Programme

16th Meeting of the European Society for Pigment Cell Research

Wellcome Trust Conference Centre, Hinxton, UK 4-7 September 2010

Oral Presentations

If you are an invited speaker, or your abstract has been selected for an oral presentation, please give an electronic version of your talk to an AV technician in the Auditorium, the morning of your talk.

Poster Presentations

Posters will be displayed throughout the conference in the Cloisters. Your abstract page number indicates your poster boards number.

Saturday 4 September 2010

10.00-12.00	ESPCR Council Meeting (Council Members Only)
	Library

12.00-18.00 Registration (with lunch from 12.00-13.50) Conference Centre Foyer

Conference Centre Foyer

12.00-13.50 Lunch

13.50, **Conference Opening** (Robert Kelsh)

Francis Crick Auditorium, Wellcome Trust Conference Centre

14.00-15.00 Fritz Anders Memorial Lecture

Development and function of retinal pigment epithelium cells Heinz Arnheiter, Mammalian Development Section, NIH, USA Introduced by Lionel Larue The ESPCR Lecture



Session 1 Development biology of pigment cells and MSCs

Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Veronique Delmas and Takahiro Kunisada

15.00-15.25	The chromatoblast concept – evidence from zebrafish genetics Robert Kelsh , University of Bath, UK
15.25-15.50	Biological and mathematical modeling of melanocyte development <i>Lionel Larue</i> , <i>Institut Curie</i> , <i>France</i>
15.50-16.15	Regulation of the zebrafish melanocyte stem cell

Stephen Johnson, Washington University Medical School, USA

16.15-16.30	Raf signalling is dispensable for early melanocyte lineage development but required for melanocyte stem cell self-maintenance Agathe Valluet , Institut Curie, France
16.30-16.45	An integrated approach to melanoblast behaviour during embryonic development Richard Mort, Medical Research Council, UK
17.00-18.00	Pre Dinner Drinks Conference Centre Foyer and Cloisters
18.00-19.00	Dinner Hall Restaurant
Session 2	Genetics of pigment cell transcription Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Vittoria Schiaffino and Eirikur Steingrímsson
19.00-19.25	Complex regulation of the MC1R underscores its central role in controlling human pigmentation and the UV response Zalfa Abdel-Malek, University of Cincinnati, USA
19.25-19.50	Regulation of Mitf by acetylation and novel insights from the crystal structure <i>Eirikur Steingrímsson</i> , <i>University of Iceland</i> , <i>Faculty of Medicine</i> , <i>Iceland</i>
19.50-20.15	Analysis of Mitf in Drosophila Francesca Pignoni, SUNY Upstate Medical University, USA
20.15-20.30	A melanoma specific function of beta-catenin Claudia Wellbrock, University of Manchester, UK
20.30-20.45	Overexpression of the <i>Strawberry Notch homolog 2</i> gene in the melanocyte lineage triggers a fate switch in melanocyte stem cells <i>Genevieve Aubin-Houzelstein, INRA, France</i>
20.45-21.00	Notch targets in melanocytes *Bhushan Sarode*, EPFL, Lausanne, Switzerland*
21.00	Bar open Hall Bar
21.30	Shuttle Service to Homerton College
Sunday 5	September 2010
07.30	Breakfast Hall Restaurant
07.30	Breakfast Homerton College

