



## Stephen J. Galli, MD

The Mary Hewitt Loveless, M.D. Professor in the School of Medicine and Professor of Pathology and of Microbiology and Immunology

### Bio

---

#### 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, 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**

---

### **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

---

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Luke Pennington, Nora Vivanco Gonzalez

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

## Publications

---

### PUBLICATIONS

- **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.  
WILEY.2019: 97
- **Allergen-specific skin prick testing and IgE values adjusted for cumulative tolerated dose are predictive of oral food challenge outcomes across multiple allergens**  
Sindher, S., Long, A., Purington, N., Chollet, M., Slatkin, S., Andorf, S., Tupa, D., Kumar, D., Woch, M. A., O'Laughlin, L. K., Assa'ad, A., Pongracic, J., Spergel, et al  
WILEY.2019: 150-51
- **IgE-mediated mast cell activation promotes inflammation and cartilage destruction in osteoarthritis** *ELIFE*  
Wang, Q., Lepus, C. M., Raghu, H., Reber, L. L., Tsai, M. M., Wong, H. H., von Kaepler, E., Lingampalli, N., Bloom, M. S., Hu, N., Elliott, E. E., Oliviero, F., Punzi, et al  
2019; 8
- **Meningeal Mast Cells as Key Effectors of Stroke Pathology** *FRONTIERS IN CELLULAR NEUROSCIENCE*  
Arac, A., Grimbaldeston, M. A., Galli, S. J., Bliss, T. M., Steinberg, G. K.  
2019; 13
- **Recruiting CD33 on mast cells to inhibit IgE-mediated mast cell-dependent anaphylaxis** *JOURNAL OF CLINICAL INVESTIGATION*  
Galli, S. J.  
2019; 129 (3): 955-57
- **Basophil-derived tumor necrosis factor can enhance survival in a sepsis model in mice.** *Nature immunology*  
Piliponsky, A. M., Shubin, N. J., Lahiri, A. K., Truong, P., Clauson, M., Niino, K., Tsuchi, A. L., Nedospasov, S. A., Karasuyama, H., Reber, L. L., Tsai, M., Mukai, K., Galli, et al  
2019; 20 (2): 129-40
- **Immune Mechanism of Desensitization through Rapid Multi-food Oral Immunotherapy**  
Manohar, M., Andorf, S., Gupta, S., Dunham, D., Zhang, W., Maecker, H. T., Galli, S. J., Chinthrajah, R., Nadeau, K. C.  
MOSBY-ELSEVIER.2019: AB254
- **Desensitization rates to peanut protein during OIT among children, adolescents, and adults**  
Long, A. J., Purington, N., Woch, M., O'Laughlin, K., Tan, T., Kost, L., Hijazi, S., Shojinaga, M., Raeber, O., Alvarez, A., Andorf, S., Tibshirani, R., Galli, et al  
MOSBY-ELSEVIER.2019: AB245
- **Esophageal Eosinophilia is Present in Some Peanut Allergic Patients**  
Fernandez-Becker, N., Wright, B. L., Kambham, N., Shim, K. P., Purington, N., Long, A. J., Tsai, M., Boyd, S., Galli, S. J., Nadeau, K. C., Chinthrajah, R.  
MOSBY-ELSEVIER.2019: AB310
- **Complexities in analyzing human basophil responses to auto-antibodies to IgE or FcεpsilonRI.** *The Journal of allergy and clinical immunology*  
Galli, S. J.  
2019
- **A Phase 2 Randomized Controlled Multisite Study Using Omalizumab-facilitated Rapid Desensitization to Test Continued vs Discontinued Dosing in Multifood Allergic Individuals.** *EClinicalMedicine*  
Andorf, S., Purington, N., Kumar, D., Long, A., O'Laughlin, K. L., Sicherer, S., Sampson, H., Cianferoni, A., Whitehorn, T. B., Petroni, D., Makhija, M., Robison, R. G., Lierl, et al  
2019; 7: 27-38
- **ICER report for peanut OIT comes up short.** *Annals of allergy, asthma & immunology : official publication of the American College of Allergy, Asthma, & Immunology*  
Eiwegger, T., Anagnostou, K., Arasi, S., Bégin, P., Ben-Shoshan, M., Beyer, K., Blumchen, K., Brough, H., Caubet, J. C., Chan, E. S., Chinthrajah, S., Davis, C. M., Roches, et al  
2019
- **Sustained outcomes in oral immunotherapy for peanut allergy (POISED study): a large, randomised, double-blind, placebo-controlled, phase 2 study.** *Lancet (London, England)*  
Chinthrajah, R. S., Purington, N., Andorf, S., Long, A., O'Laughlin, K. L., Lyu, S. C., Manohar, M., Boyd, S. D., Tibshirani, R., Maecker, H., Plaut, M., Mukai, K., Tsai, et al  
2019

- **Meningeal Mast Cells as Key Effectors of Stroke Pathology.** *Frontiers in cellular neuroscience*  
Arac, A., Grimbaldeston, M. A., Galli, S. J., Bliss, T. M., Steinberg, G. K.  
2019; 13: 126
- **House dust mites activate nociceptor-mast cell clusters to drive type 2 skin inflammation.** *Nature immunology*  
Serhan, N., Basso, L., Sibilano, R., Petitfils, C., Meixiong, J., Bonnart, C., Reber, L. L., Marichal, T., Starkl, P., Cenac, N., Dong, X., Tsai, M., Galli, et al  
2019
- **IgE-mediated mast cell activation promotes inflammation and cartilage destruction in osteoarthritis.** *eLife*  
Wang, Q., Lepus, C. M., Raghu, H., Reber, L. L., Tsai, M. M., Wong, H. H., von Kaepler, E., Lingampalli, N., Bloom, M. S., Hu, N., Elliott, E. E., Oliviero, F., Punzi, et al  
2019; 8
- **Analysis of a Large Standardized Food Challenge Data Set to Determine Predictors of Positive Outcome Across Multiple Allergens** *FRONTIERS IN IMMUNOLOGY*  
Sindher, S., Long, A. J., Purington, N., Chollet, M., Slatkin, S., Andorf, S., Tupa, D., Kumar, D., Woch, M. A., O'Laughlin, K. L., Assaad, A., Pongracic, J., Spergel, et al  
2018; 9
- **Baseline Gastrointestinal Eosinophilia Is Common in Oral Immunotherapy Subjects With IgE-Mediated Peanut Allergy** *FRONTIERS IN IMMUNOLOGY*  
Wright, B. L., Fernandez-Becker, N. Q., Kambham, N., Purington, N., Tupa, D., Zhang, W., Rank, M. A., Kita, H., Shim, K. P., Bunning, B. J., Doyle, A. D., Jacobsen, E. A., Boyd, et al  
2018; 9
- **Eliciting Dose and Safety Outcomes From a Large Dataset of Standardized Multiple Food Challenges** *FRONTIERS IN IMMUNOLOGY*  
Purington, N., Chinthrajah, R., Long, A., Sindher, S., Andorf, S., O'Laughlin, K., Woch, M. A., Scheiber, A., Assa'ad, A., Pongracic, J., Spergel, J. M., Tam, J., Tilles, et al  
2018; 9
- **Mary Hewitt Loveless, MD The origin of venom immunotherapy** *ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY*  
Galli, S. J.  
2018; 121 (3): 268–71
- **Mary Hewitt Loveless, MD, and the origin of venom immunotherapy.** *Annals of allergy, asthma & immunology : official publication of the American College of Allergy, Asthma, & Immunology*  
Galli, S. J.  
2018
- **Genetic and Imaging Approaches Reveal Pro-inflammatory and Immunoregulatory Roles of Mast Cells in Contact Hypersensitivity** *FRONTIERS IN IMMUNOLOGY*  
Gaudenzio, N., Marichal, T., Galli, S. J., Reber, L. L.  
2018; 9: 1275
- **Imaging FITC-dextran as a Reporter for Regulated Exocytosis** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*  
Klein, O., Roded, A., Hirschberg, K., Fukuda, M., Galli, S. J., Sagi-Eisenberg, R.  
2018
- **Effect of Dietary Fiber and Metabolites on Mast Cell Activation and Mast Cell-Associated Diseases** *FRONTIERS IN IMMUNOLOGY*  
Folkerts, J., Stadhouders, R., Redegeld, F. A., Tam, S., Hendriks, R. W., Galli, S. J., Maurer, M.  
2018; 9
- **Isotype-specific agglutination-PCR (ISAP): A sensitive and multiplex method for measuring allergen-specific IgE.** *The Journal of allergy and clinical immunology*  
Tsai, C., Mukai, K., Robinson, P. V., Gray, M. A., Waschmann, M. B., Lyu, S., Tsai, M., Chinthrajah, R. S., Nadeau, K. C., Bertozzi, C. R., Galli, S. J.  
2018; 141 (5): 1901
- **Development of a tool predicting severity of allergic reaction during peanut challenge.** *Annals of allergy, asthma & immunology : official publication of the American College of Allergy, Asthma, & Immunology*  
Chinthrajah, R. S., Purington, N., Andorf, S., Rosa, J. S., Mukai, K., Hamilton, R., Smith, B. M., Gupta, R., Galli, S. J., Desai, M., Nadeau, K. C.  
2018

- **Epigenetic Changes in Immune Cells Following Successful Desensitization with Multi-Food Allergen Oral Immunotherapy**  
Chinthrajah, S., Andorf, S., Manohar, M., Maecker, H., Tsai, M., Galli, S., Nadeau, K.  
SPRINGER/PLENUM PUBLISHERS.2018: 358–59
- **Mast cells as sources of cytokines, chemokines, and growth factors** *IMMUNOLOGICAL REVIEWS*  
Mukai, K., Tsai, M., Saito, H., Galli, S. J.  
2018; 282 (1): 121–50
- **Anti-IgE treatment with oral immunotherapy in multifold allergic participants: a double-blind, randomised, controlled trial** *LANCET GASTROENTEROLOGY & HEPATOLOGY*  
Andorf, S., Purington, N., Block, W. M., Long, A. J., Tupa, D., Brittain, E., Spergel, A., Desai, M., Galli, S. J., Nadeau, K. C., Chinthrajah, R.  
2018; 3 (2): 85–94
- **Effect of Dietary Fiber and Metabolites on Mast Cell Activation and Mast Cell-Associated Diseases.** *Frontiers in immunology*  
Folkerts, J., Stadhouders, R., Redegeld, F. A., Tam, S. Y., Hendriks, R. W., Galli, S. J., Maurer, M.  
2018; 9: 1067
- **Eliciting Dose and Safety Outcomes From a Large Dataset of Standardized Multiple Food Challenges.** *Frontiers in immunology*  
Purington, N., Chinthrajah, R. S., Long, A., Sindher, S., Andorf, S., O'Laughlin, K., Woch, M. A., Scheiber, A., Assa'ad, A., Pongratic, J., Spergel, J. M., Tam, J., Tilles, et al  
2018; 9: 2057
- **Analysis of a Large Standardized Food Challenge Data Set to Determine Predictors of Positive Outcome Across Multiple Allergens.** *Frontiers in immunology*  
Sindher, S., Long, A. J., Purington, N., Chollet, M., Slatkin, S., Andorf, S., Tupa, D., Kumar, D., Woch, M. A., O'Laughlin, K. L., Assaad, A., Pongratic, J., Spergel, et al  
2018; 9: 2689
- **Baseline Gastrointestinal Eosinophilia Is Common in Oral Immunotherapy Subjects With IgE-Mediated Peanut Allergy.** *Frontiers in immunology*  
Wright, B. L., Fernandez-Becker, N. Q., Kambham, N., Purington, N., Tupa, D., Zhang, W., Rank, M. A., Kita, H., Shim, K. P., Bunning, B. J., Doyle, A. D., Jacobsen, E. A., Boyd, et al  
2018; 9: 2624
- **Food allergy and omics.** *The Journal of allergy and clinical immunology*  
Dhondalay, G. K., Rael, E., Acharya, S., Zhang, W., Sampath, V., Galli, S. J., Tibshirani, R., Boyd, S. D., Maecker, H., Nadeau, K. C., Andorf, S.  
2018; 141 (1): 20–29
- **Human mast cells as antigen-presenting cells: When is this role important in vivo?** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Galli, S. J., Gaudenzio, N.  
2018; 141 (1): 92–93
- **Thirdhand smoke component can exacerbate a mouse asthma model through mast cells.** *The Journal of allergy and clinical immunology*  
Yu, M., Mukai, K., Tsai, M., Galli, S. J.  
2018
- **Proposed Terminology and Classification of Pre-Malignant Neoplastic Conditions: A Consensus Proposal** *EBIOMEDICINE*  
Valent, P., Akin, C., Arock, M., Bock, C., George, T. I., Galli, S. J., Gotlib, J., Haferlach, T., Hoermann, G., Hermine, O., Jaeger, U., Kenner, L., Kreipe, et al  
2017; 26: 17–24
- **Rab5 is critical for SNAP23 regulated granule-granule fusion during compound exocytosis** *SCIENTIFIC REPORTS*  
Klein, O., Roded, A., Zur, N., Azouz, N. P., Pasternak, O., Hirschberg, K., Hammel, I., Roche, P. A., Yatsu, A., Fukuda, M., Galli, S. J., Sagi-Eisenberg, R.  
2017; 7: 15315
- **The tyrosine kinase inhibitor imatinib mesylate suppresses uric acid crystal-induced acute gouty arthritis in mice** *PLOS ONE*  
Reber, L. L., Starkl, P., Balbino, B., Sibilano, R., Gaudenzio, N., Rogalla, S., Sensarn, S., Kang, D., Raghu, H., Sokolove, J., Robinson, W. H., Contag, C. H., Tsai, et al  
2017; 12 (10): e0185704
- **A new fluorescent-avidin-based method for quantifying basophil activation in whole blood** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Mukai, K., Chinthrajah, R., Nadeau, K. C., Tsai, M., Gaudenzio, N., Galli, S. J.

