

# PASPCR

June 2005  
Vol. 13 Number 2

## Newsletter



### Introduction...

by *Bill Oetting*

The 19<sup>th</sup> International Pigment Cell Conference, Sept. 18-22, promises to be a fantastic conference. The Scientific program for the conference can be found starting on page 8. The sessions begin with a Plenary Symposium entitled "Advancing the Frontiers", with Francis Collins of the National Human Genome Research Institute as the first speaker. The quality of the talks begins at a high point and remains there for the rest of the conference. Vince Hearing has put together an impressive series of talks highlighting the most recent advances in pigment cell research. There are also 100 posters that should be the nucleus of some great discussions. I hope that you are planning to attend this seminal conference. Important dates that you need to be aware of for the IPCC can be found on page 4. The most important is August 24<sup>th</sup> for registration and hotel reservations. See you there!

The *PASPCR Newsletter* is published quarterly and is intended to serve as a means of communication for the members of our Society. You are invited to contribute articles, or other information you feel will be of interest to members of the **PASPCR**. If you attend a scientific meeting and have heard results which you think will be of interest to the membership of the **PASPCR**, please write a few paragraphs summarizing what was presented and share it with us. Any information on upcoming meetings of interest will be added to the "Calendar

of Events". This is your newsletter, and we depend upon you to help us make sure it best serves the Society's needs. Contributions and comments can be sent to me, preferably by E-mail, to [bill@lenti.med.umn.edu](mailto:bill@lenti.med.umn.edu).

The PASPCR Web Site is the major, up-to-date source of current information for the PASPCR membership and for individuals who are interested in the PASPCR. If there is additional information that you would like to see on the Web site, or you would like to include information of past PASPCR activities, please let me know and I will add them.

The IFPCS web site can now be reached by using the domain name **ifpcs.org**. The domain name **ipcc.info** will take you to the IPCC web site, providing you the most up to date information on the International Pigment Cell Conference which will be held on September 18 - 22, 2005 at the Hyatt Regency Hotel in Reston, VA.

The PASPCR Web Site can be found at:

<http://www.paspcr.org>

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**The PanAmerican Society for  
Pigment Cell Research**

C/O Dr. Raymond E. Boissy  
Department of Dermatology  
University of Cincinnati  
231 Bethesda Avenue  
Cincinnati, OH 45267-0592

**Officers:**

John Pawelek  
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Raymond E. Boissy  
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William Pavan  
Manickam Sugumaran  
Richard Swank  
Giselle Thibaudeau

**IFPCS Representative:**

Zalfa Abdel-Malek,  
*past-President PASPCR*

**Calendar of Events:**

**Sept 18-22, 2005** XIVth International Pigment Cell Conference (IPCC), to be held near Washington DC, USA.

**Contact:** Dr. Vince. Hearing  
E-mail: hearingv@nih.gov  
Web: www.ipcc.info

**2006** XIIIth Meeting of the PASPCR  
Cincinnati, Ohio

**Contact:** Zalfa Abdel-Malek  
E-mail: abdelmza@email.uc.edu

**2006** XIIIth Meeting of the ESPCR  
Barcelona, Spain

**Contact:** Dr. L. Montoliu  
E-mail: montoliu@cnb.uam.es  
E-mail: espcr06@cnb.uam.es  
Web site: www.cnb.uam.es/~espcr06/

**2007** XIVth Meeting of the PASPCR  
Chicago, Illinois

**Contact:** Caroline Le Poole  
E-mail: ilepool@lumc.edu

If you know of future meetings that you feel would be of interest to the PASPCR membership, please let us know.

The *PASPCR Newsletter* is published quarterly by the PanAmerican Society for Pigment Cell Research. All views are those of the authors. For further information or to submit articles, please contact members of the Publications Committee.

**Publications Committee:**

**William S. Oetting, Ph.D.**  
**Editor**

University of Minnesota  
Department of Medicine- Genetics  
MMC 485  
420 Delaware St. SE  
Minneapolis, MN 55455  
(612) 624-1139  
bill@lenti.med.umn.edu

**Manickam Sugumaran, Ph.D.**

Univ of Massachusetts at Boston  
Department of Biology  
100 Marrissey Boulevard  
Boston, MA 02125  
(617) 287-6600  
manickam.sugumaran@umb.edu

**Richard T. Swank, Ph.D.**

Roswell Park Cancer Institute  
Department of Molecular & Cell Biology  
Elm and Carlton Streets  
Buffalo, NY 14263  
(716) 845-3429  
richard.swank@roswellpark.edu

## Corporate Sponsors

by *Raymond E. Boissy*

The PASPCR would like to acknowledge and thank our Corporate Sponsors; the list below reflects contributions over the past 2 years. Financial gifts from these sponsors have allowed our Society to increase benefits to the membership far out of proportion to the actual dues collected from members. Monies contributed by these sponsors have been used over the years to support various PASPCR functions including our Young Investigator Award program, meeting travel stipends, annual meeting expenses and this Newsletter.

