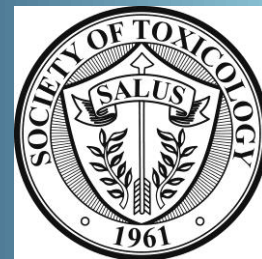


# IMMUNOTOXICOLOGY

## Specialty Section

### Pre-SOT Bulletin



#### 2016-2017 Executive Committee

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The Immunotoxicology Specialty Section (ITSS) Newsletter is published three times a year (Summer, Fall, and Winter). If you would like to share an item of interest with members of the ITSS, please send it to the Communications Committee Co-Chairs. All comments and suggestions are welcome.

Jiajun (Brian) Zhou  
zhoujiaj@msu.edu

Angela Groves  
Angela\_Groves@URMC.  
Rochester.edu

Kristen A. Mitchell  
kristenmitchell@boisestate.edu

## President's Message

Greetings all!

I hope that your anticipation is building in preparation for the SOT 56<sup>th</sup> Annual Meeting in Baltimore, MD. Once again we are in "Charm City", and it should be a great meeting.

The program for 2017 is rich with many immunotoxicology-sponsored sessions and additional immunotoxicology program offerings. I would like to thank Vic Johnson and the 2016-2017 Program Committee for working diligently to support such a robust program. Check these out and please do support them by your attendance and discussions as you can. Also, don't forget to support the efforts of Jamie DeWitt and the current Program Committee as they plan for San Antonio. Information about 2018 SOT Annual Meeting proposal submissions is included in this newsletter.

This year the ITSS reception will be held in the Baltimore Hilton (Key Ballroom 9) after the ITSS Networking/Mentoring event in the same location. I would like to thank Jamie DeWitt, Brian Zhou, Angela Groves, and the rest of the Education Committee for planning the event. We hope to continue this event to help encourage the careers of our budding immunotoxicologists. The Networking/Mentoring event begins at 4:30 and the ITSS reception meeting starts at 6:00.

Please be sure to attend the ITSS reception. It is a wonderful opportunity to cross paths with old friends and colleagues, to celebrate the wonderful accomplishments of our members, to

### What's inside?

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# President's Message, continued:

meet our enthusiastic students and postdocs, and of course, get caught up on the business of the ITSS. Your nominations led to the selection of awardees who have made significant contributions to the field of immunotoxicology. We will announce this year's ITSS award recipients at the business meeting portion of the reception. I hope you will join us to honor these well-deserving awardees. Additionally, you will be introduced to your new ITSS 2017-2018 Executive Committee.

As was announced at the ITSS business meeting in 2016, we have partnered with ILSI/HESI to formalize a symposium/workshop session for Immunotoxicology. The first session will precede the ILSI/HESI Spring Meeting and will be held at MedImmune in Gaithersburg, MD from April 18-19. If you have not registered, please consider registering. It will be a great session on T-cell biology with a focus on Immuno-oncology. The ITSS Executive Committee has worked in tandem with ILSI/HESI to help organize sessions and find speakers for the course. I want to thank all the ITSS members who have helped make this course a success.

I am thrilled that our SS has such strong representation on SOT Council as well as in other elected and appointed committees at SOT. Two ITSS members are SOT Past Presidents (Michael Holsapple and Norbert Kaminski) as is the current SOT VP-Elect, Leigh Ann Burns Naas. With the dedication of our ITSS leaders, we can easily partner with other groups within SOT and beyond.

Along those lines, we are working closely with the SOT Council plans to further enhance the SOT international presence. ITSS has been a leader in international partnership for many years with our International Committee. With the leadership of Mitch Cohen, Kazu Nakamura, and others, we have developed a scientist exchange between ITSS and the Japanese Society of Immunotoxicology. Many of you have participated in these exchanges and we greatly value our ITSS/JSIT partnership. With the election of Emanuela Corsini as the VP-Elect for ITSS, who hails from Italy, we hope to better establish more formal partnerships with our European colleagues from "across the pond". I hope that this will begin an expansion of the partnerships for ITSS as we work to network across the globe.

I wish you the best and look forward to seeing you shortly in Baltimore.

