

ASI NEWS

DECEMBER 2017

**ASI ANNUAL
MEETING
BRISBANE
2017 P15**



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OBITUARY

In Memory of
James Douglas
Watson

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DAY OF IMMUNOLOGY

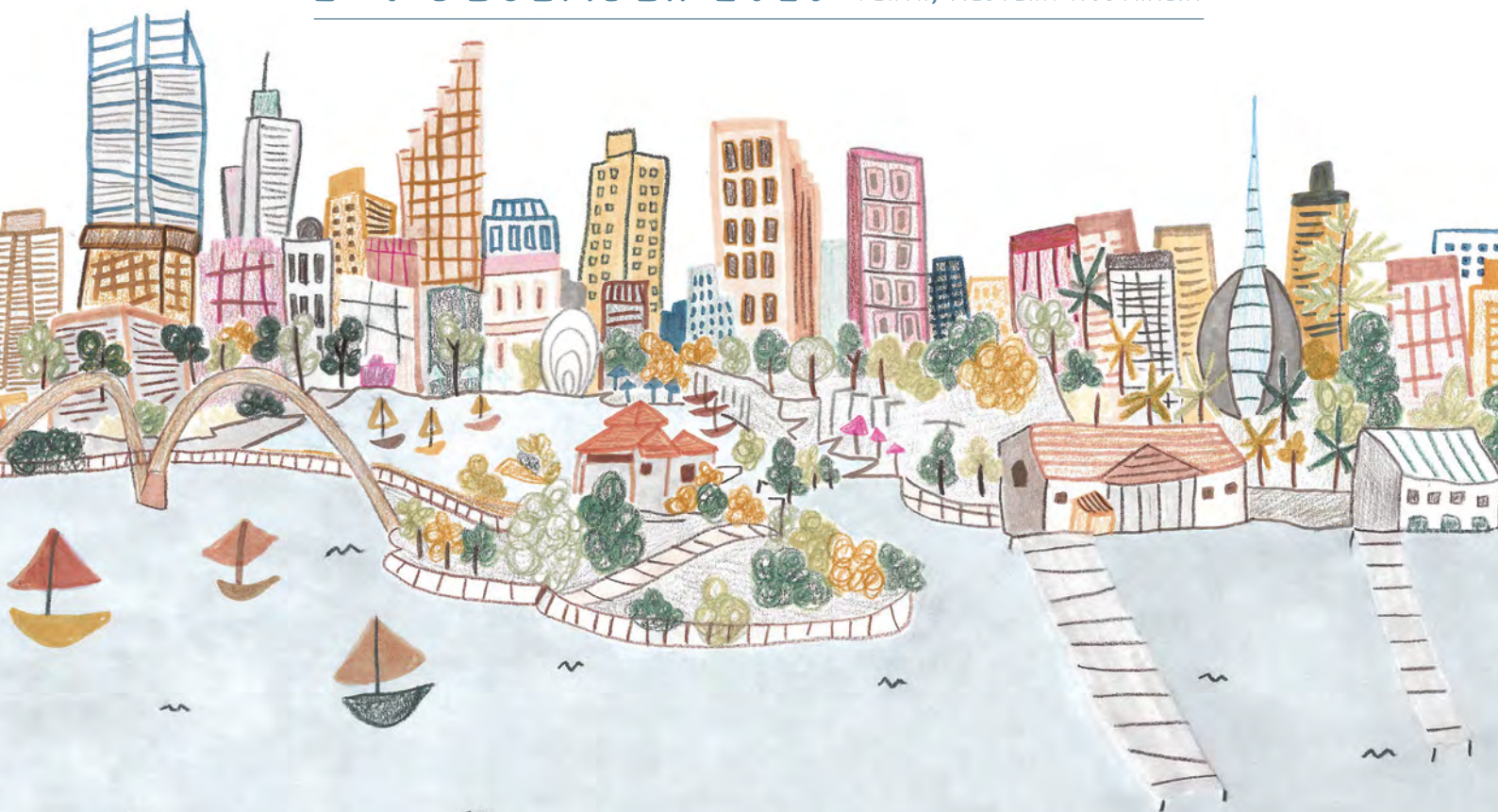
Volunteer for Day of
Immunology 2018
29th April

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47TH ANNUAL SCIENTIFIC MEETING OF THE AUSTRALASIAN SOCIETY FOR IMMUNOLOGY

2-6 DECEMBER 2018 PAN PACIFIC HOTEL
PERTH, WESTERN AUSTRALIA



SPEAKERS

Fiona Powrie

University of Oxford, UK

Ido Amit

Weizmann Institute of Science, Israel

Ellen Rothenberg

California Institute of Technology, USA

Andrea Schietinger

Memorial Sloan Kettering, USA

Luke O'Neill

Trinity College Dublin, Ireland

Graham Pawelec

University of Tuebingen, Germany

Paul Klenerman

University of Oxford, UK

Yuval Rinkevich

Helmholtz Zentrum München, Germany

Cecile King

Garvan Institute, NSW

Sharon Lewin

University of Melbourne, VIC

Alistair Forrest

Harry Perkins Institute of Medical Research, WA

Kate Schroder

University of Queensland, QLD

Mimi Tang

Murdoch Children's Research Institute, VIC

Axel Kallies

Walter and Eliza Hall Institute, VIC

Stuart Tangye

Garvan Institute, NSW

Meredith O'Keeffe

Monash University, VIC

Ruth Ganss

Harry Perkins Institute of Medical Research, WA

www.asi2018.org

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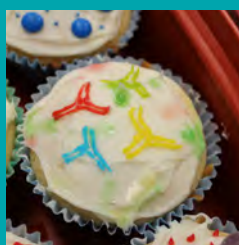
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SOCIAL MEDIA HIGHLIGHTS

ASI2017 did not disappoint with a fantastic line up of talented researchers, huge amounts of chatter on twitter and plenty of fun too



19

DAY OF IMMUNOLOGY

Cakes, coffee and a logo competition for The International Day of Immunology 2018.



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ADELAIDE IMMUNOLOGY RETREAT

The 13th Adelaide Immunology Retreat was held on August 11-12 2017 in the Barossa Valley.

HELLO FROM THE EDITOR!

2018. Be inspired and Be an Immunologist.

ANGELICA LAU



The year of 2017 flew by in a wink and here we are, 2018! It is my pleasure to mark the start of year with my first column as the official ASI Newsletter Editor. Firstly I would like to take this opportunity to thank Elissa Deenick for her advice and for covering the previous newsletter issue. Secondly, a big thank you to the previous editor Joanna Roberts, who has produced countless wonderful newsletters over the past years and has been extremely helpful in guiding me during this transition. I can already see that I have big shoes to fill! But I look forward to hearing and reporting many exciting stories from our ASI members and to highlight the new and high calibre science present in the Australasian region!

My vision as newsletter editor is to provide the opportunity and the space for ASI members (**yes YOU!!**) to showcase their exciting research and for ASI members to share their inspirations and experiences as immunologists. We all know the road down a scientist's journey is all but easy. I hope that during my term as editor in 2018, I can make the ASI newsletter a platform to demonstrate and encourage your journey as an immunologist. I look forward to bringing you inspirational stories and news from the leaders across Australasia, both to acknowledge the work

they have contributed to the field of Immunology and to inspire and enrich your journey during your career. As the English philosopher John Locke quotes, **"No man's knowledge here can go beyond his experience"**, the experience and mentorship amongst ASI members are valuable assets to a collaborative and innovative scientific community. The success of the recent annual meeting held in Brisbane highlighted in this issue is a testament to that. Therefore I hope that in 2018 the ASI newsletter can truly be **your** voice.

To do this, I need your help!

Did you know that as long as you are an ASI member you have a chance to win \$100 by submitting a 650 (max) word article with/ or artwork AND be featured in the newsletter if your work is selected? If you have anything that is interesting, useful, humorous, historical, thought provoking, creative, colourful and scientifically relevant to the ASI community, send it now! We want it!

If you have any burning news to share with the rest of ASI, I'd love to hear it!

So don't hesitate to email or enquire at newsletter@immunology.org.au.

Cheers to a wonderful and successful year ahead!

I look forward to bringing you good news throughout 2018.

All the best,

Angelica Lau
ASI Newsletter Editor

PRESIDENT'S REPORT

SUSANNE HEINZEL, ASI president



In reflecting back on the year I found that this year brought a lot of positives. ASI is in a great financial position, thanks to the profit from ICI2016 (and some conservative budgeting the years leading up to ICI2016) and the new publishing contract for our journals ICB and CTI. More details on this can be found in the Treasurer's report and President's report as part of the minutes of the ASI 2017 AGM in the upcoming issue.

As a society this is an exciting position to be in. Now is the time to reap the rewards and invest in the future, literally and figuratively. Some exciting new initiatives are on their way, such as an Immunology Training Course and are expanding the existing initiatives. We are also reviewing the suggestions from membership that we received in response to our call for ideas. We are still open for other ideas on how we can use some of the money to support our members and promote Immunology. *It's not too late to send suggestions / ideas / visions!*

The end of the year also sadly marks the time where **Chris Goodnow** leaves the ASI Council. He has been president in 2015-2016, represented ASI so brilliantly during ICI2016 and has really been the driving force behind the idea to market-test what our journals are worth and go to tender for the new publishing contract. We

are confident that with Wiley and our wonderful editorial team, not only will our journals (ICB & CTI) continue to thrive but also extend their profile, gain more traction, become more visible globally and will exceed our expectations (no pressure Anne and Rajiv...). While the decision to change publishers was in the end not a financial one, the increase in royalties is certainly very welcome.

On the topic of ICB and CTI, we have some exciting new initiatives: *The Chris and Bhama Parish ICB publication of the year award* has been extended to receive a **guaranteed speaking slot and free registration** at the ASI annual meeting sponsored by ASI on top of **\$1000 cash sponsored by Wiley!** The runner up receives **\$500 generously sponsored by ThermoFisher**. As of 2018 we will also have an **CTI publication of the year with the same benefits** (guaranteed speaking slot and

free registration at the ASI annual meeting sponsored by ASI on top of \$1000 cash sponsored by Wiley). No application required. All that is required is being an ASI member as first or last author and have an article accepted at ICB or CTI respectively.

Other benefits of publishing in our journals (such as an exciting **\$1000 subsidy** for the APC charges for publications submitted to CTI during the first 6 months of 2018) are highlighted in the ICB/CTI column in this issue of the newsletter.

Other changes to council are covered in the Secretary's and President's reports at the AGM, but I do want to take this

The atmosphere at ASI meetings is always one of excitement, expectation and fun, but I believe this year's organisers have brought it to a new level.

opportunity to thank all outgoing councillors for their hard work. ASI is going from strength to strength and this is nowhere more evident than in our strong local branches, led so ably by our branch councillors, the ASI newsletter and the ASI Visiting Speakers Program.

We are now back to our normal event schedule and as I'm writing this I have just returned from the ASI 2017 meeting Brisbane. And wow, what a meeting that was! Congratulation to the conference chairs **Kristen Radford** and **Antje Blumenthal** and their wonderful team to an outstanding meeting. The atmosphere at ASI meetings is always one of excitement, expectation and fun, but I believe this year's organisers have brought it to a new level. Everywhere you looked there were people in deep scientific discussions. There were lots of laughter everywhere and the program was outstanding. I loved watching the interaction of delegates at all levels at the poster sessions and there was general feeling of positivity throughout the meeting. Well done Brisbane 2017!

Our branches are all going strong and continue to put on fantastic events. I was fortunate to be at some of the branch meetings and it is always amazing to see how much passion and excitement the

younger generation shows for their research.

This year also saw the second leg of the DGfI-ASI workshop completed. This interaction was initiated to foster existing and start new collaborations between labs from the two societies. A delegation of the German Society for Immunology (DGfI) travelled to Canberra for the ASI2015 meeting and the adjacent one-day DGfI-ASI workshop. This year, it was time for 15 ASI members (selected from all Canberra workshop delegates and those who had submitted an Expression of Interest for this initiative) to travel to Germany to attend the DGfI meeting in Erlangen followed by a two day workshop in Fulda. This model was immensely successful and has resulted in many new collaborations, scientific interactions and friendships. The Germans are keen to keep this going and there are tentative plans for a German delegation to attend the ASI 2019 meeting in Adelaide.

Several immunology societies from around the world have expressed interest to interact and collaborate with us at different levels. These range from the request to send one or more ASI speakers to their annual meetings, sometimes with the option to host their speakers at our meetings, to more solid interactions such as the reciprocal workshops. I believe this is a testimony for our standing internationally. It would be wonderful to see more programs fostering international collaboration and further increasing the visibility of our members internationally developing over time.

It is difficult to write this column without mentioning the funding situation. I send congratulation to all who were successful with their grant applications in this

Our branches are all going strong and continue to put on fantastic events.

tough environment; you can be proud of yourselves. For those who missed out: I know this is a lame consolation and won't help you pay for your research, but you are in very good company. It is a difficult time for research in both countries. But we have a lot to be proud of. Whenever I speak to our colleagues from overseas they are in awe at the quality of the science that comes out of Australia and NZ, and are shocked when they learn about the level of funding all this is done with and the lack of security for ongoing funding.

Last but not least I'd like to specifically highlight the contributions of 2 members of the ASI team. A lot of work governing ASI is done in the background by the ASI council. Even at the best of times the positions of Treasurer and Honorary Secretary carry a lot of responsibility in their respective roles and as part of the ASI Executive. But this year has been particularly challenging from an administrative point. Both **Kim Jacobson** and **Elissa Deenick** have gone miles above and beyond their duty and have spent a lot of time and energy to keep ASI going. All that next to their day jobs as highly successful researchers.

Kim and Elissa, we owe you!

