez

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Microbiology and Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **An optimized protocol for phenotyping human granulocytes by mass cytometry.** *STAR protocols*  
Vivanco Gonzalez, N., Oliveria, J., Tebaykin, D., Ivison, G. T., Mukai, K., Tsai, M. M., Borges, L., Nadeau, K. C., Galli, S. J., Tsai, A. G., Bendall, S. C.  
2022; 3 (2): 101280
- **Dynamin Related Protein 1 Differentially Regulates FcepsilonRI- and SP-induced Mast Cell Activation.** *The Journal of allergy and clinical immunology*  
Wang, Y., Yu, M., Matsushita, K., Liu, C., Ishihara, N., Nomura, M., Tsai, M., Galli, S. J.  
2022
- **KIT as a master regulator of the mast cell lineage.** *The Journal of allergy and clinical immunology*  
Tsai, M., Valent, P., Galli, S. J.  
2022
- **Exponential magnetophoretic gradient for the direct isolation of basophils from whole blood in a microfluidic system.** *Lab on a chip*  
Castano, N., Kim, S., Martin, A. M., Galli, S. J., Nadeau, K. C., Tang, S. K.  
2022
- **Drug-Induced Mast Cell Eradication: A Novel Approach to Treat Mast Cell Activation Disorders?** *The Journal of allergy and clinical immunology*  
Valent, P., Akin, C., Hartmann, K., Reiter, A., Gotlib, J., Sotlar, K., Sperr, W. R., Degenfeld-Schonburg, L., Smiljkovic, D., Triggiani, M., Horny, H., Arock, M., Galli, et al

2022

- **Development of Basophil Activation Test (BAT)-based point-of-care diagnostic tool for allergies**  
Ha, J., Castano, N., Cansdale, S., Vel, M., Tang, S., Tsai, M., Nadeau, K., Galli, S.  
MOSBY-ELSEVIER.2022: AB48
- **Gastrointestinal T cells reveal differentially expressed transcripts and enriched pathways during peanut oral immunotherapy.** *Allergy*  
Zhang, W., Krishna Dhondalay, G., Liu, T. A., Kaushik, A., Hoh, R., Kwok, S., Kambham, N., Fernandez-Becker, N. Q., Andorf, S., Desai, M., Galli, S. J., Boyd, S. D., Nadeau, et al  
2022
- **Mast cells partly contribute to allergic enteritis development: findings in two different mast cell-deficient mice.** *Allergy*  
Blanco-Perez, F., Gonzalez-Menendez, I., Stassen, M., Kato, Y., Laino, J., Kirberg, J., Krause, M., Martella, M., Shibata, N., Quintanilla-Martinez, L., Feyerabend, T. B., Rodewald, H., Galli, et al  
2021
- **Updated Diagnostic Criteria and Classification of Mast Cell Disorders: A Consensus Proposal.** *HemaSphere*  
Valent, P., Akin, C., Hartmann, K., Alvarez-Twose, I., Brockow, K., Hermine, O., Niedoszytko, M., Schwaab, J., Lyons, J. J., Carter, M. C., Elberink, H. O., Butterfield, J. H., George, et al  
2021; 5 (11): e646
- **The longitudinal basophil activation tests predict long-term safety and efficacy of peanut OIT therapy**  
Cao, S., Tsai, M., Mukai, K., Tibshirani, R., Sindher, S., Nadeau, K. C., Galli, S. J., Chinthrajah, R. S.  
WILEY.2021: 7
- **Updated Diagnostic Criteria and Classification of Mast Cell Disorders: A Consensus Proposal** *HEMASPHERE*  
Valent, P., Akin, C., Hartmann, K., Alvarez-Twose, I., Brockow, K., Hermine, O., Niedoszytko, M., Schwaab, J., Lyons, J. J., Carter, M. C., Elberink, H., Butterfield, J. H., George, et al  
2021; 5 (11)
- **Neutrophil-specific gain-of-function mutations in Nlrp3 promote development of cryopyrin-associated periodic syndrome.** *The Journal of experimental medicine*  
Stackowicz, J., Gaudenzio, N., Serhan, N., Conde, E., Godon, O., Marichal, T., Starkl, P., Balbino, B., Roers, A., Bruhns, P., Jonsson, F., Moguelet, P., Georgin-Lavialle, et al  
2021; 218 (10)
- **Assessment of Allergic and Anaphylactic Reactions to mRNA COVID-19 Vaccines With Confirmatory Testing in a US Regional Health System.** *JAMA network open*  
Warren, C. M., Snow, T. T., Lee, A. S., Shah, M. M., Heider, A., Blomkalns, A., Betts, B., Buzzanco, A. S., Gonzalez, J., Chinthrajah, R. S., Do, E., Chang, I., Dunham, et al  
2021; 4 (9): e2125524
- **The role of Sp140 revealed in IgE and mast cell responses in Collaborative Cross mice.** *JCI insight*  
Matsushita, K., Li, X., Nakamura, Y., Dong, D., Mukai, K., Tsai, M., Montgomery, S. B., Galli, S. J.  
