



EDITOR'S NOTES – Souvenir D. Tachado, i-SLB Editor



In this fall edition, we don't have an interview series to feature but instead I would like to highlight student testimonials regarding their experience attending the SLB conference held in Newport, Rhode Island. I hope that that these testimonies will inspire students

and post-docs to attend future SLB conferences. We will continue our interview series in the next issue. I would like to congratulate our new president, Robert Clark, and new council members, my predecessor Silvia Uriarte and my good colleague across the street

Bruce Levy. Welcome aboard. I would like also to remind you that 2014 membership renewals have begun. Please renew your membership and get benefits like iSLB, JLB, award eligibility and networking in the SLB community.

On a personal note, I want to thank most whole-heartedly, Jen Holland, for her understanding and patience with me as I frantically made contacts with my family and relatives in the Philippines during the onslaught of super typhoon "Haiyan".



President's Message

Ann Richmond, President

It is with great enthusiasm and considerable humility that I begin these additional years of service to the Society of Leukocyte Biology.

I first joined SLB in 1990 after having the opportunity to attend and speak at a fabulous SLB meeting in Crete. I so enjoyed the opportunity to be with scientists who shared my scientific interest, leaders in the field that I wished to learn from, that I became involved in the Society, first as a member, followed by joining the Editorial Board of JLB, then as council member of SLB. In the upcoming years, I look forward to working with the other leaders of the SLB, and am honored to follow in the footsteps of our past presidents. Jill Suttles has done a fabulous job of leading us for the past two years, and having Liz Kovacs, Past President of SLB, as our advisor has been incredibly helpful. Going forward we will be moving into a time of financial constraints in research, more stringent than those scientists have known in the recent past. We are fortunate to have a wonderful group of scientists on the SLB council and equally dedicated committee leaders who are seriously working to keep our Society in tune with the needs of the membership in the upcoming years.

A very important part of our charge is to give young scientists working in the field of leukocyte biology opportunities for professional growth and development, opportunities to present their science, and receive the

mentorship they need to make a difference in society. It is my hope that we will increase the number of travel awards for young investigators and continue to provide the mentoring and leadership opportunities that will keep them coming back to the SLB as key members of the organization. I would like to see our Society continue to draw the leaders of the field to our annual meetings and encourage both them and their trainees to remain involved with the Society.

With the extraordinary vision of our Journal Editor, Luis Montaner, the *Journal of Leukocyte Biology* remains one of our strongest assets. The impact of the Journal continues to be very strong and has increasing value to scientists in the field. We have outstanding leadership through FASEB with Jennifer Holland and Kendra Deluca who will continue to provide the organizational structure as we go forward in 2014. Robert Clark, our President Elect, will bring significant talent and enthusiasm to the Society leadership and to our Awards Committee. We will miss Al Ayala, who departs the Council after making a significant impact on the Society, as well as for his work with Carol Miller-Graziano in the organization of a fantastic SLB meeting in Newport, RI this October. We welcome Silvia Uriarte as our new Council member. Silvia had been doing a fantastic job with the SLB newsletter, so her face is very familiar to the Society and we look forward to her continued contributions to SLB. Fortunately, Mary Dinauer will continue on as Treasurer, Hong Wei Gao will continue as Secretary, as will our current council members Christine Biron, Nick Lukacs, Marco Cassatella, Dan Remick, Mark

Quinn, Vishwa Dixit and Liwu Li. Liwu has been doing an incredible job in getting financial support for our meetings, successfully obtaining NIH funding and by recruiting key sponsors for the meetings. I look forward to being able to work with all of you as we serve the membership and the Society in the upcoming years.

This is the time in science when almost every field of study is acutely aware of the importance of leukocytes in health and disease. Whether it be infectious disease, immune disorders, cardiology, cancer, or neurological diseases, leukocytes are at the forefront and as we work to better understand the regulatory mechanisms driving leukocytes in their key functions, we will unravel more and more about the etiology of disease and develop new therapeutic strategies. Let us collaboratively move forward to meet the challenge!

