Subscribing organizations are encouraged to copy and distribute this table of contents for non-commercial purposes.

Chimeric Antigen Receptor Therapy in Haematology and Oncology: Current Successes and Challenges

Held at Charles Darwin House, London, U.K., 19–20 October 2015 Commercialization of cellular immunotherapies for cancer **Anthony Walker and Robert Johnson** 329-332 Role of the colony-stimulating factor (CSF)/CSF-1 receptor axis in cancer Daniela Achkova and John Maher 333-341 Antigen-specificity using chimeric antigen receptors: the future of regulatory T-cell therapy? Dominic Boardman, John Maher, Robert Lechler, Lesley Smyth and Giovanna Lombardi 342-348 The integrin $\alpha \vee \beta 6$: a novel target for CAR T-cell immunotherapy? Lynsey M. Whilding, Sabari Vallath and John Maher 349-355 SHP-1: the next checkpoint target for cancer immunotherapy? H. Angharad Watson, Sophie Wehenkel, James Matthews and Ann Ager 356-362 The role of the HGF/Met axis in mesothelioma Thivyan Thayaparan, James F. Spicer and John Maher 363-370 Approaches to augment CAR T-cell therapy by targeting the apoptotic machinery Hannah Karlsson 371-376 Homing to solid cancers: a vascular checkpoint in adoptive cell therapy using CAR Ann Ager, H. Angharad Watson, Sophie C. Wehenkel and Rebar N. Mohammed 377-385 Dynamic imaging for CAR-T-cell therapy Nia Emami-Shahri and Sophie Papa 386-390 Targeting the tumour profile using broad spectrum chimaeric antigen receptor T-cells Shoba A. Navai and Nabil Ahmed 391-396 Development of chimeric antigen receptors for multiple myeloma Carolina Martínez-Cingolani and Jean Christophe Bories 397-405 Efficacy and toxicity management of CAR-T-cell immunotherapy: a matter of responsiveness control or tumour-specificity? Vanesa Alonso-Camino, Seandean Lykke Harwood, Ana Álvarez-Méndez and Luis Alvarez-Vallina 406-411 Held at Carlton Hotel, Edinburgh, U.K., 26–29 October 2015

Organelle Crosstalk in Membrane Dynamics and Cell Signalling

The role of phosphatidylinositol-transfer proteins at membrane contact sites Michael Selitrennik and Sima Lev 419-424 Phosphoinositides in membrane contact sites Camilla Raiborg, Eva M. Wenzel, Nina M. Pedersen and Harald Stenmark 425-430 Autophagic degradation of peroxisomes in mammals Zientara-Rytter Katarzyna and Subramani Suresh 431-440 ER-endosome contact sites in endosome positioning and protrusion outgrowth Camilla Raiborg, Eva M. Wenzel, Nina M. Pedersen and Harald Stenmark 441-446 The *Drosophila* photoreceptor as a model system for studying signalling at membrane contact sites Shweta Yadav, Shamshad Cockcroft and Padinjat Raghu 447-451 ER-luminal thiol/selenol-mediated regulation of Ca²⁺ signalling Christian Appenzeller-Herzog and Thomas Simmen 452-459 Novel targets and interaction partners of mutant p53 Gain-Of-Function Lydia Aschauer and Patricia A.J. Muller 460-466 Regulation of calcium and phosphoinositides at endoplasmic reticulum-membrane junctions

Xeni Miliara and Stephen Matthews

Structural comparison of yeast and human intra-mitochondrial lipid transport

New molecular mechanisms of inter-organelle lipid transport **Guillaume Drin, Joachim Moser Von Filseck and Alenka Čopič**