**Dr. Laine Peyton Myers**  
**President, ITSS 2016 - 2017**



# Student & Postdoctoral Report:

The SOT Annual Meeting is fast approaching and we hope that you are getting excited to present your research and to check out all the events taking place. We would like to point out some of the many amazing, useful activities and networking events that this meeting offers to students and postdocs so that you can take advantage of them!

On **Sunday March 12<sup>th</sup>**, expand your knowledge of some of the leading-edge fields of toxicology by attending the **Continuing Education Courses**. Also on **Sunday**, from **7:30 - 9:00 p.m.** at the Hilton Baltimore Holiday Ballroom 4, you can learn more about specialty sections and regional chapters at the **Student/Postdoctoral Scholar Mixer**. It is FREE for all students and postdocs. This is also a great opportunity to get more information about a number of networking and educational events that the Graduate Student Leadership Committee and Postdoctoral Assembly will be hosting throughout the week, including: **Chat with an Expert, Mentoring Breakfast, Trainee Discussions with Plenary Session Presenters, and Poster Tours**. These events will enable you to get great face-to-face time with leading experts in toxicology. Please sign up for one or all of these events! If you are a postdoc, don't miss the **PDA Luncheon** on **Tuesday, March 14<sup>th</sup>, 12:00 - 1:15 p.m.** taking place at CC Room 324.

Looking to learn more about career options in the field of toxicology? Attend the **Career Exploration through Speed Informational Interviews** on **Tuesday, March 14<sup>th</sup>, 1:20 - 2:40 p.m.** at CC 324. Also, be sure not to miss out on the always entertaining quiz show "**Tox Showdown**" on **Tuesday, March 14<sup>th</sup>, 7:30 - 9:00 p.m.** at the Hilton Baltimore Holiday Ballroom 3.

Finally, please mark your calendars for the **ITSS mentoring event** to be held on **Monday, March 13<sup>th</sup>, 4:30 - 5:30 p.m.** at the Hilton Baltimore Key Ballroom 9. Here you will be able to sit down with professionals from a variety of work sectors who will discuss their careers and answer questions. You can stop by our poster at the Student/Postdoc mixer for more information.

*If you would like to get involved in any of the ITSS committees, please contact Angela Groves (Angela\_Groves@URMC.Rochester.edu) or Jiajun (Brian) Zhou (zhoujjaj@msu.edu).*

We look forward to seeing you in Baltimore!

**Angela Groves, Ph.D.**  
**Jiajun (Brian) Zhou**



# ITSS- Sponsored events @ SOT 2017:

March 13, 2017

## Symposium

2:00pm -  
4:45pm

**Lifespan Neuroimmunotoxicology: Age-Dependent Neuroimmune Dyshomeostasis Caused by Pollutants, Pathogens and Psychoactive Substances**

(Chairs: Nick Filipov, University of Georgia; Vic Johnson, Burleson Research Technologies)

## Workshop

2:00pm -  
4:45pm

**Bispecific Molecules: Nonclinical and Clinical Development Challenges**

(Chairs: Pedro Del Valle, US FDA; Patricia Ryan, MedImmune, LLC)

March 14, 2017

## Symposium

2:00pm -  
4:45pm

**Chemically Induced Neuroinflammation and "Sickness Behavior" Disorders**

(Chairs: G. Jean Harry, NIEHS/NIH; James O'Callaghan, CDC-NIOSH)

## Symposium

2:00pm -  
4:45pm

**Emerging Concepts in Nonclinical Development of Immuno-Oncology Agents: Enabling Translation of Nonclinical Pharmacology and Safety Information to First-in-Human Clinical Trials**

(Chairs: Vijayapal Reddy, Eli Lilly and Company; Jacqueline Kinyamu-Akunda, Novartis Institute for Biomedical Research)

March 15, 2017

## Symposium

9:30am -  
12:15pm

**The Skin As A Metabolic And Immune-Competent Organ: Implications for Pharmaceutical Development and Safety Assessment**

(Chairs: Yoshiro Saito, MHLW Japan; Jeanine Bussiere, Amgen, Inc.)