Two educational workshops held in Newport for junior scientists

Julian G. Cambroner

The SLB held two educational workshops in Newport for junior faculty/postdocs as part of the educational program of the Society and its Professional Development Committee (PDC).

First, the “Street Smarts of Science” led by Dr. Elizabeth Kovacs and Sulie Chang, provide ideas on how to present your science (and yourself) to a more senior scientist during, for example, a national meeting. Sharing with the students (27 attended) the leaders’ own experience played a big role, the overriding idea was to give them practical advice of how we “succeeded” in our careers.

The second program was the “Grant writing workshop” that had its 3rd run. There were about 40 attendees ranging from grad students, post docs and new junior faculty. The workshop opened with a presentation by the PDC Chair, Dr. Julian Gomez-Cambroner, which can be found <http://leukocytebiology.org/Categories/Archives/Media.aspx>, and contained ample resources and practical tips for preparing and submitting a grant.

The presentation was followed by several round tables, lead by the faculty, Drs. Louis Justement, Dan Remick, Liz Kovacs, Carol Miller-Graziano and discussion topics included the importance of the “Hypothesis” and the “Aims page”; how to deal with the reviewers’ comments; the different approaches for different programs (i.e. R01, R21, R03, K99, postdoctoral fellowships and others.)

We were fortunate to be addressed by Dr. Rebecca Fuldner, Program Officer at the National Institute of Aging of the NIH. She presented an overview on the role of a PO, how and when she/he could be contacted regarding a grant proposal. She also joined the round tables and the discussions that followed with the students.

New members of the PDC who joined this year were Drs. Mark Wallet, Mawadda Alnaeli, Madhavi Rane and Ilhem Messaoudi, who join with current members, and we welcome them.

The new members are working on a new workshop targeted to postdocs for the 2015 SLB meeting with the theme being skills and strategies to prepare junior scientists on. Obtaining a first tenure-track academic position, in a future issue of iSLB we will discuss the results of the preparations. Stay tuned!



PIZZA AND PUBS PROGRAM

Sign up to get \$200 per year to local groups to be used at regular meetings!

To qualify, your group needs to have at least 10 people, of which at least two must be PIs who are SLB members, and one student/postdoc who will join SLB as a new member.

To apply, simply send us an email (slb@faseb.org) with the names and email addresses of the members of your group, a brief description of the lab group/journal club/discussion group, and a paid application for a student membership (you may download this off the SLB Web site (www.leukocytebiology.org)).

The American Society for Microbiology Honors Joshua Obar

Washington, D.C. – June 18, 2013 – Joshua Obar, Ph.D., Department of Immunology and Infectious Diseases, Montana State University—Bozeman, has been honored with a 2013 ICAAC Young Investigator Award for his research on factors affecting the regulation of immunological memory responses to infection.

Obar earned his B.A. in Microbiology from Ohio Wesleyan University in 2001 and went on to complete his Ph.D. in Microbiology and Immunology from Dartmouth College in 2006. He performed his Ph.D. thesis research in Edward Usherwood's laboratory at the Geisel School of Medicine at Dartmouth, where his graduate work focused on understanding how latent viral infections affect the formation, maintenance, and function of memory CD8 T cells. Of Obar, Usherwood says, "I have encountered very few young scientists at his level who have such a depth of perception into their chosen field, combined with the intellectual drive and rigor to pursue projects through to completion." In 2005, his graduate work was recognized by the American Association of Immunologists (AAI) with the Huang Foundation Trainee Achievement Award (now the Life Technologies Trainee Achievement Award). The following year Obar joined Leo Lefrançois' laboratory at the University of Connecticut Health Center as a postdoctoral fellow, where he received a NRSA postdoctoral fellowship in 2007. During his postdoctoral research he developed the methodology necessary to quantify the number of antigen-specific naïve CD8 T cells within a polyclonal population, which he used to study early events regulating effector and memory CD8 T cell development during numerous infectious diseases.