2017; 140 (4): 1202-+

- **Imaging protective mast cells in living mice during severe contact hypersensitivity.** *JCI insight*  
Reber, L. L., Sibilano, R., Starkl, P., Roers, A., Grimbaldston, M. A., Tsai, M., Gaudenzio, N., Galli, S. J.  
2017; 2 (9)
- **Differences in the Importance of Mast Cells, Basophils, IgE, and IgG versus That of CD4(+) T Cells and ILC2 Cells in Primary and Secondary Immunity to *Strongyloides venezuelensis*** *INFECTION AND IMMUNITY*  
Mukai, K., Karasuyama, H., Kabashima, K., Kubo, M., Galli, S. J.  
2017; 85 (5)
- **Neutrophil myeloperoxidase diminishes the toxic effects and mortality induced by lipopolysaccharide** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Reber, L. L., Gillis, C. M., Starkl, P., Joensson, F., Sibilano, R., Marichal, T., Gaudenzio, N., Berard, M., Rogalla, S., Contag, C. H., Bruhns, P., Galli, S. J.  
2017; 214 (5): 1249-1258
- **Association of Clinical Reactivity with Sensitization to Allergen Components in Multifood-Allergic Children.** *journal of allergy and clinical immunology. In practice*  
Andorf, S., Borres, M. P., Block, W., Tupa, D., Bollyky, J. B., Sampath, V., Elizur, A., Lidholm, J., Jones, J. E., Galli, S. J., Chinthrajah, R. S., Nadeau, K. C.  
2017
- **Decoupling the Functional Pleiotropy of Stem Cell Factor by Tuning c-Kit Signaling** *CELL*  
Ho, C. C., Chhabra, A., Starkl, P., Schnorr, P., Wilmes, S., Moraga, I., Kwon, H., Gaudenzio, N., Sibilano, R., Wehrman, T. S., Gakovic, M., Sockolosky, J. T., Tiffany, et al  
2017; 168 (6): 1041-?
- **. Infection and immunity**  
Mukai, K., Karasuyama, H., Kabashima, K., Kubo, M., Galli, S. J.  
2017
- **Advances in the Classification and Treatment of Mastocytosis: Current Status and Outlook toward the Future.** *Cancer research*  
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  
2017
- **Assessing basophil activation by using flow cytometry and mass cytometry in blood stored 24 hours before analysis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Mukai, K., Gaudenzio, N., Gupta, S., Vivanco, N., Bendall, S. C., Maecker, H. T., Chinthrajah, R. S., Tsai, M., Nadeau, K. C., Galli, S. J.  
2017; 139 (3): 889-?
- **Pathways of immediate hypothermia and leukocyte infiltration in an adjuvant-free mouse model of anaphylaxis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Balbino, B., Sibilano, R., Starkl, P., Marichal, T., Gaudenzio, N., Karasuyama, H., Bruhns, P., Tsai, M., Reber, L. L., Galli, S. J.  
2017; 139 (2): 584-?
- **Targeting of Immune Cells by Dual TLR2/7 Ligands Suppresses Features of Allergic Th2 Immune Responses in Mice.** *Journal of immunology research*  
Laiño, J., Wangorsch, A., Blanco, F., Wolfheimer, S., Krause, M., Flaczyk, A., Möller, T. M., Tsai, M., Galli, S., Vieths, S., Toda, M., Scheurer, S., Schülke, et al  
2017; 2017: 7983217
- **Proposed Terminology and Classification of Pre-Malignant Neoplastic Conditions: A Consensus Proposal.** *EBioMedicine*  
Valent, P., Akin, C., Arock, M., Bock, C., George, T. I., Galli, S. J., Gotlib, J., Haferlach, T., Hoermann, G., Hermine, O., Jäger, U., Kenner, L., Kreipe, et al  
2017; 26: 17-24
- **The pathophysiology of anaphylaxis.** *The Journal of allergy and clinical immunology*  
Reber, L. L., Hernandez, J. D., Galli, S. J.  
2017; 140 (2): 335-48
- **Immune monitoring for precision medicine in allergy and asthma.** *Current opinion in immunology*  
Boyd, S. D., Hoh, R. A., Nadeau, K. C., Galli, S. J.  
2017; 48: 82-91
- **Targeting of Immune Cells by Dual TLR2/7 Ligands Suppresses Features of Allergic Th2 Immune Responses in Mice** *JOURNAL OF IMMUNOLOGY RESEARCH*

- Laino, J., Wangorsch, A., Blanco, F., Wolfheimer, S., Krause, M., Flaczyk, A., Moeller, T., Tsai, M., Galli, S., Vieths, S., Toda, M., Scheurer, S., Schuelke, et al  
2017
- **IgG subclasses determine pathways of anaphylaxis in mice.** *journal of allergy and clinical immunology*  
Beutier, H., Gillis, C. M., Iannascoli, B., Godon, O., England, P., Sibilano, R., Reber, L. L., Galli, S. J., Cragg, M. S., van Rooijen, N., Mancardi, D. A., Bruhns, P., Jönsson, et al  
2017; 139 (1): 269-280 e7
  - **IgG subclasses determine pathways of anaphylaxis in mice** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Beutier, H., Gillis, C. M., Iannascoli, B., Godon, O., England, P., Sibilano, R., Reber, L. L., Galli, S. J., Cragg, M. S., van Rooijen, N., Mancardi, D. A., Bruhns, P., Jönsson, et al  
2017; 139 (1): 269-?
  - **Reply.** *The Journal of allergy and clinical immunology*  
Galli, S. J.  
2017; 139 (6): 2029–31
  - **Mast Cells and KIT as Potential Therapeutic Targets in Severe Asthma.** *The New England journal of medicine*  
Galli, S. J.  
2017; 376 (20): 1983–84
  - **A TNFRSF14-Fc epsilon RI-mast cell pathway contributes to development of multiple features of asthma pathology in mice** *NATURE COMMUNICATIONS*  
Sibilano, R., Gaudenzio, N., DeGorter, M. K., Reber, L. L., Hernandez, J. D., Starkl, P. M., Zurek, O. W., Tsai, M., Zahner, S., Montgomery, S. B., Roers, A., Kronenberg, M., Yu, et al  
2016; 7
  - **Evidence that beta 7 Integrin Regulates Hematopoietic Stem Cell Homing and Engraftment Through Interaction with MAdCAM-1** *STEM CELLS AND DEVELOPMENT*  
Murakami, J. L., Xu, B., Franco, C. B., Hu, X., Galli, S. J., Weissman, I. L., Chen, C.  
2016; 25 (1): 18-26
  - **Guanine nucleotide exchange factor RABGEF1 regulates keratinocyte-intrinsic signaling to maintain skin homeostasis.** *journal of clinical investigation*  
Marichal, T., Gaudenzio, N., El Abbas, S., Sibilano, R., Zurek, O., Starkl, P., Reber, L. L., Pirotin, D., Kim, J., Chambon, P., Roers, A., Antoine, N., Kawakami, et al  
2016
  - **The Nedd4-2/Ndfip1 axis is a negative regulator of IgE-mediated mast cell activation.** *Nature communications*  
Yip, K. H., Kolesnikoff, N., Hauschild, N., Biggs, L., Lopez, A. F., Galli, S. J., Kumar, S., Grimaldeston, M. A.  
2016; 7: 13198-?
  - **Different activation signals induce distinct mast cell degranulation strategies** *JOURNAL OF CLINICAL INVESTIGATION*  
Gaudenzio, N., Sibilano, R., Marichal, T., Starkl, P., Reber, L. L., Cenac, N., McNeil, B. D., Dong, X., Hernandez, J. D., Sagi-Eisenberg, R., Hammel, I., Roers, A., Valitutti, et al  
2016; 126 (10): 3981-3998
  - **IgE and mast cells in host defense against parasites and venoms.** *Seminars in immunopathology*  
Mukai, K., Tsai, M., Starkl, P., Marichal, T., Galli, S. J.  
2016; 38 (5): 581-603
  - **Pathways of immediate hypothermia and leukocyte infiltration in an adjuvant-free mouse model of anaphylaxis.** *journal of allergy and clinical immunology*  
Balbino, B., Sibilano, R., Starkl, P., Marichal, T., Gaudenzio, N., Karasuyama, H., Bruhns, P., Tsai, M., Reber, L. L., Galli, S. J.  
2016
  - **Assessing basophil activation by using flow cytometry and mass cytometry in blood stored 24 hours before analysis.** *journal of allergy and clinical immunology*  
Mukai, K., Gaudenzio, N., Gupta, S., Vivanco, N., Bendall, S. C., Maecker, H. T., Chinthrajah, R. S., Tsai, M., Nadeau, K. C., Galli, S. J.  
2016
  - **Toward precision medicine and health: Opportunities and challenges in allergic diseases** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Galli, S. J.  
2016; 137 (5): 1289-1300



- **Molecular and cellular mechanisms of food allergy and food tolerance.** *journal of allergy and clinical immunology*  
Chinthrajah, R. S., Hernandez, J. D., Boyd, S. D., Galli, S. J., Nadeau, K. C.  
2016; 137 (4): 984-997
- **Successful immunotherapy induces previously unidentified allergen-specific CD4+ T-cell subsets.** *Proceedings of the National Academy of Sciences of the United States of America*  
Ryan, J. F., Hovde, R., Glanville, J., Lyu, S., Ji, X., Gupta, S., Tibshirani, R. J., Jay, D. C., Boyd, S. D., Chinthrajah, R. S., Davis, M. M., Galli, S. J., Maecker, et al  
2016; 113 (9): E1286-95
- **The Mast Cell-IgE Paradox From Homeostasis to Anaphylaxis** *AMERICAN JOURNAL OF PATHOLOGY*  
Galli, S. J.  
2016; 186 (2): 212-224
- **Mast cells and IgE in defense against venoms: Possible "good side" of allergy?** *Allergology international : official journal of the Japanese Society of Allergology*  
Galli, S. J., Starkl, P., Marichal, T., Tsai, M.  
2016; 65 (1): 3-15
- **Neutrophils are not required for resolution of acute gouty arthritis in mice.** *Nature medicine*  
Reber, L. L., Gaudenzio, N., Starkl, P., Galli, S. J.  
2016; 22 (12): 1382-84
- **Computational Pathology A Path Ahead** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*  
Louis, D. N., Feldman, M., Carter, A. B., Dighe, A. S., Pfeifer, J. D., Bry, L., Almeida, J. S., Saltz, J., Braun, J., Tomaszewski, J. E., Gilbertson, J. R., Sinard, J. H., Gerber, et al  
2016; 140 (1): 41-50
- **Mast cells and IgE in defense against venoms: Possible "good side" of allergy?** *ALLERGOLOGY INTERNATIONAL*  
Galli, S. J., Starkl, P., Marichal, T., Tsai, M.  
2016; 65 (1): 3-15
- **IgE antibodies, FcεRIα, and IgE-mediated local anaphylaxis can limit snake venom toxicity.** *journal of allergy and clinical immunology*  
Starkl, P., Marichal, T., Gaudenzio, N., Reber, L. L., Sibilano, R., Tsai, M., Galli, S. J.  
2016; 137 (1): 246-257 e11
- **The adherens junctions control susceptibility to Staphylococcus aureus a-toxin.** *Proceedings of the National Academy of Sciences of the United States of America*  
Popov, L. M., Marceau, C. D., Starkl, P. M., Lumb, J. H., Shah, J., Guerrero, D., Cooper, R. L., Merakou, C., Bouley, D. M., Meng, W., Kiyonari, H., Takeichi, M., Galli, et al  
2015; 112 (46): 14337-14342
- **MPLA shows attenuated pro-inflammatory properties and diminished capacity to activate mast cells in comparison with LPS.** *Allergy*  
Schülke, S., Flaczyk, A., Vogel, L., Gaudenzio, N., Angers, I., Löschner, B., Wolfheimer, S., Spreitzer, I., Qureshi, S., Tsai, M., Galli, S., Vieths, S., Scheurer, et al  
2015; 70 (10): 1259-1268
- **Testing the 'toxin hypothesis of allergy': mast cells, IgE, and innate and acquired immune responses to venoms** *CURRENT OPINION IN IMMUNOLOGY*  
Tsai, M., Starkl, P., Marichal, T., Galli, S. J.  
2015; 36: 80-87
- **An Interleukin-33-Mast Cell-Interleukin-2 Axis Suppresses Papain-Induced Allergic Inflammation by Promoting Regulatory T Cell Numbers** *IMMUNITY*  
Morita, H., Arae, K., Unno, H., Miyauchi, K., Toyama, S., Nambu, A., Oboki, K., Ohno, T., Motomura, K., Matsuda, A., Yamaguchi, S., Narushima, S., Kajiwara, et al  
2015; 43 (1): 175-186
- **Potential effector and immunoregulatory functions of mast cells in mucosal immunity** *MUCOSAL IMMUNOLOGY*  
Reber, L. L., Sibilano, R., Mukai, K., Galli, S. J.  
2015; 8 (3): 444-463
- **Editorial overview: Allergy and hypersensitivity: New developments in allergy and type 2 immunity: never a dull moment.** *Current opinion in immunology*  
Vercelli, D., Galli, S. J.