## Symposium

2:00pm -  
4:45pm

**Enhancing the Clinical Benefit of Cancer Drugs: Toxicity As a Therapeutic Target**

(Chairs: Cyril Pettit, HESI; Brian Berridge, GlaxoSmithKline)

## Workshop

8:30am -  
11:15pm

**Biological Advances to Help Navigate the Nonclinical Safety Assessment Strategy in Cancer Immunotherapy: Utility, Limitations, and Future Direction**

(Chairs: Robert Li, Genentech; Jacintha Shenton, Janssen)

# ITSS- Sponsored events @ SOT 2017:

## Additional Sessions Relevant to Immunotoxicology

March 13, 2017

**Platform**

9:30am -  
12:15pm

Ozone and Inflammation

March 14, 2017

**Daily Plenary  
Session**

8:00am –  
9:20am

**Pharmacogenomics of Drug Toxicity in Cancer: Making the Case for Precision Medicine**

Lecturer: Jun J. Yang, St. Judes Children's Research Hospital

**Poster**

9:30am -  
12:15pm

Imunotoxicology

March 15, 2017

**Poster**

1:15pm –  
4:30pm

Autoimmunity / Hypersensitivity

**Poster**

1:15pm –  
4:30pm

Inflammation and Disease

**Poster**

1:15pm –  
4:30pm

Inflammation: Methods and Mechanisms

**Mini-  
Symposium**

5:00pm –  
6:20pm

**Immune Factors in Drug-Induced Liver Injury**

(Chairs: Robert A. Roth, Michigan State University and Tsuyoshi Yokoi, Nagoya University Graduate School of Medicine)

*Joint Mini-Symposium between Society of Toxicology and Japanese Society of Toxicology*

# CALLING ALL PROPOSALS!

## Endorsement of Proposals

by the Immunotoxicology Specialty Section Program Committee

So you want to submit a program proposal for the 2018 SOT Annual Meeting in San Antonio.

What do you do and how do you do it?



### *FIRST*

Visit SOT's web site on proposals

([https://www.toxicology.org/events/am/AM2018/proposal\\_guidelines.asp](https://www.toxicology.org/events/am/AM2018/proposal_guidelines.asp)). Follow their directions for preparing your proposal. The directions are there to help you choose a session type (Continuing Education? Workshop?) and encourage you to write abstracts and confirm speakers **BEFORE YOU SUBMIT YOUR PROPOSAL** endorsement or to SOT!

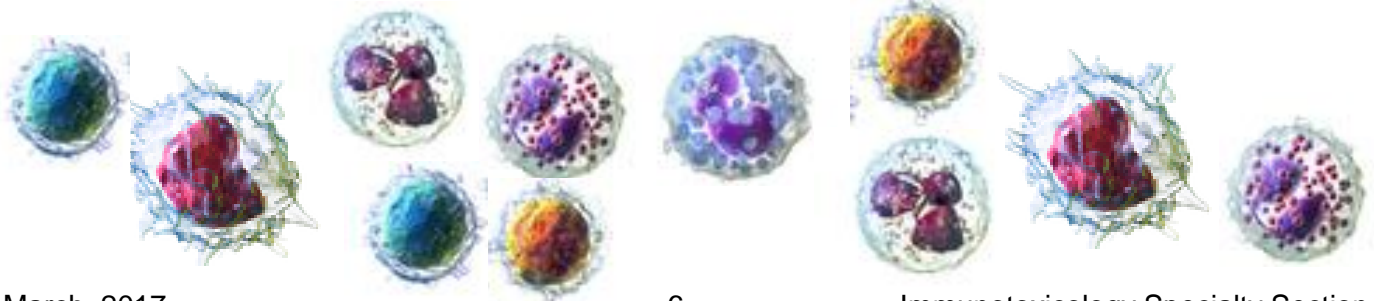
### *SECOND*

Secure endorsement from ITSS.

**This means submitting your draft session proposal to the ITSS Program Committee Chair (Jamie DeWitt, [dewittj@ecu.edu](mailto:dewittj@ecu.edu)) NO LATER THAN MAY 5, 2017.** The SOT proposal submission site closes on **MAY 15, 2017**. This 10 day period gives the ITSS time to review your proposal, offer suggestions, and determine if they're going to endorse your proposal.