With that I'd like to wish everybody a well-deserved break over the Christmas period and a good start to the new year. Stay safe and see you in 2018! ■

But we have a lot to be proud of. Whenever I speak to our colleagues from overseas they are in awe at the quality of the science that comes out of Australia and NZ

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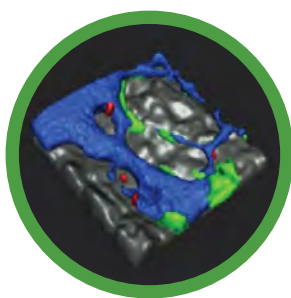
* 2017 Journal Citation Reports, Thomson Reuters 2017

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Immunology & Cell Biology

the flagship journal of the Australasian
Society for Immunology (ASI)

Catch up on recent Special Features from
Immunology & Cell Biology, including:



Advanced microscopy and imaging techniques in immunology and cell biology

In this Special Feature, we have compiled a series of articles that discuss the history of microscopes and imaging modalities.

We look at how current platforms have influenced basic research of immunology and cell biology as well as their use in the clinic to diagnose and treat disease. We also discuss how future developments in technology will open avenues for an even deeper understanding of fundamental principles in biology and the challenges associated with handling vast amounts of data generated by technology that gives such a high level of detailed information.

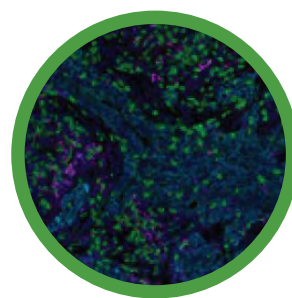
(from the July 2017 issue)



Necroptotic death signalling: evolution, mechanisms and disease relevance

In recent years, research into a genetically encoded cell death program termed necroptosis has accelerated into vogue. Many laboratories are now racing to answer key questions such as: How and when does it occur? What does it do? What is it good (or not so good) for? Answers to these will ultimately guide efforts aimed at manipulating this new pathway for therapeutic benefit. In these six articles, the current state of play in necroptotic cell death research is dissected in considerable detail. The articles provide timely updates on what we have learnt so far and, importantly, where we might be going.

(from the February 2017 issue)



Cancer Immunotherapy

This series of reviews highlights some of the recent advances in mobilizing effective host immunity to cancer. Cancer immunotherapy is at a critical and exciting stage of development. Progress in our understanding of cancer immunotherapy has been dramatic over recent years and we have selected six articles to highlight in this Special Feature.

(from the April 2017 issue)

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Clinical & Translational Immunology

Cutting-edge advances in biomedical research

Editor-in-Chief: Rajiv Khanna

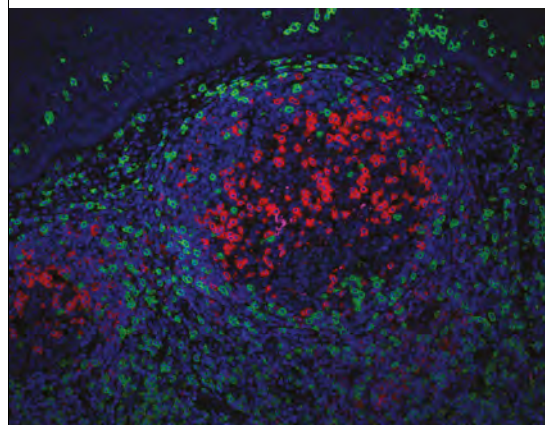
Clinical & Translational Immunology is an open access, online-only journal, seeking to cover basic, translational and clinical studies in all aspects of human immunology, including experimental models specific to human diseases.

ASI members enjoy a discount for publishing in *Clinical & Translational Immunology*

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Volume 7, Issue 1, January 2018



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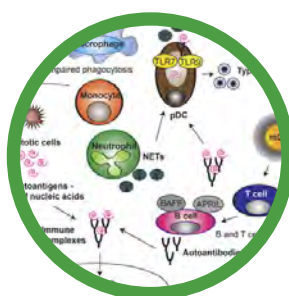
Catch up on recent Special Features from *Clinical & Translational Immunology*, including:



The gut microbiota and immune regulation: the fate of health and disease

In this Special Feature, we share our insights into the interplay between environmental factors, gut microbiota and metabolites, and their effects on human development, inflammation, infection, obesity, diabetes and chronic kidney disease. Likewise, we briefly discuss the challenges and opportunities in gut microbiota research and how novel therapeutic strategies targeting the gut microbiota will be beneficial for humans.

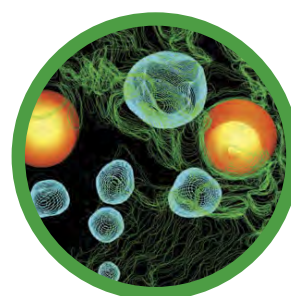
(from the June 2016 issue)



Necroptotic death Inflammatory diseases: a translational perspective

Our understanding of inflammatory disease biology is limited and available therapies vary greatly in their efficacy and safety. In this Special Feature, leading exponents of inflammatory disease discuss the development of anti-inflammatory treatments in their respective fields and describe the efforts into translating results from promising preclinical animal studies to novel therapeutic strategies for humans.

(from the May 2016 issue)



Cancer Immunotherapy Innate immune responses and vaccine design

This series of reviews highlights some of the recent advances in mobilizing effective host immunity to cancer. Cancer immunotherapy is at a critical and exciting stage of development. Progress in our understanding of cancer immunotherapy has been dramatic over recent years and we have selected six articles to highlight in this Special Feature.

(from the April 2017 issue)

Start reading at

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OBITUARY

IN MEMORY OF JAMES DOUGLAS WATSON

PROFESSOR STEPHEN HEDRICK & PROFESSOR GRAHAM LE GROS

James Douglas Watson, noted immunologist, passed away February 13, 2017. Jim received his MSc and PhD at the University of Auckland and then spent a large part of his scientific career in California. He was a postdoctoral fellow at Syntex Corporation working with Chev Kidson working on how antibodies are made, followed by a second Postdoctoral Fellowship at the Salk Institute, where he worked with Mel Cohn on the basis of T-B cell collaboration (Watson et al., 1973a; Watson et al., 1973b). During this period, he also became interested in the genetics of the response to lipopolysaccharide (LPS) in mice, and used the deficient C3H/HeJ strain able to map the response gene (*Ips*) linked to the major urinary protein locus *Mup-7^b* on Chromosome 4 (Watson et al., 1977). Almost two decades later, Bruce Beutler's group used positional cloning to find that this



JAMES DOUGLAS WATSON

Along with senior NZ and Australian colleagues Jim was a key architect in the merging of the NZ and Australian Societies for Immunology to form the Australasian Society for Immunology in 1991.

gene encodes TLR4, and for this he was awarded the Nobel Prize in medicine.

In 1975, Jim moved his family 70 miles north to the University

of California, Irvine, where he continued to pursue his long-standing interest in T cell-specific factors that stimulate B cell activation and antibody synthesis. This led him to a long period of

productive work starting with a technique for growing antigen-specific T cells in culture by continuous stimulation with T-cell growth factor (TCGF) (Watson, 1979). The characterization of TCGF occurred as a result of what turned out to be a long and fruitful collaboration with Steve Gillis, and the identification of TCGF as IL-2 (Watson et al., 1979; Gillis et al., 1980).

Jim grew up in Te Teko, a small township (as of 2006-population, 627) on the north island of New Zealand. As a proud Kiwi, Jim and family moved back to his New Zealand homeland in 1983 where he founded the Department of Molecular Medicine at the University of Auckland and served as head of the department from 1983-1993 and with his friend and colleague Professor John Marbrook set the scene for the future of Immunology in New Zealand. He and his colleagues continued to characterize cytokines, but in addition, Jim's laboratory began studies on the immune response to M. Leprae, still a significant disease in southern Asia (Watson, 1989).

In perhaps the last phase of his career as an immunologist, Jim collaborated with Phil Morrissey to show that the transfer of selected populations of T cells into SCID mice can result in an inflammatory wasting disease—a phenomenon now known to result from the exclusion of FOXP3+ Treg cells (Morrissey et al., 1993). A major legacy Jim left to the scientific world and New Zealand specifically was the training and development of many young scientists.

In 1994, Jim left academia to form Genesis Research and Development Corporation with the goal of using RNAi for plant

science and human therapies that targeted immune disorders and cancer. Genesis had a major impact on the growth of biotechnology in New Zealand, even though it was unable to demonstrate efficacy in clinical trials. In 2003, Jim was elected President of the Royal Society of New Zealand.

As anyone who has met Jim would acknowledge, he was charismatic, energetic and optimistic—even in the face of severe disease. He made important contributions to the field of immunology, and he enriched the lives of those who knew him.

Jim was diagnosed with an aggressive form of prostate cancer and, as a result, formed Caldera health with Richard Forster. The company's goal is to diagnose and treat prostate cancer. After a long-battle with the disease lasting more than a decade, Jim succumbed this year. He is survived by his wife Margaret, sons, Andrew and Craig, their wives, Nikki and Angela, and grandchildren, Lachlan, Anneke, Jessica, Finlay and Bella.

As anyone who has met Jim would acknowledge, he was charismatic, energetic and optimistic—even in the face of severe disease. He made important contributions to the field of immunology, and he enriched the lives of those who knew him.

Key publications:

Gillis, S., M. Scheid, and J. Watson. 1980. Biochemical and biologic characterization of lymphocyte regulatory molecules. III. The isolation and phenotypic characterization of Interleukin-2 producing T cell lymphomas. *J Immunol.* 125:2570-2578

Morrissey, P.J., K. Charrier, S. Braddy, D. Liggitt, and J.D. Watson. 1993. CD4+ T cells that express high levels of CD45RB induce wasting disease when transferred into congenic severe combined immunodeficient mice. Disease development is prevented by cotransfer of purified CD4+ T cells. *J Exp Med.* 178:237-244

Watson, J. 1979. Continuous proliferation of murine antigen-specific helper T lymphocytes in culture. *J Exp Med.* 150:1510-1519

Watson, J., R. Epstein, and M. Cohn. 1973a. Cyclic nucleotides as intracellular mediators of the expression of antigen-sensitive cells. *Nature.* 246:405-409

Watson, J., S. Gillis, J. Marbrook, D. Mochizuki, and K.A. Smith. 1979. Biochemical and biological characterization of lymphocyte regulatory molecules. I. Purification of a class of murine lymphokines. *J Exp Med.* 150:849-861

Watson, J., R. Riblet, and B.A. Taylor. 1977. The response of recombinant inbred strains of mice to bacterial lipopolysaccharides. *J Immunol.* 118:2088-2093

Watson, J., E. Trenkner, and M. Cohn. 1973b. The use of bacterial lipopolysaccharides to show that two signals are required for the induction of antibody synthesis. *J Exp Med.* 138:699-714

Watson, J.D. 1989. Leprosy: understanding protective immunity. *Immunol Today.* 10:218-221. doi:10.1016/0167-5699(89)90253-3.

THE IUIS CORNER

J. ALEJANDRO LOPEZ

Here is a brief update of the news coming from IUIS. If you wish to follow the news coming directly from the IUIS, visit www.iuisonline.org. The latest issue of the IUIS newsletter is available from this [link](#)



CALL FOR IMMUNOPAEDIA AMBASSADORS

Following from the previous report on Immunopaedia (<https://www.immunopaedia.org.za/>), here is an opportunity for ASI members to participate in the project.

Immunopaedia is a great resource for students and practitioners wanting to either update or deepen their knowledge in Immunology. The resource is the core of the teaching material for workshops organised in various locations by the Education Committee of the IUIS, the last of them took place in Ethiopia earlier this year and reported in this website (<http://www.iuisonline.org/images/pdf/ethiopia.pdf>). Other coming courses will be in Sao Paulo Brazil (Dec 11-15, iuisbrazilvaccines2017.com.br) and Ettal, Bavaria, Germany (March 18-23, 2018, web.dgfi.org/spring-school).

In particular, with the emphasis on clinical immunology, the program would like to increase the number “Ambassadors” who are immunologists willing to contribute with teaching material for the courses (<https://www.immunopaedia.org.za/our-ambassadors/>). There are currently no such “Ambassadors”



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from Australasia and it would be desirable to identify individuals willing to help in that role. The roles of such an Ambassador are described as:

- Promote Immunopaedia at their host institution – spreading the word about the website at places like seminars and lectures and adding a link to Immunopaedia on their institute's website.
- Identify ground-breaking and interesting immunology research articles and news to be posted on Immunopaedia "Breaking News" – this would include the latest immunology research coming out of their institute.
- Interview leading immunology researchers that visit their institute – short voice or video interviews to post on the website to help other learners.
- Promote the Immunopaedia [Facebook](#) and [Twitter](#) pages – encourage the people at their host institute to like, share and retweet Immunopaedia.
- Identify blogs and other websites where Immunopaedia can contribute content.

This opportunity would be fantastic if you wish to increase your international profile and establish interactive and fruitful collaborations with potential readers. In particular, should you be interested in enhancing your collaborative capabilities with immunologists from areas in South East Asia, Africa or Latin America; attendees to the courses are generally research leaders from those areas. Similarly, those of you with a desire to contribute to the dissemination of scientific knowledge to a more general audience, this platform give you a unique opportunity to use that potential of your skills. ■



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ASI ANNUAL MEETING BRISBANE 2017

ANTJE BLUMENTHAL & KRISTEN RADFORD

With 628 delegates, the ASI2017 conference in Brisbane truly exceeded everyone's expectations. Favourites included Graham Mitchell's life journey of an immunologist in "parasite paradise", Lynn Corcoran's inspiring Burnet Oration, the outstanding international and national speakers, lively poster discussions and an unforgettable Lafferty Debate. We have asked the ASI Travel Bursary winners to comment as well (see below).

We are grateful for the support of our sponsors, as well as the volunteer social media ambassadors and photographers, who helped us share ASI2017 with the world. A big thank you again to all the members of the organising committee for their hard work: Matt Sweet, Denise Doolan, Margaret Jordan, Ray Steptoe, Michele Teng, Kate Stacey, Sumaira Hasnain, James Wells, John Miles, Charles Armitage, Danica Hickey, Stephen Mattarollo, Danielle Stanisic, Melanie Shakespear, Rhiannon Werder, Alejandro Lopez, Ian Frazer. And of course, thank you to all delegates, who made ASI2017 a successful vibrant experience for everyone.