2015; 36: ix-xi

- **Genomics in the clinic: ethical and policy challenges in clinical next-generation sequencing programs at early adopter USA institutions.** *Personalized medicine*  
Milner, L. C., Garrison, N. A., Cho, M. K., Altman, R. B., Hudgins, L., Galli, S. J., Lowe, H. J., Schrijver, I., Magnus, D. C.  
2015; 12 (3): 269–82
- **Analyzing the Functions of Mast Cells In Vivo Using 'Mast Cell Knock-in' Mice.** *Journal of visualized experiments : JoVE*  
Gaudenzio, N., Sibilano, R., Starkl, P., Tsai, M., Galli, S. J., Reber, L. L.  
2015: e52753
- **Analyzing the Functions of Mast Cells In Vivo Using 'Mast Cell Knock-in' Mice.** *Journal of visualized experiments : JoVE*  
Gaudenzio, N., Sibilano, R., Starkl, P., Tsai, M., Galli, S. J., Reber, L. L.  
2015
- **Genomics in the clinic: ethical and policy challenges in clinical next-generation sequencing programs at early adopter USA institutions** *PERSONALIZED MEDICINE*  
Milner, L. C., Garrison, N. A., Cho, M. K., Altman, R. B., Hudgins, L., Galli, S. J., Lowe, H. J., Schrijver, I., Magnus, D. C.  
2015; 12 (3): 269-282
- **Approaches for analyzing the roles of mast cells and their proteases in vivo.** *Advances in immunology*  
Galli, S. J., Tsai, M., Marichal, T., Tchougounova, E., Reber, L. L., Pejler, G.  
2015; 126: 45-127
- **An Interleukin-33-Mast Cell-Interleukin-2 Axis Suppresses Papain-Induced Allergic Inflammation by Promoting Regulatory T Cell Numbers.** *Immunity*  
Morita, H., Arae, K., Unno, H., Miyauchi, K., Toyama, S., Nambu, A., Oboki, K., Ohno, T., Motomura, K., Matsuda, A., Yamaguchi, S., Narushima, S., Kajiwara, et al  
2015; 43 (1): 175–86
- **SnapShot: Integrated Type 2 Immune Responses.** *Immunity*  
Lambrecht, B. N., Galli, S. J.  
2015; 43 (2): 408–e1
- **Contribution of Mast Cell-Derived Interleukin-1 beta to Uric Acid Crystal-Induced Acute Arthritis in Mice** *ARTHRITIS & RHEUMATOLOGY*  
Reber, L. L., Marichal, T., Sokolove, J., Starkl, P., Gaudenzio, N., Iwakura, Y., Karasuyama, H., Schwartz, L. B., Robinson, W. H., Tsai, M., Galli, S. J.  
2014; 66 (10): 2881-2891
- **Contribution of mast cell-derived interleukin-1β to uric acid crystal-induced acute arthritis in mice.** *Arthritis & rheumatology*  
Reber, L. L., Marichal, T., Sokolove, J., Starkl, P., Gaudenzio, N., Iwakura, Y., Karasuyama, H., Schwartz, L. B., Robinson, W. H., Tsai, M., Galli, S. J.  
2014; 66 (10): 2881-2891
- **Evidence that Meningeal Mast Cells Can Worsen Stroke Pathology in Mice** *AMERICAN JOURNAL OF PATHOLOGY*  
Arac, A., Grimbaldston, M. A., Nepomuceno, A. R., Olayiwola, O., Pereira, M. P., Nishiyama, Y., Tsykin, A., Goodall, G. J., Schlecht, U., Vogel, H., Tsai, M., Galli, S. J., Bliss, et al  
2014; 184 (9): 2493-2504
- **Mechanisms of vitamin D-3 metabolite repression of IgE-dependent mast cell activation** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Yip, K., Kolesnikoff, N., Yu, C., Hauschild, N., Taing, H., Biggs, L., Goltzman, D., Gregory, P. A., Anderson, P. H., Samuel, M. S., Galli, S. J., Lopez, A. F., Grimbaldston, et al  
2014; 133 (5): 1356-U590
- **Peanut oral immunotherapy results in increased antigen-induced regulatory T-cell function and hypomethylation of forkhead box protein 3 (FOXP3).** *journal of allergy and clinical immunology*  
Syed, A., Garcia, M. A., Lyu, S., Bucayu, R., Kohli, A., Ishida, S., Berglund, J. P., Tsai, M., Maecker, H., O'Riordan, G., Galli, S. J., Nadeau, K. C.  
2014; 133 (2): 500-510
- **Peanut oral immunotherapy results in increased antigen-induced regulatory T-cell function and hypomethylation of forkhead box protein 3 (FOXP3).** *journal of allergy and clinical immunology*  
Syed, A., Garcia, M. A., Lyu, S., Bucayu, R., Kohli, A., Ishida, S., Berglund, J. P., Tsai, M., Maecker, H., O'Riordan, G., Galli, S. J., Nadeau, K. C.  
2014; 133 (2): 500-510 e11

- **[An allergic response to fight against venoms].** *Me`decine sciences : M/S*  
Marichal, T., Starkl, P., Metz, M., Galli, S. J.  
2014; 30 (2): 127-130
- **Rethinking the potential roles of mast cells in skin wound healing and bleomycin-induced skin fibrosis.** *The Journal of investigative dermatology*  
Galli, S. J.  
2014; 134 (7): 1802-4
- **A Balanced Look at the Implications of Genomic (and Other "Omics") Testing for Disease Diagnosis and Clinical Care.** *Genes*  
Boyd, S. D., Galli, S. J., Schrijver, I., Zehnder, J. L., Ashley, E. A., Merker, J. D.  
2014; 5 (3): 748-766
- **Mast Cells Are Required for Full Expression of Allergen/SEB-Induced Skin Inflammation** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*  
Ando, T., Matsumoto, K., Namiranian, S., Yamashita, H., Glatthorn, H., Kimura, M., Dolan, B. R., Lee, J. J., Galli, S. J., Kawakami, Y., Jamora, C., Kawakami, T.  
2013; 133 (12): 2695-2705
- **Mast cells suppress murine GVHD in a mechanism independent of CD4+CD25+ regulatory T cells.** *Blood*  
Leveson-Gower, D. B., Sega, E. I., Kalesnikoff, J., Florek, M., Pan, Y., Pierini, A., Galli, S. J., Negrin, R. S.  
2013; 122 (22): 3659-3665
- **A Beneficial Role for Immunoglobulin E in Host Defense against Honeybee Venom.** *Immunity*  
Marichal, T., Starkl, P., Reber, L. L., Kalesnikoff, J., Oettgen, H. C., Tsai, M., Metz, M., Galli, S. J.  
2013; 39 (5): 963-975
- **Mast cells: potential positive and negative roles in tumor biology.** *Cancer immunology research*  
Marichal, T., Tsai, M., Galli, S. J.  
2013; 1 (5): 269-279
- **Rapid desensitization induces internalization of antigen-specific IgE on mouse mast cells.** *journal of allergy and clinical immunology*  
Oka, T., Rios, E. J., Tsai, M., Kalesnikoff, J., Galli, S. J.  
2013; 132 (4): 922-32 e1 16
- **Selective ablation of mast cells or basophils reduces peanut-induced anaphylaxis in mice.** *journal of allergy and clinical immunology*  
Reber, L. L., Marichal, T., Mukai, K., Kita, Y., Tokuoka, S. M., Roers, A., Hartmann, K., Karasuyama, H., Nadeau, K. C., Tsai, M., Galli, S. J.  
2013; 132 (4): 881-8 e1 11
- **Rapid desensitization induces internalization of antigen-specific IgE on mouse mast cells.** *journal of allergy and clinical immunology*  
Oka, T., Rios, E. J., Tsai, M., Kalesnikoff, J., Galli, S. J.  
2013; 132 (4): 922-932 e16
- **Selective ablation of mast cells or basophils reduces peanut-induced anaphylaxis in mice.** *journal of allergy and clinical immunology*  
Reber, L. L., Marichal, T., Mukai, K., Kita, Y., Tokuoka, S. M., Roers, A., Hartmann, K., Karasuyama, H., Nadeau, K. C., Tsai, M., Galli, S. J.  
2013; 132 (4): 881-888 e11
- **PLA2G3 promotes mast cell maturation and function.** *Nature immunology*  
Starkl, P., Marichal, T., Galli, S. J.  
2013; 14 (6): 527-529
- **Integration of Genomic Medicine into Pathology Residency Training The Stanford Open Curriculum** *JOURNAL OF MOLECULAR DIAGNOSTICS*  
Schrijver, I., Natkunam, Y., Galli, S., Boyd, S. D.  
2013; 15 (2): 141-148
- **Mast cell anaphylatoxin receptor expression can enhance IgE-dependent skin inflammation in mice** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Schaefer, B., Piliponsky, A. M., Oka, T., Song, C. H., Gerard, N. P., Gerard, C., Tsai, M., Kalesnikoff, J., Galli, S. J.  
2013; 131 (2): 541-?
- **Evidence that mast cells are not required for healing of splinted cutaneous excisional wounds in mice.** *PloS one*  
Nauta, A. C., Grova, M., Montoro, D. T., Zimmermann, A., Tsai, M., Gurtner, G. C., Galli, S. J., Longaker, M. T.  
2013; 8 (3)

- **New models for analyzing mast cell functions in vivo** *TRENDS IN IMMUNOLOGY*  
Reber, L. L., Marichal, T., Galli, S. J.  
2012; 33 (12): 613-625
- **Evidence questioning cromolyn's effectiveness and selectivity as a 'mast cell stabilizer' in mice** *LABORATORY INVESTIGATION*  
Oka, T., Kalesnikoff, J., Starkl, P., Tsai, M., Galli, S. J.  
2012; 92 (10): 1472-1482
- **The Chymase Mouse Mast Cell Protease 4 Degrades TNF, Limits Inflammation, and Promotes Survival in a Model of Sepsis** *AMERICAN JOURNAL OF PATHOLOGY*  
Piliponsky, A. M., Chen, C., Rios, E. J., Treuting, P. M., Lahiri, A., Abrink, M., Pejler, G., Tsai, M., Galli, S. J.  
2012; 181 (3): 875-886
- **Critical role of P1-Runx1 in mouse basophil development** *BLOOD*  
Mukai, K., Benbarak, M. J., Tachibana, M., Nishida, K., Karasuyama, H., Taniuchi, I., Galli, S. J.  
2012; 120 (1): 76-85
- **Modulation of mTOR Effector Phosphoproteins in Blood Basophils from Allergic Patients** *JOURNAL OF CLINICAL IMMUNOLOGY*  
Gernez, Y., Tirouvanziam, R., Reshamwala, N., Yu, G., Weldon, B. C., Galli, S. J., Herzenberg, L. A., Nadeau, K. C.  
2012; 32 (3): 565-573
- **IgE and mast cells in allergic disease** *NATURE MEDICINE*  
Galli, S. J., Tsai, M.  
2012; 18 (5): 693-704
- **Enhancement of IgE- and mast cell-dependent cutaneous inflammation by mast cell expression of C3aR and C5aR** *99th Annual Meeting of the American Association of Immunologists*  
Piliponsky, A., Schafer, B., Song, C., Gerard, N., Gerard, C., Tsai, M., Kalesnikoff, J., Galli, S.  
AMER ASSOC IMMUNOLOGISTS.2012
- **Between hype and hope: whole-genome sequencing in clinical medicine.** *Personalized medicine*  
Schrijver, I., Galli, S. J.  
2012; 9 (3): 243-46
- **Reduced mast cell and basophil numbers and function in Cpa3-Cre; Mcl-1(f/f) mice** *BLOOD*  
Lilla, J. N., Chen, C., Mukai, K., Benbarak, M. J., Franco, C. B., Kalesnikoff, J., Yu, M., Tsai, M., Piliponsky, A. M., Galli, S. J.  
2011; 118 (26): 6930-6938
- **Phenotypic and functional plasticity of cells of innate immunity: macrophages, mast cells and neutrophils** *NATURE IMMUNOLOGY*  
Galli, S. J., Borregaard, N., Wynn, T. A.  
2011; 12 (11): 1035-1044
- **Mast cell chymase reduces the toxicity of Gila monster venom, scorpion venom, and vasoactive intestinal polypeptide in mice** *JOURNAL OF CLINICAL INVESTIGATION*  
Akahoshi, M., Song, C. H., Piliponsky, A. M., Metz, M., Guzzetta, A., Abrink, M., Schlenner, S. M., Feyerabend, T. B., Rodewald, H., Pejler, G., Tsai, M., Galli, S. J.  
2011; 121 (10): 4180-4191
- **Identification of an IFN-gamma/mast cell axis in a mouse model of chronic asthma** *JOURNAL OF CLINICAL INVESTIGATION*  
Yu, M., Eckart, M. R., Morgan, A. A., Mukai, K., Butte, A. J., Tsai, M., Galli, S. J.  
2011; 121 (8): 3133-3143
- **Evidence that the endothelin A receptor can enhance IgE-dependent anaphylaxis in mice** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Metz, M., Schaefer, B., Tsai, M., Maurer, M., Galli, S. J.  
2011; 128 (2): 424-426
- **Basophil CD203c Levels Are Increased at Baseline and Can Be Used to Monitor Omalizumab Treatment in Subjects with Nut Allergy** *INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY*  
Gernez, Y., Tirouvanziam, R., Yu, G., Ghosn, E. E., Reshamwala, N., Tammie Nguyen, T., Tsai, M., Galli, S. J., Herzenberg, L. A., Herzenberg, L. A., Nadeau, K. C.