### *THIRD*

Modify your proposal based on suggestions by the ITSS (they do it to help!) and submit your proposal through the SOT submission site by **MAY 15, 2017**.



# Achievements:



Congratulations to **Debra Laskin, PhD**, for winning the SOT 2017 Education Award. Debra is a Distinguished Professor and Chair and the Roy A Bowers Endowed Chair of the Department of Pharmacology and Toxicology at Rutgers University.

Congratulations to **John I. Anetor, PhD**, Professor of Chemical Pathology/ Toxicology in the Chemical Pathology Department of the College of Medicine, at the University of Ibadan, Nigeria. John was made the Lead (Principal) Consultant to the Federal Ministry of Health of Nigeria's 'National Lead Poison Elimination, Treatment and Strategic Intervention Scheme, delivered an inaugural lecture to his university entitled: IN SEARCH OF AN ANTIDOTE FOR A POISONED WORLD, and nominated a member of the National Health Research Ethics Committee (NHREC), a statutory committee of the National Health Act of Nigeria.



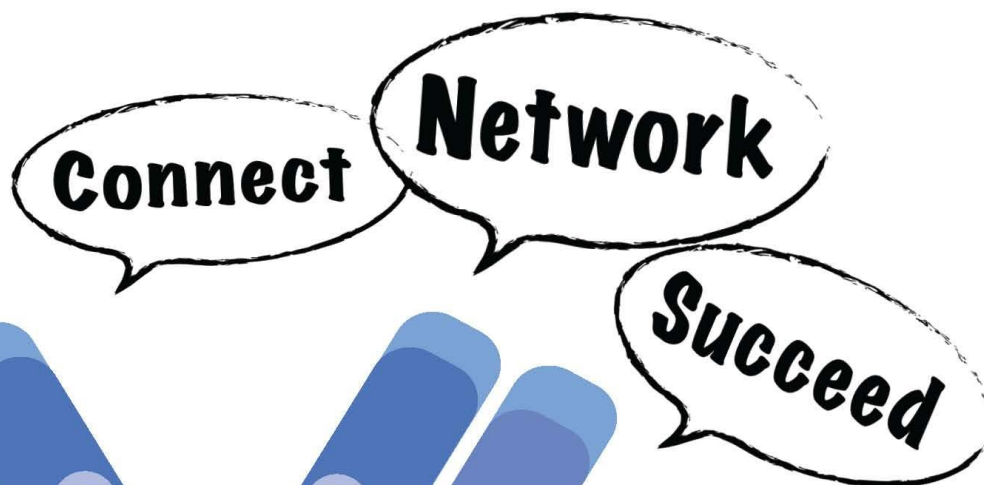
Congratulations to **Anthony M. Franchini, PhD**, Postdoctoral Fellow in the Department of Environmental Medicine at the University of Rochester Medical School. Anthony has received the Rochester Vaccine Postdoctoral Fellowship, awarded annually to an outstanding postdoctoral fellow working in the area of vaccine-related research.

# Immunotoxicology Specialty Section

SAVE THE  
DATE

## **NETWORKING/ MENTORING EVENT**

FOR STUDENTS AND POSTDOCS



**Date: Monday, March 13th**  
**Location: Key Ballroom 9, Hilton  
Baltimore**  
**Time: 4:30 pm to 5:30 pm**



# JOB OPPORTUNITY

## Head of Investigative Immunotoxicology and Senior Scientific Director, Biologics Toxicology

Work Location: 1400 McKean Road, Spring House, PA 19477 (County: Montgomery)

### Description

Janssen Research and Development (R&D), L.L.C., a member of Johnson & Johnson's Family of Companies, is seeking a Head for the Investigative Immunotoxicology group within the Biologics Toxicology organization located in Spring House, PA. This is a new group/role within the Biologics Toxicology organization and the Head will report directly to the Vice President and Head of Biologics Toxicology.

Janssen R&D, part of the Janssen Pharmaceutical companies of Johnson and Johnson (J&J), develops treatments that improve the health and lifestyles of people worldwide. R&D areas encompass novel targets in neurologic disorders, gastroenterology, oncology, infectious disease, diabetes, hematology, metabolic disorders, immunologic disorders, and reproductive medicine. For more about Janssen R&D, L.L.C., visit [www.janssen.com/research-and-development](http://www.janssen.com/research-and-development). Thriving on a diverse company culture, celebrating the uniqueness of our employees and committed to inclusion, J&J is proud to be an equal opportunity employer.