AMY PROSSER

Interviewee

The Women in Technology Life Skills for Research workshop was really interesting to attend. It was great to hear the advice and stories the speakers gave regarding life skills to succeed not only in research, but in any leadership role. Hopefully a similar type of session will happen again next year and more men will attend, as the information wasn't only for women.



ASI WIT



Women in Technology



THAO TRAN



SOCIAL MEDIA- HIGHLIGHTS FROM ASI2017

What a wonderful week in Brisbane! ASI2017 did not disappoint with a fantastic line up of talented researchers, huge amounts of chatter on twitter and plenty of fun too.

Explore these Storify highlights which were captured from the conference and the special Women's initiative session. I've personally selected these posts from twitter and you may have even been quoted!

You can check out all the posts from the conference via #ASI2017QLD on twitter or via facebook.

Dr Gabriela Khoury, Social Media Manager.

Twitter: @ASImmunology and @Dayofimmunology

Facebook: facebook.com/ASImmunology/ and facebook.com/DayofImmunology/

Storify: <https://storify.com/ASImmunology/asi2017-brisbane>

LILIAN CHA

Interviewee

This ASI conference has definitely been my favourite so far - I've previously been to ASI 2012 in Melbourne, ASI 2013 in Wellington, ASI 2014 in Wollongong. The main highlight was the high calibre programme with amazing international and national speakers. There was a great variety of disciplines in the field of immunology in both basic and translational science. This was also one the most well-organised ASI conferences – nice open venue which made it easy to chat with other scientists as well the vendors.



ASI WIT

...



ASI WIT Life Skills for Research workshop



JENNY ZHEN ZENG



JONATHON CHEE

Interviewee

The sessions were organised excellently. The quality of science was top-notch, and the opportunity to interact with scientists at different career stages was very much welcome. Rajiv Khanna's overview of his work on CAR therapy was a highlight. It was very encouraging to learn how the exciting field of tumour immunology is developing in Australia, especially the local success stories.

NAOMI TRUONG

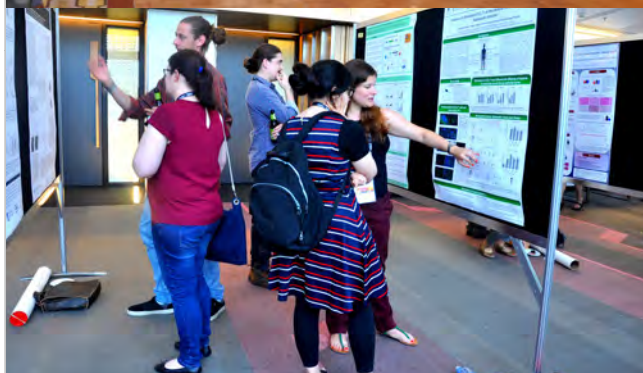
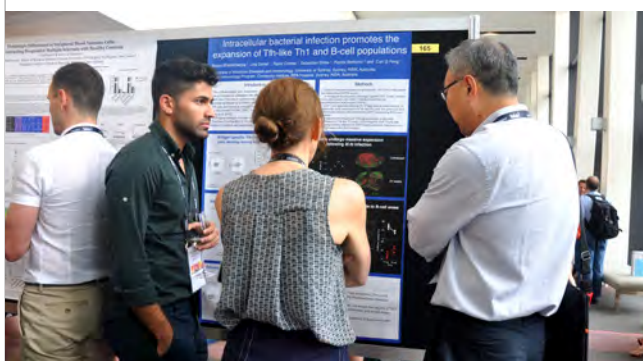
Interviewee

My top 3 highlights were as follows:

- Professor Lynn Corcoran's Burnet Oration, which was inspiring and full of outstanding achievements.
- The poster sessions, which were full of stimulating discussions of the work done by various investigators.
- The dance floor at the conference dinner, which was the most lively dance floor at a conference dinner I have ever seen!



THAO TRAN



ALLIE PUI YEUNG LAM



LE SON TRAN

Interviewee

The ASI 2017 conference's program was excellent and encompassed all aspects of innate and adaptive immunity in various disease settings. This was a great opportunity for me, as a young scientist, to keep up-to-date with most recent findings of cutting-edge research in the field and develop new perspectives for my research.

KEVIN FENIX

Interviewee

I am grateful for ASI for awarding me a travel bursary to attend the conference in Brisbane. As an early career researcher, it has given me the opportunity to see the type of science being performed in Australia, and to foster new collaborations. The outstanding science presented throughout the conference has helped me develop new ideas for my own projects.



MELANIE SHAKESPEARE

**JESSICA LOUGHLAND**

Interviewee

It was a great conference and I really appreciate the support to attend.

My three highlights are:

- Gender equity of all invited speakers including Plenary speakers. This is an excellent achievement. I was also pleased to see that each session was chaired by a male and female scientist.
- The diversity of Plenary speakers, I particularly enjoyed Greg Woods talk on Devil Facial Tumor. It was a very interesting and refreshing talk.
- A good representation of 'human' immunology research.

MARIOS KOUTSAKOS

Interviewee

Lynn Corcoran's Burnet Oration was undoubtedly the highlight of the meeting, elegantly delivered and inspiring young (and not so young) members of the audience. The Lafferty Debate was arguably one to be remembered! The Clinical and Translational Immunology plenary was of great interest, highlighting the importance of human studies of disciplines in the field of immunology in both basic and translational science. This was also one of the most well-organised ASI conferences – nice open venue which made it easy to chat with other scientists as well the vendors.



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Day of Immunology Coordinator, Australia and New Zealand.

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Get in touch with our [Day of Immunology Co-ordinator](#) as we are looking for keen volunteers to help organise local events in all States and Territories.



ENTHUSIAST DEMONSTRATORS AT THE GTAC SECONDARY SCHOOL WORKSHOPS IN VICTORIA. PHOTO COURTESY OF CENTRAL CLINICAL SCHOOLS, MONASH UNIVERSITY.

LOGO COMPETITION

Are you creative? Design savvy?

ASI is looking for a creative individual to design a Day of Immunology logo. The logo will be used across all regions for the promotion of Day of Immunology events held each year. It will also be used for Day of Immunology merchandise and other resources.

Review Submission Guidelines [here](#).

An Expression of Interest, just so we know you're keen.

Your finalised design before 22nd December 2017.

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CHEERFUL VOLUNTEERS AT THE MELBOURNE VACCINATION CAFÉ, PHOTO COURTESY OF GABRIELA KHOURY.

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We are looking for team of editors to work closely with the Day of Immunology Coordinator in preparing an immunology resource booklet.

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IMMUNOLOGY CUPCAKES, PHOTO COURTESY OF DEMELZA IRELAND.



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TRAVEL REPORTS

KEYSTONE SYMPOSIUM ON CELL DEATH AND INFLAMMATION

May 29 — June 2, 2017, Dublin, Ireland

REBECCA COLL, Inflammasome Lab, Institute for Molecular Bioscience, The University of Queensland.

Email: r.coll@imb.uq.edu.au Twitter: @Rebecca_Coll

Visited the Kennedy Institute of Rheumatology in Oxford, UK on 5th June 2017.

In May 2017 I travelled to Dublin, Ireland to attend the Keystone Symposium on Cell Death and Inflammation. This meeting was jointly held with the meeting on Integrating Metabolism and Immunity from May 29 to June 2 at the Royal Dublin Society. The focus of the meeting was how different forms of cell death such as necrosis, apoptosis, necroptosis and pyroptosis contribute to inflammation in both infection and sterile injury. My research focus is inflammasome signalling and inflammation so I was excited to learn more about cell death modalities and signalling pathways. The meeting was somewhat dwarfed by the concurrent Metabolism meeting which had 800 participants, outnumbering the Cell Death attendees by about 4 to 1. This perhaps reflects the massive interest and hype surrounding the area of immunometabolism or else the draw of a meeting fuelled by Guinness.

The Cell Death meeting was organised by Seamus Martin from Trinity College Dublin and John Silke from the Walter and Eliza Hall Institute and featured a number of speakers from Ireland and Australia. As an Irish woman living in Brisbane, I really enjoyed the Hiberno/Antipodean feeling of the meeting which gave me

the opportunity to catch up with many former colleagues and friends from Ireland, and to meet scientists working in the cell death field in Australia. I enjoyed being able to show my current colleagues around Dublin, and the responsibility of directing delegates to the best pubs around Dublin.

My research focus is inflammasome signalling and inflammation so I was excited to learn more about cell death modalities and signalling pathways.

One of the highlights of the meeting was the very first joint keynote session where Diane Mathis described specialised adipose tissue T-regulatory cells and Ruslan Medzhitov delivered a fascinating and thought-provoking talk on tissue organisation and homeostasis. The program featured a number of talks on



INTRIGUING DISCUSSION WITH DR MURRAY CLARKE AT MY POSTER. IMAGE CREDIT: DR MELANIE SHAKESPEAR.

necroptosis from some giants in the field including David Wallach. The role of ubiquitin signalling pathways in regulating cell death and inflammation was also a key theme of the meeting, including the EMBO Young Investigator Lecture from Mads Gyrd-Hansen. At the end of the first day I presented my poster on inflammasome signalling in human macrophages, this was



THE METABOLIX IN ACTION. IMAGE CREDIT: MAINI LAB UCL (@MAINI_LAB).

an excellent experience as I had plenty of interesting questions and feedback.

Of particular interest to me were the talks that overlapped with inflammasome signalling and IL-1 family proteins such as those by Kate Lawlor, Murray Clarke, and Ed Lavelle, while I also thoroughly enjoyed Domagoj Vucic's critical appraisal of the *in vivo* roles of RIPK1 and RIPK3 in multiple disease models. On the final day of the meeting there were a number of talks on how cell death is differentially regulated in cell types such as neutrophils, with particular highlights from Arturo Zychlinsky and Kate Schroder. In an impressive feat reflecting the diversity of his research, Doug Green gave keynote talks at both meetings, including the closing address at the Cell Death symposium. The final dinner of the joint meetings was capped off on a musical note in the shape of The Metabolix, a cover band fronted by my former PhD advisor Luke O'Neill, which was a fairly unique and entertaining end to the meeting.

After the meeting, I spent a weekend in Dublin with my family and friends before flying over to England to visit the Kennedy Institute of Rheumatology (KIR) in Oxford on June 5. The KIR is renowned as the birthplace of anti-TNF- α therapies and in 2013 moved from London to a state-of-the-art new building in



DR JELENA BEZBRADICA MIRKOVIC AND I AT THE RADCLIFFE CAMERA IN OXFORD. IMAGE CREDIT: RANDOM TOURIST.

Oxford. My former colleague from the Inflammasome Lab at the Institute for Molecular Bioscience, Jelena Bezbradica Mirkovic, is now a Senior Research Fellow at the KIR and was a wonderful host for my visit. I was hugely impressed by the integration of basic and translational research at the KIR and it was inspiring to meet a number of young female researchers from the institute such as Tal Arnon, Audrey Gérard and Irina Udalova who are driving innovative research programs in inflammation and immunity.

I would sincerely like to thank the ASI for their funding support as this Postdoctoral International Travel Award allowed me to attend an excellent meeting and to make contacts that will be invaluable in my future career. ■



VISITING THE KENNEDY INSTITUTE OF RHEUMATOLOGY. IMAGE CREDIT: DR JELENA BEZBRADICA MIRKOVIC.



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EMBO 9TH INTERNATIONAL WORKSHOP ON ANTIGEN PROCESSING AND PRESENTATION (APP9)

Salamanca, Spain

HAMISH MCWILLIAM

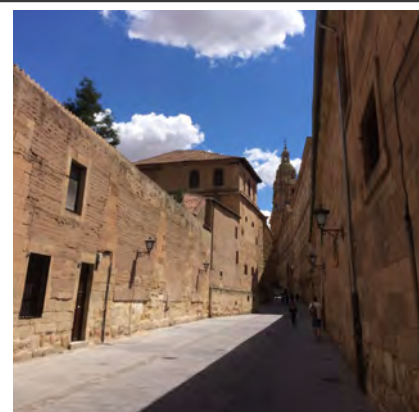
In May this year I was fortunate to receive funding from the ASI to attend the EMBO 9th International Workshop on Antigen Processing and Presentation (APP9) in Salamanca, Spain. This workshop continues to be the key meeting for the leaders in this field to discuss topics ranging from the molecular intricacies of how MHC-mediated presentation is controlled, to manipulating MHC presentation for increased efficacy of check-point inhibitors in cancer therapy.

Some highlights were the continued efforts to understand the molecular components required for cross-presentation, which has been a focus for many researchers in this field. It was also interesting hearing the perspectives (and at times contrasting opinions) during the round-table discussion, which focussed on current methods to monitor the immunopeptidome. There was a great presentation by Dr. Louise Boyle on the relatively new chaperone, TAPBPR, in the MHC-I pathway in which I have been investigating in my own research. Overall there was a high proportion of unpublished work, so it was a true workshop and an important glimpse into where the field is heading.

I was given the opportunity to present my work on the presenting molecule, MR1, which presents metabolite antigens to activate a highly abundant T cell subset, the MAIT cells. In the scheme of the other MHC molecules, MR1 is one of the newest kids on the block. There are many unknowns for its intracellular pathway to present this newly-described class of antigen. Hence it was extremely valuable for me to hear the work

on classical antigen presentation, to speak to those that made the pivotal observations in the early days of the field, and to see how this may relate to MR1 and metabolite antigens. My talk was well received and I had a number of conversations that have led to new experimental ideas and potential collaborations.

Following from the meeting, I visited the Institut Curie in Paris, France, to give a seminar. Here I was hosted by Prof. Olivier Lantz and Prof. Sebastian Amigorena. Prof. Lantz has been a pioneer in the MR1-MAIT cell field, particularly when he led the discovery that MAIT cells were restricted to MR1. Prof. Amigorena continues to advance our understanding in cross-presentation, which is highly relevant to presentation by MR1. It was great to meet others in their labs and present my work, which has led to an exchange of reagents and potential future collaborations. After this and a thorough exploration around Paris, I travelled to the UK to meet with my previous colleagues at the Moredun Research Institute in Edinburgh, to discuss a forthcoming publication.