Touché! STARD3 and STARD3NL tether the ER to endosomes

Cell surface recycling in yeast: mechanisms and machineries

Léa P. Wilhelm, Catherine Tomasetto and Fabien Alpy

Eamonn J. Dickson, Jill B. Jensen and Bertil Hille

Chris Macdonald and Robert C. Piper

493-498

467-473

474-478

479-485

486-492

When under pressure, get closer: PERKing up membrane contact sites during ER stress	
Alexander R. van Vliet and Patrizia Agostinis	499-504
Roles for Ca ²⁺ mobilization and its regulation in mast cell functions: recent progress	
David Holowka, Marcus Wilkes, Christopher Stefan and Barbara Baird	505-509
Dynamics of the mitochondrial network during mitosis Gil Kanfer and Benoît Kornmann	510-516
Lipid transfer proteins do their thing anchored at membrane contact sites but what is their thing?	517 537
Louise H. Wong and Tim P. Levine	517-527
Vacuole membrane contact sites and domains: emerging hubs to coordinate organelle function with cellular metabolism Pedro Carpio Malia and Christian Ungermann	528-533
Supramolecular architecture of endoplasmic reticulum – plasma membrane	
contact sites Rubén Fernández-Busnadiego	534-540
Mitophagy as a stress response in mammalian cells and in respiring <i>S. cerevisiae</i>	
Hagai Abeliovich and Jörn Dengjel	541-545
21. 14. 14. 14. 14. 14. 14. 14.	
Ca ²⁺ dialogue between acidic vesicles and ER Anthony J. Morgan	546-553
GPCRs: Beyond Structure Towards Therapy	546-553
Anthony J. Morgan	546-553
GPCRs: Beyond Structure Towards Therapy	546-553
GPCRs: Beyond Structure Towards Therapy Held at Monash University, Prato Centre, Prato, Italy, 16–18 September 2015 From biased signalling to polypharmacology: unlocking unique intracellular	546-553
GPCRs: Beyond Structure Towards Therapy Held at Monash University, Prato Centre, Prato, Italy, 16–18 September 2015 From biased signalling to polypharmacology: unlocking unique intracellular signalling using pepducins	
GPCRs: Beyond Structure Towards Therapy Held at Monash University, Prato Centre, Prato, Italy, 16–18 September 2015 From biased signalling to polypharmacology: unlocking unique intracellular signalling using pepducins Richard Carr, Iii and Jeffrey L. Benovic Compartmentalization of GPCR signalling controls unique cellular responses Andrew M. Ellisdon and Michelle L. Halls Receptor activity-modifying proteins; multifunctional G protein-coupled receptor	555-561
GPCRs: Beyond Structure Towards Therapy Held at Monash University, Prato Centre, Prato, Italy, 16–18 September 2015 From biased signalling to polypharmacology: unlocking unique intracellular signalling using pepducins Richard Carr, Iii and Jeffrey L. Benovic Compartmentalization of GPCR signalling controls unique cellular responses Andrew M. Ellisdon and Michelle L. Halls	555-561
GPCRs: Beyond Structure Towards Therapy Held at Monash University, Prato Centre, Prato, Italy, 16–18 September 2015 From biased signalling to polypharmacology: unlocking unique intracellular signalling using pepducins Richard Carr, Iii and Jeffrey L. Benovic Compartmentalization of GPCR signalling controls unique cellular responses Andrew M. Ellisdon and Michelle L. Halls Receptor activity-modifying proteins; multifunctional G protein-coupled receptor accessory proteins Debbie L. Hay, Christopher S. Walker, Joseph J. Gingell, Graham Ladds, Christopher A.	555-561 562-567

Current trends in oxysterol research Villiam J. Griffiths, Jonas Abdel-Khalik, Thomas Hearn, Eylan Yutuc, Alwena H. Morgan and	
netabolism Ruth Andrew and Natalie Z.M. Homer	645-651
Nass spectrometry and its evolving role in assessing tissue specific steroid	
Blood triacylglycerols: a lipidomic window on diet and disease rancis Sanders, Ben McNally and Julian L. Griffin	638-644
When cholesterol meets histamine, it gives rise to dendrogenin A: a tumour uppressor metabolite Marc Poirot and Sandrine Silvente-Poirot	631-637
Held at Swansea University, Swansea, U.K., 2–4 September 2015	
5th European Lipidomic Meeting	
he use of fluorescence correlation spectroscopy to characterize the molecular nobility of fluorescently labelled G protein-coupled receptors aura E. Kilpatrick and Stephen J. Hill	624-629
GPCR–styrene maleic acid lipid particles (GPCR–SMALPs): their nature and potential Mark Wheatley, Jack Charlton, Mohammed Jamshad, Sarah J. Routledge, Sian Bailey, Penelope J. La-Borde, Maria T. Azam, Richard T. Logan, Roslyn M. Bill, Tim R. Dafforn and David R. Poyner	619-623
rancesca Fanelli, Angelo Felline, Francesco Raimondi and Michele Seeber	613-618
Margaret Cunningham, Kathryn McIntosh, Trevor Bushell, Graeme Sloan and Robin Plevin Structure network analysis to gain insights into GPCR function	606-612
Proteinase-activated receptors (PARs) as targets for antiplatelet therapy	
Oopamine D_4 receptor ubiquitination (amila Skieterska, Pieter Rondou and Kathleen Van Craenenbroeck	601-605
evidence for the heterotetrameric structure of the adenosine A _{2A} –dopamine D ₂ eceptor complex Verònica Casadó-Anguera, Jordi Bonaventura, Estefanía Moreno, Gemma Navarro, Antoni Vortés, Sergi Ferré and Vicent Casadó	595-600
alentina Puca, Vincenzo Flati and Marco Scarselli	589-594
rariants of G protein-coupled receptors: a reappraisal of their role in receptor egulation Roberto Maggio, Irene Fasciani, Mario Rossi, Jacopo Di Gregorio, Ilaria Pietrantoni,	
Denise Wootten	582-588

The Thudichum Medal Lecture presented by Professor John Hardy

Held at Royal Society of Edinburgh, Edinburgh, U.K., 9 October 2015

Catastrophic cliffs: a partial suggestion for selective vulnerability in neurodegenerative diseases

John Hardy 659–661

Correction

Correction: Learning from each other: ABC transporter regulation by protein phosphorylation in plant and mammalian systems **Bibek Aryal, Christophe Laurent and Markus Geisler**

663-673