The Head of Investigative Immunotoxicology for Biologics Toxicology will be a part of Janssen BioTherapeutics (JBIO; visit [www.janssen.com/biotherapeutics](http://www.janssen.com/biotherapeutics)) and will support the development of novel biologic therapies which may include first-in-class technologies, stem cell therapies, monoclonal and multi-specific antibodies, alternative scaffolds, nucleic acid therapeutics, and protein molecules.

The Head of Investigative Immunotoxicology for Biologics Toxicology will establish a new group within Biologics Toxicology with the goal of evaluating potential immune system-related risks associated with our biotherapeutic pipeline. The candidate will expand on existing laboratory efforts in this area and, working with Project Toxicologists, will provide strategic and scientific input to multidisciplinary Project Teams progressing biotherapeutics from discovery to first-in-human and beyond. The Investigative Immunotoxicology group will use both internal and external (Contract Research Organizations) resources to generate data to support risk assessment. It is anticipated that the Investigative Immunotoxicology group will work to establish/develop novel assays/animal models to assist in understanding potential human risks associated with candidates in our biologics pipeline.

The Head of Investigative Immunotoxicology will be part of the Biologics Toxicology Senior Leadership Team. In addition, the candidate in this role will be part of the Biologics Toxicology Scientific Advisory Board. This Board is responsible for the review and approval of nonclinical safety strategies as well as major issue review and recommendations for resolution.



# JOB OPPORTUNITY, Cont.

The candidate will manage both PhD level and technical level staff. They will also be responsible for the development of all employees within their group and within Biologics Toxicology by supporting the development of Human Resources Planning (HRP) programs including management development and training to meet current and future business needs and provide an environment, which encourages the company's commitment to equal employment opportunity and the value of a diverse work force. The candidate will also have responsibility for budget, resource and timeline commitments for the IIT group.

The Head of Investigative Immunotoxicology for Biologics Toxicology will have a desire for learning and innovation, and continue career development through participation in scientific meetings, and increase visibility for self, Janssen BioTherapeutics and J&J through publications, participation in external organizations, and presentations at major scientific, industry, and regulatory meetings.

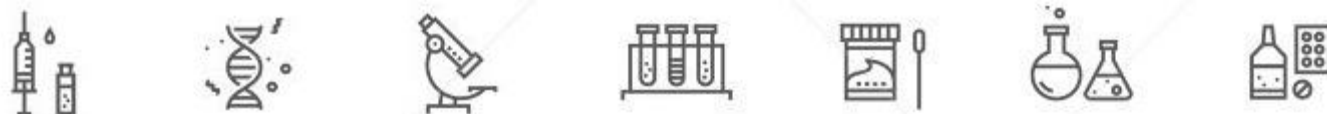
## Qualifications-Education and Experience

- Ph.D. in immunology, immunotoxicology, toxicology or related discipline (pharmacology, cell/tumor/molecular biology, or related field) and/or professional degree (DVM, VMD) with training or extensive experience in immunotoxicology, immunology or related biologic disciplines
- >12 years of pharmaceutical/biotechnology research management or related experience in drug development is required; direct experience with risk assessment for biotherapeutics is required
- Knowledge of GLPs and Health Authority regulations and guidelines for the development of biologics (e.g. ICH, FDA, EMEA, PMDA) is required
- Proven track-record in leading complex scientific teams, including direct people management experience
- This role requires excellent communication and interpersonal skills, a high level of organizational ability and attention to detail
- Some travel (domestic and international) may be required dependent on project needs

## Qualifications-Technical

- Recognized/Established expert in the area of Immunotoxicology
- Good communication skills, attention to detail, troubleshooting skills and ability to work effectively in a collaborative environment
- Strong scientific and technical skills including flow cytometry (particularly as applied to the immune system), immunoassays and expertise in animal and cell based models
- Ability to propose mechanistic hypotheses, design and oversee the execution of experiments.
- Exceptional diplomacy and negotiating skills
- Leading edge knowledge of principles, concepts and practices in Immunotoxicology

BE VITAL in your career. Be seen for the talent you bring to your work. Explore opportunities within the Johnson & Johnson Family of Companies.