THE BEAUTIFUL STREETS OF SALAMANCA, AND ANCIENT UNIVERSITY TOWN.

Finally, I travelled to Cambridge to meet with Dr. Louise Boyle, and I presented my work to her lab in greater detail than I had time for at the APP9 conference. We had previously discussed the possibility of collaborating; however, a face-to-face meeting is much more valuable than a few exchanged emails. From this meeting Dr. Boyle and her lab gave me important feedback, and were generous in providing me with novel reagents they have developed that are going to be vital to my continue investigations.

Overall, it was an extremely valuable and inspiring trip. I'm very grateful for the funding I have received. Since returning I have already begun experiments with the unique reagents that I received from Dr. Boyle's lab and look forward continue the collaboration with her and others from my trip. ■



PLAZA MAYOR: THE MAIN SQUARE IN SALAMANCA. THE BEST SPOT FOR SOME POST-CONFERENCE TAPAS.

TRAVEL GORDON ADA SENIOR TRAVEL AWARD

**Keystone Symposia “Type I Interferon – Friend and Foe Alike” & “Pattern Recognition Signaling: From Innate Immunity to Inflammatory Disease”
Banff, Canada**

ANTJE BLUMENTHAL, The University of Queensland, Australia

It was a great honour to receive the ASI Gordon Ada Senior Travel Award, which enabled me to attend the joint Keystone Symposia “Type I Interferon – Friend and Foe Alike” and “Pattern Recognition Signaling: From Innate Immunity to Inflammatory Disease”. The conferences were held at the Fairmont Springs Hotel in Banff surrounded by the breathtaking panorama of the snow-covered Rocky Mountains, only topped by the line-up of outstanding international speakers and top-notch science.

The type I IFN meeting highlighted significant recent advances in type I IFN research, but also showed how much we don't know about these cytokines: Beneficial and detrimental outcomes of type I IFN signalling, modes of regulation, specificity of signalling modalities and their biological consequences, and interferonopathies were just a few of the aspects that were focus of the many outstanding presentations. The program of the Innate Immune Signalling meeting reflected the breadth of innate signalling pathways and established important links to pathology. Aspects that stood out were the many different molecular pathways that lead to cell death as well as novel insights into regulation of signalling networks. My talk covered some of my lab's work on innate immune pathways that drive type I IFN responses in macrophages, which seemed to hit a sweet spot as it encompassed key aspects of both meetings. The questions and subsequent scientific discussions were excellent. In good Keystone meeting tradition, the venue

offered something for everyone and facilitated networking in a relaxed atmosphere. While some braved the ice and snow on the slopes, others took to the comfort of the Fairmont to continue engaging conversations over drinks and good food.

Leaving the Rockies behind, I headed to New York to visit Professors Sabine Ehrt and Dirk Schnappinger at Weill Cornell Medical College, whom I worked with as a postdoc and with whom

I continue to collaborate. They had arranged a seminar for the Department of Microbiology and Immunology where I presented several aspects of my group's ongoing work. Giving talks in front of people that have seen you grow over the years is certainly special and the seminar was very well received. During my stay in New York, I also met with Professor Joel Ernst (New York University) and Professor Eric Pamer (Memorial Sloan Kettering) to discuss current aspects of our work on host defense mechanisms against intracellular bacterial pathogens. Visiting New York was like coming home after a very long trip, and I very much enjoyed being able to catch up with many dear friends and my city. ■



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BRANCH REPORTS

WESTERN AUSTRALIA

CONNIE JACKAMAN



We have had a busy second half of this year with the Perth Immunology (P.I.G.) Meeting and plans well

underway for the ASI national meeting to be held in Perth 2018 (further details below)!

P.I.G. Meeting, Flying Squadron Yacht Club, Nedlands, 16th - 17th October 2017

The two-day P.I.G meeting had 83 registrants attending over the two days. Prof Cezmi Akdis and Mübeccel Akdis (Swiss Institute of Allergy and Asthma Research) were keynote speakers as part of the ASI international visiting speaker program and invited national speakers included A/Prof Kate Schroder (University of Queensland) and Dr Nick Huntington (WEHI). The calibre of presentations were excellent and four presentation prizes were given to students/postdocs (awarded to Jonatan Leffler, Telethon Kids Institute; Anthony Buzzai, Telethon Kids Institute; Amy Prosser, UWA and Sherianne Ng, Murdoch University) as well as one poster prize (Anunradha Sooda, Murdoch University). All participants were given the opportunity to present their work in relevant themed sessions and happy hour sessions at the end of each day were well attended. The highlight as well was seeing dolphins swim by on the first evening! However, given the

quality of the food and AV has deteriorated at the venue we will seek an alternative venue for the next P.I.G. meeting planned for 2019.

Final ASI WA local event for the year, Harry Perkins Institute (north campus), 7th December 2017

This year features Lars Nitschke visiting as part of the ASI international visiting speaker program and invited national speaker, Axel Kallies (WEHI).

SAVE THE DATE: ASI2018

The ASI annual scientific meeting will be held at **Pan Pacific Perth, 2nd-6th December 2018**. The local committee are preparing an exciting scientific program and a number of social events! ■

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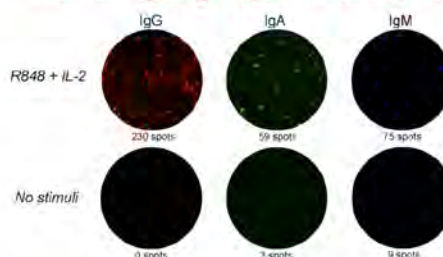


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[Dillenbeck, T., et al. \(2014\). Triple Cytokine FluoroSpot Analysis of Human Antigen-Specific IFN-gamma, IL-17A and IL-22 Responses. Cells 2014 Nov. 27 3\(4\): 1116-30](#)

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QUEENSLAND

SUMAIRA Z HASNAIN



This was an exciting year for Brisbane. We had a range of ASI activities throughout

the year and hosted the 46th ASI Annual Scientific Meeting here! ASI-QLD also welcomed a new treasurer, Dr. Ran Wang to the committee. I would like to take this opportunity to thank the outgoing treasurer, Dr Jason Lynch for doing such a phenomenal job over the past 3 years. If you are interested in joining the QLD ASI committee please contact the QLD ASI councillor sumaira.hasnain@mater.uq.edu.au

Brisbane Immunology Group Meeting (B.I.G)

A very successful 1-day BIG meeting was held in collaboration with Prof. Rajiv Khanna (QIMRB). Thank you to the committee members (Kristen Radford, Matt Sweet, Rajiv Khanna and Ray Steptoe) to putting together such a fantastic program. We hope to bring you the 2-day BIG meeting next year in August - Watch this space!

10th - 14th July 2017 - Advanced Immunology Course

The University of Queensland-Diamantina Institute ran a very successful advanced immunology course and two of the students (Gloria Woods and Kyla Bradbrook) won ASI membership for a year.

Visiting Speaker Program

This year Brisbane hosted Prof. Nancy Haigwood (Oregon Health and Science University, Portland, Oregon, USA) and Prof. Lars Nitschke (University of Erlangen, Germany, Oct 2017, Hosted by Prof. Michael Good).

Day of Immunology Events - QLD

We have had very successful DoI Events in QLD, with major events being held in Townsville and Brisbane. A big thank you to the DoI-QLD committee (Dr. Danielle Stanisic, Dr. Frances Pearson, Dr. Margaret Jordan, Dr. Kirsty Short, Dr. Saba Farnaghi and Burhan Khan) for making these events a success.

Lorne Infection and Immunity Conference

The Australian Infectious Diseases Research Centre, a network of infectious disease researchers at UQ and QIMR-B, will once again co-host the Lorne Infection and Immunity conference with the Victorian Infection & Immunity Network in February 2018. The meeting will be held from 14th - 16th February, and will feature a number of outstanding international and national speakers, including several invited speakers from the Qld immunology research community. More details can be found at <http://www.lorneinfectionimmunity.org> ■

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IgV, VICTORIA

SCOTT MUELLER (VIC COUNCILLOR) & SARAH LONDRINGAN

The 23rd Annual Scientific Meeting of the Immunology Group of Victoria (IgV) was held on the 24th and 25th of August 2017 at Balgownie Estate in the Yarra Valley. The fantastic line-up of invited speakers attracted over 106 registrants for the two - day meeting. Three international speakers provided a strong T cell theme for the scientific program - David Price (Cardiff University School of Medicine), Kristin Ladell (Cardiff University) and Adrian Liston (University of Leuven and the VIB, Belgium). Our national invited speakers extended the breadth of the program to incorporate innate immunity, inflammation and viral immunity with presentations from Kate Stacey (University of Queensland), James Vince (WEHI), Charles Mackay (Monash University), David Tschärke (ANU), Matt Sweet (University of Queensland), Meredith O'Keeffe (Monash) and Mariapia Degli-Esposti (University of Western Australia).

2017 saw the return of the IgV Dinner Speaker. This year we had the pleasure of accompanying the outstanding food and wine with a presentation by David Tarlinton (Monash University, AMREP). His presence ensured that B cell immunology was fairly represented and he also regaled us with the history of Flow Cytometry, peppered with numerous anecdotes!! Those of you that have witnessed David's performances during his numerous Lafferty debates will know that no subject was sacred!!!

The IgV meeting is largely designed to expose junior scientists to their more senior



INVITED SPEAKER DAVID TSCHARKE (ANU) AND LUCY SULLIVAN (MELB UNIVERSITY). PHOTO CREDIT: CATRIONA NGYUEN

colleagues (and vice versa) and provides an opportunity for our next generation to forge new links for their career. This is facilitated throughout the meeting by awarding best presentation prizes for students and post-doctoral scientists. Winners are awarded bursaries to cover registration for the annual ASI scientific meeting, a platform that ensures further recognition of our best and brightest. This year Lynette Beattie (Post-Doc Melbourne University), Jess Borger (Post-Doc, Monash University) and Simone Park (PhD Student, Melbourne University) were worthy recipients. The notorious

IgV 3-minute thesis competition was also held, where our official timekeeper, the rubber chicken, was expertly clucked by Sidney Price (son of David and Kristen). While most students kept to time, the chicken was able to cluck some students into silence, much to the amusement of our international guests!!! IgV was proud to provide bursaries to cover registration to the ASI meeting to Jessica Tempany (2nd/3rd Year PhD student, WEHI) and Taylah Bennett (Hons/1st Year PhD student, Monash University). And it always pays for students to ask questions as a bottle of fine red wine was awarded to



AWARD WINNERS (LEFT TO RIGHT: LYNETTE BEATTIE, SIMONE PARK, JESS BORGER AND TAYLAH BENNETT). PHOTO CREDIT (NICOLE LA GRUTA)

The notorious IgV 3-minute thesis competition was also held, where our official timekeeper, the rubber chicken, was expertly clucked by Sidney Price (son of David and Kristen).

Erica-Wynne-Jones (Melbourne University) for the best student question.

In light of the spectacular success of the 2017 meeting, the IgV Committee is pleased to announce that we will be returning to Balgownie Estate in 2018. Note the dates of the 23rd and 24th of August in your diary now and watch for future announcements. Much like 2017, we expect a star-studded line up of international and national guests and subsidised accommodation. Remember to book early to avoid disappointment!!!

Current composition of the Immunology Group of Victoria Committee:

- Nicole La Gruta (Monash University) – President
- Sarah Londrigan (Melbourne University) – Secretary
- Dan Andrews (Monash University) – Treasurer
- Scott Mueller (Melbourne University) – ASI Vic/Tas State Council
- Stuart Berzins (Federation University)
- Melissa Call (WEHI)
- Mark Chong (SVI)
- Phil Darcy (Peter Mac)
- Daniel Gray (WEHI)
- Mireille Lahoud (Monash University)
- Daniel Layton (CSIRO)
- Bruce Lyons (UTAS)
- Ashley Mansell (Hudson Institute)
- Seth Masters (WEHI)
- Clare Slaney (Peter Mac) ■



NICOLE LA GRUTA (PRESIDENT) AND SARAH LONDRIGAN (SECRETARY). PHOTO CREDIT: STEPHEN TURNER.



KAT GOODALL AND EVELYN TSANTIKOS. PHOTO CREDIT: KAT GOODALL

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Adelaide Immunology Retreat

The 13th Adelaide
Immunology
Retreat was held

on August 11-12th 2017 at the Vine Inn in the Barossa Valley. The retreat was once again very well attended by students and local researchers and we had 45 delegates attending over the two days. We were privileged to have terrific plenary talks from Dr Su Heinzl from WEHI as our interstate speaker and from Professor David Lynn from SAHMRI as our local speaker and I would like to thank them for their time and participation in making the retreat a success.

We had 23 shorter presentations from delegates in the various categories and had prizes for the best talks from PhD students, honours/masters students and RA/ECRs. Our prize winners were: **Cameron Bastow (best PhD), Jasmine Wilson (runner up PhD), Maleika Osman (best Honours/Masters), Kay Min (best RA/ECR)**. In addition, the Robinson Institute at the University of Adelaide sponsored a prize for the best student talk in the field of reproductive, developmental and paediatric immunology, which was won by Holly Groome. I would like to thank all of the delegates who presented their work for the outstanding level of their presentations. During the retreat we also enjoyed some ten-pin bowling and a wine tasting. I would like to thank the hard-working members of the organising committee for helping put together this event:



(FROM LEFT TO RIGHT) DAVID LYNN, SU HEINZEL, IAIN COMERFORD



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Recent publications:

1. Burnett *et al* 2017 'Murine LRBA-deficiency causes CTLA-4 deficiency in Tregs without progression to immune dysregulation', Immunol Cell Biol, 95: 775-88 doi: 10.1038/icb.2017.50
2. Loh *et al* 2017 'Inhibition of Y1 receptor signaling improves islet transplant outcome', Nat Commun. 2017 Sep 8;8(1):490. doi: 10.1038/s41467-017-00624-2

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BASTOW

Organising Committee: Iain Comerford, Jasmine Wilson, Carly Gregor, Ella Green, Emma Thompson, Lih Tan, Kay Min, Joe Wrin, Danushka Wijesundara, Preethi Eldi, Jade Foeng, Timona Tyliss, Todd Norton, Elena Cavallero, Kerrie Foyle and Jake Treolar

We plan to run a similar retreat in 2018 and will be forming a local organising committee for this early next year. If any local members would like to contribute to this, please get in touch.



