



## 1-day 2021 ESPCR online meeting, 3 December 2021

10:00 - 13:00 and 15:00 - 17:00 CET (Madrid/Paris time)

Organized by ESPCR Board - Program prepared by Cédric Delevoye and Lluís Montoliu

10:00 - 10:05 Welcome and presenting the 2021 ESPCR award – **Lluís Montoliu**

10:05 - 10:30 Talk by the 2021 ESPCR awardee – **Mauro Picardo**

### Session I - Pigment Cell Development and Genetics

**Chairs: Lluís Montoliu and Benoît Arveiler**

- 10:30 - 10:40 Tfp2b specifies an embryonic melanocyte stem cell that retains adult multi-fate potential. **Alessandro Brombin** (MRC Human Genetics Unit, Institute of Genetics and Cancer, University of Edinburgh, Western General Hospital Campus, UK). Laboratory: Elisabeth Patton
- 10:40 - 10:50 The Developmental Origin of Melanocytes in the Aortic Valve. **Daniel Chaparro** (Florida International University, Miami, USA). Laboratory: Lidia Kos
- 10:50 - 11:00 Two novel CreER<sup>T2</sup> transgenic mouse lines to study melanocytic cells in vivo. **Isabel Stüfchen** (Institute of Biochemistry, FAU, Erlangen, Germany). Laboratory: Anja K. Bosserhoff
- 11:00 - 11:10 Intra-individual melanocyte heterogeneity and the identification of anatomic site-specific pigment associated transcriptional programs. **Rachel L. Belote** (Huntsman Cancer Institute, University of Utah, Salt Lake City, USA). Laboratory: Robert L. Judson-Torres
- 11:10 - 11:20 Haplotype-based analysis elucidates the contribution of common regulatory and protein-coding TYR variants in the genetic architecture of albinism. **Panagiotis I. Sergouniotis** (University of Manchester, UK). Laboratory: Graeme C. Black/Benoît Arveiler
- 11:20 – 11:30 New mouse models of albinism with patient-specific mutations generated with CRISPR tools. **Ana M. Guardia** (CNB-CSIC and CIBERER-ISCIII, Madrid, Spain). Laboratory: Lluís Montoliu

### Session II - Mixed flash presentations

11:30 - 12:00 **Flash talks** (3 min each – 3 slides) **Chair: Lluís Montoliu**

- Large Congenital melanocytic nevi acquire a distinct methylome signature. **Elise Marechal** (Aix Marseille University, France). Laboratory: Heather C. Etchevers
- Modulation of motility and E-cadherin expression in human melanoma cells by Mahogunin Ring Finger-1. **Sonia Cerdido** (University of Murcia, Spain). Laboratory: José Carlos García-Borrón
- Protective efficacy of Sanqi-derived compound K on melanocytes against oxidative stress: in vitro and in vivo evaluation. **Suwei Tang** (Osaka City University, Japan). Laboratory: Ichiro Katayama
- Expression of DKK1 and NRG1 in vitiligo patients and their in vitro effect on cultured melanocytes. **Seema Rani** (Hindu Girls College, Sonapat, India). Laboratory: Davinder Parsad/Ravinder Kumar

- Metabolic comorbidities in Vitiligo: more than just casual? **Andrea D'Arino** (San Gallicano Dermatological Institute, Rome, Italy). Laboratory: Mauro Picardo
- Phenotype switching induced by tyrosine occurs early in many primary melanoma cultures limiting their translational value. **Ahmad Najem** (Institut Jules Bordet, Université Libre de Bruxelles, Brussels, Belgium). Laboratory: Ghanem Ghanem
- Mechanisms of melanin polarization in skin keratinocytes. **Matilde Neto** (Universidade NOVA de Lisboa, Portugal). Laboratory: Miguel Seabra/Duarte Barral
- GRPR promotes the formation of lung melanoma metastasis. **Jeremy Raymond** (Institut Curie, Orsay, France) Laboratory: Lionel Larue