2011; 154 (4): 318-327

- **MAST CELLS AND IMMUNOREGULATION/IMMUNOMODULATION** *MAST CELL BIOLOGY: CONTEMPORARY AND EMERGING TOPICS*  
Tsai, M., Grimbaldston, M., Galli, S. J.  
2011; 716: 186-211
- **Antiinflammatory and immunosuppressive functions of mast cells.** *Methods in molecular biology (Clifton, N.J.)*  
Kalesnikoff, J., Galli, S. J.  
2011; 677: 207-220
- **Thymic Stromal Lymphopoietin Contributes to Myeloid Hyperplasia and Increased Immunoglobulins, But Not Epidermal Hyperplasia, in RabGEF1-Deficient Mice** *AMERICAN JOURNAL OF PATHOLOGY*  
Tsai, M., Chen, C., Mukai, K., Song, C. H., Thompson, L. J., Ziegler, S. F., Tam, S., Galli, S. J.  
2010; 177 (5): 2411-2420
- **Mast cells in allergy and infection: Versatile effector and regulatory cells in innate and adaptive immunity** *EUROPEAN JOURNAL OF IMMUNOLOGY*  
Galli, S. J., Tsai, M.  
2010; 40 (7): 1843-1851
- **Regulation of secretory granule size by the precise generation and fusion of unit granules** *JOURNAL OF CELLULAR AND MOLECULAR MEDICINE*  
Hammel, I., Lagunoff, D., Galli, S. J.  
2010; 14 (7): 1904-1916
- **Distinguishing Mast Cell and Granulocyte Differentiation at the Single-Cell Level** *CELL STEM CELL*  
Franco, C. B., Chen, C., Drukker, M., Weissman, I. L., Galli, S. J.  
2010; 6 (4): 361-368
- **The role of recipient mast cells in acute and chronic cardiac allograft rejection in C57BL/6-KitW-sh/W-sh mice** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*  
Itoh, S., Nakae, S., Velotta, J. B., Kosuge, H., Connolly, A., Tsai, M., Adachi, H., Galli, S. J., Robbins, R. C., Fischbein, M. P.  
2010; 29 (4): 401-409
- **Evidence that vitamin D-3 promotes mast cell-dependent reduction of chronic UVB-induced skin pathology in mice** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Biggs, L., Yu, C., Fedoric, B., Lopez, A. F., Galli, S. J., Grimbaldston, M. A.  
2010; 207 (3): 455-463
- **Mast Cell-Derived TNF Can Exacerbate Mortality during Severe Bacterial Infections in C57BL/6-KitW-sh/W-sh Mice** *AMERICAN JOURNAL OF PATHOLOGY*  
Piliponsky, A. M., Chen, C., Grimbaldston, M. A., Burns-Guydish, S. M., Hardy, J., Kalesnikoff, J., Contag, C. H., Tsai, M., Galli, S. J.  
2010; 176 (2): 926-938
- **Anaphylaxis: mechanisms of mast cell activation.** *Chemical immunology and allergy*  
Kalesnikoff, J., Galli, S. J.  
2010; 95: 45-66
- **Pillars article: fate of bone marrow-derived cultured mast cells after intracutaneous, intraperitoneal, and intravenous transfer into genetically mast cell-deficient w/wv mice. Evidence that cultured mast cells can give rise to both connective tissue type and mucosal mast cells.** *Journal of immunology*  
Nakano, T., Sonoda, T., Hayashi, C., Yamatodani, A., Kanayama, Y., Yamamura, T., Asai, H., Yonezawa, T., Kitamura, Y., Galli, S. J.  
2009; 183 (11): 6863-6881
- **Rabaptin-5 regulates receptor expression and functional activation in mast cells** *BLOOD*  
Rios, E. J., Piliponsky, A. M., Ra, C., Kalesnikoff, J., Galli, S. J.  
2008; 112 (10): 4148-4157
- **New developments in mast cell biology** *NATURE IMMUNOLOGY*  
Kalesnikoff, J., Galli, S. J.  
2008; 9 (11): 1215-1223
- **IL-3 is required for increases in blood basophils in nematode infection in mice and can enhance IgE-dependent IL-4 production by basophils in vitro** *LABORATORY INVESTIGATION*

- Lantz, C. S., Min, B., Tsai, M., Chatterjea, D., Dranoff, G., Galli, S. J.  
2008; 88 (11): 1134-1142
- **Mast cell-expressed orphan receptor CCRL2 binds chemerin and is required for optimal induction of IgE-mediated passive cutaneous anaphylaxis** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Zabel, B. A., Nakae, S., Zuniga, L., Kim, J., Ohyama, T., Alt, C., Pan, J., Suto, H., Soler, D., Allen, S. J., Handel, T. M., Song, C. H., Galli, et al  
2008; 205 (10): 2207-2220
  - **The development of allergic inflammation** *NATURE*  
Galli, S. J., Tsai, M., Piliponsky, A. M.  
2008; 454 (7203): 445-454
  - **Immunomodulatory mast cells: negative, as well as positive, regulators of immunity** *NATURE REVIEWS IMMUNOLOGY*  
Galli, S. J., Grimbaldeston, M., Tsai, M.  
2008; 8 (6): 478-U14
  - **Neurotensin increases mortality and mast cells reduce neurotensin levels in a mouse model of sepsis** *NATURE MEDICINE*  
Piliponsky, A. M., Chen, C., Nishimura, T., Metz, M., Rios, E. J., Dobner, P. R., Wada, E., Wada, K., Zacharias, S., Mohanasundaram, U. M., Faix, J. D., Abrink, M., Pejler, et al  
2008; 14 (4): 392-398
  - **Basophils are back!** *IMMUNITY*  
Galli, S. J., Franco, C. B.  
2008; 28 (4): 495-497
  - **Mast cells: Versatile regulators of inflammation, tissue remodeling, host defense and homeostasis** *JOURNAL OF DERMATOLOGICAL SCIENCE*  
Galli, S. J., Tsai, M.  
2008; 49 (1): 7-19
  - **IL-33 induces IL-13 production by mouse mast cells independently of IgE-Fc epsilon RI signals** *JOURNAL OF LEUKOCYTE BIOLOGY*  
Ho, L. H., Ohno, T., Oboki, K., Kajiwara, N., Suto, H., Iikura, M., Okayama, Y., Akira, S., Saito, H., Galli, S. J., Nakae, S.  
2007; 82 (6): 1481-1490
  - **TIM-1 and TIM-3 enhancement of Th2 cytokine production by mast cells** *BLOOD*  
Nakae, S., Iikura, M., Suto, H., Akiba, H., Umetsu, D. T., DeKruyff, R. H., Saito, H., Galli, S. J.  
2007; 110 (7): 2565-2568
  - **IL-33 can promote survival, adhesion and cytokine production in human mast cells** *LABORATORY INVESTIGATION*  
Iikura, M., Suto, H., Kajiwara, N., Oboki, K., Ohno, T., Saito, H., Galli, S. J., Nakae, S.  
2007; 87 (10): 971-978
  - **Mast cell-derived interleukin 10 limits skin pathology in contact dermatitis and chronic irradiation with ultraviolet B** *NATURE IMMUNOLOGY*  
Grimbaldeston, M. A., Nakae, S., Kalesnikoff, J., Tsai, M., Galli, S. J.  
2007; 8 (10): 1095-1104
  - **Mast cell-derived TNF contributes to airway hyperreactivity, inflammation, and T(H)2 cytokine production in an asthma model in mice** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Nakae, S., Ho, L. H., Yu, M., Monteforte, R., Iikura, M., Suto, H., Galli, S. J.  
2007; 120 (1): 48-55
  - **Roles of RabGEF1/Rabex-5 domains in regulating Fc epsilon RI surface expression and Fc epsilon RI-dependent responses in mast cells** *BLOOD*  
Kalesnikoff, J., Rios, E. J., Chen, C., Barbieri, M. A., Tsai, M., Tam, S., Galli, S. J.  
2007; 109 (12): 5308-5317
  - **Mast cells in the promotion and limitation of chronic inflammation** *IMMUNOLOGICAL REVIEWS*  
Metz, M., Grimbaldeston, M. A., Nakae, S., Piliponsky, A. M., Tsai, M., Galli, S. J.  
2007; 217: 304-328
  - **Mast cell-derived TNF can promote Th17 cell-dependent neutrophil recruitment in ovalbumin-challenged OTII mice** *BLOOD*  
Nakae, S., Suto, H., Berry, G. J., Galli, S. J.  
2007; 109 (9): 3640-3648

- **TNF can contribute to multiple features of ovalbumin-induced allergic inflammation of the airways in mice** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Nakae, S., Lunderius, C., Ho, L. H., Schafer, B., Tsai, M., Galli, S. J.  
2007; 119 (3): 680-686
- **Effector and potential immunoregulatory roles of mast cells in IgE-associated acquired immune responses** *CURRENT OPINION IN IMMUNOLOGY*  
Grimbaldeston, M. A., Metz, M., Yu, M., Tsai, M., Galli, S. J.  
2006; 18 (6): 751-760
- **Mast cell-derived tumor necrosis factor can promote nerve fiber elongation in the skin during contact hypersensitivity in mice** *AMERICAN JOURNAL OF PATHOLOGY*  
Kakurai, M., Monteforte, R., Suto, H., Tsai, M., Nakae, S., Galli, S. J.  
2006; 169 (5): 1713-1721
- **Mast cells can enhance resistance to snake and honeybee venoms** *SCIENCE*  
Metz, M., Piliponsky, A. M., Chen, C., Lammel, V., Abrink, M., Pejler, G., Tsai, M., Galli, S. J.  
2006; 313 (5786): 526-530
- **Mast cells can promote the development of multiple features of chronic asthma in mice** *JOURNAL OF CLINICAL INVESTIGATION*  
Yu, M., Tsai, M., Tam, S., Jones, C., Zehnder, J., Galli, S. J.  
2006; 116 (6): 1633-1641
- **Mast cell-associated TNF promotes dendritic cell migration** *JOURNAL OF IMMUNOLOGY*  
Suto, H., Nakae, S., Kakurai, M., Sedgwick, J. D., Tsai, M., Galli, S. J.  
2006; 176 (7): 4102-4112
- **RabGEF1 regulates stem cell factor/c-Kit-mediated signaling events and biological responses in mast cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Kalesnikoff, J., Rios, E. J., Chen, C. C., Nakae, S., Zabel, B. A., BUTCHER, E. C., Tsai, M., Tam, S. Y., Galli, S. J.  
2006; 103 (8): 2659-2664
- **Mast cells enhance T cell activation: Importance of mast cell costimulatory molecules and secreted TNF** *JOURNAL OF IMMUNOLOGY*  
Nakae, S., Suto, H., Iikura, M., Kakurai, M., Sedgwick, J. D., Tsai, M., Galli, S. J.  
2006; 176 (4): 2238-2248
- **Second symposium on the definition and management of anaphylaxis: summary report--Second National Institute of Allergy and Infectious Disease/Food Allergy and Anaphylaxis Network symposium.** *journal of allergy and clinical immunology*  
Sampson, H. A., Muñoz-Furlong, A., Campbell, R. L., Adkinson, N. F., Bock, S. A., Branum, A., Brown, S. G., Camargo, C. A., Cydulka, R., Galli, S. J., Gidudu, J., Gruchalla, R. S., Harlor, et al  
2006; 117 (2): 391-397
- **A key regulatory role for histamine in experimental autoimmune encephalomyelitis: Disease exacerbation in histidine decarboxylase-deficient mice** *JOURNAL OF IMMUNOLOGY*  
Musio, S., Gallo, B., Scabeni, S., Lapilla, M., Poliani, P. L., Matarese, G., Ohtsu, H., GALLI, S. J., Mantegazza, R., Steinman, L., Pedotti, R.  
2006; 176 (1): 17-26
- **Monomeric IgE enhances human mast cell chemokine production: ILA-4 augments and dexamethasone suppresses the response** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Matsuda, K., Piliponsky, A. M., Iikura, M., Nakae, S., Wang, E. W., Dutta, S. M., Kawakami, T., Tsai, M., Galli, S. J.  
2005; 116 (6): 1357-1363
- **Activity of the tyrosine kinase inhibitor PKC412 in a patient with mast cell leukemia with the D816V KIT mutation** *BLOOD*  
Gotlib, J., Berube, C., Growney, J. D., Chen, C. C., George, T. I., Williams, C., Kajiguchi, T., Ruan, J., Lilleberg, S. L., Durocher, J. A., Lichy, J. H., Wang, Y. F., Cohen, et al  
2005; 106 (8): 2865-2870
- **Mast cell-deficient W-sash c-kit mutant Kit(W-sh/W-sh) mice as a model for investigating mast cell biology in vivo** *AMERICAN JOURNAL OF PATHOLOGY*  
Grimbaldeston, M. A., Chen, C. C., Piliponsky, A. M., Tsai, M., Tam, S. Y., Galli, S. J.  
2005; 167 (3): 835-848

