

# Life Sciences Newsletter

Imperial College London

Christmas 2016

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## TALKS

**Jake Baum** was invited to speak at the *Molecular Basis of Disease* symposium (2016). Weizmann Institute of Science, Rehovot, Israel. Title: “*Light, Camera, Action! Using the microscope to dissect malaria parasite biology from whole cells down to single molecules*”.

**Anne Dell** delivered the 2016 Karl Meyer Award lecture at the Society for Glycobiology's annual meeting in New Orleans on 19th November.

## PUBLICATIONS

Johnson, S., R. Rahmani, D. R. Drew, M. J. Williams, **M. WILKINSON**, Y. H. Tan, J. X. Huang, C. J. Tonkin, J. G. Beeson, **J. BAUM**, B. J. Smith, and J. B. Baell. 2016. Truncated Latrunculins as Actin Inhibitors Targeting Plasmodium falciparum Motility and Host-Cell Invasion. *J. Med Chem. In press*. November 2016.

Bargieri, D. Y., S. Thiberge\*, **C. TAY\***, A. F. Carey, A. Rantz, F. Hischen, A. Lorthois, U. Straschil, P. Singh, S. Singh, T. Triglia, T. Tsuboi, A. F. Cowman, C. Chitnis, P. Alano, **J. BAUM**, G. Pradel, C. Lavazec, and R. Ménard. 2016. The motor-binding protein MTRAP is essential for vacuole membrane disruption and host cell egress by malaria gametes. *Cell Host Microbe*. 20: 618–630.

Brödel, A.K., Jaramillo, A. & **Isalan M.** Directed evolution of orthogonal dual transcription factors for synthetic logic gates. *Nature Communications* 7, 13858 (2016).

**Valentini M**, Laventie BJ, Moscoso J, Jenal U, **Filloux A.** [The Diguanilate Cyclase HsbD Intersects with the HptB Regulatory Cascade to Control Pseudomonas aeruginosa Biofilm and Motility.](#) PLoS Genet. 2016 Oct 28;12(10):e1006354. doi: 10.1371/journal.pgen.1006354.

**Boyd, C. M.**, Parsons, E. S., Smith, R. A. G., Seddon, J. M., Ces, O., **Bubeck, D.** (2016) Disentangling the roles of cholesterol and CD59 in intermedilysin pore formation. *Scientific Reports*, srep38446

“Probability of transmission of malaria from mosquito to human is regulated by mosquito parasite density”. Thomas S. Churcher, Robert E. Sinden, Nick J. Edwards, Ian Poulton, Thomas W. Rampling, Patrick M. Brock, Jamie T. Griffin, **Leanna M. Upton**, **Sara E. Zakutansky**, **Katarzyna A. Sala**, **Fiona, Angrisano**, Adrian V.S. Hill, **Andrew M. Blagborough.** *PLoS Pathogens*.

“Target identification and elucidation of the complete life cycle fingerprint of the novel Plasmodium PI4K inhibitor MMV390048”. Tanya Paquet, Claire Le Manach, Diego González Cabrera, Yassir Youni, Philipp P. Henrich, Tara S. Abraham, Marcus C.S. Lee, Rajshekhar Basak, Sonja Ghidelli-Disse, María

### USEFUL INFORMATION:

- ▶ [College's EU referendum webpage](#)
- ▶ [Working at Imperial](#)
- ▶ [Organisational and Staff Development](#)
- ▶ [Equality, Diversity and Inclusion Centre](#)
- ▶ [Occupational Health Service](#)
- ▶ [Postdoc Development Centre](#)

José Lafuente-Monasterio, Marcus Bantscheff, **Andrea Ruecker**, **Andrew M. Blagborough**, **Sara E. Zakutansky**, Anne-Marie Zeeman, Karen L. White, David M. Shackelford, Janne Mannila, Julia Morizzi, Christian Scheurer, Iñigo Angulo-Barturen, María Santos Martínez, Santiago Ferrer, Laura María Sanz, Francisco Javier Gamo, Janette Reader, Mariette Botha, Koen J. Dechering, Robert W. Sauerwein, Anchalee Tungtaeng, Pattaraporn Vanachayangkul, Chek Shik Lim, Jeremy Burrows, Michael J. Witty, Kennan C. Marsh, Christophe Bodenreider, Rosemary Rochford, Suresh M. Solapure, María Belén Jiménez-Díaz, Sergio Wittlin, Susan A. Charman, Cristina Donini, Brice Campo, Lyn-Marie Birkholtz, Kirsten K. Hanson, Gerard Drewes, Clemens H.M. Kocken, **Michael J. Delves**, Didier Leroy, David A. Fidock, David Waterson, Leslie J. Street, Kelly Chibale. *Science Translational Medicine*

R.E.Sinden, Sumi Biswas, **A. M. Blagborough**. Antimalarial Transmission-blocking Vaccines. Malaria. Springer Publishing, 2016. (Book chapter).