## Session III – Vitiligo, other pigmentary disorders and melanin

**Chairs: Lucia Panzella and Meri Tulic**

- 12:00 - 12:10 Enhanced MC1R signalling and pH modulation increase pigmentation in Hermansky-Pudlak Syndrome models via deacidification of lysosomes. **Philip S. Goff** (St. George's, University of London, UK). Laboratory: Elena V. Sviderskaya
- 12:10 - 12:20 Unraveling Griscelli's syndrome hypopigmentation using a reconstructed pigmented epidermis system. **João Charneca** (Universidade NOVA de Lisboa, Portugal). Laboratory: Miguel Seabra/Duarte Barral
- 12:20 - 12:30 Looking at metabolic imbalance in vitiligo fibroblasts. **Federica Papaccio** (San Gallicano Dermatological Institute, Rome, Italy). Laboratory: Mauro Picardo
- 12:30 - 12:40 IFN- $\gamma$ -induced PD-L1 expression on human melanocytes is impaired in vitiligo. **Marcella Willemsen** (Department of Dermatology and Netherlands Institute for Pigment Disorders, Amsterdam University Medical Centers, The Netherlands). Laboratory: Rosalie M. Luiten
- 12:40 - 12:50 Solid-state oxidation of 5,6-dihydroxyindole: identification of new biindolyl dimers and implication for the eumelanin biosynthetic process. **Maria Laura Alfieri** (Department of Chemical Sciences, University of Naples "Federico II", Italy). Laboratory: Alessandra Napolitano
- 12:50 - 13:00 Improving the solubility, antioxidant and photoprotective properties of eumelanins for dermocosmetic applications. **Rita Argenziano** (Department of Chemical Sciences, University of Naples "Federico II", Italy). Laboratory: Alessandra Napolitano
- 13:00 - 15:00 lunch break
- 14:00 - 15:00 ESPCR Board meeting (separate link will be sent to ESPCR Board members)

## Session IV – Melanoma

**Chairs: Corine Bertolotto and Fabrice Journé**

- 15:00 - 15:10 Initiation of an anti-tumour immune response in a porcine melanoma model. **Héloïse Debare** (Université Paris-Saclay, INRAE, AgroParisTech, GABI, Jouy-en-Josas, France). Laboratory: Giorgia Egidy

- 15:10 - 15:20 Pirin is a prognostic marker for early-stage melanoma and regulates proliferative state through JARID1B gene expression. **Cristina Penas** (Department of Cell Biology and Histology. Faculty of Medicine and Nursing, University of the Basque Country, Leioa, Spain). Laboratory: María Dolores Boyano
- 15:20 - 15:30 Dystroglycan receptor glycosylation in melanoma progression. **Israel Castillo** (Florida International University, Miami, USA). Laboratory: Lidia Kos
- 15:30 - 15:40 Targeting tumor cell metabolic plasticity to breakdown resistance to targeted therapies in metastatic melanoma. **Laura Soumoy** (Laboratory of Human Anatomy & Experimental Oncology, Faculty of Medicine and Pharmacy, University of Mons, Belgium). Laboratory: Fabrice Journé
- 15:40 - 15:50 The Benefit of co-targeting PARP and c-Met on the efficacy of radiotherapy in WT BRAF melanoma. **Malak Sabbah** (Institut Jules Bordet, Université Libre de Bruxelles, Brussels, Belgium). Laboratory: Ghanem Ghanem

## Session V – Pigment Organelles and Biology

**Chairs: Cédric Delevoeye and Duarte Barral**

- 15:50 - 16:00 Two type II phosphatidylinositol 4-kinases function sequentially in tubule-mediated cargo delivery from early endosomes to melanosomes. **Yueyao Zhu** (Dept. of Pathology & Laboratory Medicine, Children's Hospital of Philadelphia Research Inst., Philadelphia, USA). Laboratory: Michael S. Marks
- 16:00 - 16:10 A role for Dynl1t3 in melanosome movement, distribution, acidity and transfer. **Zackie Aktary** (Institut Curie, Orsay, France) Laboratory: Lionel Larue
- 16:10 - 16:20 Alpha-Synuclein and its Role in Melanosome Transfer. **Nicole Rachinger** (Institute of Biochemistry, FAU, Erlangen, Germany). Laboratory: Anja K. Bosserhoff
- 16:20 - 16:30 Rab3a Regulates Melanin Exocytosis Induced by Keratinocyte-Conditioned Medium. **Luís C. Cabaço** (Universidade NOVA de Lisboa, Portugal). Laboratory: Miguel Seabra/Duarte Barral
- 16:30 - 16:40 PI3K pathway supports energy metabolism, via glucose uptake, thus promoting  $\alpha$ MSH-mediated pigmentation through the physiological transfer of melanin. **Vittoria Maresca** (San Gallicano Dermatological Institute, Rome, Italy). Laboratory: Vittoria Maresca
- 16:40 - 16:50 Pigmented organelles ensure keratinocytes photo-protection and require intermediate filaments for perinuclear immobilization. **Silvia Benito-Martínez** (Institut Curie, Orsay, France). Laboratory: Graça Raposo/Cédric Delevoeye
- 16:50 - 17:00 Autophagy regulates melanin distribution within keratinocytes. **Liliana Bento-Lopes** (Universidade NOVA de Lisboa, Portugal). Laboratory: Miguel Seabra/Duarte Barral
- 17:00 Closing the meeting
- 17:00 - 18:00 ESPCR General Assembly (separate link will be sent to ESPCR members)