2021; 6 (12)
- **Accurate and Reproducible Diagnosis of Peanut Allergy Using Epitope Mapping.** *Allergy*  
Suarez-Farinas, M., Suprun, M., Kearney, P., Getts, R., Grishina, G., Hayward, C., Luta, D., Porter, A., Witmer, M., du Toit, G., Lack, G., Chinthrajah, R. S., Galli, et al  
2021
- **IgE antibodies increase honeybee venom responsiveness and detoxification efficiency of mast cells.** *Allergy*  
Starkl, P., Gaudenzio, N., Marichal, T., Reber, L. L., Sibilano, R., Watzenboeck, M. L., Fontaine, F., Mueller, A. C., Tsai, M., Knapp, S., Galli, S. J.  
2021
- **Immune Changes Beyond Th2 Pathways During Rapid Multifood Immunotherapy enabled with Omalizumab.** *Allergy*  
Manohar, M., Dunham, D., Gupta, S., Yan, Z., Zhang, W., Minnicozzi, S., Kirkey, M., Bunning, B., Chowdhury, R. R., Galli, S. J., Boyd, S. D., Kost, L. E., Chinthrajah, et al  
2021
- **Proceedings from the Inaugural American Initiative in Mast Cell Diseases (AIM) Investigator Conference.** *The Journal of allergy and clinical immunology*

- Gotlib, J., George, T., Carter, M. C., Austen, K. F., Bochner, B., Dwyer, D., Lyons, J., Hamilton, M. J., Butterfield, J., Bonadonna, P., Weiler, C., Galli, S. J., Schwartz, et al  
2021
- **Basophil activation tests identify a peanut OIT subgroup with improved safety and outcomes**  
Chinthrajah, S., Cao, S., Tsai, M., Mukai, K., Tibshirani, R., Sindher, S., Nadeau, K., Galli, S.  
MOSBY-ELSEVIER.2021: AB166
  - **Transcriptome programming of IL-3-dependent bone marrow-derived cultured mast cells by stem cell factor (SCF).** *Allergy*  
Wang, Y. n., Matsushita, K. n., Jackson, J. n., Numata, T. n., Zhang, Y. n., Zhou, G. n., Tsai, M. n., Galli, S. J.  
2021
  - **Proposed Diagnostic Criteria and Classification of Canine Mast Cell Neoplasms: A Consensus Proposal.** *Frontiers in veterinary science*  
Willmann, M., Yuzbasiyan-Gurkan, V., Marconato, L., Dacasto, M., Hadzijusufovic, E., Hermine, O., Sadovnik, I., Gamperl, S., Schneeweiss-Gleixner, M., Gleixner, K. V., Bohm, T., Peter, B., Eisenwort, et al  
1800; 8: 755258
  - **Letter by Varricchi et al Regarding Article, "Role of IgE-Fc $\beta$ R1 in Pathological Cardiac Remodeling and Dysfunction".** *Circulation*  
Varricchi, G., Rengo, G., Galli, S. J.  
2021; 144 (13): e214-e215
  - **E-cadherin is regulated by GATA-2 and marks the early commitment of mouse hematopoietic progenitors to the basophil and mast cell fates.** *Science immunology*  
Wanet, A. n., Bassal, M. A., Patel, S. B., Marchi, F. n., Mariani, S. A., Ahmed, N. n., Zhang, H. n., Borchiellini, M. n., Chen, S. n., Zhang, J. n., Di Ruscio, A. n., Miyake, K. n., Tsai, et al  
2021; 6 (56)
  - **Basophil activation test shows high accuracy in the diagnosis of peanut and tree nut allergy: The Markers of Nut Allergy Study.** *Allergy*  
Duan, L., Celik, A., Hoang, J. A., Schmidthaler, K., So, D., Yin, X., Ditlof, C. M., Ponce, M., Upton, J. E., Lee, J., Hung, L., Breiteneder, H., Palladino, et al  
2020
  - **Mass Cytometry Phenotyping of Human Granulocytes Reveals Novel Basophil Functional Heterogeneity.** *iScience*  
Vivanco Gonzalez, N., Oliveria, J., Tebaykin, D., Ivison, G. T., Mukai, K., Tsai, M. M., Borges, L., Nadeau, K. C., Galli, S. J., Tsai, A. G., Bendall, S. C.  