RUNNER-UP PHD TALK, JASMINE WILSON



BEST RA/ECR, KAY MIN

ASI Prizes for Immunology

The SA/NT ASI branch sponsored the 'ASI Prize for Immunology' (\$200) at the University of South Australia, which was awarded to the students who achieved the highest overall mark in the Immunology course in the School of Pharmacy and Medical Sciences. The joint winners were Shannon Capwell-Jone and Nancy Azzollini.

The 'Immunology Prize' (\$250) at the University of Adelaide awarded to the top undergraduate immunology student was won in 2017 by Madelaine Massy-Westrop.

The SA/NT ASI branch sponsored \$250 towards one of the Centre for Cancer Biology Annual Awards. This year this was won by Dr Rebecca Harper for excellence with her commended thesis.

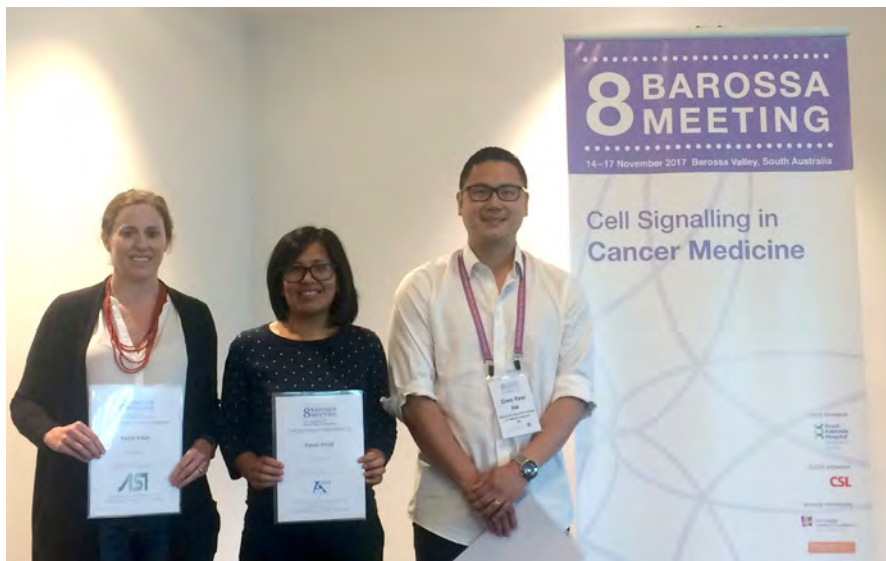
The branch sponsored a prize at this year's Barossa Signalling Meeting. This was won by Dr Genvieve Secker for the best ECR poster.



FLINDERS UNIVERSITY UNDERGRADUATE STUDENT IMMUNOLOGY PRIZE, AIDAN NORBURY (RIGHT)

We have established in 2017 a prize for top undergraduate immunology student at Flinders University. The inaugural winner is Aidan Norbury.

Well done to all of the award winners!



GENVIEVE SECKER (LEFT), WINNER OF BEST ECR POSTER PRIZE



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Visiting Speakers Program

In 2017 we have hosted Professors Adrian Liston, Cezmi Akdis, Mulbecel Akdis and Professor Lars Nitschke in Adelaide as visiting speakers on the ASI VSP. They each presented terrific talks about their work and we thank them all for taking the time to visit SA!



CEZMI AKDIS WITH SIMON BARRY AND MULBECCEL AKDIS



VSP SPEAKERS DINNER IN ADELAIDE

Day of Immunology 2018

We are planning to run several exciting events for Day of Immunology in April 2018. We hope to be able to showcase the new Medical Research precinct in Adelaide to the public and promote immunology to school kids. **We will be forming an organising committee for this in the coming weeks.** Please get in touch if you would like to help with this!

I can be contacted by email at ian.comerford@adelaide.edu.au

We hope to be able to showcase the new Medical Research precinct in Adelaide to the public and promote immunology to school kids.



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ASI'S VISITING SPEAKER PROGRAMME REPORT

JO KIRMAN,
University of Otago, Dunedin, NZ

This is my last report as ASI Visiting Speaker Coordinator before Stuart Mannering of St. Vincent's Institute of Medical Research, Melbourne, takes over the position. It has been an interesting, and at times quite challenging, role. I've had the pleasure of interacting with many fascinating individuals – both local and from afar. I was very fortunate to have the help of Alejandro Lopez, who had been the coordinator for 10 years prior, as I learned the ropes. I hope to

I hope to have made a few improvements to the programme during my tenure in the position; to me the most important was to improve the gender balance of our visiting speakers.

have made a few improvements to the programme during my tenure in the position; to me the most important was to improve the gender balance of our visiting speakers. I think that this aspect of the programme has been successful and I hope to see it continue. There are still many

facets of the programme that remain to be improved; despite this, I think the programme has been and continues to be incredibly valuable to the membership. I know of many examples where collaborations have been initiated or strengthened as a result of a visit, and many students have found international postdoctoral positions.

FIRST 2018 NOMINATION ROUND FOR ASI VISITING SPEAKERS

The first round of nominations for 2018 ASI visiting speakers closed in November. Many thanks to those ASI members who sent in speaker nominations. These nominations have been carefully considered by the branch councillors and now ASI Executive are using the branch rankings to guide their selection.

ASI VISITING SPEAKERS – COMPLETED VISITS

PROF CEZMI AKDIS – SWISS INSTITUTE OF ALLERGY AND ASTHMA RESEARCH, UNIVERSITÄT ZÜRICH, SWITZERLAND

In October Prof Cezmi Akdis and his wife, Prof Mübeccel Akdis, visited Perth, Adelaide and Newcastle in Australia, before reaching their last port of call of Wellington, New Zealand. Cezmi's research is focused on immune tolerance mechanisms in humans, developing novel vaccines and treatment modalities, and regulation and role of tissue cells and epithelial barrier in asthma and allergies. Kara Filbey, one of the nominators of Cezmi said, "the whole trip went well, and we very much enjoyed having both Mübeccel and Cezmi here. They were a force of allergy knowledge and great fun!"

PROF LARS NITSCHKE – UNIVERSITY OF ERLANGEN, ERLANGEN, GERMANY

We were very fortunate to be able to facilitate several visits by eminent B cell immunologist Prof. Lars Nitschke to laboratories across Australia, while he has been visiting David Tarlington's laboratory at Monash. Lars has visited and given seminars in the Gold Coast, Sydney, Canberra and Perth. Thomas Haselhorst of Griffith University said, "Thanks again for



CEZMI AKDIS (CENTER) VISIT TO THE MALAGHAN INSTITUTE

supporting Prof. Lars Nitschke's visit at the Institute for Glycomics. Lars was here last week and he had two days of fruitful meetings, discussions and seminars."

When I met Lars at the ASI meeting in Brisbane it was clear he had thoroughly enjoyed his visits and appreciated the opportunities this programme provides.

UPCOMING VISITING SPEAKERS FOR 2018

Several of the visitors approved from 2017 are planning to travel in early 2018. Coming up we have:

- Carina Mallard (University of Gothenburg, Sweden) hosted by Andrew Currie
- 6-7 December, Adelaide; 22-23 January, Auckland; 24 January- 1 February Perth
- Alan Sher (National Institutes of Health, MD, USA) hosted by Carl Feng
- Visits in March 2018 (to be confirmed)
- Diane Mathis (Swiss Institute of Allergy and Asthma Research) hosted by Daniel Gray
- Visits in March 2018, itinerary to be confirmed ■



STUDENT DINNER WITH CEZMI AKDIS



SENIOR SCIENTISTS DINNER



PUBLICATIONS OF INTEREST

OUR SUSTAINING MEMBERS



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[Novel assay reveals a large, inducible, replication-competent HIV-1 reservoir in resting CD4+ T cells](#)

DOI: <http://dx.doi.org/10.1038/nm.4347>

Product Link: [EasySep™ Human Resting CD4+ T Cell Isolation Kit](#)

[Dendritic cells but not macrophages sense tumor mitochondrial DNA for cross-priming through signal regulatory protein a signaling](#)

DOI: <http://dx.doi.org/10.1016/j.immuni.2017.07.016>

Product link:

[EasySep™ Mouse CD8 T Cell Isolation Kit](#)

[EasySep™ Mouse CD11c Positive Selection Kit II](#)

[The transcriptional coactivator TAZ regulates reciprocal differentiation of Th17 cells and Treg Cells](#)

DOI: <http://dx.doi.org/10.1038/ni.3748>

Product Link:

[EasySep™ Human Naive CD4+ T Cell Isolation Kit](#)

[EasySep™ Human Memory CD4+ T Cell Enrichment Kit](#)

[EasySep™ Mouse CD4+CD25+ Regulatory T Cell Isolation Kit II](#)

[ImmunoCult™ Human Th1 Differentiation Supplement](#)

[ImmunoCult™ Human Th2 Differentiation Supplement](#)



Mouse models from Ozgene have been utilised in the following recent publications.

Please find a full list in www.ozgene.com/publication/papers

[Service: Knock-in mouse model](#)

Khoueiry et al. (2017). Lineage-specific functions of TET1 in the postimplantation mouse embryo. Nature Genetics. DOI: <http://dx.doi.org/10.1038/ng.3868>

[Service: Knockout mouse model](#)

Knies et al. (2017). Biallelic mutations in the ubiquitin ligase RFW3 cause Fanconi anemia. Journal of Clinical Investigation. DOI: <http://dx.doi.org/10.1172/JCI92069>

[Service: Knockout mouse model](#)

Jiang et al. (2017). The methyltransferase SETDB1 regulates a large neuron-specific topological chromatin domain. Nature Genetics. DOI: <http://dx.doi.org/10.1038/ng.3906>



[Anti-RUNX2 antibody \[EPR14334\] \(ab192256\)](#)

SIRT3/SOD2 maintains osteoblast differentiation and bone formation by regulating mitochondrial stress.

Gao J et al. 2017 September, Cell Death Differ.

DOI: <http://dx.doi.org/10.1038/cdd.2017.144>

[Anti-SynGAP antibody \[EPR2883Y\] \(ab77235\)](#)

3'UTR Length-Dependent Control of SynGAP Isoform $\alpha 2$ mRNA by FUS and ELAV-like Proteins Promotes Dendritic Spine Maturation and Cognitive Function.

Yokoi S et al. 2017 September, Cell Rep

DOI: <http://dx.doi.org/10.1016/j.celrep.2017.08.100>

[Anti-Amyloid Precursor Protein antibody \[Y188\] \(ab32136\)](#)

Dimerization leads to changes in APP (amyloid precursor protein) trafficking mediated by LRP1 and SorLA.

Eggert S et al. 2017 August, Cell Mol Life Sci.

DOI: <http://dx.doi.org/10.1007/s00018-017-2625-7>



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Jantaruk P et al. (2017) Potential role of an antimicrobial peptide, KLK in inhibiting lipopolysaccharide-induced macrophage inflammation.

PLoS One. Vol/Page: <http://dx.doi.org/10.1371/journal.pone.0183852>

PE/Dazzle™ 594 anti-human CD34 Antibody

Martrus G et al. (2017) Proliferative capacity exhibited by human liver-resident CD49a+CD25+ NK cells.

PLoS One. Vol/Page: <http://dx.doi.org/10.1371/journal.pone.0182532>

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Riou C et al. (2017) Analysis of the Phenotype of Mycobacterium tuberculosis-Specific CD4+ T Cells to Discriminate Latent from Active Tuberculosis in HIV-Uninfected and HIV-Infected Individuals.

Front Immunol Vol/Page: <http://dx.doi.org/10.3389/fimmu.2017.00968>



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A Becn1 mutation mediates hyperactive autophagic sequestration of amyloid oligomers and improved cognition in Alzheimer's disease

Rocchi A, et al. 2017, PLoS Genet.

doi: <http://dx.doi.org/10.1371/journal.pgen.1006962>

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In vivo production of non-glycosylated recombinant proteins in Nicotiana benthamiana plants by co-expression with Endo- β -N-acetylglucosaminidase H (Endo H) of Streptomyces plicatus

Mamedov T, et al. 2017, PLoS One.

DOI: <http://dx.doi.org/10.1371/journal.pone.0183589>

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Systems Vaccinology Identifies an Early Innate Immune Signature as a Correlate of Antibody Responses to the Ebola Vaccine rVSV-ZEBOV

Rechtien A, et al. 2017. Cell Rep.

