

# Prefinal Scientific Programme of ESPCR 2009 Meeting

**Sunday, September 20, 2009**

[All sessions, symposia and workshops in the Aula of the Palace of Westfalian Wilhelms University Münster if not otherwise stated]

- 08:30 – 09:30            ESPCR Council Meeting I [Senate´s room]
- 09:30 – 10:30            International Program Committee Meeting 21th IPCC Bordeaux 2011  
[Senate´s room]
- 10:30 – 12:00            Vitiligo European Task Force (VETF) Meeting [Senate´s room]
- 08:00                      Registration opens
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- 13:00 – 16:30            **Symposium I: Recent advances in the treatment of pigmentary disorders of the skin**  
*Chairs: M. Picardo, A. Taïeb*
- Invited lectures IS01-09
- 13:00 – 13:20            **IS01**    *K.U. Schallreuter*  
                                Vitiligo – still an enigma? 20-years experience in the field
- 13:20 – 13:40            **IS02**    *G. Leone*  
                                What´s new in UV phototherapy of vitiligo?
- 13:40 – 14:00            **IS03**    *A. Taïeb*  
                                Cutaneous inflammation in vitiligo
- 14:00 – 14:20            **IS04**    *T. Passeron*  
                                Topical treatments and combination approaches for vitiligo: new insights, new developments
- 14:20 – 14:40            **IS05**    *T. Anbar*  
                                Treatment of “difficult” areas in patients with vitiligo
- 14:40 – 15:00            **IS06**    *D. Parsad*  
                                Development of guidelines for vitiligo surgery
- 15:00 – 15:30            Coffee break
- 15:30 – 15:50            **IS07**    *D. Gawkrödger*  
                                British guidelines for treatment of vitiligo: current status
- 15:50 – 16:10            **IS08**    *J.-P. Ortonne*  
                                Pathogeny and treatment of melasma: un update
- 16:10 – 16:30            **IS09**    *D. Manstein*  
                                Fractional photothermolysis - a novel therapeutic tool for pigmentary disorders

Short oral presentations OP01-03

- 16:30 – 16:40 **OP01 A. Hartmann**, L. Löhberg, G. Schuler  
Treatment of vitiligo using Intense-Pulsed-Light (IPL)-UVB-  
Phototherapy: Evaluation of variables effecting therapeutic success
- 16:40 – 16:50 **OP02 E.I. Minder**, G. Hofbauer, J. Kolm, C. Zawinka, S. Lautenschlager,  
X. Schneider-Yin  
Clinical photoprotection by afamelanotide in an oculocutaneous  
albinism (OCA) 1A patient
- 16:50 – 17:00 **OP03 M.W. Kroon**, B.S. Wind, A.A. Meesters, A. Wolkerstorfer, J.P.W. van  
der Veen, L. Nieuweboer-Krobotová, J.D. Bos, J.F. Beek  
Non-ablative fractional laser therapy as treatment for ashy dermatosis  
and post-inflammatory hyper-pigmentation: a pilot study

17:00 – 18:50 **Symposium II: Perspectives in melanoma treatment**  
*Chairs: G. Ghanem, T.A. Luger*

Invited lectures IS10-13

- 17:00 – 17:20 **IS10 L. van Kempen**  
The tumor microenvironment is not an innocent bystander of  
melanoma progression
- 17:20 – 17:40 **IS11 A. Eberle**  
Targeting of melanoma metastases with peptides
- 17:40 – 18:00 **IS12 D. Schadendorf**  
Chemotherapy resistance of melanoma: mechanisms and solutions
- 18:00 – 18:20 **IS13 R. Dummer**  
Novel therapeutic trends in molecular targeting of melanoma

Short oral presentations OP04-06

- 18:20 – 18:30 **OP 04 F. Journé**, R. Morandini, F. Salès, A. Awada, G. Ghanem  
Gene expression profiling to improve prognostic of cutaneous  
melanoma
- 18:30 – 18:40 **OP05 J.G. van den Boorn**, D. Konijnenberg, D.I. Picavet, D.V.  
Filippov, J.W. van der Veen, J.D. Bos, C.J. Melief, R.M. Luiten  
Effective melanoma immunotherapy by the synergism of CpG,  
imiquimod and the monobenzylether of hydroquinone
- 18:40 – 18:50 **OP06 M.A. Zmijewski**, J. Chen, W. Li, T.W. Sweatman, J. Zjawiony,  
A. Slominski  
Pregna-5,7-diene-3 $\beta$ ,21-diol and its vitamin D-like derivatives as  
potential anti-melanoma factors