- **Identification of mast cell progenitors in adult mice** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Chen, C. C., Grimaldeston, M. A., Tsai, M., Weissman, I. L., Galli, S. J.  
2005; 102 (32): 11408-11413
- **Mast cells enhance T cell activation: Importance of mast cell-derived TNF** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Nakae, S., Suto, H., Kakurai, M., Sedgwick, J. D., Tsai, M., Galli, S. J.  
2005; 102 (18): 6467-6472
- **Pathogenesis and management of anaphylaxis: Current status and future challenges** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Galli, S. J.  
2005; 115 (3): 571-574
- **Decreased susceptibility of mast cell-deficient Kit(W)/Kit(W-v) mice to the development of 1,2-dimethylhydrazine-induced intestinal tumors** *LABORATORY INVESTIGATION*  
Wedemeyer, J., Galli, S. J.  
2005; 85 (3): 388-396
- **Symposium on the definition and management of anaphylaxis: Summary report** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Sampson, H. A., Munoz-Furlong, A., Bock, A., Schmitt, M., Bass, R., Chowdhury, B. A., Decker, W. W., Furlong, T. J., GALLI, S. J., Golden, D. B., Gruchalla, R. S., Harlor, A. D., Hepner, et al  
2005; 115 (3): 584-591
- **Mast cells in the development of adaptive immune responses** *NATURE IMMUNOLOGY*  
Galli, S. J., Nakae, S., Tsai, M.  
2005; 6 (2): 135-142
- **Mast cells as "tunable" effector and immunoregulatory cells: Recent advances** *ANNUAL REVIEW OF IMMUNOLOGY*  
Galli, S. J., Kalesnikoff, J., Grimaldeston, M. A., Piliponsky, A. M., Williams, C. M., Tsai, M.  
2005; 23: 749-786
- **RabGEF1, a negative regulator of Ras signalling, mast cell activation and skin inflammation.** *Novartis Foundation symposium*  
Tam, S., Kalesnikoff, J., Nakae, S., Tsai, M., Galli, S. J.  
2005; 271: 115-124
- **Mast cells promote homeostasis by limiting endothelin-1-induced toxicity** *NATURE*  
Maurer, M., Wedemeyer, J., Metz, M., Piliponsky, A. M., Weller, K., Chatterjea, D., Clouthier, D. E., Yanagisawa, M. M., Tsai, M., Galli, S. J.  
2004; 432 (7016): 512-516
- **RabGEF1 is a negative regulator of mast cell activation and skin inflammation** *NATURE IMMUNOLOGY*  
Tam, S. Y., Tsai, M., Snouwaert, J. N., Kalesnikoff, J., Scherrer, D., Nakae, S., Chatterjea, D., Bouley, D. M., Galli, S. J.  
2004; 5 (8): 844-852
- **Immune sensitization in the skin is enhanced by antigen-independent effects of IgE** *IMMUNITY*  
Bryce, P. J., Miller, M. L., Miyajima, I., Tsai, M., GALLI, S. J., Oettgen, H. C.  
2004; 20 (4): 381-392
- **Chair's introduction. Anaphylaxis.** *Novartis Foundation symposium*  
Galli, S. J.  
2004; 257: 1-5
- **Evidence that IgE molecules mediate a spectrum of effects on mast cell survival and activation via aggregation of the Fc epsilon RI** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Kitaura, J., Song, J. M., Tsai, M., Asai, K., Maeda-Yamamoto, M., Mocsai, A., Kawakami, Y., Liu, F. T., Lowell, C. A., Barisas, B. G., GALLI, S. J., Kawakami, T.  
2003; 100 (22): 12911-12916
- **Involvement of both 'allergic' and 'autoimmune' mechanisms in EAE, MS and other autoimmune diseases** *TRENDS IN IMMUNOLOGY*  
Pedotti, R., De Voss, J. J., Steinman, L., GALLI, S. J.



2003; 24 (9): 479-484

- **Identification of A(3) receptor- and mast cell-dependent and -independent components of adenosine-mediated airway responsiveness in mice** *JOURNAL OF IMMUNOLOGY*  
Tilley, S. L., Tsai, M., Williams, C. M., Wang, Z. S., Erikson, C. J., GALLI, S. J., Koller, B. H.  
2003; 171 (1): 331-337
- **Severe anaphylactic reactions to glutamic acid decarboxylase (GAD) self peptides in NOD mice that spontaneously develop autoimmune type 1 diabetes mellitus.** *BMC immunology*  
Pedotti, R., Sanna, M., Tsai, M., DeVoss, J., Steinman, L., McDevitt, H., Galli, S. J.  
2003; 4: 2-?
- **Multiple elements of the allergic arm of the immune response modulate autoimmune demyelination** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Pedotti, R., DeVoss, J. J., Youssef, S., Mitchell, D., Wedemeyer, J., Madanat, R., Garren, H., Fontoura, P., Tsai, M., GALLI, S. J., Sobel, R. A., Steinman, L.  
2003; 100 (4): 1867-1872
- **Regulation of mast-cell and basophil function and survival by IgE** *NATURE REVIEWS IMMUNOLOGY*  
Kawakami, T., Galli, S. J.  
2002; 2 (10): 773-786
- **Probing the roles of mast cells and basophils in natural and acquired immunity, physiology and disease.** *Trends in immunology*  
Marone, G., Galli, S. J., Kitamura, Y.  
2002; 23 (9): 425-427
- **Transcriptional response of human mast cells stimulated via the Fc(epsilon)RI and identification of mast cells as a source of IL-11.** *BMC immunology*  
Sayama, K., Diehn, M., Matsuda, K., Lunderius, C., Tsai, M., Tam, S., Botstein, D., Brown, P. O., Galli, S. J.  
2002; 3: 5-?
- **Gene-microarray analysis of multiple sclerosis lesions yields new targets validated in autoimmune encephalomyelitis** *NATURE MEDICINE*  
Lock, C., Hermans, G., Pedotti, R., Brendolan, A., Schadt, E., Garren, H., Langer-Gould, A., Strober, S., Cannella, B., Allard, J., Klonowski, P., Austin, A., Lad, et al  
2002; 8 (5): 500-508
- **Regulation of mast cell survival by IgE** *IMMUNITY*  
Asai, K., Kitaura, J., Kawakami, Y., Yamagata, N., Tsai, M., Carbone, D. P., Liu, F. T., GALLI, S. J., Kawakami, T.  
2001; 14 (6): 791-800
- **An unexpected version of horror autotoxicus. Anaphylactic shock to a self peptide.**  
Pedotti, R., Mitchell, D., Wedemeyer, J., Karpuj, M., Chabas, D., Tsai, M., GALLI, S. J., Steinman, L.  
FEDERATION AMER SOC EXP BIOL.2001: A1218-A1218
- **The transcriptional program in human mast cells stimulated via the Fc[epsilon]RI: New insights into the immunological functions of mast cells in allergic inflammation.**  
Tsai, M., Sayama, K., Diehn, M., Zehnder, J., Jones, C., Botstein, D., Brown, P. O., GALLI, S. J.  
FEDERATION AMER SOC EXP BIOL.2001: A1020-A1020
- **An unexpected version of horror autotoxicus: anaphylactic shock to a self peptide** *NATURE IMMUNOLOGY*  
Pedotti, R., Mitchell, D., Wedemeyer, J., Karpuj, M., Chabas, D., Hattab, E. M., Tsai, M., GALLI, S. J., Steinman, L.  
2001; 2 (3): 216-222
- **Mast cells can amplify airway reactivity and features of chronic inflammation in an asthma model in mice** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Williams, C. M., Galli, S. J.  
2000; 192 (3): 455-462
- **In vivo immunological function of mast cells derived from embryonic stem cells: An approach for the rapid analysis of even embryonic lethal mutations in adult mice in vivo** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Tsai, M., Wedemeyer, J., Ganiatsas, S., Tam, S. Y., Zon, L. I., GALLI, S. J.  
2000; 97 (16): 9186-9190
- **A role for Bax in the regulation of apoptosis in mouse mast cells** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*

- Maurer, M., Tsai, M., Metz, M., Fish, S., Korsmeyer, S. J., GALLI, S. J.  
2000; 114 (6): 1205-1206
- **The diverse potential effector and immunoregulatory roles of mast cells in allergic disease** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Williams, C. M., GALLI, S. J.  
2000; 105 (5): 847-859
  - **Phenotype and in vivo function of mast cells derived from mouse embryonic stem cells.**  
Tsai, M., Wedemeyer, J., Ganiatsas, S., Tam, S. Y., Zon, L. I., GALLI, S. J.  
FEDERATION AMER SOC EXP BIOL.2000: A1128-A1128
  - **Mast cells and basophils** *CURRENT OPINION IN HEMATOLOGY*  
Galli, S. J.  
2000; 7 (1): 32-39
  - **Mast-cell heparin demystified.** *Nature*  
Zehnder, J. L., GALLI, S. J.  
1999; 400 (6746): 714-715
  - **IgE enhances Fc epsilon receptor I expression and IgE-dependent release of histamine and lipid mediators from human umbilical cord blood-derived mast cells: Synergistic effect of IL-4 and IgE on human mast cell Fc epsilon receptor I expression and mediator release** *JOURNAL OF IMMUNOLOGY*  
Yamaguchi, M., Sayama, K., Yano, K., Lantz, C. S., Noben-Trauth, N., Ra, C., Costa, J. J., GALLI, S. J.  
1999; 162 (9): 5455-5465
  - **Spontaneous canine mast cell tumors express tandem duplications in the proto-oncogene c-kit** *EXPERIMENTAL HEMATOLOGY*  
London, C. A., GALLI, S. J., Yuuki, T., Hu, Z. Q., Helfand, S. C., Geissler, E. N.  
1999; 27 (4): 689-697
  - **Mast cells as sentinels of innate immunity** *CURRENT OPINION IN IMMUNOLOGY*  
Galli, S. J., Maurer, M., Lantz, C. S.  
1999; 11 (1): 53-59
  - **The c-kit ligand, stem cell factor, can enhance innate immunity through effects on mast cells** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Maurer, M., Echtenacher, B., Hultner, L., Kollias, G., Mannel, D. N., Langley, K. E., Galli, S. J.  
1998; 188 (12): 2343-2348
  - **Mast cells can secrete vascular permeability factor vascular endothelial cell growth factor and exhibit enhanced release after immunoglobulin E-dependent upregulation of Fc epsilon receptor I expression** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Boesiger, J., Tsai, M., Maurer, M., Yamaguchi, M., BROWN, L. F., CLAFFEY, K. P., Dvorak, H. F., Galli, S. J.  
1998; 188 (6): 1135-1145
  - **Involvement of Bruton's tyrosine kinase in Fc epsilon RI-dependent mast cell degranulation and cytokine production** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Hata, D., Kawakami, Y., Inagaki, N., Lantz, C. S., Kitamura, T., Khan, W. N., Maeda-Yamamoto, M., Miura, T., Han, W., Hartman, S. E., Yao, L., Nagai, H., Goldfeld, et al  
1998; 187 (8): 1235-1247
  - **P- and E-selectins are required for the leukocyte recruitment, but not the tissue swelling, associated with IgE- and mast cell-dependent inflammation in mouse skin** *LABORATORY INVESTIGATION*  
de Mora, F., Williams, C. M., Frenette, P. S., Wagner, D. D., HYNES, R. O., GALLI, S. J.  
1998; 78 (4): 497-505
  - **Role for interleukin-3 in mast-cell and basophil development and in immunity to parasites** *NATURE*  
Lantz, C. S., Boesiger, J., Song, C. H., MACH, N., Kobayashi, T., Mulligan, R. C., Nawa, Y., Dranoff, G., GALLI, S. J.  
1998; 392 (6671): 90-93
  - **Involvement of interleukin-3 in delayed-type hypersensitivity** *BLOOD*  
MACH, N., Lantz, C. S., GALLI, S. J., Reznikoff, G., Mihm, M., Small, C., Granstein, R., Beissert, S., Sadelain, M., Mulligan, R. C., Dranoff, G.  
1998; 91 (3): 778-783
  - **Impaired mast cell-dependent natural immunity in complement C3-deficient mice** *NATURE*