Marques J, Valle-Delgado JJ, Urbán P, Baró E, Prohens R, Mayor A, Cisteró P, **Delves M**, Sinden RE, Grandfils C, de Paz JL, García-Salcedo JA, Fernández-Busquets X. **Adaptation of targeted nanocarriers to changing requirements in antimalarial drug delivery**. *Nanomedicine*. 2016 Oct 5. pii: S1549-9634(16)30162-9.

Le Bihan A, de Kanter R, Angulo-Barturen I, Binkert C, Boss C, Brun R, Brunner R, Buchmann S, Burrows J, Dechering KJ, **Delves M**, Ewerling S, Ferrer S, Fischli C, Gamo-Benito FJ, Gnädig NF, Heidmann B, Jiménez-Díaz MB, Leroy D, Martínez MS, Meyer S, Moehrle JJ, Ng CL, Noviyanti R, Ruecker A, Sanz LM, Sauerwein RW, Scheurer C, Schleiferboeck S, Sinden R, Snyder C, Straimer J, Wirjanata G, Marfurt J, Price RN, Weller T, Fischli W, Fidock DA, Clozel M, Wittlin S. **Characterization of Novel Antimalarial Compound ACT-451840: Preclinical Assessment of Activity and Dose-Efficacy Modeling**. *PLoS Med*. 2016 Oct 4;13(10):e1002138.

## PRIZES AND AWARDS

**Ciarán Kelly** (PDRA in John Heap's group) won a poster prize at the Synthetic Biology UK 2016 meeting in November for his poster "Synthetic Chemical Inducers and Genetic Decoupling Enable Orthogonal Control of the rhaBAD Promoter".

**Victoria Burton** (PhD Student) has been awarded a British Ecological Society (BES) Student/ECR Public Engagement Award

## POSTDOC NEWS

DoLS Travel Awards scheme is now open for submissions – deadline 9 Jan 2017. Further details on the [website](#).

**SAVE THE DATE** for DoLS Postdoc Symposium is taking place on the Thursday 30th March 2017! Further details to follow from the Postdoc Committee – stay tuned!

## MEDIA/OUTREACH ACTIVITIES/EVENTS BEING HOSTED/IMPACT

The protein structure prediction web-server portal, Phyre2, developed by **Lawrence Kelley** and **Stefans Mezulis** in **Mike Sternberg's group** in Life Sciences has been included as a resource within the Elixir bioinformatics network. Elixir is a pan-European organisation which coordinates, integrates and sustains major bioinformatics resources across its member states.

**Andrea Crisanti and his lab** represent Imperial in the 24-partner consortium INFRAVEC2 that was recently awarded ~10m EUR by the European Commission under the H2020 Research Infrastructure

Programme. INFRAVEC2 (full project title: Research capacity for the implementation of genetic control of mosquitoes 2) is an “Advanced Community” coordinated by the Pasteur Institute to follow up the success of the four-year Starting Community of 32 partners (INFRAVEC1) funded under FP7 and led by Professor Crisanti from 2009 to 2014. The overall objective of the INFRAVEC2 project is to integrate key specialized research facilities necessary for European excellence in insect vector biology, open them for access, and develop new vector control measures targeting the greatest threats to human health and animal industries. The consortium resources will be opened and publicized to European researchers, with the view to consolidate a durable European infrastructure to control insect vector-borne disease, including with power to predict and prevent the inevitable next epidemic outbreak in advance European global leadership in insect vector biology.

### **Christmas 2016/New Year 2017 Closure days**

College closes at your usual finishing time on Friday 23 December 2016  
and re-opens on Tuesday 3 January 2017

**Wishing you all a Happy Holiday and a Fantastic 2017!**