19:00 – 19:20 **Opening Ceremony**

*M. Böhm* (Organizer of the ESPCR 2009 Meeting),  
*M. Picardo, L. Larue* (President, President-Elect of the ESPCR)  
*T.A. Luger* (President of the German Society for Dermatology, DDG)

- 19:20 – 20:05      **Fritz Anders Memorial Lecture**  
**IS14** *G. Barsh*  
On search for novel genes regulating coat colour
- 20:10 – 22:30      Welcome Reception  
[Foyer of the Palace of Westfalian Wilhelms University Münster]

## Monday, September 21, 2009

- 08:00 – 09:40      **Session I: Developmental biology of pigment cells**  
*Chairs: F. Beermann, H. Arnheiter*
- Invited lectures IS15-18
- 08:00 - 08:30      Highlight lecture  
**IS15** *R. Schöler*  
Induction of pluripotency in adult stem cells
- 08:30 – 08:50      **IS 16** *L. Larue*  
From neural crest cells to melanocytes: common multipotent precursors in mice
- 08:50 – 09:10      **IS17** *W. J. Pavan*  
Genetic analysis of melanocyte development and disease
- 09:10 – 09:30      **IS18** *T. Hochgreb*  
Molecular mechanisms of neural crest cell formation
- Short oral presentation OP07
- 09:30 – 09:40      **OP07** C. Rammah, S. Gadin, S. Cormier, C. Souilhoh, M. Cohen-Tannoudji, J.J. Panthier, **G. Aubin-Houzelstein**  
Implication of Notchless and Strawberry Notch homolog 2 genes in melanocyte stem cells homeostasis
- 09:40 – 10:00      Coffee break
- 10:00 – 11:30      **Session II: Genetics of pigmentation**  
*Chairs: R. Spritz, E. Healy*
- Invited lectures IS19-21
- 10:00 – 10:20      **IS 19** *M. Scharf*  
Pigmentation genes as tumor modifiers in the Xiphophorus melanoma model
- 10:20 – 10:40      **IS20** *Y. Tomita*  
The ADAR1 gene in dyschromatosis symmetrica hereditaria
- 10:40 – 11:00      **IS21** *D.F. Gudbjartsson*  
Genetic determinants of skin, hair and eye color and risk of skin cancer

Short oral presentations OP08-10

- 11:00 – 11:10 **OP08 I.T. Aydin**, F. Beermann  
MART-1 gene expression and function
- 11:10 – 11:20 **OP09 C. Praetorius**, C. Grill, A. Schepsky, E. Steingrímsson  
Mitf regulates expression of the interferon regulatory factor 4 (IRF4)
- 11:20 – 11:30 **OP10 E.R. Greenhill**, A. Rocco, M. Nikaido, **R.N. Kelsh**  
Melanocytes, modeling and maths – do we really understand differentiation?

11:30 – 13:00 **Poster Session 1 – Even numbers**  
[Poster Hall - Presenting authors should be by their posters]

13:00 – 14:00 ESPCR Council Meeting II [Senate´s room]

13:00 – 14:30 Lunch

14:30 – 16:00 **Session III: Melanins and melanogenesis**  
*Chairs: J. Borovansky, M. Jimenez-Cervantes*

Invited lectures IS22-24

- 14:30 – 14:50 **IS22 M. d'Ischia**  
Unravelling eumelanin structure
- 14:50 – 15:10 **IS23 H. Decker**  
Catecholoxidase and hemocyanin as tyrosinase-related enzymes
- 15:10 – 15:30 **IS24 F. Amblard**  
High-temperature incandescence as a new optical signature of melanin: fundamental results and applications

Short oral presentations OP11-13

- 15:30 – 15:40 **OP11 B. Bellei**, E. Flori, V. Maresca, A. Pitisci, L. Larue, M. Picardo  
The role of p38 MAPK signaling pathway in melanogenesis in B16 mouse melanoma cells
- 15:40 – 15:50 **OP12 Y. Cheli**, F. Luciani, C. Bertolotto, **R. Ballotti**  
Alpha-MSH and cyclic-AMP elevating agents control melanosome pH through a PKA-independent mechanism
- 15:50 – 16:00 **OP13 A. Pezzella**, A. Iadonisi, S. Valerio, L. Panzella, A. Napolitano, M. Adinolfi, M. d'Ischia  
Design, synthesis and characterization of the first water soluble 5,6-dihydroxyindole polymer as a tool to disentangle eumelanin "chromophore".