# Recent Immunology Publications:

Compiled by Angela Groves and Jiajun (Brian) Zhou. Anytime you have a new fully-published or electronically available article to report, please send the citation to Angela at [angela\\_groves@urmc.rochester.edu](mailto:angela_groves@urmc.rochester.edu).

## Asthma, Allergy, Autoimmunity & Hypersensitivity

Bol-Schoenmakers M, Braber S, Akbari P, de Graaff P, van Roest M, Kruijssen L, Smit JJ, van Esch BC, Jeurink PV, Garssen J, Fink-Gremmels J, Pieters RH. The mycotoxin deoxynivalenol facilitates allergic sensitization to whey in mice. *Mucosal Immunol*. 2016 Feb 17.

## Developmental Immunotoxicology

Brempeleis, Katherine J., et al. Central Role of the TIR domain-containing adaptor-inducing interferon- $\beta$  (TRIF) Adaptor Protein in Murine Sterile Liver Injury. *Hepatology* 2017.

Buoso E, Galasso M, Serafini MM, Ronfani M, Lanni C, Corsini E, Racchi M. Transcriptional regulation of RACK1 and modulation of its expression: Role of steroid hormones and significance in health and aging. *Cell Signal*. 2017 Feb 9. S0898-6568(17)30050-5.

Vaessen SF, van Lipzig MM, Pieters RH, Krul CA, Wortelboer HM, van de Steeg E. Regional expression levels of drug transporters and metabolizing enzymes along the pig and human intestinal tract and comparison with Caco-2 cells. *Drug Metab Dispos*. 2017 Feb 2.

van der Wielen N, Ten Klooster JP, Muckenschnabl S, Pieters R, Hendriks HF, Witkamp RF, Meijerink J. The Noncaloric Sweetener Rebaudioside A Stimulates Glucagon-Like Peptide 1 Release and Increases Enteroendocrine Cell Numbers in 2-Dimensional Mouse Organoids Derived from Different Locations of the Intestine. *J Nutr*. 2016 Oct 26.

## General Immunotoxicology

Adeniyi NA, Omotosho IO, Onifade AA, Anetor JI. An assessment of the modulatory effect of zinc on humoral immune parameters in welders and cement block moulders in Ogbomosho, Nigeria. *J. Innov. Res. Health Sci. Biotechnol*. 2016. 1(4):186-194.

Andreassen M, Bøhn T, Wikmark OG, Bodin J, Traavik T, Løvik M, Nygaard UC. Lack of immunogenic, allergenic and adjuvant properties of Cry1Ab protein after intragastric exposure in a food allergy model in mice. *BMC Immunology*, 2016. 17:10.

Andreassen M, Hjertholm H, Cravedi JP, Grob K, Alexander J, Nygaard UC. Effect of dietary pristane and other saturated mineral oils (MOSH) on autoimmune arthritis in rats. *Tox Rep*. 2017. 4:104–112.

Andres E, Barry M, Hundt A, Dini C, Corsini E, Gibbs S, Roggen EL, Ferret PJ. Preliminary performance data of the RHE/IL-18 assay performed on SkinEthic(™) RHE for the identification of contact sensitizers. *Int J Cosmet Sci*. 2016 Jul 25.

# Recent Immunology Publications:

## General Immunotoxicology, cont.

Bodin J, Groeng EC; Andreassen M, Dirven H, Nygaard UC. Exposure to perfluoroundecanoic acid (PFUnDA) accelerates insulinitis development in a mouse model of type 1 diabetes. *Tox. Report.* 2016. 3:664–672.

Corsini E, Galbiati V, Papale A, Kummer E, Pinto A, Serafini MM, Guaita A, Spezzano R, Caruso D, Marinovich M, Racchi M. Role of androgens in dhea-induced rack1 expression and cytokine modulation in monocytes. *Immun Ageing.* 2016 May 29. 13:20.