Shuttle service from Homerton College to Conference Centre

08.00

Session 3	Pigmentary Disorders Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Prasad Kumarasinghe and Lluis Montoliu
08.45-09.10	Towards a universal genetic diagnosis of all types of albinism Lluis Montoliu, Centro Nacional de Biotecnologia (CNB-CSIC), Spain
09.10-09.35	Pigmentary mosaicism: patterns and mechanisms *Rudolf Happle, Philipp University of Marburg, Germany**
09.35-10.00	Hsp70i as the sole requirement for activating depigmentation in vitiligo-prone mice Caroline Le Poole, Loyola University Chicago, USA
10.00-10.15	Long-term follow up on Scenesse® (Afamelanotide, an alpha-MSH analogue) in patients with erythropoietic protoporphyria (EPP) Elisabeth Minder, Stadtspital Triemli, Switzerland
10.15-11.00	Morning Coffee Conference Centre Foyer and Cloisters
Session 4	Melanocyte cell biology Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Graça Raposo and Miguel Seabra
11.00-11.25	The biogenesis of melanosomes: Cellular and molecular mechanisms. <i>Graça Raposo</i> , <i>Institut Curie</i> , <i>France</i>
11.25-11.50	Mechanisms of Melanosome transfer in human skin Miguel Seabra, Imperial College London, UK
11.50-12.15	Skin as a living coloring book: epithelial cell roles in the patterning of pigmentation Janice Brissette, SUNY Downstate Medical Center, USA
12.15-12.30	A new spectrophotometric method for simple quantitation of melanosomal transfer from melanocytes to keratinocytes: The trans-membrane melanosomal transfer method Behrooz Kasraee, Geneva University Hospital, Switzerland
12.30-12.45	Development of a 3D pigmented skin model to evaluate RNAi-induced pigmentation <i>Mireille van Gele, Ghent University Hospital, Belgium</i>
13.00-14.00	Lunch Hall Restaurant
13.00-14.00	Vitiligo European Task Force (members only) Pompeiian Room

Session 5

Melanoma biology and therapeutics Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Richard Marais and Kyoung Chan Park Session sponsored by Cancer Research UK



14.00-14.25	BRAF and RAS signalling in human melanoma Richard Marais, The Institute of Cancer Research, UK
14.25- 14.50	The signalling and transcription network regulating cell fate switching in melanocytes and melanoma Colin Goding, Ludwig Institute for Cancer Research, UK
14.50-15.15	β-catenin LEF/TCF co-factors are expressed according to the rhythm of melanoma progression Keith Hoek, University Hospital of Zurich, Switzerland
15.15-15.30	MITF is the key molecular switch between melanoma initiating cells and their differentiated progeny **Robert Ballotti, INSERM U895, France**
15.30-15.45	Loss of E-cadherin increases metastatic potential of melanoma Veronique Delmas, Institut Curie, France
16.00-16.30	Afternoon Tea Conference Centre Foyer and Cloisters
Session 6	Melanocytes, migration and melanoma Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Lionel Larue and Elizabeth Patton
16.30-16.55	Imaging melanoma dissemination Erik Sahai, Cancer Research UK London Research Institute, UK
16.55-17.20	MITF controls the DNA Damage Response and a lineage specific senescence program in melanomas *Corine Bertolotto*, INSERM U895, France*
17.20-17.45	A small molecule screen for enhancers of melanocyte regeneration: a novel role for the Prl-3 phosphatase Elizabeth Patton, MRC Human Genetics Unit, UK
17.45-18.00	Early onset and highly penetrant melanoma in zebrafish derives from transformation of larval melanocytes <i>Marina Mione</i> , <i>IFOM</i> , <i>Italy</i>
18.00-18.15	Functional characterization of STX17 in Gray horse melanoma <i>Anna Golovko</i> , <i>Uppsala University</i> , <i>Sweden</i>
18.30-19.30	Drinks Reception Conference Centre Foyer and Cloisters

19.30-20.30	Dinner Hall Restaurant
19.00-21.00	IFPCS Council Meeting (Council Members only) Library
21.00-23.00	IFPCS Council dinner (Council Members only) Pompeiian Room
20.30	Posters Session I & Cash Bar Conference Centre Cloisters
21.30	Shuttle Service to Homerton College
Monday 6	September 2010
07.30	Breakfast Hall Restaurant
07.15	Breakfast Homerton College
07.45	Shuttle service from Homerton College to Conference Centre
Session 7	Senescence Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Robert Ballotti and Dorothy Bennett
08.30-08.45	IFPCS and the IPCC, Shigeki Shibahara; IPCC 2011, Alain Taïeb
08.45-09.10	Oncogene-induced cell senescence and its relevance for melanoma Daniel Peeper, Netherlands Cancer Institute, The Netherlands The EMBO Lecture
	EMBO European Molecular Bloogy Organization
09.10-09.35	Regulation and therapeutic impact of intracellular degradation pathways in melanoma Maria Soengas, Spanish National Cancer Research Centre, Spain
09.35-10.00	Treating the untreatable? Cell-based screening for senescence-based cancer drug discovery *Dorothy Bennett*, St George's, University of London, UK
10.00-10.15	Melanoma inhibitory activity (MIA) acts as a mediator of oncogene-induced senescence in human melanocytes Susanne Schiffner, University of Regensburg, Germany
10.15-10.45	Morning Coffee Conference Centre Foyer and Cloisters