16:00 – 16:20 Coffee break

- 16:20 – 17:50      **Session IV: Signal transduction in melanocytes and melanoma cells**  
*Chairs: J. García-Borrón, R. Halaban*
- Invited lectures IS25-27
- 16:20 – 16:40      **IS25**    *J. Krutmann*  
The arylhydrocarbon receptor pathway in human melanocytes
- 16:40 – 17:00      **IS26**    *I. Behrmann*  
Signal transduction in melanoma via Jaks, STATS and SOCS
- 17:00 – 17:20      **IS27**    *R. Halaban*  
Activated kinases and signal transducers in melanomas
- Short oral presentations OP14-16
- 17:20 – 17:30      **OP14**    S. Giuliano, Y. Cheli, M. Ohanna, C. Bonet, K. Bille, R. Ballotti,  
**C. Bertolotto**  
MITF controls the DNA damage response and a lineage specific  
senescence program in melanomas
- 17:30 – 17:40      **OP15**    **A. Schepsky**, G.A. Traustadottir, C. Goding, E. Steingrímsson  
Site-specific acetylation regulates MITF target binding affinity and  
transcriptional activity in melanocytes and melanoma
- 17:40 – 17:50      **OP16**    **S. Haferkamp**, S.L. Tran, T.M. Becker, L.L. Scurr, R.F. Kefford,  
H. Rizos  
The relative contributions of the p53 and pRb pathways in oncogene-  
induced melanocyte senescence
- 18:30 – 20:15      Guided city tour: Departure from the Palace of Westfalian Wilhelms University  
Münster
- 20:30                      Dinner ESPCR Council Meeting

## Tuesday, September 22, 2009

- 08:00 – 09:40      **Session V: Oxidative Stress and Pigment Cells**  
*Chairs: K.U. Schallreuter, N. Smit*
- Invited lectures IS28-31
- 08:00 – 08:20      **IS28**    *M. Picardo*  
Reactive oxygen species and anti-oxidative defense mechanisms: an  
overview
- 08:20 – 08:40      **IS29**    *S. Pavel*  
Oxidative stress in melanogenesis: friend or foe?
- 08:40 – 09:00      **IS30**    *S. Meierjohann*  
Oxidative stress in melanocyte senescence

- 09:00 – 09:20 **IS31** *C. Kerkhoff*  
NADPH oxidase(s): Novel "radical" players in skin cell biology?
- Short oral presentations OP17-18
- 09:20 – 09:30 **OP17** A. Lipšová, J. Vachtenheim, **J. Borovanský**  
Antioxidant defence of melanoma cells and its exploitation in pro-/anti-oxidant therapy
- 09:30 – 09:40 **OP18** **T. Vafae**, H. Rokos, M.E. Salem, K.U. Schallreuter  
In vivo and in vitro evidence for epidermal H<sub>2</sub>O<sub>2</sub>-mediated oxidative stress in piebaldism
- 09:40 – 10:00 Coffee break
- 10:00 – 11:10 **Session VI: The Melanocyte under the sun**  
*Chairs: T. Schwarz, V.J. Hearing*
- Invited lectures IS32-34
- 10:00 – 10:20 **IS32** *A. Napolitano*  
Red hair photochemistry: differential behaviour of structural components to (photo)degradation.
- 10:20 – 10:40 **IS33** *M.-D. Galibert*  
USF and the UV-response in skin
- 10:40 – 11:00 **IS34** *V.J. Hearing*  
Molecular characterization of the responses of human skin to repetitive UVA, UVB or SSR exposure
- Short oral presentation OP19
- 11:00 – 11:10 **OP19** **K. Gledhill**, M. Brownrigg, A. Haylett, M. Masoodi, A. J. Thody, A. Nicolaou, L. E. Rhodes, D. J. Tobin  
Skin phototype does not correlate with melanogenic capability in epidermal melanocytes in vitro
- 11:10 – 12:40 **Poster Session 2 – Uneven numbers**  
[Poster Hall - Presenting authors should be by their posters]
- 12:40 – 14:00 Lunch
- 14:00 – 15:50 **Session VII: Melanocortin peptides, pigment cells and beyond**  
*Chairs: A. Eberle, M. Böhm*
- Invited lectures IS35-38
- 14:00 – 14:20 **IS35** *M. Böhm*  
Novel facets of cytoprotection by  $\alpha$ -MSH against UVB irradiation