In 2010, Obar joined the faculty in the Department of Immunology and Infectious Diseases at Montana State University – Bozeman. Since starting his own laboratory he has been studying the innate immune response in the respiratory tract following viral and fungal infections by trying to understand what regulates the balance of immunity and immunopathology during these infections. Obar's nominator and Chair of his department at Montana State University, Mark Quinn, said "since coming to Montana State University, Josh has continued to excel in his research on understanding the role of T cells and other leukocytes in the immune response to viral pathogens." In addition to the Huang Foundation Trainee Achievement Award, Obar has also won an NIH K22 Award and in 2012, he was selected by the AAI Public Policy Fellowship Program. Quinn concludes by saying, "Overall, Obar is an outstanding young investigator with amazing potential for a stellar career in microbiology and infectious diseases."

The ICAAC Young Investigator Award will be presented during ASM's 53rd Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), September 10-13, 2013 in Denver, Colorado. ASM is the world's oldest and largest life science organization and has more than 40,000 members worldwide. ASM's mission is to advance the microbiological sciences and promote the use of scientific knowledge for improved health, economic, and environmental well-being.

Town hall sponsored by Women & Diversity, 45th Annual Meeting of Society for Leukocyte Biology held in Newport, Rhode Island

Women and Diversity committee (W&D) held their annual Town hall at the 45th Annual Meeting of Society for Leukocyte Biology held in Newport, Rhode Island. The session, chaired by Dr. Elizabeth Fitzpatrick, featured keynote speaker Dr. Ann Richmond, Ingram Professor of Cancer Research and Professor and Vice Chair of Cancer Biology at Vanderbilt University School of Medicine, Nashville, TN. Her talk entitled, "Keys to success: creating a mentor network" focused on the importance of having a broad network of mentors as well as practical advice on how to build that network. Ann started the talk with "what is a mentor?" They come in all shapes and sizes however they should be someone that will share insights and guide you through situations you may face establishing your career. Someone that will help you network, include you on research projects, give you constructive criticism, advise you on managing your time, give teaching advice or nominate you for committees and awards among others. No one person will be able to provide you with guidance in all these areas and therefore establishing a team of mentors is critical. "What to look for in a mentor?" The key thing in looking for a mentor is finding a person that you can learn from and is willing to teach you. Ann's talk continued with additional insights on how to

find mentors, how they can help you, your responsibilities as a mentee, the importance of peer mentors and having a career development plan. To hear Ann Richmond's talk, visit the archive section of the SLB website at <http://leukocytebiology.org/Categories/Archives/Media.aspx>.

This insightful talk was followed by an open forum moderated by Drs. Ann Richmond, Christine Biron (Brown University), Liwu Li (Virginia Tech) and Sanna Goyart (CUNY). There was active participation from the audience and excellent advice from the panelists on effective networking and mentoring.

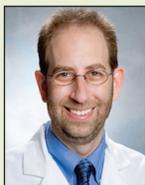
Visit the W&D committee webpage for information on the 2014 meeting session and other upcoming events and news <http://leukocytebiology.org/Committees/Women-and-Diversity-Committee.aspx>.



The SLB Nominating Committee is pleased to report the 2013 Election results:



President Elect
(2014-2015)
Robert Clark



Council
(2014-2017)
Bruce Levy



Council
(2014-2017)
Silvia Uriarte

Please join us in welcoming the new leadership, thanking all the highly qualified candidates and wishing well to our outgoing leaders.



Women and Diversity Interview

Stephanie Eisenbarth M.D., Ph.D., Assistant Professor of Laboratory Medicine and of Medicine, Assistant Director Clinical Immunology and Flow Cytometry Laboratories, Director, Immune Monitoring Core Yale School of Medicine

Have you always been interested in scientific research?

Since I was a little girl I was interested in doing medicine or science in a general way – The first word I learned to spell was “cell”. Although I didn’t know much about what a scientist was I knew I wanted to cure diseases. I entered the scientific world from the medical side through the MD-PhD program at Yale. Initially I didn’t have a set pathway and I let my interests guide me. I did my Ph.D. under the guidance of Dr. Kim Bottomly and it was during my Ph.D. defense when she suggested that I should do science that I realized I really wanted to run my own lab. I returned to the MD program and finished my clinical rotations, still unsure about my clinical direction until I did my pathology rotation and realized I had found my home. Examining the mechanisms underlying diseases really struck a chord and I knew I had found my niche.