2020; 23 (11): 101724
  - **Transcriptional changes in peanut-specific CD4 $^{+}$  T cells over the course of oral immunotherapy.** *Clinical immunology (Orlando, Fla.)*  
Wang, W., Lyu, S., Ji, X., Gupta, S., Manohar, M., Dhondalay, G. K., Chinthrajah, S., Andorf, S., Boyd, S. D., Tibshirani, R., Galli, S. J., Nadeau, K. C., Maecker, et al  
2020: 108568
  - **Repeated validation of a high performing peanut allergy diagnostic on POISED trial subjects**  
Kearney, P., Getts, R., Hayward, C., Luta, D., Porter, A., Witmer, M., Sampson, H. A., Chinthrajah, R. S., Nadeau, K., Galli, S. J.  
WILEY.2020: 530
  - **Differences in epitome response in peanut-allergic subjects treated with different immunotherapy preparations**  
Kearney, P., Getts, R., Hayward, C., Porter, A., Sampson, H., Chinthrajah, S., Galli, S. J., Nadeau, K. C., Turner, P. J., Campbell, D.  
WILEY.2020: 101
  - **Decrease in dose-related allergic reactions over time during peanut oral immunotherapy in a randomized phase 2 study**  
Chinthrajah, R. S., Long, A. J., Purington, N., Cao, S., Lyu, S., Sindher, S., Manohar, M., Boyd, S., Tibshirani, R., Maecker, H., Tsai, M., Desai, M., Galli, et al  
WILEY.2020: 253
  - **Eosinophilic gastrointestinal responses during peanut oral immunotherapy in a randomized controlled trial**  
Chinthrajah, R. S., Fernandez-Becker, N., Kambham, N., Purington, N., Cao, S., Zhang, W., Boyd, S., Manohar, M., Galli, S., Nadeau, K.  
WILEY.2020: 12–13
  - **Identification of cross-reactive allergens in cashew- and pistachio-allergic children during oral immunotherapy.** *Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology*  
He, Z., Dongre, P., Lyu, S., Manohar, M., Chinthrajah, R. S., Galli, S. J., DeKruyff, R. H., Nadeau, K. C., Andorf, S.  
2020

- **Mast cells and IgE in defense against lethality of venoms: Possible "benefit" of allergy[].** *Allergo journal international*  
Galli, S. J., Metz, M., Starkl, P., Marichal, T., Tsai, M.  
2020; 29 (2): 46–62
- **The TWEAK/Fn14 axis in anaphylactic shock.** *The Journal of allergy and clinical immunology*  
Galli, S. J.  