- 14:20 – 14:40 **IS36** *Z. Abdel-Malek*  
The melanocortin 1 receptor: paving a new road to DNA repair pathways
- 14:40 – 15:00 **IS37** *J.-C. García-Borrón*  
New insights into post-receptor signaling of MC1R
- 15:00 – 15:20 **IS38** *T. Brzoska*  
MSH tripeptides and derivatives: Biochemistry, skin pharmacology, and a future potential in pigment cell biology?
- Short oral presentations OP20-22
- 15:20 – 15:30 **OP20** **M. L. Dell’Anna**, M. Ottaviani, B. Bellei, M. Picardo  
 $\alpha$ -MSH-mediated signaling in vitiligo and normal melanocytes
- 15:30 – 15:40 **OP21** C.L. Jackson, S.K. Singh, S.J. Robinson, P. Kumar, A.M. Page, P.S. Friedmann, D.J. Tobin, **E. Healy**  
Functional MC1R at the melanosome
- 15:40 – 15:50 **OP22** **V. Maresca**, E. Flori, B. Bellei, N. Aspite, G. Cardinali, M. Picardo  
Peroxisome proliferator-activated receptor- $\gamma$ : a regulator downstream melanocortin-1 receptor
- 15:50 – 16:10 Coffee break
- 16:10 – 17:10 **Session VIII: Epidermal melanocytes and their cellular neighbours**  
*Chairs: Z. Abdel-Malek, R. Paus*
- Invited lectures IS39-40
- 16:10 – 16:30 *A. Slominski*  
**IS39**: Melanin and epidermal cell homeostasis
- 16:30 – 16:50 *J. Lambert*  
**IS40**: Molecular motors of melanosomal transfer: from bench to bedside
- Short oral presentations OP23-24
- 16:50 – 17:00 **OP23** **D. Kovacs**, G. Cardinali, N. Aspite, C. Cota, A. Amantea, M.R. Torrisci, M. Picardo  
Role of growth factors in regulating hyperpigmentation of solar lentigo
- 17:00 – 17:10 **OP24** **S.K. Singh**, C. Nizard, R. Kurfurst, S. Schnebert, E. Perrier, D.J. Tobin  
Molecular mechanism of melanosome transfer by filopodia/tunneling nanotubes in human skin cells
- 17:30 – 18:30 ESPCR General Assembly
- 19:45 – 23:30 Gala Evening with Concert [Erbdrostenhof - Preregistration required]

## Wednesday, September 23, 2009

- 08:00 – 10:00      **Session IX: Albinism and extracutaneous melanin**  
*Chairs: L. Montoliu, B. McKay*
- Invited lectures IS41-45
- 08:00 – 08:20      **IS41** *T. Sarna*  
Retinal pigment epithelial melanin - a protective supermolecular system: implications in human physiology and pathobiology
- 08:20 – 08:40      **IS42** *L. Zecca*  
Melanic pigments in the human brain
- 08:40 – 09:00      **IS43** *B. McKay*  
L-Dopa as the endogenous ligand for the OA1 receptor
- 09:00 – 09:20      **IS44** *K.P. Hoffmann*  
Role of cation-chloride co-transporters in ocular albinism
- 09:20 – 09:40      **IS45** *V. Schiaffino*  
Characterisation of OA1 phenotype: emerging news
- Short oral presentations OP25-26
- 09:40 – 09:50      **OP25** K. Wakamatsu, E. Zurita, M. Cantero, S. Ito, **L. Montoliu**  
Increased L-DOPA levels in the eye and cochlea of transgenic mouse models of OCA1 correlate with the observed rescue of sensory deficits associated with albinism in mice
- 09:50 – 10:00      **OP26** K. Bharti, M. Gasper, M. Brucato, **H. Arnheiter**  
The role of PAX6 in the development of the retinal pigment epithelium
- 10:00 – 10:20      Coffee break
- 10:20 – 11:50      **Session X: Pigment cell biology of the hair follicle**  
*Chairs: A. Slominski, S. Commo*
- Invited lectures IS46-48
- 10:20 – 10:40      **IS46** *D.J. Tobin*  
Molecular mechanisms of hair greying
- 10:40 – 11:00      **IS47** *R. Paus*  
Neuroendocrinology of the hair follicle: Can we create the magic cocktail for reactivating follicular melanocytes?
- 11:00 – 11:20      **IS48** *F. Beermann*  
Hair greying in mouse models
- Short oral presentations OP27-29