Corsini E, Galbiati V, Papale A, Kummer E, Pinto A, Guaita A, Racchi M. The role of HSP27 in RACK1-mediated PKC activation in THP-1 cells. *Immunol Res.* 2016 Aug;64(4):940-50.

Galbiati V, Papale A, Kummer E, Corsini E. In vitro Models to Evaluate Drug-Induced Hypersensitivity: Potential Test Based on Activation of Dendritic Cells. *Front Pharmacol.* 2016 Jul 12. 7:204.

Grozdanovic MM, Cavic M, Nešić A, Andjelković U, Akbari P, Smit JJ, Gavrovic-Jankulovic MM. Kiwifruit cysteine protease actinidin compromises the intestinal barrier by disrupting tight junctions. *Biochim Biophys Acta.* 2016. 1860:516-526

Kwast L, Fiechter D, Kruijssen L, Bleumink R, Ludwig I, Bol-Schoenmakers M, Smit J, Pieters R. Oral exposure to immunostimulating drugs results in early changes in innate immune parameters in the spleen. *J Immunotoxicol.* 2016 Apr. 4:1-13.

Mihajlovic L, Radosavljevic J, Nordlund E, Krstic M, Bohn T, Smit J, Buchert J, Cirkovic Velickovic T. Peanut protein structure, polyphenol content and immune response to peanut proteins in vivo are modulated by laccase. *Food Funct.* 2016. 7:2357-2366

Papale A, Kummer E, Galbiati V, Marinovich M, Galli CL, Corsini E. Understanding chemical allergen potency: role of NLRP12 and Blimp-1 in the induction of IL-18 in human keratinocytes. *Arch Toxicol.* 2016 Sep 1.

Poland M, Ten Klooster JP, Wang Z, Pieters R, Boekschoten M, Witkamp R, Meijerink J. Docosahexaenoyl serotonin, an endogenously formed n-3 fatty acid-serotonin conjugate has anti-inflammatory properties by attenuating IL-23-IL-17 signaling in macrophages. *Biochim Biophys Acta.* 2016 Sep 20. S1388-1981(16):30249-9.

Weldingh NM, Jorgensen L, Becher R, Holme JA, Bodin J, Nygaard UC, Bolling AK. Bisphenol A Is More Potent than Phthalate Metabolites in Reducing Pancreatic Beta-Cell Function. *BioMed Research International* 2017. vol. 2017.

Zucca E, Corsini E, Galbiati V, Lange-Consiglio A, Ferrucci F. Evaluation of amniotic mesenchymal cell derivatives on cytokine production in equine alveolar macrophages: an in vitro approach to lung inflammation. *Stem Cell Res Ther.* 2016 Sep 20. 7(1):137.

# Recent Immunology Publications:

## Methods/Models

Corsini E, Ozgen S, Papale A, Galbiati V, Lonati G, Fermo P, Corbella L, Valli G, Bernardoni V, Dell'Acqua M, Becagli S, Caruso D, Vecchi R, Galli CL, Marinovich M. Insights on wood combustion generated proinflammatory ultrafine particles (UFP). *Toxicol Lett.* 2017 Jan 15. 266:74-84.

Gennari CG, Franzè S, Pellegrino S, Corsini E, Vistoli G, Montanari L, Minghetti P, Cilurzo F. Skin Penetrating Peptide as a Tool to Enhance the Permeation of Heparin through Human Epidermis. *Biomacromolecules.* 2016 Jan 11. 17(1):46-55.

JanssenDuijghuijsen LM, Keijer J, Mensink M, Lenaerts K, Ridder L, Nierkens S, Kartaram SW, Verschuren MC, Pieters RH, Bas R, Witkamp RF, Wichers HJ, van Norren K Adaptation of exercise-induced stress in well-trained healthy young men. *Exp Physiol.* 2016 Nov 3.

Knipping K, van Roest M, Kruijssen L, Smits M, Teunis M, Cox L, de Jong N, Simons PJ, Boon L, Teshima R, Gros M, Kegler D, Garssen J, Knippels LM, Pieters R. Intra- and inter-laboratory validation of an innovative huFcεRIα-RBL-2H3 degranulation assay for in vitro allergenicity assessment of whey hydrolysates. *Toxicol In Vitro.* 2016 Jun. 33:29-34.