2020; 145 (2): 491–93
- **Sustained outcomes in oral immunotherapy for peanut allergy (POISED study): a large, randomised, double-blind, placebo-controlled, phase 2 study**  
Chinthrajah, S., Purington, N., Andorf, S., Long, A., O'Laughlin, K., Lyu, S., Manohar, M., Boyd, S., Tibshirani, R., Maecker, H., Mukai, K., Tsai, M., Desai, et al  
MOSBY-ELSEVIER.2020: AB181
- **Dose-related Allergic Reactions Decrease Over Time During Peanut Oral Immunotherapy in a Large, Randomized, Double-blind, Placebo-controlled, Phase 2 Study**  
Long, A., Purington, N., Andorf, S., O'Laughlin, K., Lyu, S., Sindher, S., Manohar, M., Boyd, S., Tibshirani, R., Maecker, H., Mukai, K., Tsai, M., Desai, et al  
MOSBY-ELSEVIER.2020: AB134
- **Peanut oral immunotherapy induces gastrointestinal eosinophilia in a longitudinal randomized controlled trial**  
Wright, B., Fernandez-Becker, N., Kambham, N., Purington, N., Cao, S., Tupa, D., Zhang, W., Rank, M., Kita, H., Katzka, D., Shim, K., Bunning, B., Doyle, et al  
MOSBY-ELSEVIER.2020: AB84
- **RNA-Seq of Gastrointestinal Biopsies During Oral Immunotherapy Reveals Changes in IgA Pathway**  
Zhang, W., Dhondalay, G., Hoh, R., Tupa, D., Bunning, B., Fernandez-Becker, N., Kambham, N., Boyd, S., Galli, S., Andorf, S., Manohar, M., Chinthrajah, S., Nadeau, et al  
MOSBY-ELSEVIER.2020: AB132
- **Butyrate inhibits human mast cell activation via epigenetic regulation of Fc $\beta$ RI-mediated signaling.** *Allergy*  
Folkerts, J. n., Redegeld, F. n., Folkerts, G. n., Blokhuis, B. n., van den Berg, M. P., de Bruijn, M. J., van IJcken, W. F., Junt, T. n., Tam, S. Y., Galli, S. J., Hendriks, R. W., Stadhouders, R. n., Maurer, et al  
2020
- **Microfluidic methods for precision diagnostics in food allergy.** *Biomicrofluidics*  
Castaño, N. n., Cordts, S. C., Nadeau, K. C., Tsai, M. n., Galli, S. J., Tang, S. K.  
2020; 14 (2): 021503
- **Mast cells as a unique hematopoietic lineage and cell system: From Paul Ehrlich's visions to precision medicine concepts.** *Theranostics*  
Valent, P., Akin, C., Hartmann, K., Nilsson, G., Reiter, A., Hermine, O., Sotlar, K., Sperr, W. R., Escribano, L., George, T. I., Kluin-Nelemans, H. C., Ustun, C., Triggiani, et al  
2020; 10 (23): 10743–68
- **Origins and clonal convergence of gastrointestinal IgE+ B cells in human peanut allergy.** *Science immunology*  
Hoh, R. A., Joshi, S. A., Lee, J. Y., Martin, B. A., Varma, S. n., Kwok, S. n., Nielsen, S. C., Nejad, P. n., Haraguchi, E. n., Dixit, P. S., Shutthanandan, S. V., Roskin, K. M., Zhang, et al  
2020; 5 (45)
- **Increased diversity of gut microbiota during active oral immunotherapy in peanut allergic adults.** *Allergy*  
He, Z. n., Vadali, V. G., Szabady, R. L., Zhang, W. n., Norman, J. M., Roberts, B. n., Tibshirani, R. n., Desai, M. n., Chinthrajah, R. S., Galli, S. J., Andorf, S. n., Nadeau, K. C.  
2020
- **A highly sensitive bioluminescent method for measuring allergen-specific IgE in microliter samples.** *Allergy*  
Goyard, S. n., Balbino, B. n., Chinthrajah, R. S., Lyu, S. C., Janin, Y. L., Bruhns, P. n., Poncet, P. n., Galli, S. J., Nadeau, K. C., Reber, L. L., Rose, T. n.  
2020
- **Mast Cells in Inflammation and Disease: Recent Progress and Ongoing Concerns.** *Annual review of immunology*  
Galli, S. J., Gaudenzio, N. n., Tsai, M. n.  
2020; 38: 49–77
- **Corrigendum: Analysis of a Large Standardized Food Challenge Data Set to Determine Predictors of Positive Outcome Across Multiple Allergens.** *Frontiers in immunology*

- Sindher, S. n., Long, A. J., Purington, N. n., Chollet, M. n., Slatkin, S. n., Andorf, S. n., Tupa, D. n., Kumar, D. n., Woch, M. A., O'Laughlin, K. L., Assaad, A. n., Pongracic, J. n., Spergel, et al  
2020; 11: 625796
- **IgE Effector Mechanisms, in Concert with Mast Cells, Contribute to Acquired Host Defense against Staphylococcus aureus.** *Immunity*  
Starkl, P. n., Watzenboeck, M. L., Popov, L. M., Zahalka, S. n., Hladik, A. n., Lakovits, K. n., Radhouani, M. n., Haschemi, A. n., Marichal, T. n., Reber, L. L., Gaudenzio, N. n., Sibilano, R. n., Stulik, et al  
2020
  - **Rapid identification of human mast cell degranulation regulators using functional genomics coupled to high-resolution confocal microscopy.** *Nature protocols*  
Folkerts, J. n., Gaudenzio, N. n., Maurer, M. n., Hendriks, R. W., Stadhouders, R. n., Tam, S. Y., Galli, S. J.  