- 11:20 – 11:30 **OP27 E. Sundström**, A. Golovko, L. Jiang, G. Rosengren Pielberg, L. Andersson  
Functional characterization of the mutation causing premature hair greying and susceptibility to melanoma in the horse
- 11:30 – 11:40 **OP28 K. Behrendt**, C. Brakebusch, R. Pofahl, T. Krieg, I. Haase  
Pigmentation defects due to Rac1 deficiency in the differentiated parts of the hair follicle
- 11:40 – 11:50 **OP29 J.S. Ramalho**, V.S. Lopes, A.K. Tarafder, M.C. Seabra, **A.N. Hume**  
Myrip uses distinct domains in the cellular activation of myosin Va and myosin VIIa in melanosome transport
- 11:50 – 13:20 **Session XI: Vitiligo and other pigmentary disorders**  
*Chairs: J. Lambert, J.P. van der Veen*
- Invited lectures IS49-51
- 11:50 - 12:20 Highlight lecture  
**IS49 O. Gaide**  
Inflammasomes - master switches of innate and autoimmunity
- 12:20 – 12:40 **IS50 R.A. Spritz**  
Recent advances in genetics of vitiligo
- 12:40 – 13:00 **IS51 M.C. Seabra**  
Mechanisms of melanosome transfer and keratinocyte processing
- Short oral presentations OP30-31
- 13:00 – 13:10 **OP30 M.E. Salem**, M. Shalhaf, K.U. Schallreuter  
H<sub>2</sub>O<sub>2</sub> enhances DNA binding capacity on p53 and prevents peroxynitrite induced abrogation of DNA binding: A mechanism to combat DNA damage in vitiligo?
- 13:10 – 13:20 **OP31 S. Esmat**, G. Abdel Aty, A. Eltawdy, D. Abdelhalim, M.A. Saleh, M. El Mofty  
Acral lesions of vitiligo: Why are they resistant to PUVA? II. An immunohistochemical study of C-kit protein and its ligand stem cell factor
- 13:20 – 14:30 Lunch
- 14:30 – 16:20 **Session XII: Molecular biology of melanoma and nevi**  
*Chairs: D. Bennett, M. Scharf*
- Invited lectures IS52-54
- 14:30 – 14:50 **IS52 A. Bosserhoff**  
MiRNA and melanoma
- 14:50 – 15:10 **IS53 N. A. Gruis**  
(Atypical) nevus susceptibility genes