Can you give us a brief description of your current research and what most excites you about it now?

Recently we have generated a mouse deficient in the NOD-like receptor NLRP10 that has a profound defect in the migration of a specific DC subset. The most striking outcome of this phenotype is a failure to prime CD4+ helper T cells. This has important clinical implications and may allow us to target different branches of the innate immune response and modulate inappropriate adaptive immunity. Therefore my lab is now completely focused on dissecting the molecular and cellular basis of this striking phenotype and harnessing these pathways to treat allergic disease.

During your graduate and post-doc years did you have mentor(s) that helped guide you along the way?

First and foremost my Dad was my mentor and role model throughout my life. He has given me guidance

through my career and took time to help me hone my skills in presenting and writing scientific ideas. He also showed me how amazing being a physician-scientist could be. My Ph.D. advisor Kim Bottomly believed strongly in mentoring and supporting women in science. From insightful comments during research in progress meetings to sharpening my presentation abilities, she helped me develop a strong scientific foundation. However, she also helped me realize that there is more to life than being in lab and that it was perfectly appropriate and important to maintain the work –family life balance that suited me. She helped me realize that you need to go for what you want and figure out how to make it work for you. My Post-doc mentor was Richard Flavell who was and is 100% supportive and has helped me become independent and get my lab started up. I don’t think anyone makes it through an academic career without strong mentors – they are crucial.

What was (were) the biggest challenge(s) you faced in pursuing your career?

My biggest challenge was finding a balance between science and medicine. It took me 8 years to find the clinical subspecialty that fit me. Once I realized that pathology was the clinical path I wanted to take, everything fell into place. Fortunately, the chair of my department has been amazing – helping me balance clinical work with protected time to get my lab up and running and anticipating things that I’m going to need before I even realize I need them.

Do you feel that being a woman in science came with advantages or disadvantages? What were they?

I went to an all-women’s college, Bryn Mawr College, and to this day I feel belonging to the community of women in science has been an advantage to me. The feeling of sticking together and helping each other succeed has been there consistently and I feel that has helped me tremendously during my career.

What strategies do you use to maintain balance in your life?

I don't follow any specific rules but the one principle I adhere to is focus. When I'm with my family I am 100% there and with them, when I am at work I am focused on work – don't fall into the guilt trap.

What advice would you give to female graduate students that are interested in a career as an academic scientist?

If science is the career you want, go for it and don't let others dissuade you. There are an infinite number of routes to take and you need to find the one that works for you. There is no one right way. But it is a lot of fun, especially if you do it your way.

Student Testimonials

Hear about what an undergraduate and a graduate student have to say about attending the SLB meeting in Newport!



Irina Miralda, Undergraduate student in Dr. Uriarte's laboratory, Department of Biology, School of Art and Sciences, University of Louisville

To begin with, I want to say that the SLB conference was an incredible experience as an undergraduate and that it reaffirmed my desire to continue researching after my undergraduate years. Similarly, I truly felt included and since the conference size was small, I had the opportunity to interact with the big names within the field. That is why I specifically enjoyed the poster session being held at breakfast. It allowed me to make individual connections through shared research interests and shared food and coffee preferences. That being said, it was very difficult for me to completely comprehend many of the plenary and concurrent sessions because as an undergraduate with no prior immunology classes, I lacked the basic background knowledge about many of the topics.

I understand that as one of the only undergraduates there, it would be difficult to tailor more events for such a small demographic. Regardless, the biggest perk of attending this meeting was the networking with physician scientists, MD-PhD students, graduate students and even people on admission committees for schools.