Papadopoulou E, Sabaredzovic A, Namork E, Nygaard UC, Granum B, Haug LS. Exposure of Norwegian toddlers to perfluoroalkyl substances (PFAS): the association with breastfeeding and maternal PFAS concentrations. *Environ Int.* 2016 Sep. 94:687-94.

Te Velde AA, Bezema T, van Kampen AH, Kraneveld AD, 't Hart BA, van Middendorp H, Hack EC, van Montfrans JM, Belzer C, Jans-Beken L, Pieters RH, Knipping K, Huber M, Boots AM, Garssen J, Radstake TR, Evers AW, Prakken BJ, Joosten I. Embracing Complexity beyond Systems Medicine: A New Approach to Chronic Immune Disorders. *Front Immunol.* 2016 Dec. 12;7:587.

## Reviews/Books/Commentaries

Bøgh KL, van Bilsen J, Głogowski R, López-Expósito I, Bouchaud G, Blanchard C, Bodinier M, Smit J, Pieters R, Bastiaan-Net S, de Wit N, Untersmayr E, Adel-Patient K, Knippels L, Epstein MM, Noti M, Nygaard UC, Kimber I, Verhoeckx K, O'Mahony L. Current challenges facing the assessment of the allergenic capacity of food allergens in animal models. *Clin Transl Allergy.* 2016 Jun 16. 6:21. Review.

Galbiati V, Papale A, Marinovich M, Gibbs S, Roggen E, Corsini E. Development of an in vitro method to estimate the sensitization induction level of contact allergens. *Toxicol Lett.* 2017 Feb 8. S0378-4274(17)30047-4.

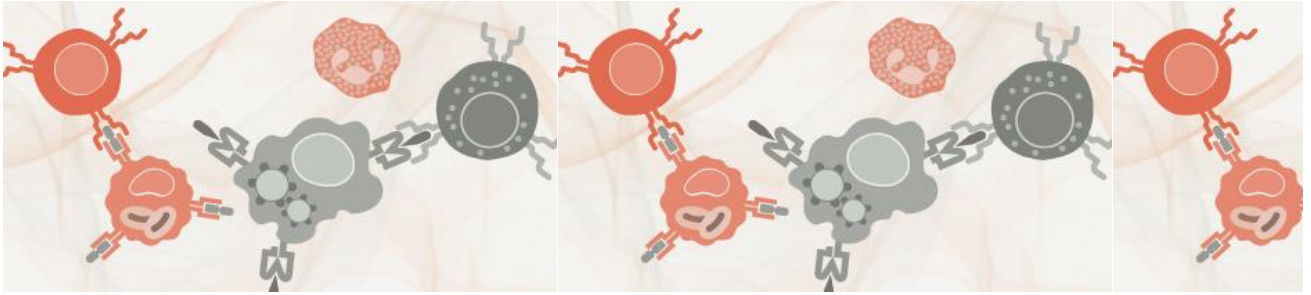
Kavasi RM, Berdiaki A, Spyridaki I, Corsini E, Tsatsakis A, Tzanakakis G, Nikitovic D. HA metabolism in skin homeostasis and inflammatory disease. *Food Chem Toxicol.* 2017 Mar. 101:128-138. Review.

# Recent Immunology Publications:

## Reviews/Books/Commentaries, cont.

Smit J, de Zeeuw-Brouwer M, van Roest M, de Jong G, van Bilsen J. Evaluation of the sensitizing potential of food proteins using two mouse models. *Tox Letters* 2016. 262: 62-69.

Smit JJ, Noti M, O'Mahony L. The use of animal models to discover immunological mechanisms underpinning sensitization to food allergens. Review. *Drug Discov. Today Dis. Models*, in press.



## Important Dates and Times



SOT

Baltimore,  
Maryland  
March 12-16, 2017

56<sup>th</sup>  
Annual Meeting  
and ToxExpo™

### Immunotoxicology Student/Postdoctoral Mentoring Event

Monday, March 13

4:30-5:30pm

Key Ballroom 9, Hilton Baltimore,

### Immunotoxicology Meeting/Reception

Monday, March 13

6:00-7:30pm

Key Ballroom 9, Hilton Baltimore,