- 15:10 – 15:30      **IS54** *D. S. Peeper*  
Oncogene-induced cell senescence and its relevance for melanoma
- Short oral presentations OP32-36
- 15:30 – 15:40      **OP32** **C.S.L. Müller**, N. Denzer, S. Reichrath, W. Tilgen, J. Reichrath  
Characterization of the Notch signaling pathway in melanocytic tumors of the skin
- 15:40 – 15:50      **OP33** **D.W. Mueller** and A. Bosserhoff  
miRNA miR-196a regulates HOX-C8 expression which in turns influences expression of several important downstream target genes in malignant melanoma
- 15:50 – 16:00      **OP34** **A. Golovko**, L. Jiang, G. Pielberg, E. Sundström, L. Andersson  
Exploring the mechanism of a dominant mutation predisposing to melanoma in Grey horses
- 16:00 – 16:10      **OP35** L. Tang, H. Jiang, W. Ip, M. Su, D. Dai, P. Brasher, Y. Zhang, Y. Wang, D. McLean, M. Martinka, G. Li, **Y. Zhou**  
Tumor extracellular matrix proteins as prognostic markers for stage III and stage IV melanoma
- 16:10 – 16:20      **OP36** **D. Widmer**, O. Eichhoff., M. Zipser, R. Dummer, K. Hoek  
The phenotype switching model for melanoma progression
- 16:20 – 16:40      Coffee break
- 16:40 – 18:00      **Workshop: Experimental approaches in melanoma research**  
*Chairs: A. Bosserhoff, L. Larue*
- Invited lectures IS55-58
- 16:40 – 17:00      **IS55** *D. Bennett*  
Melanocyte and melanoma cell culture: any chance of standardization?
- 17:00 – 17:20      **IS56** *K. Hoek*  
Expression analysis in melanoma using chip technology: problems, solutions, and future directions
- 17:20 – 17:40      **IS57** *S.W. Schneider*  
In vitro models of melanoma vessel interaction
- 17:40 – 18:00      **IS58** *T. Tüting*  
Choosing experimental mouse models for melanoma research: a tumor immunologists perspective
- 18:00**                      **End of the ESPCR 2009 Meeting**  
Farewell address by the Organizer & Announcement of Poster Prizes

## Poster presentations

### Symposium I: Recent advances in the treatment of pigmentary disorders of the skin

- PP01 Wind, B.S.**, Kroon, M.W., Wolkerstorfer, A., van der Veen, J.P.W., Nieuweboer-Krobotová, L., Bos, J.D., Beek, J.F.  
Non-ablative fractional laser therapy versus triple topical therapy for the treatment of melasma: a randomised controlled pilot study
- PP02 Meesters, A.A.**, Kroon, M.W., Wind, B.S., Beek, J.F., van der Veen, J.P.W., Nieuweboer-Krobotová, L., Bos, J.D., Wolkerstorfer, A.  
Ablative fractional laser therapy as treatment for Becker nevus: a pilot study

### Symposium II: Perspectives in melanoma treatment

- PP03 Journé, F.**, Morandini, R., Salès, F., Spatz, A., Piccart, M., Awada, A., Ghanem, G.  
Effects of the tyrosine kinase inhibitor dasatinib on the proliferation of melanoma cell lines
- PP04 Sherwood, V.**, Jenei, V., Howlin, J., Linnskog, R., Säfholm, A., Axelsson, L., Andersson, T.  
Peptide modulation of Wnt5a signalling provides a new approach to anti-metastatic therapies for malignant melanoma
- PP05 Buss, S.**, Dujic, J., Kippenberger, St., Kaufmann, R., Bernd, A.  
Low concentrated curcumin photosensitized by light induces apoptosis in human melanocytes and human melanoma cells
- PP06 Weishaupt, C.**, Murphy, G.F., Beisert, S., Kupper, T.S., Fuhlbrigge, R.C.  
A xenograft mouse model to investigate lymphocyte homing to human melanoma
- PP07 Nicolau-Galmés, F.**, Asumendi, A., Arrollo, Y., Pérez- Yarza, G., Ortega- Martínez, I., Díaz- Pérez, J.L., Díaz-Ramón, J.L., Gardeazabal, J., Careaga, J.M., **Boyano, M.D.**  
Cellular death mechanisms induced by terfenadine, an H1 histamine receptor antagonist, in human melanoma
- PP08 Tsianakas, A.**, Ehrchen, J.M., Stadtbäumer, A., Seeliger, S., Rattenholl, A., Luger, T.A., Steinhoff, M., Roth, J., Varga, G., Sunderkötter, C.  
Myeloid-derived suppressor cells: a new immune escape mechanism in melanoma

### Session I: Developmental biology of pigment cells

- PP09 Fenina, M.**, Simon, D., Vandormael-Pournin, S., Langa-Vives, F., Bernard, B.A., Cohen-Tannoudji, M., Panthier, J.-J.  
Does double-strand break at the *Dct* locus increase the frequency of homologous recombination in mouse embryonic stem cells?
- PP10 Gallagher, St.**, Delmas, V., Luciani, F., Kumasaka, M., Champeval, D., Beermann, F., Goding, C., Larue, L.  
 $\beta$ -Catenin acts on melanocyte migration
- PP11 Osada, S.-I.**, Ohmori, S., Inamori, M., Kawana, S., Taira, M.  
Progranulin, a secreted tumorigenesis and dementia-related factor, is required for neural crest formation