When reading the program for the conference, I was immediately drawn to register for the workshops; in particular the grant writing session and the Street smarts of science session appealed to me. However, the grant writing session was not as helpful for me because it was too advanced for my current status. One thing I especially enjoyed from this workshop was Dr. Cambronero as the session host. He did a great job because despite the incredible amount of information, he was engaging and didactic even to someone with no knowledge about grants. On the other hand, I found the Street Smarts workshop better suited for me because it was member dependent and we were able to ask pertinent questions and receive personalized answers. Also, some great ideas came from this workshop, such as diplomas used as an excuse to speak with high-interest members attending the conference, or to have colored stickers that would be placed on one's nametag to annotate personal research interests and degrees or what grade they are in. It would be incredibly useful as a talking point, but also to better target personal interests or curiosity. For example, it would have been valuable for me to know immediately who is an MD doing research or MD-PhD because I could ask them questions on their experiences since that is the route that I am planning to take. Finally, and most importantly, I extremely enjoyed the intimate, relaxed atmosphere of the workshop because it allowed for the participants to engage in a conversation. This was a successful strategy because since the session was at the very beginning of the conference, I was able to make

WE NEED YOUR INPUT!

Be sure to complete the 2013 end of year survey.



46th Annual Meeting of the

Society for Leukocyte Biology



Thank you to our 2013 Partners!



FASEB MARC Winners



Angel Shree'Byrd

Brown University / Rhode Island Hospital

Angel presented her research "Evaluation of NETosis in patients with Primary Immunodeficiencies: Evidence for ROS-independent Pathway" during the Novel Adjuvants / Activators of Leukocyte Function concurrent session.



Stephania Libreros

Florida State University

Stephania presented her research "Chitinase-3-like-1 protein Expression Associated with Pulmonary Inflammation Accelerates Metastasis to the Lung" during the Negative Signaling regulators of Lymphocyte and Leukocyte Differentiation concurrent session.

Congratulations to the 2013 FASEB MARC winners!

many friends whom I had the privilege of interacting with for the rest of the conference.



Courtney L. Armstrong, Graduate student at Dr. Uriarte's laboratory, Department of Microbiology and Immunology, University of Louisville

Attending the Society for Leukocyte Biology meeting was a wonderful experience! As a second year graduate student, it was helpful to interact with more experienced graduate students as well as professors. I appreciated the small size of the meeting, which encouraged students to feel comfortable to talk to everyone about their work and have plenty of time to network. In this society, everyone is willing to help you on your way and make sure you feel welcome! I especially enjoyed the poster sessions because both students and professors are as excited about your research as you are! Networking and collaboration are key in research and this society provides both.

The meeting also offered different types of workshops, and I attended the "Street Smarts of Science" which was targeted to graduate students providing good ideas and tips on how to initiate conversations with professors as a way to learn how to network in science. The other workshop that I attended was the "Grant Writing" mainly focusing on providing information and tips on how to write your first grant. I enjoyed this session but it was targeted more towards postdoctoral fellows and junior faculty so some of the information provided went over my head. If the workshop will be targeted to all levels including graduate students it might be more helpful to tailor the information to each group. Overall, these workshop sessions are definitely worth your time! They were beneficial to students and post-doctoral fellows at all levels. It was especially helpful because professors were there to give their insight on the various topics of discussion. From how to approach professors to the difference between an R and an F grant, there was an answer for every question!

SLB Member Honored with Award



Julian Gomez-Cambronero, Ph.D.,

(member of SLB since 1988) and professor of biochemistry and molecular biology at the Wright State University Boonshoft School of Medicine (Dayton, Ohio), has been named the Brage Golding Distinguished Professor of Research.

Named after Wright State's first president, the award recognizes outstanding research by a Wright State faculty member. The title Distinguished Professor of Research is a special rank awarded by the Board of Trustees to a faculty member who has produced a significant body of work in scholarship, research or the creative arts, which brings distinction to the university and national or international recognition to the faculty member.

Julian G. Cambronero and his research team have discovered a key protein that plays a critical role in the development of breast cancer tumors and the spread of the disease to the nearby lungs.

Thank you to our Sustaining Members!