DOI: <http://dx.doi.org/10.1016/j.celrep.2017.08.023>

PUBLICATIONS OF INTEREST

FROM OUR MEMBERS

AJITHKUMAR VASANTHAKUMAR

The TNF Receptor Superfamily-NF- κ B Axis Is Critical to Maintain Effector Regulatory T Cells in Lymphoid and Non-lymphoid Tissues Vasanthakumar A, Liao Y, Teh P, Pascutti MF, Oja AE, Garnham AL, Gloury R, Tempany JC, Sidwell T, Cuadrado E, Tuijnenburg P, Kuijpers TW, Lalaoui N, Mielke LA, Bryant VL, Hodgkin PD, Silke J, Smyth GK, Nolte MA, Shi W, Kallies A Cell Rep. 2017 Sep 19;20(12):2906-2920. doi: 10.1016/j.celrep.2017.08.068 PMID: 28889989

ALAN HSU

Regulation of xanthine dehydrogenase gene expression and uric acid production in human airway epithelial cells. Ryan D. Huff, Alan C-Y. Hsu, Kristy S. Nichol, Bernadette Jones, Darryl A. Knight, Peter A. B. Wark, Philip M. Hansbro, Jeremy A. Hirota PLoS ONE12(9): e0184260. <https://doi.org/10.1371/journal.pone.0184260> PMID: 28863172

Vesicular Systems Containing Curcumin and Their Applications in Respiratory Disorders A Mini Review. Dinesh Kumar Chellappan*, Philip Michael Hansbro, Kamal Dua, Alan Hsu, Gaurav Gupta, Zhao Yin Ng, Jin-Ying Wong, Jestin Chellian, Jithendra Panneerselvam. Pharm Nanotechnol. doi: 10.2174/22117385056661708080 94635. [Epub ahead of print] PMID: 28786351

Airway remodelling and inflammation in asthma are dependent on the extracellular matrix protein fibulin-1c. Gang Liu, Marion A Cooley, Prema M Nair, Chantal Donovan, Alan C Hsu, Andrew G Jarnicki, Tatt Jhong Haw, Nicole G Hansbro, Qi Ge, Alexandra C Brown, Hock Tay, Paul S Foster, Peter A Wark, Jay C Horvat, Jane E Bourke, Chris L Grainge, W Scott Argraves, Brian G Oliver, Darryl A Knight, Janette K Burgess, Philip M Hansbro J Pathol. doi: 10.1002/path.4979. [Epub ahead of print]. PMID: 28862768

AMANDA WOON

Comparative transcriptomics highlights the role of the API transcription factor in the host response to Ebolavirus. Wynne JW, Todd S, Boyd V, Tachedjian M, Klein R, Shiell B, Dearnley M, McAuley AJ, Woon AP, Purcell AW, Marsh GA, Baker ML. J Virol. 2017 Sep 20. pii: JVI.01174-17. doi: 10.1128/JVI.01174-17. [Epub ahead of print] PMID: 28931675

AMY WOOLDRIDGE

Pre-birth origins of allergy and asthma. Gatford KL, Wooldridge AL, Kind KL, Bischof R, Clifton VL. J Reprod Immunol. 2017 Sep;123:88-93. doi: 10.1016/j.jri.2017.07.002. Epub 2017 Jul 20. Review. PMID: 28760578

Late gestation maternal dietary methyl donor and cofactor supplementation in sheep partially reverses protection against allergic sensitization by IUGR. Wooldridge AL, Bischof RJ, Liu H, Heinemann GK, Hunter DS, Giles LC, Simmons RA, Lien YC, Lu W, Rabinowitz JD, Kind KL, Owens JA, Clifton VL, Gatford KL. Am J Physiol Regul Integr Comp Physiol. 2017 Oct 4;ajpregu.00549.2016. doi: 10.1152/ajpregu.00549.2016. [Epub ahead of print] PMID: 28978515

ANDREAS STRASSER

Jain R, Sheridan JM, Policheni A, Heinlein M, Gandolfo LC, Dewson G, Smyth GK, Sansom SN, Fu NY, Visvader JE, Holländer GA, Strasser A, Gray DHD. A critical epithelial survival axis regulated by MCL-1 maintains thymic function in mice. Blood. 2017 Sep 29. pii: blood-2017-03-771576. doi: 10.1182/blood-2017-03-771576. [Epub ahead of print] PubMed PMID: 28972012.

Fitzsimmons L, Boyce AJ, Wei W, Chang C, Croom-Carter D, Tierney RJ, Herold MJ, Bell AI, Strasser A, Kelly GL, Rowe M. Coordinated repression of BIM and PUMA by Epstein-Barr virus

latent genes maintains the survival of Burkitt lymphoma cells. Cell Death Differ. 2017 Sep 29. doi: 10.1038/cdd.2017.150. [Epub ahead of print] PubMed PMID: 28960205.

King A, Li L, Wong DM, Liu R, Bamford R, Strasser A, Tarlinton DM, Heierhorst J. Dynein light chain regulates adaptive and innate B cell development by distinctive genetic mechanisms. PLoS Genet. 2017 Sep 18;13(9):e1007010. doi:10.1371/journal.pgen.1007010. eCollection 2017 Sep. PubMed PMID: 28922373; PubMed Central PMCID: PMC5619840.

Wiede F, Dudakov JA, Lu KH, Dodd GT, Butt T, Godfrey DI, Strasser A, Boyd RL, Tiganis T. PTPN2 regulates T cell lineage commitment and $\alpha\beta$ versus $\gamma\delta$ specification. J Exp Med. 2017 Sep 4;214(9):2733-2758. doi: 10.1084/jem.20161903. Epub 2017 Aug 10. PubMed PMID: 28798028; PubMed Central PMCID: PMC5584121.

Meyerovich K, Violato NM, Fukaya M, Dirix V, Pachera N, Marselli L, Marchetti P, Strasser A, Eizirik DL, Cardozo AK. MCL-1 Is a Key Antiapoptotic Protein in Human and Rodent Pancreatic β -Cells. Diabetes. 2017 Sep;66(9):2446-2458. doi: 10.2337/db16-1252. Epub 2017 Jun 30. PubMed PMID: 28667119.

Liew SH, Nguyen QN, Strasser A, Findlay JK, Hutt KJ. The ovarian reserve is depleted during puberty in a hormonally driven process dependent on the pro-apoptotic protein BMF. Cell Death Dis. 2017 Aug 3;8(8):e2971. doi: 10.1038/cddis.2017.361. PubMed PMID: 28771225; PubMed Central PMCID: PMC5596551.

Delbridge AR, Aubrey BJ, Hyland C, Bernardini JP, Di Rago L, Garnier JM, Lessene G, Strasser A, Alexander WS, Grabow S. The BH3-only proteins BIM and PUMA are not critical for the reticulocyte apoptosis caused by loss

of the pro-survival protein BCL-XL. *Cell Death Dis.* 2017 Jul 6;8(7):e2914. doi: 10.1038/cddis.2017.304. PubMed PMID: 28682312; PubMed Central PMCID: PMC5550852.

ANDREW TAYLOR-ROBINSON

Neglected Australian arboviruses: quam gravis? Gyawali N, Bradbury RS, Aaskov JG, Taylor-Robinson AW. *Microbes Infect.* 2017 Jul - Aug;19(7-8):388-401. doi: 10.1016/j.micinf.2017.05.002. Epub 2017 May 25. PMID: 28552411

New episode of Middle East Respiratory Syndrome Coronavirus outbreak in Saudi Arabia: an emerging public health threat. Khan AW, Taylor-Robinson AW, Nasim Z, Zahir F, Ali A, Ali S. *Public Health.* 2017 Sep;150:149-151. doi: 10.1016/j.puhe.2017.07.016. Epub 2017 Aug 10. No abstract available. PMID: 28802180

ANTHONY PURCELL

The SysteMHC Atlas project Shao W, Pedrioli PGA, Wolski J, Scurtescu C, Schmid E, Vizcal_no JA, Courcelles M, Schuster H, Kowalewski D, Marino F, Arlehamn CSL, Vaughan K, Peters B, Sette A, Ottenhoff THM, Meijgaarden KE, Nieuwenhuizen N, Kaufmann SHE, Schlapbach R, Castle JC, Nesvizhskii AI, Nielsen M, Deutsch EW, Campbell DS, Moritz RL, Zubarev RA, Ytterberg AJ, Purcell AW, Marcilla M, Paradela A, Wang Q, Costello CE, Ternette N, van Veelen PA, van Els CACM, Heck AJR, de Souza GA, Sollid LM, Admon A, Stevanovic S, Rammensee HG, Thibault P, Perreault C, Bassani-Sternberg M, Aebersold R, Caron E. *Nucleic Acids Res.* 2017 Jul 29. doi:10.1093/nar/gkx664 PubMed PMID: 28985418.

Comparative transcriptomics highlights the role of the AP1 transcription factor in the host response to Ebolavirus. Wynne JW, Todd S, Boyd V, Tachedjian M, Klein R, Shiell B, Dearnley M, McAuley AJ, Woon AP, Purcell AW, Marsh GA, Baker ML. *J Virol.* 2017 Sep 20. pii: JVI.01174-17. doi: 10.1128/JVI.01174-17. PubMed PMID: 28931675.

The molecular basis for peptide repertoire selection in the human leucocyte antigen (HLA) C*06:02 molecule. Mobbs JI, Illing PT, Dudek NL, Brooks AG, Baker DG, Purcell AW, Rossjohn J, Vivian JP. *J Biol Chem.* 2017 Oct 20; 292(42):17203-17215. doi: 10.1074/jbc.M117.806976. PubMed

PMID: 28855257

The role of HLA genes in pharmacogenomics: unravelling HLA associated adverse drug reactions. Illing PT, Purcell AW, McCluskey J. *Immunogenetics.* 2017 Aug; 69(8-9):617-630. doi: 10.1007/s00251-017-1007-5. PubMed PMID: 28695285.

ANTONIO FERRANTE

The Application of Dextran Sedimentation as an Initial Step in Neutrophil Purification Promotes Their Stimulation, due to the Presence of Monocytes. Quach A, Ferrante A. *J Immunol Res.* 2017;2017:1254792. doi: 10.1155/2017/1254792. Epub 2017 Oct 15. PMID: 29164154

Relationship between Vascular Resistance and Sympathetic Nerve Fiber Density in Arterial Vessels in Children With Sleep Disordered Breathing. Kontos A, Lushington K, Martin J, Schwarz Q, Green R, Wabnitz D, Xu X, M Sokoya E, Willoughby S, Baumert M, Ferrante A, La Forgia M, Kennedy D. *J Am Heart Assoc.* 2017 Jul 17;6(7). pii: e006137. doi: 10.1161/JAHA.117.006137. PMID: 28716800

ARABELLA YOUNG

Targeting Adenosine in BRAF-Mutant Melanoma Reduces Tumor Growth and Metastasis. Young A, Ngiew SF, Madore J, Reinhardt J, Landsberg J, Chitsazan A, Rautela J, Bald T, Barkauskas DS, Ahern E, Huntington ND, Schadendorf D, Long GV, Boyle GM, Hlilzel M, Scolyer RA, Smyth MJ. *Cancer Res.* 2017 Sep 1;77(17):4684-4696. doi: 10.1158/0008-5472.CAN-17-0393. Epub 2017 Jun 26.

MAPK Signaling and Inflammation Link Melanoma Phenotype Switching to Induction of CD73 during Immunotherapy. Reinhardt J, Landsberg J, Schmid-Burgk JL, Ramis BB, Bald T, Glodde N, Lopez-Ramos D, Young A, Ngiew SF, Nettersheim D, Schorle H, Quast T, Kolanus W, Schadendorf D, Long GV, Madore J, Scolyer RA, Ribas A, Smyth MJ, Tume PC, T_l_ting T, Hlilzel M. *Cancer Res.* 2017 Sep 1;77(17):4697-4709. doi: 10.1158/0008-5472.CAN-17-0395. Epub 2017 Jun 26. PMID: 28652246

Tumor immunoevasion by the conversion of effector NK cells into type 1 innate lymphoid cells. Gao Y, Souza-Fonseca-Guimaraes F, Bald T, Ng SS, Young A, Ngiew SF, Rautela

J, Straube J, Waddell N, Blake SJ, Yan J, Bartholin L, Lee JS, Vivier E, Takeda K, Messaoudene M, Zitvogel L, Teng MWL, Belz GT, Engwerda CR, Huntington ND, Nakamura K, Hlilzel M, Smyth MJ. *Nat Immunol.* 2017 Sep;18(9):1004-1015. doi: 10.1038/ni.3800. Epub 2017 Jul 31.

AXEL HEISER

McDougall S, LeBlanc SJ, Heiser A. Effect of prepartum energy balance on neutrophil function following pegbovigrastim treatment in periparturient cows. *J Dairy Sci.* 2017 Sep;100(9):7478-7492. doi: 10.3168/jds.2017.12786. Epub 2017 Jun 21. PubMed PMID: 28647326.

Crookenden MA, Walker CG, Kuhn-Sherlock B, Murray A, Dukkipati VSR, Heiser A, Roche JR. Technical note: Evaluation of endogenous control gene expression in bovine neutrophils by reverse-transcription quantitative PCR using microfluidics gene expression arrays. *J Dairy Sci.* 2017 Aug;100(8):6763-6771. doi: 10.3168/jds.2016-12460. Epub 2017 Jun 16. PubMed PMID: 28624280.

Crookenden MA, Walker CG, Peiris H, Koh Y, Almughlliq F, Vaswani K, Reed S, Heiser A, Looor JJ, Kay JK, Meier S, Donkin SS, Murray A, Dukkipati VSR, Roche JR, Mitchell MD. Effect of circulating exosomes from transition cows on Madin-Darby bovine kidney cell function. *J Dairy Sci.* 2017 Jul;100(7):5687-5700. doi: 10.3168/jds.2016-12152. Epub 2017 Apr 27. PubMed PMID: 28456398.