2020
  - **Omalizumab in "non-IgE mediated" diseases.** *The Journal of allergy and clinical immunology*  
Chinthrajah, R. S., Galli, S. J.  
2020
  - **Oral Immunotherapy and Basophil and Mast Cell Reactivity in Food Allergy.** *Frontiers in immunology*  
Paranjape, A. n., Tsai, M. n., Mukai, K. n., Hoh, R. A., Joshi, S. A., Chinthrajah, R. S., Nadeau, K. C., Boyd, S. D., Galli, S. J.  
2020; 11: 602660
  - **Trends in egg specific immunoglobulin levels during natural tolerance and oral immunotherapy.** *Allergy*  
Andorf, S., Bunning, B., Tupa, D., Cao, S., Long, A. J., Borres, M. P., Galli, S. J., Chinthrajah, R. S., Nadeau, K. C.  
2019
  - **Adoptive Transfer of Basophils Enriched from Mouse Spleen** *BIO-PROTOCOL*  
Piliponsky, A. M., Galli, S. J.  
2019; 9 (21)
  - **Adoptive Transfer of Basophils Enriched from Mouse Spleen.** *Bio-protocol*  
Piliponsky, A. M., Galli, S. J.  
2019; 9 (21): e3416
  - **Conflicting verdicts on peanut OIT from the ICER and FDA Advisory Committee; where do we go from here?** *The Journal of allergy and clinical immunology*  
Eiwegger, T., Anagnostou, K., Arasi, S., Begin, P., Ben-Shoshan, M., Beyer, K., Blumchen, K., Brough, H., Caubet, J., Chan, E. S., Chen, M., Chinthrajah, S., Davis, et al  
2019
  - **Epithelial RABGEF1 deficiency promotes intestinal inflammation by dysregulating intrinsic MYD88-dependent innate signaling.** *Mucosal immunology*  
El Abbas, S., Radermecker, C., Bai, Q., Beguin, C., Schyns, J., Meunier, M., Pirottin, D., Desmet, C. J., Meuwis, M., Art, T., Louis, E., Tam, S., Tsai, et al  
2019
  - **Obituary for Teruko Ishizaka (1926-2019)** *ALLERGOLOGY INTERNATIONAL*  
Saito, H., Galli, S. J.  
2019; 68 (4): 399-400
  - **MIBI-TOF: A multiplexed imaging platform relates cellular phenotypes and tissue structure.** *Science advances*  
Keren, L., Bosse, M., Thompson, S., Risom, T., Vijayaragavan, K., McCaffrey, E., Marquez, D., Angoshtari, R., Greenwald, N. F., Fienberg, H., Wang, J., Kambham, N., Kirkwood, et al  
2019; 5 (10): eaax5851
  - **Mast cells are critical for controlling the bacterial burden and the healing of infected wounds.** *Proceedings of the National Academy of Sciences of the United States of America*  
Zimmermann, C., Troeltzsch, D., Gimenez-Rivera, V. A., Galli, S. J., Metz, M., Maurer, M., Siebenhaar, F.  
2019
  - **Future Needs in Mast Cell Biology.** *International journal of molecular sciences*  
Varricchi, G., de Paulis, A., Marone, G., Galli, S. J.  
2019; 20 (18)

- **Safety outcomes and differences in eliciting dose upon repeat oral food challenges in multi-food allergic individuals**  
Chinthrajah, R. S., Sindher, S., Long, A., Purington, N., Andorf, S., O'Laughlin, K., Woch, M. A., Scheiber, A., Assa'ad, A., Pongracic, J., Spergel, J. M., Tam, J., Tilles, et al  
WILEY.2019: 801–2
- **A phase 2 randomized controlled study using omalizumab as an adjunct therapy during multi-allergen oral immunotherapy in food allergic individuals to test long-term outcomes**  
Chinthrajah, R. S., Andorf, S., Purington, N., Kumar, D., Long, A., O'Laughlin, K., Sicherer, S., Sampson, H., Cianferoni, A., Whitehorn, T. B., Petroni, D., Makhija, M., Robison, et al  
WILEY.2019: 798–99
- **Subclinical esophageal eosinophilia is present in some peanut allergic patients**  
Chinthrajah, R. S., Purington, N., Long, A., Galli, S. J., Nadeau, K. C.  
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