- Prodeus, A. P., Zhou, X. N., Maurer, M., GALLI, S. J., Carroll, M. C.  
1997; 390 (6656): 172-175
- **Expression of functional TrkA receptor tyrosine kinase in the HMC-1 human mast cell line and in human mast cells** *BLOOD*  
Tam, S. Y., Tsai, M., Yamaguchi, M., Yano, K., Butterfield, J. H., GALLI, S. J.  
1997; 90 (5): 1807-1820
  - **Complexity and redundancy in the pathogenesis of asthma: Reassessing the roles of mast cells and T cells** *JOURNAL OF EXPERIMENTAL MEDICINE*  
GALLI, S. J.  
1997; 186 (3): 343-347
  - **The Paul Kallos Memorial Lecture. The mast cell: a versatile effector cell for a challenging world.** *International archives of allergy and immunology*  
GALLI, S. J.  
1997; 113 (1-3): 14-22
  - **Differential release of mast cell interleukin-6 via c-kit** *BLOOD*  
Gagari, E., Tsai, M., Lantz, C. S., FOX, L. G., GALLI, S. J.  
1997; 89 (8): 2654-2663
  - **IgE regulates mouse basophil Fc epsilon RI expression in vivo** *JOURNAL OF IMMUNOLOGY*  
Lantz, C. S., Yamaguchi, M., Oettgen, H. C., Katona, I. M., Miyajima, I., Kinet, J. P., GALLI, S. J.  
1997; 158 (6): 2517-2521
  - **Absence of Fc(epsilon)RI alpha chain results in upregulation of Fc gamma RIII-dependent mast cell degranulation and anaphylaxis - Evidence of competition between Fc(epsilon)RI and Fc gamma RIII for limiting amounts of FcR beta and gamma chains** *JOURNAL OF CLINICAL INVESTIGATION*  
Dombrowicz, D., Flamand, V., Miyajima, I., Ravetch, J. V., GALLI, S. J., Kinet, J. P.  
1997; 99 (5): 915-925
  - **Systemic anaphylaxis in the mouse can be mediated largely through IgG, and Fc gamma RIII - Assessment of the cardiopulmonary changes, mast cell degranulation, and death associated with active or IgE- or IgG(1)-dependent passive anaphylaxis** *JOURNAL OF CLINICAL INVESTIGATION*  
Miyajima, I., Dombrowicz, D., Martin, T. R., Ravetch, J. V., Kinet, J. P., GALLI, S. J.  
1997; 99 (5): 901-914
  - **IgE enhances mouse mast cell Fc epsilon RI expression in vitro and in vivo: Evidence for a novel amplification mechanism in IgE-dependent reactions** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Yamaguchi, M., Lantz, C. S., Oettgen, H. C., Katona, I. M., Fleming, T., Miyajima, I., Kinet, J. P., GALLI, S. J.  
1997; 185 (4): 663-672
  - **Earthquakes: Slow down for safety** *NATURE*  
Segall, P.  
1996; 383 (6595): 21-22
  - **Genetic analysis reveals cell type-specific regulation of receptor tyrosine kinase c-Kit by the protein tyrosine phosphatase SHP1** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Lorenz, U., Bergemann, A. D., Steinberg, H. N., Flanagan, J. G., Li, X. T., GALLI, S. J., Neel, B. G.  
1996; 184 (3): 1111-1126
  - **Recombinant human stem cell factor (kit ligand) promotes human mast cell and melanocyte hyperplasia and functional activation in vivo** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Costa, J. J., Demetri, G. D., Harrist, T. J., Dvorak, A. M., Hayes, D. F., Merica, E. A., Menchaca, D. M., Gringeri, A. J., SCHWARTZ, L. B., GALLI, S. J.  
1996; 183 (6): 2681-2686
  - **Identification of a committed precursor for the mast cell lineage** *SCIENCE*  
Rodewald, H. R., Dessing, M., Dvorak, A. M., GALLI, S. J.  
1996; 271 (5250): 818-822
  - **STEM-CELL FACTOR CONTRIBUTES TO INTESTINAL MUCOSAL MAST-CELL HYPERPLASIA IN RATS INFECTED WITH NIPPOSTRONGYLUS-BRASILIENSIS OR TRICHINELLA-SPIRALIS, BUT ANTI-STEM CELL FACTOR TREATMENT DECREASES PARASITE EGG-PRODUCTION DURING N-BRASILIENSIS INFECTION** *BLOOD*  
Newlands, G. F., Miller, H. R., MacKellar, A., GALLI, S. J.  
1995; 86 (5): 1968-1976

- **DEXAMETHASONE OR CYCLOSPORINE-A SUPPRESS MAST CELL-LEUKOCYTE CYTOKINE CASCADES - MULTIPLE MECHANISMS OF INHIBITION OF IGE-DEPENDENT AND MAST-CELL-DEPENDENT CUTANEOUS INFLAMMATION IN THE MOUSE** *JOURNAL OF IMMUNOLOGY*  
Wershil, B. K., Furuta, G. T., Lavigne, J. A., Choudhury, A. R., Wang, Z. S., GALLI, S. J.  
1995; 154 (3): 1391-1398
- **The effects of stem cell factor, the ligand for the c-kit receptor, on mouse and human mast cell development, survival, and function** *International Symposium on Biological and Molecular Aspects of Mast Cell and Basophil Differentiation and Function*  
GALLI, S. J., Tsai, M., Wershil, B. K., Iemura, A., Ando, A., Tam, S. Y., Costa, J. J.  
RAVEN PRESS.1995: 1-11
- **Mast cell hyperplasia and activation in the context of helminth infection, a role for stem cell factor?** *International Symposium on Biological and Molecular Aspects of Mast Cell and Basophil Differentiation and Function*  
Scudamore, C. L., Newlands, G. F., GALLI, S. J., Miller, H. R.  
RAVEN PRESS.1995: 211-224
- **PROMOTION OF MOUSE FIBROBLAST COLLAGEN GENE-EXPRESSION BY MAST-CELLS STIMULATED VIA THE FC(EPSILON)RI - ROLE FOR MAST CELL-DERIVED TRANSFORMING GROWTH-FACTOR-BETA AND TUMOR-NECROSIS-FACTOR-ALPHA** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Gordon, J. R., GALLI, S. J.  
1994; 180 (6): 2027-2037
- **CYTOPLASMIC GRANULE FORMATION IN MOUSE PANCREATIC ACINAR-CELLS - EVIDENCE FOR FORMATION OF IMMATURE GRANULES (CONDENSING VACUOLES) BY AGGREGATION AND FUSION OF PROGRANULES OF UNIT SIZE, AND FOR REDUCTIONS IN MEMBRANE-SURFACE AREA AND IMMATURE GRANULE VOLUME DURING GRANULE MATURATION** *CELL AND TISSUE RESEARCH*  
LEW, S., Hammel, I., GALLI, S. J.  
1994; 278 (2): 327-336
- **PIECEMEAL DEGRANULATION OF MAST-CELLS IN THE INFLAMMATORY EYELID LESIONS OF INTERLEUKIN-4 TRANSGENIC MICE - EVIDENCE OF MAST-CELL HISTAMINE-RELEASE IN-VIVO BY DIAMINE OXIDASE-GOLD ENZYME-AFFINITY ULTRASTRUCTURAL CYTOCHEMISTRY** *BLOOD*  
Dvorak, A. M., Tepper, R. I., Weller, P. F., Morgan, E. S., ESTRELLA, P., MONAHANEARLEY, R. A., GALLI, S. J.  
1994; 83 (12): 3600-3612
- **MAST-CELLS AUGMENT LESION SIZE AND PERSISTENCE DURING EXPERIMENTAL LEISHMANIA-MAJOR INFECTION IN THE MOUSE** *JOURNAL OF IMMUNOLOGY*  
Wershil, B. K., Theodos, C. M., GALLI, S. J., Titus, R. G.  
1994; 152 (9): 4563-4571
- **IDENTIFICATION OF IGE-BEARING CELLS IN THE LATE-PHASE RESPONSE TO ANTIGEN IN THE LUNG AS BASOPHILS** *AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY*  
Guo, C. B., Liu, M. C., GALLI, S. J., Bochner, B. S., KAGEYSBOTKA, A., LICHTENSTEIN, L. M.  
1994; 10 (4): 384-390
- **THE KIT-LIGAND, STEM-CELL FACTOR** *ADVANCES IN IMMUNOLOGY, VOL 55*  
GALLI, S. J., Zsebo, K. M., Geissler, E. N.  
1994; 55: 1-96
- **EFFECTS OF INTERLEUKIN-3 WITH OR WITHOUT THE C-KIT LIGAND, STEM-CELL FACTOR, ON THE SURVIVAL AND CYTOPLASMIC GRANULE FORMATION OF MOUSE BASOPHILS AND MAST-CELLS IN-VITRO** *AMERICAN JOURNAL OF PATHOLOGY*  
Dvorak, A. M., SEDER, R. A., PAUL, W. E., Morgan, E. S., GALLI, S. J.  
1994; 144 (1): 160-170
- **EFFECTS OF CHRONIC TREATMENT WITH THE C-KIT LIGAND, STEM-CELL FACTOR, ON IMMUNOGLOBULIN-E DEPENDENT ANAPHYLAXIS IN MICE - GENETICALLY MAST-CELL DEFICIENT SL/SL(D) MICE ACQUIRE ANAPHYLACTIC RESPONSIVENESS, BUT THE CONGENIC NORMAL MICE DO NOT EXHIBIT AUGMENTED RESPONSES** *JOURNAL OF CLINICAL INVESTIGATION*  
Ando, A., Martin, T. R., GALLI, S. J.  
1993; 92 (4): 1639-1649
- **MAST-CELLS CONTRIBUTE TO THE CHANGES IN HEART-RATE, BUT NOT HYPOTENSION OR DEATH, ASSOCIATED WITH ACTIVE ANAPHYLAXIS IN MICE** *JOURNAL OF IMMUNOLOGY*  
Martin, T. R., Ando, A., Takeishi, T., Katona, I. M., Drazen, J. M., GALLI, S. J.