Session 8	Signalling pathways in melanocytes and melanoma cells Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Anja Bosserhoff and Colin Goding
10.45-11.10	GLI2, not just a Hedgehog mediator – Its role in melanoma metastasis <i>Alain Mauviel</i> , <i>Institut Curie, France</i>
11.10-11.35	Multiplicity and complexity of the OA1 signaling pathway(s) Vittoria Schiaffino, San Raffaele Scientific Institute, Italy
11.35-12.00	Non-canonical signaling from wild type and mutant human melanocortin 1 receptor (MC1R) José Carlos García-Borrón, University of Murcia, Spain The Clinuvel Lecture
12.00-12.15	Identification of novel mutations affecting MC1R signalling lan Jackson, MRC Human Genetics Unit, UK
12.15-12.30	Signals involved in oncogenic activities of metabotropic glutamate receptor 1 Yoko Funasaka , Nippon Medical School, Japan
12.30-14.00	Lunch Hall Restaurant
13.00-14.00	ESPCR General Assembly Francis Crick Auditorium
Session 9	Genetics of melanocyte and melanoma development Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Keith Hoek and Julia Newton Bishop
14.00-14.25	Migratory pathways and cellular mechanisms of melanocyte development Patrik Ernfors , TBC
14.25-14.50	A role for ATF2 in regulating MITF and melanoma development Ze'ev Ronai , Sanford-Burnham, USA
14.50-15.15	Human pigmentation genes and novel genetic susceptibilities to melanoma: a candidate gene approach using the Illumina platform <i>Gloria Ribas</i> , Fundacion Investigacion Hospital Clinico Valencia, Spain
15.15-15.30	TYRP1 function in melanoma progression Marie-Dominique Galibert, CNRS UR6061 – IGDR, France
15.30-15.45	NR4A nuclear receptors mediate normal and oncogenic signalling in melanocytic cells. **Aaron Smith*, University of Queensland, Australia**
15.45-17.45	Afternoon Tea and Poster Session II Conference Centre Cloisters

17.45-18.45	Plenary Lecture 1: Gene expression in cellular senescence Masashi Narita, Cancer Research UK Cambridge Research Institute, UK introduced by Dorothy Bennett
19.00	Buses to Conference Dinner in Cambridge
19.30-23.00	Drinks Reception and Conference Dinner at Queens College in Cambridge
23.00	Coaches return to Homerton College and Conference Centre
Tuesday 7 September 2010	
07.30	Breakfast Hall Restaurant
07.30	Breakfast Homerton College
08.00	Shuttle service from Homerton College to Conference Centre
Session 10	The sun, DNA damage and epidermal biology Francis Crick Auditorium, Wellcome Trust Conference Centre Chair: Markus Böhm and Yoko Funasaka
08.45-09.10	Chk1 is essential for skin tumorigenesis David Gillespie, Beatson Institute for Cancer Research, UK
09.10-09.35	Truncated alpha-MSH tripeptides and derivatives –novel tools for the prevention of UVB-induced stress and inflammation <i>Markus Böhm</i> , <i>University of Münster</i> , <i>Germany</i>
09.35-10.00	The sun, vitamin D and melanoma Julia Newton-Bishop, University of Leeds, UK
10.00-10.15	In vivo identification of solar radiation-responsive gene network: role of the p38 stress-dependent kinase Nicolas Mouchet, CNRS UMR6061, France
10.15-10.45	Morning Coffee Conference Centre Foyer and Cloisters
10.45-11.45	Plenary Lecture 2: Stem cells in mammalian epidermis Fiona Watt, Cancer Research UK Cambridge Research Institute, UK introduced by Robert Kelsh
12.00-13.00	Lunch Hall Restaurant
13.00-16.00	Three parallel Workshops