- PP12** Patel, R.H., Lawrence, M.A., Negulaev, Y.A., Korchev, Y.E., Bennett, D.C., **Sviderskaya, E.V.**  
Expanded potencies of immortal postnatal mouse neural crest-like stem cells
- PP13** **Williams, R. M.**, Schnetkamp, P.P.M., Winkfein, R.J., Ogborne, R.M., Green, M.R.,  
Wheeler, G.N.  
Investigating the role of SLC24A5 in *Xenopus laevis* pigmentation

### Session II: Genetics of pigmentation

- PP14** **Montoliu, L.**, Oetting, W.S., Bennett, D.C.  
Color genes database
- PP15** **Ibarrola-Villava, M.**, Fernandez, L. P., Pita, G., Floristan, U., Sendagorta, E., Feito, M.,  
Avilés, J. A., Martin-Gonzalez, M., Lázaro, P., Benítez, J., Ribas, G.  
Genetic analysis of three genes important in pigmentation and melanoma susceptibility:  
CDKN2A, MC1R and HERC2/OCA2
- PP16** **Fernandez, L.P.**, Ibarrola-Villava, M., Alonso, S., Boyano, M.D., Pita, G., Boldó, E., Lozoya,  
R., Floristan, U., Sendagorta, E., Feito, M., Avilés, J.A, Martin-Gonzalez, M., Lázaro, P.,  
Benítez, J., Martínez-Cadenas, C., Ribas, G.  
Human pigmentation genes and genetic susceptibility to melanoma: a candidate gene  
approach using Illumina platform
- PP17** **Hellström, A.R.**, Sundström, E., Gunnarsson, U., Kerje, S., Bed'Hom, B., Tixier-Boichard, M.,  
Sahlqvist, A-S., Kämpe, O., Andersson, L.  
Positional cloning of the sex-linked barring locus affecting plumage colour in chicken
- PP18** **Bonilla, C.**, Hooker, S., Shriver, M.D., Salisbury, B., Kittles, R.  
Utilizing genetic ancestry to uncover genetic effects on human skin pigmentation in an  
admixed population

### Session III: Melanins and melanogenesis

- PP19** **Smit, N.P.M.**, Kolb, A.M., van Nieuwpoort, A.F., Out, C., Pavel, S.  
Optimization of eumelanin measurement by fluorimetric detection of PTCA and PDCA after  
hydrogen peroxide degradation
- PP20** **Schraermeyer, U.**, Biesemeier, A., Eibl, O.  
Combined analytical TEM for chemical analysis of ocular melanosomes
- PP21** Chiaverini, C., Briganti, S., Flori, E., Picardo, M., Ortonne, J.P., **Ballotti, R.**  
Molecular mechanisms of hypopigmentation in cystinosis
- PP22** **Greco, G.**, Panzella, L., Napolitano, A., d'Ischia, M.  
New pyridobenzothiazine dimers from zinc-catalyzed oxidation of 5-S-cysteinyl dopa
- PP23** **Biesemeier, A.**, Blitgen-Heiunecke, P., Schraermeyer, U.  
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- PP24** **Arciuli, M.**, Koppang, E.O., Torsen, J., Zanna, P., Maida, I., Guida, G., Cicero, R.  
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(Atlantic salmon)

- PP25 Han, J.**, Matsuyama, K., Fukushima, T., Isoda, H.  
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- PP26 Villareal, M.O.**, Han, J., Parida, Y., Shigemori, H., Isoda, H.  
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- PP27 Wilson, St.**, Askew, S., Ginger, R., Ogborne, R.M., Sawicka, M., Green, M.R.  
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- PP28 Kim, M.Y.**, Lee, S.H., Choi, T.Y., Kim, J.H., **Yoon, T.Y.**  
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#### **Session IV: Signal transduction in melanocytes and melanoma cells**