- 1993; 151 (1): 367-376
- **SEQUENTIAL EXPRESSION OF TRANSFORMING GROWTH-FACTOR-ALPHA AND FACTOR-BETA(1) BY EOSINOPHILS DURING CUTANEOUS WOUND-HEALING IN THE HAMSTER** *AMERICAN JOURNAL OF PATHOLOGY*  
Wong, D. T., Donoff, R. B., Yang, J., Song, B. Z., Matossian, K., NAGURA, N., Elovic, A., McBride, J., Gallagher, G., Todd, R., Chiang, T., Chou, L. S., Yung, et al  
1993; 143 (1): 130-142
  - **HUMAN EOSINOPHILS CAN EXPRESS THE CYTOKINES TUMOR-NECROSIS-FACTOR-ALPHA AND MACROPHAGE INFLAMMATORY PROTEIN-1-ALPHA** *JOURNAL OF CLINICAL INVESTIGATION*  
Costa, J. J., Matossian, K., Resnick, M. B., Beil, W. J., Wong, D. T., Gordon, J. R., Dvorak, A. M., Weller, P. F., GALLI, S. J.  
1993; 91 (6): 2673-2684
  - **DISTINCT PATTERNS OF EARLY RESPONSE GENE-EXPRESSION AND PROLIFERATION IN MOUSE MAST-CELLS STIMULATED BY STEM-CELL FACTOR, INTERLEUKIN-3, OR IGE AND ANTIGEN** *EUROPEAN JOURNAL OF IMMUNOLOGY*  
Tsai, M., Tam, S. Y., GALLI, S. J.  
1993; 23 (4): 867-872
  - **CLONING AND FUNCTIONAL-ANALYSIS OF THE MOUSE C-KIT PROMOTER** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*  
Yasuda, H., GALLI, S. J., Geissler, E. N.  
1993; 191 (3): 893-901
  - **MAST-CELL ACTIVATION ENHANCES AIRWAY RESPONSIVENESS TO METHACHOLINE IN THE MOUSE** *JOURNAL OF CLINICAL INVESTIGATION*  
Martin, T. R., Takeishi, T., Katz, H. R., Austen, K. F., Drazen, J. M., GALLI, S. J.  
1993; 91 (3): 1176-1182
  - **New concepts about the mast cell.** *New England journal of medicine*  
GALLI, S. J.  
1993; 328 (4): 257-265
  - **REVERSIBLE EXPANSION OF PRIMATE MAST-CELL POPULATIONS INVIVO BY STEM-CELL FACTOR** *JOURNAL OF CLINICAL INVESTIGATION*  
GALLI, S. J., Iemura, A., Garlick, D. S., GAMBAVITALO, C., Zsebo, K. M., Andrews, R. G.  
1993; 91 (1): 148-152
  - **THE HUMAN RECOMBINANT C-KIT RECEPTOR LIGAND, RHSCF, INDUCES MEDIATOR RELEASE FROM HUMAN CUTANEOUS MAST-CELLS AND ENHANCES IGE-DEPENDENT MEDIATOR RELEASE FROM BOTH SKIN MAST-CELLS AND PERIPHERAL-BLOOD BASOPHILS** *JOURNAL OF IMMUNOLOGY*  
Columbo, M., Horowitz, E. M., Botana, L. M., MacGlashan, D. W., Bochner, B. S., Gillis, S., Zsebo, K. M., GALLI, S. J., LICHTENSTEIN, L. M.  
1992; 149 (2): 599-608
  - **THE RAT C-KIT LIGAND, STEM-CELL FACTOR, INDUCES C-KIT RECEPTOR-DEPENDENT MOUSE MAST-CELL ACTIVATION INVIVO - EVIDENCE THAT SIGNALING THROUGH THE C-KIT RECEPTOR CAN INDUCE EXPRESSION OF CELLULAR FUNCTION** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Wershil, B. K., Tsai, M., Geissler, E. N., Zsebo, K. M., GALLI, S. J.  
1992; 175 (1): 245-255
  - **EFFECT OF RECOMBINANT HUMAN C-KIT RECEPTOR LIGAND ON MEDIATOR RELEASE FROM HUMAN SKIN MAST-CELLS** *19TH SYMP OF COLLEGIUM-INTERNATIONALE-ALLERGOLOGICUM : CHEMICAL MEDIATORS AND CELLULAR INTERACTIONS IN CLINICAL IMMUNOLOGY*  
Columbo, M., Horowitz, E. M., Botana, L. M., MacGlashan, D. W., Bochner, B. S., Gillis, S., Zsebo, K. M., GALLI, S. J., LICHTENSTEIN, L. M.  
KARGER.1992: 323-25
  - **REGULATION OF MAST-CELL PROLIFERATION, MATURATION AND FUNCTION BY STEM-CELL FACTOR, A LIGAND FOR THE C-KIT RECEPTOR** *19TH SYMP OF COLLEGIUM-INTERNATIONALE-ALLERGOLOGICUM : CHEMICAL MEDIATORS AND CELLULAR INTERACTIONS IN CLINICAL IMMUNOLOGY*  
GALLI, S. J., Tsai, M., Wershil, B. K.  
KARGER.1992: 234-37
  - **CYTOKINE PRODUCTION BY MAST-CELLS AND BASOPHILS** *CURRENT OPINION IN IMMUNOLOGY*  
GALLI, S. J., Gordon, J. R., Wershil, B. K.

1991; 3 (6): 865-873

- **DIFFERENCES IN THE EXPRESSION OF THE CARDIOPULMONARY ALTERATIONS ASSOCIATED WITH ANTI-IMMUNOGLOBULIN-E-INDUCED OR ACTIVE ANAPHYLAXIS IN MAST-CELL DEFICIENT AND NORMAL MICE - MAST-CELLS ARE NOT REQUIRED FOR THE CARDIOPULMONARY CHANGES ASSOCIATED WITH CERTAIN FATAL ANAPHYLACTIC RESPONSES** *JOURNAL OF CLINICAL INVESTIGATION*  
Takeishi, T., Martin, T. R., Katona, I. M., Finkelman, F. D., GALLI, S. J.  
1991; 88 (2): 598-608
- **RELEASE OF BOTH PREFORMED AND NEWLY SYNTHESIZED TUMOR-NECROSIS-FACTOR-ALPHA (TNF-ALPHA)/CACHECTIN BY MOUSE MAST-CELLS STIMULATED VIA THE FC-EPSILON-RI - A MECHANISM FOR THE SUSTAINED ACTION OF MAST-CELL DERIVED TNF-ALPHA DURING IGE-DEPENDENT BIOLOGICAL RESPONSES** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Gordon, J. R., GALLI, S. J.  
1991; 174 (1): 103-107
- **INDUCTION OF MAST-CELL PROLIFERATION, MATURATION, AND HEPARIN SYNTHESIS BY THE RAT C-KIT LIGAND, STEM-CELL FACTOR** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Tsai, M., Takeishi, T., Thompson, H., Langley, K. E., Zsebo, K. M., Metcalfe, D. D., Geissler, E. N., GALLI, S. J.  
1991; 88 (14): 6382-6386
- **THE RAT C-KIT LIGAND, STEM-CELL FACTOR, INDUCES THE DEVELOPMENT OF CONNECTIVE-TISSUE TYPE AND MUCOSAL MAST-CELLS INVIVO - ANALYSIS BY ANATOMICAL DISTRIBUTION, HISTOCHEMISTRY, AND PROTEASE PHENOTYPE** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Tsai, M., Shih, L. S., Newlands, G. F., Takeishi, T., Langley, K. E., Zsebo, K. M., Miller, H. R., Geissler, E. N., GALLI, S. J.  
1991; 174 (1): 125-131
- **MOUSE SPLENIC AND BONE-MARROW CELL-POPULATIONS THAT EXPRESS HIGH-AFFINITY FC-EPSILON RECEPTORS AND PRODUCE INTERLEUKIN-4 ARE HIGHLY ENRICHED IN BASOPHILS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
SEDER, R. A., PAUL, W. E., Dvorak, A. M., Sharkis, S. J., KAGEYSOBOTKA, A., Niv, Y., Finkelman, F. D., BARBIERI, S. A., GALLI, S. J., Plaut, M.  
1991; 88 (7): 2835-2839
- **STEM-CELL FACTOR (SCF), A NOVEL HEMATOPOIETIC GROWTH-FACTOR AND LIGAND FOR C-KIT TYROSINE KINASE RECEPTOR, MAPS ON HUMAN-CHROMOSOME 12 BETWEEN 12Q14.3 AND 12QTER** *SOMATIC CELL AND MOLECULAR GENETICS*  
Geissler, E. N., Liao, M., BROOK, J. D., Martin, F. H., Zsebo, K. M., Housman, D. E., GALLI, S. J.  
1991; 17 (2): 207-214
- **RECRUITMENT OF NEUTROPHILS DURING IGE-DEPENDENT CUTANEOUS LATE PHASE REACTIONS IN THE MOUSE IS MAST CELL-DEPENDENT - PARTIAL INHIBITION OF THE REACTION WITH ANTISERUM AGAINST TUMOR-NECROSIS-FACTOR-ALPHA** *JOURNAL OF CLINICAL INVESTIGATION*  
Wershil, B. K., Wang, Z. S., Gordon, J. R., GALLI, S. J.  
1991; 87 (2): 446-453
- **ROLE OF MAST-CELLS IN ION-TRANSPORT ABNORMALITIES ASSOCIATED WITH INTESTINAL ANAPHYLAXIS - CORRECTION OF THE DIMINISHED SECRETORY RESPONSE IN GENETICALLY MAST CELL-DEFICIENT W/WV MICE BY BONE-MARROW TRANSPLANTATION** *JOURNAL OF CLINICAL INVESTIGATION*  
Perdue, M. H., Masson, S., Wershil, B. K., GALLI, S. J.  
1991; 87 (2): 687-693
- **MAST-CELL NERVE ASSOCIATIONS IN THE RAT SMALL-INTESTINE - AN ELECTRON-MICROSCOPIC STUDY USING ACETYLCHOLINESTERASE ENZYME-HISTOCHEMISTRY** *6TH INTERNATIONAL CONGRESS OF MUCOSAL IMMUNOLOGY*  
Arizono, N., Matsuda, S., Hattori, T., Kojima, Y., Maeda, T., GALLI, S. J.  
ELSEVIER SCIENCE PUBL B V.1991: 455-456
- **[I-125] FIBRIN DEPOSITION OCCURS AT BOTH EARLY AND LATE INTERVALS OF IGE-DEPENDENT OR CONTACT SENSITIVITY REACTIONS ELICITED IN MOUSE SKIN - MAST CELL-DEPENDENT AUGMENTATION OF FIBRIN DEPOSITION AT EARLY INTERVALS IN COMBINED IGE-DEPENDENT AND CONTACT SENSITIVITY REACTIONS** *JOURNAL OF IMMUNOLOGY*  
Mekori, Y. A., GALLI, S. J.  
1990; 145 (11): 3719-3727
- **MAST-CELLS AS A SOURCE OF MULTIFUNCTIONAL CYTOKINES** *IMMUNOLOGY TODAY*  
Gordon, J. R., Burd, P. R., GALLI, S. J.

1990; 11 (12): 458-464

- **STEM-CELL FACTOR IS ENCODED AT THE SI-LOCUS OF THE MOUSE AND IS THE LIGAND FOR THE C-KIT TYROSINE KINASE RECEPTOR** *CELL*  
Zsebo, K. M., Williams, D. A., Geissler, E. N., Broudy, V. C., Martin, F. H., Atkins, H. L., Hsu, R. Y., BIRKETT, N. C., OKINO, K. H., Murdock, D. C., Jacobsen, F. W., Langley, K. E., Smith, et al  
1990; 63 (1): 213-224
- **HUMAN EOSINOPHILS EXPRESS TRANSFORMING GROWTH FACTOR-ALPHA** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Wong, D. T., Weller, P. F., GALLI, S. J., Elovic, A., RAND, T. H., Gallagher, G. T., Chiang, T., Chou, M. Y., Matossian, K., McBride, J., Todd, R.  
1990; 172 (3): 673-681
- **MAST-CELLS AS A SOURCE OF BOTH PREFORMED AND IMMUNOLOGICALLY INDUCIBLE TNF-ALPHA CACHECTIN** *NATURE*  
Gordon, J. R., GALLI, S. J.  
1990; 346 (6281): 274-276
- **ANATOMICAL VARIATION IN MAST-CELL NERVE ASSOCIATIONS IN THE RAT SMALL-INTESTINE, HEART, LUNG, AND SKIN - SIMILARITIES OF DISTANCES BETWEEN NEURAL PROCESSES AND MAST-CELLS, EOSINOPHILS, OR PLASMA-CELLS IN THE JEJUNAL LAMINA PROPRIA** *LABORATORY INVESTIGATION*  
Arizono, N., Matsuda, S., Hattori, T., Kojima, Y., Maeda, T., GALLI, S. J.  
1990; 62 (5): 626-634
- **PHORBOL 12-MYRISTATE 13-ACETATE INDUCED DEVELOPMENT OF FUNCTIONALLY ACTIVE MAST-CELLS IN W/WV BUT NOT SL/SLD GENETICALLY MAST CELL-DEFICIENT MICE** *BLOOD*  
Gordon, J. R., GALLI, S. J.  
1990; 75 (8): 1637-1645
- **New insights into "the riddle of the mast cells": microenvironmental regulation of mast cell development and phenotypic heterogeneity.** *Laboratory investigation; a journal of technical methods and pathology*  
GALLI, S. J.  
1990; 62 (1): 5-33
- **GENERATION AND RECOGNITION OF VASOACTIVE-INTESTINAL-PEPTIDE BY CELLS OF THE IMMUNE-SYSTEM** *CONF ON NEUROPEPTIDES AND IMMUNOPEPTIDES : MESSENGERS IN A NEUROIMMUNE AXIS*  
Goetzl, E. J., Grotmol, T., VANDYKE, R. W., Turck, C. W., Wershil, B., GALLI, S. J., Sreedharan, S. P.  
NEW YORK ACAD SCIENCES.1990: 34-44
- **SUBSTANCE-P-INDUCED AUGMENTATION OF CUTANEOUS VASCULAR-PERMEABILITY AND GRANULOCYTE INFILTRATION IN MICE IS MAST-CELL DEPENDENT** *JOURNAL OF CLINICAL INVESTIGATION*  
Yano, H., Wershil, B. K., Arizono, N., GALLI, S. J.  
1989; 84 (4): 1276-1286
- **INTERLEUKIN-3-DEPENDENT AND INTERLEUKIN-3-INDEPENDENT MAST-CELLS STIMULATED WITH IGE AND ANTIGEN EXPRESS MULTIPLE CYTOKINES** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Burd, P. R., ROGERS, H. W., Gordon, J. R., Martin, C. A., Jayaraman, S., Wilson, S. D., Dvorak, A. M., GALLI, S. J., Dorf, M. E.  
1989; 170 (1): 245-257
- **ROLE OF MAST-CELLS IN ANAPHYLAXIS - EVIDENCE FOR THE IMPORTANCE OF MAST-CELLS IN THE CARDIOPULMONARY ALTERATIONS AND DEATH INDUCED BY ANTI-IGE IN MICE** *JOURNAL OF CLINICAL INVESTIGATION*  
Martin, T. R., GALLI, S. J., Katona, I. M., Drazen, J. M.  
1989; 83 (4): 1375-1383
- **MAST-CELLS - IMMUNOLOGICALLY SPECIFIC EFFECTORS AND POTENTIAL SOURCES OF MULTIPLE CYTOKINES DURING IGE-DEPENDENT RESPONSES** *SYMP ON IGE, MAST CELLS AND THE ALLERGIC RESPONSE*  
GALLI, S. J., Wershil, B. K., Gordon, J. R., Martin, T. R.  
JOHN WILEY & SONS LTD.1989: 53-73
- **MAST-CELLS - IMMUNOLOGICALLY SPECIFIC EFFECTORS AND POTENTIAL SOURCES OF MULTIPLE CYTOKINES DURING IGE-DEPENDENT RESPONSES** *CIBA FOUNDATION SYMPOSIA*  
GALLI, S. J., Wershil, B. K., Gordon, J. R., Martin, T. R.  
1989; 147: 53-73