DAMON TUMES

Epigenetic regulation of T-helper cell differentiation, memory, and plasticity in allergic asthma. Tumes DJ, Papadopoulos M, Endo Y, Onodera A, Hirahara K, Nakayama T. *Immunol Rev.* 2017 Jul;278(1):8-19. doi: 10.1111/imr.12560. Review. PMID: 28658556

DIPTI VIJAYAN

Interleukin-12 from CD103+ Batf3-Dependent Dendritic Cells Required for NK-Cell Suppression of Metastasis. Mittal D, Vijayan D, Putz EM, Aguilera AR, Markey KA, Straube J, Kazakoff S, Nutt SL, Takeda K, Hill GR, Waddell N, Smyth MJ. *Cancer Immunol Res.* 2017 Oct 25. doi: 10.1158/2326-6066.CIR-17-0341. [Epub ahead of print] PMID: 29070650

Targeting immunosuppressive adenosine in cancer. Vijayan D, Young A, Teng MWL, Smyth MJ. *Nat Rev Cancer*. 2017 Oct 23. doi: 10.1038/nrc.2017.86. [Epub ahead of print] Review. PMID: 29059149

Selective activation of anti-CD73 mechanisms in control of primary tumors and metastases. Vijayan D, Barkauskas DS, Stannard K, Sult E, Buonpane R, Takeda K, Teng MWL, Sachsenmeier K, Hay C, Smyth MJ. *Oncoimmunology*. 2017 Apr 5;6(5):e1312044. doi: 10.1080/2162402X.2017.1312044. eCollection 2017. PMID: 28638737

FATIMA EL-ASSAAD

ëÖeta 2-glycoprotein I protects mice against gram-negative septicaemia in a sexually dimorphic manner. El-Assaad F, Qi M, Gordon AK, Qi J, Dong S, Passam F, Weaver JC, Giannakopoulos B, Krilis SA. *Sci Rep*. 2017 Aug 15;7(1):8201. doi: 10.1038/s41598-017-07945-8. PMID: 28811580

GREG WOODS

The absence of TNF permits myeloid Arginase 1 expression in experimental *L. monocytogenes* infection. Li X, Lyons AB, Woods GM, Klrner H. PMID: 28545808

IAN HERMANS

Activation of Human Mucosal-Associated Invariant T Cells Induces CD40L-Dependent Maturation of Monocyte-Derived and Primary Dendritic Cells. Salio M, Gasser O, Gonzalez-Lopez C, Martens A, Veerapen N, Gileadi U, Verter JG, Napolitani G, Anderson R, Painter G, Besra GS, Hermans IF, Cerundolo V. *J Immunol*. 2017 Oct 15;199(8):2631-2638. doi: 10.4049/jimmunol.1700615. Epub 2017 Sep 6. PMID: 28877992

Augmenting Influenza-Specific T Cell Memory Generation with a Natural Killer T Cell-Dependent Glycolipid-Peptide Vaccine. Anderson RJ, Li J, Kedzierski L, Compton BJ, Hayman CM, Osmond TL, Tang CW, Farrand KJ, Koay HF, Almeida CFDSE, Holz LR, Williams GM, Brimble MA, Wang Z, Koutsakos M, Kedzierska K, Godfrey DI, Hermans IF, Turner SJ, Painter GF. *ACS Chem Biol*. 2017 Oct 27. doi: 10.1021/acscchembio.7b00845. [Epub ahead of print] PMID: 29043774

Glycolipid-peptide conjugate vaccines enhance CD8+ T cell responses

against human viral proteins. Speir M, Authier-Hall A, Brooks CR, Farrand KJ, Compton BJ, Anderson RJ, Heiser A, Osmond TL, Tang CW, Berzofsky JA, Terabe M, Painter GF, Hermans IF, Weinkove R. *Sci Rep*. 2017 Oct 27;7(1):14273. doi: 10.1038/s41598-017-14690-5. PMID: 29079845

A phase I vaccination study with dendritic cells loaded with NY-ESO-1 and ë±-galactosylceramide: induction of polyfunctional T cells in high-risk melanoma patients. Gasser O, Sharples KJ, Barrow C, Williams GM, Bauer E, Wood CE, Mester B, Dzhelali M, Caygill G, Jones J, Hayman CM, Hinder VA, Macapagal J, McCusker M, Weinkove R, Painter GF, Brimble MA, Findlay MP, Dunbar PR, Hermans IF. *Cancer Immunol Immunother*. 2017 Nov 1. doi: 10.1007/s00262-017-2085-9. [Epub ahead of print] PMID: 29094183

Blocking CTLA-4 while priming with a whole cell vaccine reshapes the oligoclonal T cell infiltrate and eradicates tumors in an orthotopic glioma model. Cameron S, Field, Martin K, Hunn, Peter M, Ferguson, Christiane Ruedl, Lindsay R. Ancelet & Ian F. Hermans. *Oncoimmunology* e1376154 <http://dx.doi.org/10.1080/2162402X.2017.1376154>

ILENIA PAPA

TFH-derived dopamine accelerates productive synapses in germinal centres. Papa I, Saliba D, Ponzoni M, Bustamante S, Canete PF, Gonzalez-Figueroa P, McNamara HA, Valvo S, Grimbaldeston M, Sweet RA, Vohra H, Cockburn IA, Meyer-Hermann M, Dustin ML, Doglioni C, Vinuesa CG. *Nature*. 2017 Jul 20;547(7663):318-323. doi:10.1038/nature23013. Epub 2017 Jul 12. PMID: 28700579

JAMES HARRIS

Mitophagy and the release of inflammatory cytokines. Harris J, Deen N, Zamani S, Hasnat MA. *Mitochondrion*. 2017 Oct 26. pii: S1567-7249(17)30183-6. doi: 10.1016/j.mito.2017.10.009. [Epub ahead of print] Review. PMID: 29107116

Autophagy and inflammasomes. Harris J, Lang T, Thomas JPW, Sukkar MB, Nabar NR, Kehrl JH. *Mol Immunol*. 2017 Jun;86:10-15. doi: 10.1016/j.molimm.2017.02.013. Epub 2017 Feb 27. Review. PMID: 28249679

JESSICA G BORGER

Long-term imaging of cellular forces with high precision by elastic resonator interference stress microscopy. Kronenberg NM, Liehm P, Steude A, Knipper JA, Borger JG, Scarcelli G, Franze K, Powis SJ, Gather MC. *Nat Cell Biol*. 2017 Jul;19(7):864-872. doi: 10.1038/ncb3561. PMID: 28628084

Caveolin-1 Influences LFA-1 Redistribution upon TCR Stimulation in CD8 T Cells. Borger JG, Morrison VL, Filby A, Garcia C, Uotila LM, Simbari F, Fagerholm SC, Zamoyska R. *J Immunol*. 2017 Aug 1;199(3):874-884. doi: 10.4049/jimmunol.1700431. PMID: 28637901

Type I interferon is required for T helper (Th) 2 induction by dendritic cells. Webb LM, Lundie RJ, Borger JG, Brown SL, Connor LM, Cartwright AN, Dougall AM, Wilbers RH, Cook PC, Jackson-Jones LH, Phythian-Adams AT, Johansson C, Davis DM, Dewals BG, Ronchese F, MacDonald AS. *EMBO J*. 2017 Aug 15;36(16):2404-2418. doi: 10.15252/embj.201695345. PMID: 28716804

John Upham
Gibson PG, Yang IA, Upham JW, Reynolds PN, Hodge S, James AL, Jenkins C, Peters MJ, Marks GB, Baraket M, Powell H, Taylor SL, Leong LEX, Rogers GB, Simpson JL. Effect of azithromycin on asthma exacerbations and quality of life in adults with persistent uncontrolled asthma (AMAZES): a randomised, double-blind, placebo-controlled trial. *Lancet*. 2017 Aug 12;390(10095):659-668. doi: 10.1016/S0140-6736(17)31281-3. Epub 2017 Jul 4. PubMed PMID: 28687413.

Werder RB, Zhang V, Lynch JP, Snape N, Upham JW, Spann K, Phipps S. Chronic IL-33 expression predisposes to virus-induced asthma exacerbations by increasing type 2 inflammation and dampening antiviral immunity. *J Allergy Clin Immunol*. 2017 Sep 22. pii: S0091-6749(17)31500-2. doi: 10.1016/j.jaci.2017.07.051. [Epub ahead of print] PubMed PMID: 28947081.

Hukins C, Wong M, Murphy M, Upham J. Management of hypoxaemic respiratory failure in a Respiratory High-dependency Unit. *Intern Med J*. 2017 Jul;47(7):784-792. doi: 10.1111/imj.13403. PubMed PMID: 28224729.

JOVANKA KING

Newborn Screening for Primary Immunodeficiency Diseases: History, Current and Future Practice. King JR, Hammarström L. *J Clin Immunol*. 2017 Nov 8. doi: 10.1007/s10875-017-0455-x. [Epub ahead of print] PMID: 29116556

Newborn Screening for Primary Immunodeficiency Diseases: The Past, the Present and the Future Jovanka King, Jonas F. Ludvigsson and Lennart Hammarström *International Journal of Neonatal Screening* 2017, 3(3), 19; doi:10.3390/ijns3030019

KIM GOOD-JACOBSON

Preparing for re-entry: is sequential switching the result of recurrent secondary responses? Good-Jacobson KL. *Immunol Cell Biol*. 2017 Oct;95(9):741-743. doi: 10.1038/icb.2017.66. Epub 2017 Sep 26. No abstract available. PMID: 28948982

KRISTEN RADFORD

Human Blood CD1c+ Dendritic Cells Promote Th1 and Th17 Effector Function in Memory CD4+ T Cells. Leal Rojas IM, Mok WH, Pearson FE, Minoda Y, Kenna TJ, Barnard RT, Radford KJ. *Front Immunol*. 2017 Aug 17;8:971. doi: 10.3389/fimmu.2017.00971. eCollection 2017. PMID:28878767

MATTHEW SWEET

Development of SH2 probes and pull-down assays to detect pathogen-induced, site-specific tyrosine phosphorylation of the TLR adaptor SCIMP. Luo L, Tong SJ, Wall AA, Khromykh T, Sweet MJ, Stow JL. *Immunol Cell Biol*. 2017 Jul;95(6):564-570. doi: 10.1038/icb.2017.10. Epub 2017 Mar 14. PMID: 28290451

In life there is death: How epithelial tissue barriers are preserved despite the challenge of apoptosis. Duszyc K, Gomez GA, Schroder K, Sweet MJ, Yap AS. *Tissue Barriers*. 2017 Jun 28:e1345353. doi: 10.1080/21688370.2017.1345353. [Epub ahead of print] PMID: 28686526

Group A streptococcal pharyngitis: immune responses involved in bacterial clearance and GAS-associated immunopathologies. Soderholm AT, Barnett TC, Sweet MJ, Walker MJ. *J Leukoc Biol*. 2017 Sep 26. pii: jlb.4MR0617-227RR. doi: 10.1189/jlb.4MR0617-227RR. [Epub

ahead of print] Review. PMID: 28951419

NAJLA NASR

Mechanism of Interferon-Stimulated Gene Induction in HIV-1-Infected Macrophages. Nasr N, Alshehri AA, Wright TK, Shahid M, Heiner BM, Harman AN, Botting RA, Helbig KJ, Beard MR, Suzuki K, Kelleher AD, Hertzog P, Cunningham AL. *J Virol*. 2017 Sep 27;91(20). pii: e00744-17. doi: 10.1128/JVI.00744-17. Print 2017 Oct 15. PMID: 28768867

NATALIE STEVENS

Therapeutic targeting of HMGB1 during experimental sepsis modulates the inflammatory cytokine profile to one associated with improved clinical outcomes Natalie E. Stevens, Marianne J. Chapman, Cara K. Fraser, Tim R. Kuchel, John D. Hayball, and Kerrilyn R. Diener *Sci Rep*. 2017; 7: 5850. doi: 10.1038/s41598-017-06205-z

PATRICIA RUBIO REYES

Immunological properties and protective efficacy of a single mycobacterial antigen displayed on polyhydroxybutyrate beads Rubio-Reyes P, Parlane NA, Buddle BM, Wedlock DN, Rehm BHA. *Microb Biotechnol*. 2017 Nov;10(6):1434-1440. doi: 10.1111/1751-7915.12754. Epub 2017 Jul 17. PMID: 28714174

PRUE HART

PGE2 pulsing of murine bone marrow cells reduces migration of daughter monocytes/macrophages in vitro and in vivo. McGonigle TA, Dwyer AR, Greenland EL, Scott NM, Keane KN, Newsholme P, Goodridge HS, Zon LI, Pixley FJ, Hart PH. *Exp Hematol*. 2017 Aug 16. pii: S0301-472X(17)30717-8. doi: 10.1016/j.exphem.2017.08.002. [Epub ahead of print] PMID: 28822771

Vitamin D supplementation of initially vitamin D-deficient mice diminishes lung inflammation with limited effects on pulmonary epithelial integrity. Gorman S, Buckley AG, Ling KM, Berry LJ, Fear VS, Stick SM, Larcombe AN, Kicic A, Hart PH. *Physiol Rep*. 2017 Aug;5(15). pii: e13371. doi: 10.14814/phy2.13371. PMID: 28774952

UV Irradiation of Skin Enhances Glycolytic Flux and Reduces Migration Capabilities in Bone Marrow-Differentiated Dendritic Cells. McGonigle TA, Keane KN, Ghaly S,

Carter KW, Anderson D, Scott NM, Goodridge HS, Dwyer A, Greenland E, Pixley FJ, Newsholme P, Hart PH. *Am J Pathol*. 2017 Sep;187(9):2046-2059. doi: 10.1016/j.ajpath.2017.06.003. Epub 2017 Jul 11. PMID: 28708972

Tracking of vitamin D status from childhood to early adulthood and its association with peak bone mass. Zhu K, Oddy WH, Holt P, Ping-Delfos WCS, Mountain J, Lye S, Pennell C, Hart PH, Walsh JP. *Am J Clin Nutr*. 2017 Jul;106(1):276-283. doi: 10.3945/ajcn.116.150524. Epub 2017 Jun 7. PMID: 28592609

The bioenergetics of inflammation: insights into obesity and type 2 diabetes. Keane KN, Calton EK, Carlessi R, Hart PH, Newsholme P. *Eur J Clin Nutr*. 2017 Jul;71(7):904-912. doi: 10.1038/ejcn.2017.45. Epub 2017 Apr 12. Review. PMID: 28402325

RACHEL J LUNDIE

SIDT2 Transports Extracellular dsRNA into the Cytoplasm for Innate Immune Recognition. Nguyen TA, Smith BRC, Tate MD, Belz GT, Barrios MH, Elgass KD, Weisman AS, Baker PJ, Preston SP, Whitehead L, Garnham A, Lundie RJ, Smyth GK, Pellegrini M, O'Keeffe M, Wicks IP, Masters SL, Hunter CP, Pang KC. *Immunity*. 2017 Sep 19;47(3):498-509.e6. doi: 10.1016/j.immuni.2017.08.007. Epub 2017 Sep 12. PMID: 28916264