Lesley A. Doughty

Richard R. Kew

Charles R. Rinaldo

Joathan R. Reichner

John I. Gallin

Jill M Kramer, DDS, PhD

Pizza n Pub Group Report

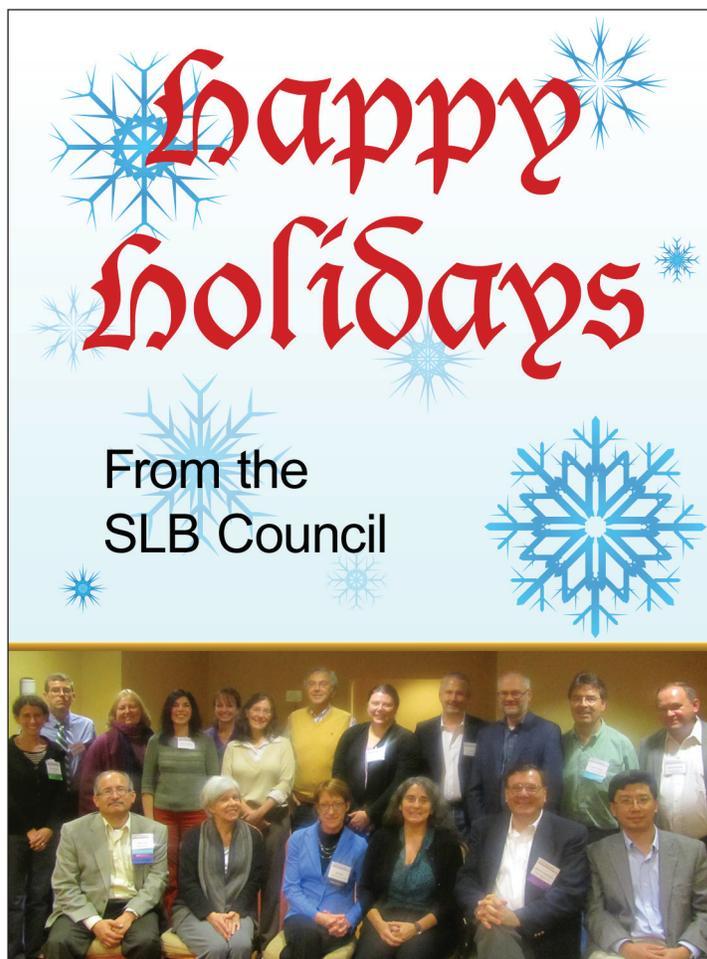
The Infection and Immunity Journal club at Kansas State University began the Fall 2013 semester with a discussion of guidelines for Responsible Conduct in Research in NIH notice: NOT-OD-10-019). Groups and individuals receiving funding from the NIH are now required to get face-to-face training for at least eight hours in ethical considerations for research. Topics to be covered include: conflicts of interests, considerations for research on humans or vertebrates, collaborations, peer-review, research misconduct, along with the environmental and societal impacts of research, among other topics. Currently, compliance with this notice occurs at the lab level or at a limited departmental level. The group discussed possible class offerings and plans for petitioning K-State to provide this training at a university-wide level.

The next two journal clubs examined inflammatory response in adipose tissue and obesity. Initially, we discussed a manuscript (Nature Medicine 19:313, 2013) which indicated that amlexanox, a drug currently prescribed for the treatment of asthma, also reverses obesity, diabetes and fatty liver in mice. Amlexanox appears to work in mice by inhibiting two I κ B kinases IKK- ϵ and TBK1 and may be a candidate for clinical evaluation in the treatment of obesity and related disorders.

Continuing the topic of the previous Journal club, we discussed the link between adipose tissue (AT) infiltration by macrophages and insulin resistance and type 2 diabetes. In this meeting the group discussed a recent study by Aouadi et al (PNAS 110:8278, 2013) and focused on a technique by which the expression of inflammatory genes in macrophages are ablated within specifically localized AT without affecting immune cells in other tissues. The technique includes delivery of nontargeting scrambled (SCR) siRNA encapsulated in micrometer-sized glucan shells (GeRPs) to AT depots. By silencing inflammatory cytokines in ATMs of obese mice a significant improvement in glucose tolerance was detected. This supported the hypothesis that AT cytokine production can intensify the whole-body glucose intolerance.

DON'T DELAY, RENEW TODAY!