- PP29 Zákány, R.**, Juhász, T., Matta, C., Sütő, R., Fodor, J., Csernoch, L., Gergely, P.  
Nuclear envelop associated NMDA receptors in HT168 human melanoma cell line
- PP30 Zanna, P.**, Filotico, R., Turpin, M.C., Maida, I., Vena, G., Cicero, R., Guida, G.  
Characterization of three novel melanoma cell lines coming from the south of Italy
- PP31 Jux, B.**, Fritsche, E., Abel, J., Krutmann, J., Esser, C.  
Involvement of arylhydrocarbon receptor (AhR)-signaling in skin melanogenesis
- PP32 Perez-Oliva, A.B.**, Olivares, C., Abrisqueta, M., Garcia-Borrón, J.C., **Jiménez-Cervantes, C.**  
New insights into post-receptor signalling of MC1R
- PP33 Juhász, T.**, Matta, C., Sütő, R., Körmendi, K., Somogyi, C., Molnár, Z., Gergely, P., Zákány, R.  
Hyaluronic acid synthesis and hyaluronic acid guided migration of HT168 and WM35 human melanoma cell lines are modulated by ERK1/2 and calcineurin

#### **Session V: Oxidative stress and pigment cells**

- PP34 Gibbons, N.C.J.**, Schallreuter, K.U.  
Computer simulation reveals enhanced DNA binding of p53 in the presence of peroxynitrite and H<sub>2</sub>O<sub>2</sub>: Implications in vitiligo
- PP35 Böhm, M.**, Kokot, A., Luger, T.A., Dermody, J., Hill, H.Z.  
Mitochondrial metabolism and DNA integrity – novel targets for alpha-MSH and UVB in human keratinocytes and melanocytes

#### **Session VIII: Epidermal melanocytes and their cellular neighbours**

- PP36 Hirobe, T.**, Ootaka, H.  
Interleukin-1 $\beta$  stimulates melanocyte differentiation but inhibits melanoblast proliferation in culture derived from neonatal mouse epidermis
- PP37 Kwak, T.J.**, Kim, H.J., Chang, M.Y., Lee, C.K.  
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### Session IX: Albinism and extracutaneous melanin

**PP38 Zurita, E.**, Moreno, C., Cantero, M., Montoliu, L.  
Differential gene expression profiles in albino versus pigmented mouse retina

**PP39 Meyer zum Gottesberge, A.M.**  
Loss of the mitochondrial MPV17 protein causes apoptosis of the inner ear

### Session X: Pigment cell biology of the hair follicle

**PP40 Schallreuter, K.U.**, Vafae, T. Ruebsam, K., Chawan, B., Rokos, H.  
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### Session XI: Vitiligo and other pigmentary disorders

**PP41 Esmat, S.**, Abd EL Aty, G., Leheta, T., Saleh, M.A., Abd El Halim, D., EL Mofty, M.  
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**PP42 Cario-Andre, M.**, Kovacs, D., Cota, C., Amantea, A., Picardo, M., Ezzedine, K., Jouary, T., Vergier, B., Taïeb, A.  
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**PP49 van Geel, N.**, De Schepper, S., Lambert, J.  
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**PP50 Kim, H.-J.**, Uhm, Y.-K., Shin, M.-K., Yim, S.-V., Chung, J.-H., **Lee, M.-H.**  
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**PP51 Berti, S.**, Bellandi, S., Bertelli, A., Colucci, R., Lotti, T., **Moretti, S.**  
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**PP52 Gawkrödger, D.J.**, Waterman, E.A., Watson, P., Weetman, A.P., Kemp, E.H.  
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### **Session XII: Molecular biology of melanoma and nevi**

**PP53 Tjin, E.**, Konijnenberg, D., Mallo, H., Nieweg, O., Kroon, B., Haanen, J., Luiten, R.  
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**PP54 Braig S.**, Rothhammer T., Mueller D.W., Bosserhoff A.-K.  
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**PP55 Arroyo, Y.**, Alonso, S., Nicolau, F., Izaguirre, N., Gardeazabal, J., Careaga, J.M., de la Rúa, C., Díaz-Pérez, J.L., Boyano, M.D.  
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**PP60 Frey, L.M.**, Houben, R., Bröcker, E.-B.  
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