Type I interferon is required for T helper (Th) 2 induction by dendritic cells. Webb LM, Lundie RJ, Borger JG, Brown SL, Connor LM, Cartwright AN, Dougall AM, Wilbers RH, Cook PC, Jackson-Jones LH, Phythian-Adams AT, Johansson C, Davis DM, Dewals BG, Ronchese F, MacDonald AS. *EMBO J*. 2017 Aug 15;36(16):2404-2418. doi: 10.15252/embj.201695345. Epub 2017 Jul 17. PMID: 28716804

REBECCA COLL

The intracellular chloride channel proteins CLIC1 and CLIC4 induce IL-1 β transcription and activate the NLRP3 inflammasome. Domingo-Fernández R, Coll RC, Kearney J, Breit S, O'Neill LAJ. *J Biol Chem*. 2017 Jul 21;292(29):12077-12087. doi: 10.1074/jbc.M117.797126. Epub 2017 Jun 2. PMID: 28576828

Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. Hill JR, Coll

RC, Sue N, Reid JC, Dou J, Holley CL, Pelington R, Dickinson JB, Biden TJ, Schroder K, Cooper MA, Robertson AAB. *ChemMedChem*. 2017 Sep 7;12(17):1449-1457. doi: 10.1002/cmdc.201700270. Epub 2017 Aug 4. PMID: 28703484

Solution structure of the TLR adaptor MAL/TIRAP reveals an intact BB loop and supports MAL Cys91 glutathionylation for signaling. Hughes MM, Lavrencic P, Coll RC, Ve T, Ryan DG, Williams NC, Menon D, Mansell A, Board PG, Mobli M, Kobe B, O'Neill LAJ. *Proc Natl Acad Sci U S A*. 2017 Aug 8;114(32):E6480-E6489. doi: 10.1073/pnas.1701868114. Epub 2017 Jul 24. PMID: 28739909

RHEA LONGLEY

Naturally acquired antibody responses to more than 300 *Plasmodium vivax* proteins in three geographic regions. Longley RJ, White MT, Takashima E, Morita M, Kanoi BN, Li Wai Suen CSN, Betuela I, Kuehn A, Sriporote P, Franca CT, Siba P, Robinson LJ, Lacerda M, Sattabongkot J, Tsuboi T, Mueller I. *PLoS Negl Trop Dis*. 2017 Sep 11;11(9):e0005888. doi: 10.1371/journal.pntd.0005888. eCollection 2017 Sep. PMID: 28892517

Adjuvanting a viral vectored vaccine against pre-erythrocytic malaria. Milicic A, S Rollier C, Tang CK, Longley R, Hill AVS, Reyes-Sandoval A. *Sci Rep*. 2017 Aug 4;7(1):7284. doi: 10.1038/s41598-017-07246-0. PMID: 28779101

RHIANNON WERDER

Chronic IL-33 expression predisposes to virus-induced asthma exacerbations by increasing type 2 inflammation and dampening antiviral immunity. Werder RB, Zhang V, Lynch JP, Snape N, Upham JW, Spann K, Phipps S. *J Allergy Clin Immunol*. 2017 Sep 22. pii: S0091-6749(17)31500-2. doi: 10.1016/j.jaci.2017.07.051. [Epub ahead of print] PubMed PMID: 28947081.

RICHARD KITCHING

Chyluria: When is proteinuria 'not proteinuria'? Teo S, LePage A, Kitching AR, Johnstone L. *J Paediatr Child Health*. 2017 Oct;53(10):1015-1017. doi: 10.1111/jpc.13655. Epub 2017 Aug 9. PMID: 28791743

ANCA-Associated Vasculitis: Pathogenesis, Models, and Preclinical Testing. Hutton HL, Holdsworth SR,

Kitching AR. *Semin Nephrol*. 2017 Sep;37(5):418-435. doi: 10.1016/j.semnephrol.2017.05.01 PMID: 28863790

Pathogenic Role for α T Cells in Autoimmune Anti-Myeloperoxidase Glomerulonephritis. Gan PY, Fujita T, Ooi JD, Alikhan MA, Dick J, Shim R, Odobasic D, O'Sullivan KM, Kitching AR, Holdsworth SR. *J Immunol*. 2017 Nov 1;199(9):3042-3050. doi: 10.4049/jimmunol.1602025. Epub 2017 Sep 27. PMID: 28954887

ROLAND RUSCHER

CD8 $\alpha\beta$ intraepithelial lymphocytes arise from two main thymic precursors. Ruscher R, Kummer RL, Lee YJ, Jameson SC, Hogquist KA. *Nat Immunol*. 2017 Jul;18(7):771-779. doi: 10.1038/ni.3751. Epub 2017 May 22. PMID: 28530714

SEVERINE NAVARRO

Suppression of inflammation and tissue damage by a hookworm recombinant protein in experimental colitis Ivana B Ferreira1, Darren A Pickering1, Sally Troy1, John Croese1,2, Alex Loukas1 and Severine Navarro1 *Clin Transl Immunology*. 2017 Oct 6;6(10):e157. doi: 10.1038/cti.2017.42. eCollection 2017 Oct. PMID: 29114386

SIMON C BARRY

Challenges and opportunities in the manufacture and expansion of cells for therapy. Maartens JH, De-Juan-Pardo E, Wunner FM, Simula A, Voelcker NH, Barry SC, Huttmacher DW. *Expert Opin Biol Ther*. 2017 Oct;17(10):1221-1233. doi: 10.1080/14712598.2017.1360273. Epub 2017 Aug 18. PMID: 28777667

Single Cell Level Quantification of Nanoparticle-Cell Interactions Using Mass Cytometry. Ivask A, Mitchell AJ, Hope CM, Barry SC, Lombi E, Voelcker NH. *Anal Chem*. 2017 Aug 15;89(16):8228-8232. doi: 10.1021/acs.analchem.7b01006. Epub 2017 Jul 24. PMID: 28691496

3D printed lattices as an activation and expansion platform for T cell therapy. Delalat B, Harding F, Gundsambuu B, De-Juan-Pardo EM, Wunner FM, Wille ML, Jasieniak M, Malatesta KAL, Griesser HJ, Simula A, Huttmacher DW, Voelcker NH, Barry SC. *Biomaterials*. 2017 Sep;140:58-68. doi: 10.1016/j.biomaterials.2017.05.009. Epub 2017 Jun 7. PMID: 28628776

MicroRNA regulation of immune events at conception. Robertson SA, Zhang B, Chan H, Sharkey DJ, Barry SC, Fullston T, Schjenken JE. *Mol Reprod Dev*. 2017 Sep;84(9):914-925. doi: 10.1002/mrd.22823. Epub 2017 Jun 8. Review. PMID: 28452160

Ectodermal-Neural Cortex 1 Isoforms Have Contrasting Effects on MC3T3-E1 Osteoblast Mineralization and Gene Expression. Worton LE, Shi YC, Smith EJ, Barry SC, Gonda TJ, Whitehead JP, Gardiner EM. *J Cell Biochem*. 2017 Aug;118(8):2141-2150. doi: 10.1002/jcb.25851. Epub 2017 Apr 18. PMID: 27996212

STACEY WALTERS

Inhibition of Y1 receptor signaling improves islet transplant outcome. Loh K, Shi YC, Walters S, Bensellam M, Lee K, Dezaki K, Nakata M, Ip CK, Chan JY, Gurzov EN, Thomas HE, Waibel M, Cantley J, Kay TW, Yada T, Laybutt DR, Grey ST, Herzog H. *Nat Commun*. 2017 Sep 8;8(1):490. doi: 10.1038/s41467-017-00624-2. PMID: 28887564

TARA ROBERTS

Clinical outcomes in patients with advanced EGFR-mutated non-small cell lung cancer in South Western Sydney Local Health District. Ding PN, Roberts TL, Chua W, Becker TM, Descallar J, Yip PY, Bray VJ. *Intern Med J*. 2017 Jul 25. doi: 10.1111/imj.13555. [Epub ahead of print] PMID: 28742280

TONY KENNA

Genetic variants in ERAP1 and ERAP2 associated with immune-mediated diseases influence protein expression and isoform profile. Hanson AL, Cuddihy T, Haynes K, Loo D, Morton CJ, Oppermann U, Leo P, Thomas GP, Li Cao KA, Brown MA, Kenna TJ. *Arthritis Rheumatol*. 2017 Nov 6. doi: 10.1002/art.40369. [Epub ahead of print] PMID: 29108111

Human Blood CD1c+ Dendritic Cells Promote Th1 and Th17 Effector Function in Memory CD4+ T Cells. Leal Rojas IM, Mok WH, Pearson FE, Minoda Y, Kenna TJ, Barnard RT, Radford KJ. *Front Immunol*. 2017 Aug 17;8:971. doi: 10.3389/fimmu.2017.00971. eCollection 2017. PMID: 28878767

FANTOM5 CAGE profiles of human and mouse samples. Noguchi S,

Arakawa T, Fukuda S, Furuno M, Hasegawa A, Hori F, Ishikawa-Kato S, Kaida K, Kaiho A, Kanamori-Katayama M, Kawashima T, Kojima M, Kubosaki A, Manabe RI, Murata M, Nagao-Sato S, Nakazato K, Ninomiya N, Nishiyori-Sueki H, Noma S, Saijyo E, Saka A, Sakai M, Simon C, Suzuki N, Tagami M, Watanabe S, Yoshida S, Arner P, Axton RA, Babina M, Baillie JK, Barnett TC, Beckhouse AG, Blumenthal A, Bodega B, Bonetti A, Briggs J, Brombacher F, Carlisle AJ, Clevers HC, Davis CA, Detmar M, Dohi T, Edge ASB, Edinger M, Ehrlund A, Ekwall K, Endoh M, Enomoto H, Eslami A, Fagiolini M, Fairbairn L, Farach-Carson MC, Faulkner GJ, Ferrai C, Fisher ME, Forrester LM, Fujita R, Furusawa JI, Geijtenbeek TB, Gingeras T, Goldowitz D, Guhl S, Guler R, Gustincich S, Ha TJ, Hamaguchi M, Hara M, Hasegawa Y, Herlyn M, Heutink P, Hitchens KJ, Hume DA, Ikawa T, Ishizu Y, Kai C, Kawamoto H, Kawamura YI, Kempfle JS, Kenna TJ, Kere J, Khachigian LM, Kitamura T, Klein S, Klinken SP, Knox AJ, Kojima S, Koseki H, Koyasu S, Lee W, Lennartsson A, Mackay-Sim A, Meijert N, Mizuno Y, Morikawa H, Morimoto M, Moro K, Morris KJ, Motohashi H, Mummery CL, Nakachi Y, Nakahara F, Nakamura T, Nakamura Y, Nozaki T, Ogishima S, Ohkura N, Ohno H, Ohshima M, Okada-Hatakeyama M, Okazaki Y, Orlando V, Ovchinnikov DA, Passier R, Patrikakis M, Pombo A, Pradhan-Bhatt S, Qin XY, Rehli M, Rizzu P, Roy S, Sajantila A, Sakaguchi S, Sato H, Satoh H, Savvi S, Saxena A, Schmidl C, Schneider C, Schulze-Tanzil GG, Schwegmann A, Sheng G, Shin JW, Sugiyama D, Sugiyama T, Summers KM, Takahashi N, Takai J, Tanaka H, Tatsukawa H, Tomoiu A, Toyoda H, van de Wetering M, van den Berg LM, Verardo R, Vijayan D, Wells CA, Winteringham LN, Wolvetang E, Yamaguchi Y, Yamamoto M, Yanagi-Mizuochi C, Yoneda M, Yonekura Y, Zhang PG, Zucchelli S, Abugessaisa I, Arner E, Harshbarger J, Kondo A, Lassmann T, Lizio M, Sahin S, Sengstag T, Severin J, Shimoji H, Suzuki M, Suzuki H, Kawai J, Kondo N, Itoh M, Daub CO, Kasukawa T, Kawaji H, Carninci P, Forrest ARR, Hayashizaki Y. *Sci Data*. 2017 Aug 29;4:170112. doi: 10.1038/sdata.2017.112. PMID: 28850106

Transcriptome analysis of ankylosing spondylitis patients before and after TNF- α inhibitor therapy reveals the pathways affected. Wang XB, Ellis JJ,

Pennisi DJ, Song X, Batra J, Hollis K, Bradbury LA, Li Z, Kenna TJ, Brown MA. *Genes Immun*. 2017 Sep;18(3):184-190. doi: 10.1038/gene.2017.19. Epub 2017 Aug 24. PMID: 28835680

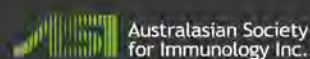
Severe viral respiratory infections in children with IFIH1 loss-of-function mutations. Asgari S, Schlapbach LJ, Anchisi S, Hammer C, Bartha I, Junier T, Mottet-Osman G, Posfay-Barbe KM, Longchamp D, Stocker M, Cordey S, Kaiser L, Riedel T, Kenna T, Long D, Schibler A, Telenti A, Tapparel C, McLaren PJ, Garcin D, Fellay J. *Proc Natl Acad Sci U S A*. 2017 Aug 1;114(31):8342-8347. doi: 10.1073/pnas.1704259114. Epub 2017 Jul 17. PMID: 28716935

TRACY HENG

Thymospheres Are Formed by Mesenchymal Cells with the Potential to Generate Adipocytes, but Not Epithelial Cells. Sheridan JM, Keown A, Policheni A, Roesley SNA, Rivlin N, Kadouri N, Ritchie ME, Jain R, Abramson J, Heng TSP, Gray DHD. *Cell Rep*. 2017 Oct 24;21(4):934-942. doi: 10.1016/j.celrep.2017.09.090. PMID: 29069601

YULONG GAO

Tumor immunoevasion by the conversion of effector NK cells into type 1 innate lymphoid cells



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