2014 membership renewals have begun. Continue uninterrupted benefits like iSLB, JLB, award eligibility and networking in the SLB community. Now is the time to take advantage of the 3 year membership option to lock in SLB's uncommonly low membership fees as 2015 will bring a rate increase. If you need a good reason, just look at the student perspectives in this iSLB issue to see the true value of SLB membership. Also, don't forget it is the gifting season! Why not gift student or postdoc memberships for a meaningful gift to those you mentor! Contact slb@faseb.org for assistance.



Welcome to our new SLB Committee Volunteers!

Professional Development Committee:

Mawadda Al-Naeeli
Sulie Chang
Illhem Messaoudi
Mark Wallet

Website Committee:

Tony Isidro
Joanne Lomas Neira

Are you interested in getting involved? Look for the opportunity to reply with your interest in the annual survey OR email jholland@faseb.org any time.

Inflammation Journal Club

Temple University School of Medicine

In the Fall of 2013, a new journal club was organized by two SLB members, Laurie Kilpatrick and Tom Rogers in the Center for Inflammation, Translational and Clinical Lung Research at Temple University School of Medicine. This new journal club is focused on inflammation and covers a broad range of topics including cellular and molecular mechanisms of inflammation, leukocyte trafficking in inflammation, animal models of acute and chronic inflammation, and translational research in inflammation. The journal club meets twice a month and is open to all faculty, staff and students in the Center for Inflammation, Translational and Clinical Lung Research, the Cardiovascular Research Center, the Infectious Diseases and Immunity Cluster, and the Thrombosis Research Center. For our first meeting, we selected the study entitled “Neutrophil extracellular traps sequester circulating tumor cells and promote metastasis” (J Clin Invest 123:3446, 2013). This paper examines the interplay between neutrophils and tumor cells and the link between infection, inflammation and metastasis. In subsequent journal clubs, topics for discussion have included the role of C-type lectins, and the heterodimerization of Dectin-3 and Dectin-2 receptors in host-defense against fungal infections (J Leuk Biol 94:223-236, 2013; Immunity 39:324-334, 2013), the maintenance

of tissue-macrophage pools in adult tissues (Immunity, 38: 792-804, 2013), the dynamics of resident alveolar macrophages vs. recruited macrophages during acute lung injury (Am J Respir Crit Care Med 184: 547-560, 2011), and the contribution of neutrophil extracellular traps (NETS) in the pathophysiology of systemic lupus erythematosus (SLE) (Sci Trans Med 4, 157ra141 (2012)). We thank the Society for providing funding for this journal club. Refreshments provided have been enjoyed by faculty and students.

Laurie Kilpatrick, PhD and Thomas Rogers, PhD

*Center for Inflammation, Translational and Clinical Lung Research,
Temple University School of Medicine*





International
Endotoxin &
Innate
Immunity
Society



Society for
Leukocyte
Biology

Save the Date!

47th Annual Meeting of

The Society for Leukocyte Biology &

The International Endotoxin and Innate Immunity Society

October 23-25, 2014 ■ Salt Lake City Sheraton ■ Salt Lake City, Utah

Development of Innate Immunity

Plenary Topics

Keynote Lecture – Bonazinga Award Winner

Ira Tabas, Columbia University

Immune Phylogeny

Chair: Lyle Moldawer, University of Florida

Immune Ontogeny

Chair: Ruth Montgomery, Yale University School of Medicine

Microphysiologic Systems and Bioengineering

Chair: Dan Huh, University of Pennsylvania

Targeting Immunity to Treat Disease

Chair: David Fox, University of Michigan

Concurrent Topics

Granulocytes and Their Progenitors

Regulation of Host-Microbe Interactions by Reprogramming/
Remodeling of MAMPs/PAMPs

Special Journal Session: Best of JLB and Innate Immunity

Structure and Function of Pattern Recognition Receptors
or Their Targets

Animal Models: Challenges and New Developments

Immunological Assays

Innate Immunity/Metabolism Cross-Talk

Innate Immune-Based Immune Modulation: Novel Therapeutics

Epigenetic Regulation of Innate Immunity

Adjuvants and Vaccines

Discovery and Invention

Inflammasomes: Mechanisms of Sterile and Infectious Inflammation



Visit slbieis2014.org for more information