- **MULTIPLE BIDIRECTIONAL ALTERATIONS OF PHENOTYPE AND CHANGES IN PROLIFERATIVE POTENTIAL DURING THE INVITRO AND INVIVO PASSAGE OF CLONAL MAST-CELL POPULATIONS DERIVED FROM MOUSE PERITONEAL MAST-CELLS** *BLOOD*  
Kanakura, Y., Thompson, H., Nakano, T., YAMAMURA, T. I., Asai, H., Kitamura, Y., Metcalfe, D. D., GALLI, S. J.  
1988; 72 (3): 877-885
- **PULMONARY RESPONSES TO BRONCHOCONSTRICTOR AGONISTS IN THE MOUSE** *JOURNAL OF APPLIED PHYSIOLOGY*  
Martin, T. R., Gerard, N. P., GALLI, S. J., Drazen, J. M.  
1988; 64 (6): 2318-2323
- **MAST CELL-DEPENDENT AMPLIFICATION OF AN IMMUNOLOGICALLY NONSPECIFIC INFLAMMATORY RESPONSE - MAST-CELLS ARE REQUIRED FOR THE FULL EXPRESSION OF CUTANEOUS ACUTE-INFLAMMATION INDUCED BY PHORBOL 12-MYRISTATE 13-ACETATE** *JOURNAL OF IMMUNOLOGY*  
Wershil, B. K., Murakami, T., GALLI, S. J.  
1988; 140 (7): 2356-2360
- **BASOPHIL INFLUX OCCURS AFTER NASAL ANTIGEN CHALLENGE - EFFECTS OF TOPICAL CORTICOSTEROID PRETREATMENT** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
BASCOM, R., WACHS, M., NACLERIO, R. M., PIPKORN, U., GALLI, S. J., LICHTENSTEIN, L. M.  
1988; 81 (3): 570-574
- **Basophil influx occurs after nasal antigen challenge: effects of topical corticosteroid pretreatment.** *journal of allergy and clinical immunology*  
BASCOM, R., WACHS, M., NACLERIO, R. M., PIPKORN, U., GALLI, S. J., LICHTENSTEIN, L. M.  
1988; 81 (3): 580-589
- **RAPID MICROWAVE FIXATION OF RAT MAST-CELLS .1. LOCALIZATION OF GRANULE CHYMASE WITH AN ULTRASTRUCTURAL POSTEMBEDDING IMMUNOGOLD TECHNIQUE** *LABORATORY INVESTIGATION*  
Login, G. R., GALLI, S. J., Morgan, E., Arizono, N., SCHWARTZ, L. B., Dvorak, A. M.  
1987; 57 (5): 592-599
- **I-125 FIBRIN DEPOSITION IN IGE-DEPENDENT IMMEDIATE HYPERSENSITIVITY REACTIONS IN MOUSE SKIN - DEMONSTRATION OF THE ROLE OF MAST-CELLS USING GENETICALLY MAST CELL-DEFICIENT MICE LOCALLY RECONSTITUTED WITH CULTURED MAST-CELLS** *JOURNAL OF IMMUNOLOGY*  
Wershil, B. K., Mekori, Y. A., Murakami, T., GALLI, S. J.  
1987; 139 (8): 2605-2614
- **STUDIES OF THE ROLE OF MAST-CELLS IN CONTACT SENSITIVITY RESPONSES - PASSIVE TRANSFER OF THE REACTION INTO MAST CELL-DEFICIENT MICE LOCALLY RECONSTITUTED WITH CULTURED MAST-CELLS - EFFECT OF RESERPINE ON TRANSFER OF THE REACTION WITH DNP-SPECIFIC CLONED T-CELLS** *CELLULAR IMMUNOLOGY*  
Mekori, Y. A., Chang, J. C., Wershil, B. K., GALLI, S. J.  
1987; 109 (1): 39-52
- **ETHANOL-INDUCED ACUTE GASTRIC INJURY IN MAST CELL-DEFICIENT AND CONGENIC NORMAL MICE - EVIDENCE THAT MAST-CELLS CAN AUGMENT THE AREA OF DAMAGE** *AMERICAN JOURNAL OF PATHOLOGY*  
GALLI, S. J., Wershil, B. K., Bose, R., Walker, P. A., Szabo, S.  
1987; 128 (1): 131-140
- **CLONED ANOMALOUS KILLER-CELLS DERIVED FROM ALLOGENEIC MIXED LEUKOCYTE-CULTURE** *CELLULAR IMMUNOLOGY*  
Benson, E. M., Giorgi, J. V., Dvorak, A. M., GALLI, S. J., Russell, P. S.  
1987; 107 (1): 201-218
- **DEVELOPMENT OF LARGE NUMBERS OF MAST-CELLS AT SITES OF IDIOPATHIC CHRONIC DERMATITIS IN GENETICALLY MAST-CELL DEFICIENT WBB6F1-W/WV MICE** *BLOOD*  
GALLI, S. J., Arizono, N., Murakami, T., Dvorak, A. M., Fox, J. G.  
1987; 69 (6): 1661-1666
- **NONSPECIFIC ESTERASE-ACTIVITY EXPRESSED IN WEIBEL-PALADE BODIES OF CLONED GUINEA-PIG AORTIC ENDOTHELIAL-CELLS** *JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY*  
MONAHANEARLEY, R. A., Isomura, T., Garcia, R. I., GALLI, S. J., Dvorak, H. F., Dvorak, A. M.  
1987; 35 (5): 531-539
- **GENETICALLY MAST-CELL-DEFICIENT W/WV AND SL/SLD MICE - THEIR VALUE FOR THE ANALYSIS OF THE ROLES OF MAST-CELLS IN BIOLOGIC RESPONSES INVIVO** *AMERICAN JOURNAL OF PATHOLOGY*



- GALLI, S. J., Kitamura, Y.  
1987; 127 (1): 191-198
- **ULTRASTRUCTURAL CYTOCHEMICAL AND AUTORADIOGRAPHIC DEMONSTRATION OF NONSPECIFIC ESTERASE(S) IN GUINEA-PIG BASOPHILS** *JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY*  
Dvorak, A. M., MONAHANEARLEY, R. A., Dvorak, H. F., GALLI, S. J.  
1987; 35 (3): 351-360
  - **DEFECTIVE CYTOPLASMIC GRANULE FORMATION .I. ABNORMALITIES AFFECTING TISSUE MAST-CELLS AND PANCREATIC ACINAR-CELLS OF BEIGE MICE** *LABORATORY INVESTIGATION*  
Hammel, I., Dvorak, A. M., GALLI, S. J.  
1987; 56 (3): 321-328
  - **PHENOTYPIC CHANGES OF BONE MARROW-DERIVED MAST-CELLS AFTER INTRAPERITONEAL TRANSFER INTO W/WV MICE THAT ARE GENETICALLY DEFICIENT IN MAST-CELLS** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Otsu, K., Nakano, T., Kanakura, Y., Asai, H., Katz, H. R., Austen, K. F., Stevens, R. L., GALLI, S. J., Kitamura, Y.  
1987; 165 (3): 615-627
  - **ANTIGEN-INDUCED, IGE-MEDIATED DEGRANULATION OF CLONED IMMATURE MAST-CELLS DERIVED FROM NORMAL MICE** *AMERICAN JOURNAL OF PATHOLOGY*  
Dvorak, A. M., GALLI, S. J.  
1987; 126 (3): 535-545
  - **ANALYSIS OF MAST-CELL FUNCTION IN BIOLOGICAL RESPONSES NOT INVOLVING IGE** *INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY*  
GALLI, S. J., Wershil, B. K., Mekori, Y. A.  
1987; 82 (3-4): 269-271
  - **BEIGE MOUSE MAST-CELLS GENERATED INVITRO - ULTRASTRUCTURAL ANALYSIS OF MATURATION INDUCED BY SODIUM-BUTYRATE AND OF IGE-MEDIATED, ANTIGEN-DEPENDENT DEGRANULATION** *INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY*  
Dvorak, A. M., Hammel, I., GALLI, S. J.  
1987; 82 (3-4): 261-268
  - **METHODS IN LABORATORY INVESTIGATION - INBRED GUINEA-PIG AORTIC ENDOTHELIAL-CELL CLONES - MODEL FOR STUDYING THE VASCULAR ENDOTHELIUM UNDER TOTALLY ISOLOGOUS CONDITIONS** *LABORATORY INVESTIGATION*  
Isomura, T., Dvorak, A. M., Garcia, R. I., Dvorak, H. F., GALLI, S. J.  
1986; 55 (6): 703-716
  - **I-125 FIBRIN DEPOSITION IN CONTACT SENSITIVITY REACTIONS IN THE MOUSE - SENSITIVITY OF THE ASSAY FOR QUANTITATING REACTIONS AFTER ACTIVE OR PASSIVE SENSITIZATION** *JOURNAL OF IMMUNOLOGY*  
Mekori, Y. A., Dvorak, H. F., GALLI, S. J.  
1986; 136 (6): 2018-2025
  - **HIGHER SUSCEPTIBILITY OF MAST-CELL-DEFICIENT W/WV MUTANT MICE TO BRAIN THROMBOEMBOLISM AND MORTALITY CAUSED BY INTRAVENOUS-INJECTION OF INDIA INK** *AMERICAN JOURNAL OF PATHOLOGY*  
Kitamura, Y., Taguchi, T., Yokoyama, M., Inoue, M., YAMATODANI, A., Asano, H., Koyama, T., Kanamaru, A., Hatanaka, K., Wershil, B. K., GALLI, S. J.  
1986; 122 (3): 469-480
  - **CELLULAR AND VASCULAR MANIFESTATIONS OF CELL-MEDIATED-IMMUNITY** *HUMAN PATHOLOGY*  
Dvorak, H. F., GALLI, S. J., Dvorak, A. M.  
1986; 17 (2): 122-137
  - **VESICULAR UPTAKE OF EOSINOPHIL PEROXIDASE BY GUINEA-PIG BASOPHILS AND BY CLONED MOUSE MAST-CELLS AND GRANULE-CONTAINING LYMPHOID-CELLS** *AMERICAN JOURNAL OF PATHOLOGY*  
Dvorak, A. M., Klebanoff, S. J., Henderson, W. R., MONAHAN, R. A., Pyne, K., GALLI, S. J.  
1985; 118 (3): 425-438
  - **CLONED MOUSE MAST-CELLS AND NORMAL MOUSE PERITONEAL MAST-CELLS - DETERMINATION OF SEROTONIN CONTENT AND ABILITY TO SYNTHESIZE SEROTONIN INVITRO** *INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY*  
Weitzman, G., GALLI, S. J., Dvorak, A. M., Hammel, I.

1985; 77 (1-2): 189-191

- **REEVALUATION OF RESERPINE-INDUCED SUPPRESSION OF CONTACT SENSITIVITY - EVIDENCE THAT RESERPINE INTERFERES WITH LYMPHOCYTE-T FUNCTION INDEPENDENTLY OF AN EFFECT ON MAST-CELLS** *JOURNAL OF EXPERIMENTAL MEDICINE*

Mekori, Y. A., WEITZMAN, G. L., GALLI, S. J.

1985; 162 (6): 1935-1953

- **SURFACE-MEMBRANE TRAFFIC IN GUINEA-PIG BASOPHILS EXPOSED TO CATIONIC FERRITIN** *INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY*

Dvorak, A. M., Dvorak, H. F., GALLI, S. J.

1985; 77 (1-2): 267-273