	Auditorium, Wellcome Trust Conference Centre Barsh and Nick Mundy
13.00-13.25	Evolutionary genetics of melanin-based plumage polymorphisms in buzzards and skuas Nick Mundy, University of Cambridge, UK
13.25-13.50	Mammalian pigmentation patterns Greg Barsh, HudsonAlpha Institute, USA
13.50-14.15	Interactions between zebrafish pigment cells responsible for the generation of Turing patterns Shigeru Kondo, Osaka University, Japan
14.15-14.30	Chemico-genetic analysis of the parade mutant; insights into embryonic pigment pattern formation in zebrafish Sarah Colanesi, University of Bath, UK
14.30-14.45	Analysis of coat colour loci in <i>Vicugna Pacos</i> (Alpaca) and association with coat colour variation Natasha Feeley, Curtin University, Australia
14.45-15.00	SLC24A5 and cholesterol homeostasis – a route to human skin colour variation? **Rebecca Ginger, Unilever R&D, USA**
15.00-15.15	Solute Carrier Family 45 Member 2 (Slc45a2) of the Guppy: Molecular cloning, polymorphisms and fine mapping of genomic region Verena Kottler, Max Planck Institute for Developmental Biology, Germany
James Watson	- Function and formation of the melanosome n Pavilion, Wellcome Trust Conference Centre d'Ischia and José Carlos García-Borrón
13.00-13.25	The dark side of pigment cells: from DHICA to eumelanin, key issues and clues from chemistry Marco d'Ischia, University of Naples Federico II, Italy
13.25-13.50	Activation of 3- <i>O</i> -(3,4,5-trimethoxybenzoyl)-(-)-epicatechin in melanoma to a potent irreversible inhibitor of dihydrofolate reductase <i>Jose Neptuno Rodriguez-Lopez</i> , <i>University of Murcia</i> , <i>Spain</i>
13.50-14.05	Rab GTPases, the recycling endosome and regulation of melanosome trafficking and release Kimberley Beaumont, University of Queensland, Australia
14.05-14.20	Intracellular sorting of the melanosomal G protein-coupled receptor OA1 involves ubiquitination and ESCRT function Francesca Giordano, Institut Curie, France
14.20-14.35	Isoquinoline building blocks in red hair pheomelanin uncovered Alessandra Napolitano, University of Naples Federico II, Italy

Workshop A – Pigment patterns – their formation and evolution

Workshop C – VitiligoRosalind Franklin Pavilion, Wellcome Trust Conference Centre
Chairs: Mauro Picardo and Alain Taïeb

13.00-13.25	Vitiligo: emerging targets to limit the subclinical inflammatory phase Alain Taïeb, CHU Bordeaux, France
13.25-13.50	Lipid modification in vitiligo melanocytes: a possible role in the alteration of signal transduction pathways. <i>Mauro Picardo</i> , San Gallicano Dermatologic Institute - IRCCS Rome, Italy
13.50-14.15	Role of apoptosis and melanocytorrhagy: A comparative study of melanocytes adhesion in stable and unstable vitiligo Davinder Parsad , Postgraduate Institute of Medical Education & Research, India
14.15-14.30	The topical improvement of the marginal repigmentation pattern of vitiligo Yvon Gauthier, Dermatologie, France
14.30-14.45	What are the priorities for clinical research in vitiligo? Viktoria Eleftheriadou, University of Nottingham, UK
14.45-15.00	Presence versus absence of autoimmunity in non segmental vitiligo patients <i>Silvia Moretti</i> , <i>University of Florence</i> , <i>Italy</i>
15.00-15.15	Prognostic value of halo nevi in vitiligo Nanja van Geel, Ghent University Hospital, Belgium
16.00	Conference Closure
16.30	Coaches to Cambridge, Stansted and Heathrow depart.