### ***GOLD Corporate Patrons***

Procter and Gamble Co.  
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### ***SILVER Corporate Patrons***

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## New Members

by *Raymond E. Boissy*

The PASPCR would like to welcome these new members to our society:

### **John D'Orazio**

Department of Pediatrics  
University of Kentucky College of Medicine  
Lexington, KY

### **Rashi Gautam**

Roswell Park Cancer Institute  
Department of Molecular & Cellular Biology  
Buffalo, NY

### **LaRhonda T. Jefferson**

Mississippi State University  
Department of Biological Sciences  
Mississippi State, MS

### **Caio Castro**

Department of Dermatology  
Pontificia Universidade Catolica do Parana  
Curitiba, Parana BRAZIL

### **Arup Indra**

Department of Pharmaceutical Sciences  
Oregon State University  
Corvallis, OR

### **Smita Chawla**

Department of Dermatology  
University of Cincinnati College of Medicine  
Cincinnati, OH

### **Irina Fernandez**

Department of Biological Sciences  
Florida International University  
Miami FL

### **Kavita Bhatt**

Center for Cell Biology & Cancer Research  
Albany Medical College  
Albany, NY

### **Seung-Shick Shin**

Department of Food Science  
Laboratory for Cancer Research  
Rutgers University Piscataway, NJ

### **Marcy Lowenstein**

Department of Biological Sciences  
Florida International University  
Miami FL

### **Blazej Zbytek**

Department of Pathology & Laboratory Medicine  
University of Tennessee  
Memphis, TN

### **Xiangtian Zhou**

School of Ophthalmology and Optometry  
Wenzhou Medical College  
Zhejiang, CHINA

### **Fan Lu**

School of Ophthalmology and Optometry  
Wenzhou Medical College  
Zhejiang, CHINA

### **Robert Cornell**

Department of Anatomy & Cell Biology  
University of Iowa, Carver College of Medicine  
Iowa City, IA

### **Michael Anderson**

Department of Physiology & Biophysics  
University of Iowa  
Iowa City, IA

**Dear Members and Friends of the PASPCR**

I hope you are all planning to attend the IPCC in September. Vince Hearing and company have planned a wonderful program and if you are interested in pigment cells, this is the place to be. I am very pleased to let you know that the PASPCR council has unanimously voted to present the Asian Society for Pigment Cell Research with a surprise gift at the IPCC banquet. It will be in the form of an unrestricted monetary contribution to express our best wishes at the birth of this long-needed Society. So when you see members of the ASPCR at the meeting, please give them your warm personal welcome.

On a sad note, I regret to inform you that a long-time member of the PASPCR, Dr. Madhu Pathak, passed away on June 18, 2005 at his home in Belmont, MA. He was 77. Dr. Pathak made many contributions to pigment cell research, but perhaps his most well-known work was the finding that regardless of ethnic background, we all have more-or-less the same number of cutaneous melanocytes. I have used this information for years in speaking to lay audiences about skin color. It helps to emphasize the point that there really are no races, only the human race. Discrimination based on skin color remains a scourge on this planet. Dr. Pathak's work helps remind us of our similarities rather than our differences.

And I have a happier personal transition to report as well. My wife Linda and I will soon be moving to Sioux Falls, South Dakota where I will be setting up a research program for new melanoma therapies. Although I will be keeping a base at Yale and New Haven, my address for the foreseeable future will be in somewhere in Sioux Falls, unknown as yet. This is a very surprising and exciting turn of events for me and I am eager to get started!

I look forward to seeing you in September. This is a very important and fruitful era for pigment cell research and meetings like the IPCC are essential to continued productivity and growth. In the meantime, I hope you have a great summer.

**John Pawelek, President, PASPCR**  
June, 2005

**The latest Update on the 19th IPCC****Dear Colleagues -**

The Scientific Program of the 19th International Pigment Cell Conference (IPCC) is now finalized and can be accessed from the web site ([www.ipcc.info](http://www.ipcc.info)).

The deadline for Registration and Hotel Reservations is August 24, 2005, after which time there is a late penalty fee for registration and hotel rooms will be available only at the standard rate.

Programs of the 3 Satellite Symposia to be held on Sept 23<sup>rd</sup> are also now available online at the IPCC web site. Plan to attend the Melanoma, Photobiology and Vitiligo Satellite Symposia (no fees involved).

**IMPORTANT DATES:**

**Aug 24, 2005** - deadline for hotel reservations and normal registration.

**Sept 18-22, 2005** - 19th International Pigment Cell Conference, Hyatt Regency Hotel, Reston, Virginia

**Sept 23, 2005** - Melanoma, Photobiology and Vitiligo Satellite Symposia.

On behalf of the Local and the International Program Committees, we look forward to welcoming you to the Washington DC area for a very successful meeting.

**Vince Hearing, Organizer, 19th IPCC**

## Skin Cells from Yale

The Yale Cell Culture Core (CCC) facility has been apparently the best kept secret for quite a while, a situation that I wish to correct. The Yale CCC is funded in part by the YSDRCC (Yale Skin Disease Research Core Center) from NIH/NIAMS (Dr. Robert Tigelaar Principal investigator). The core provides skin cells to investigators at Yale and outside of Yale. We even send cells abroad.

This core serves as a resource for freshly cultured normal, immortalized or malignant skin cells. We also provide genetically modified mouse melanocytes and help investigators establish their particular cell type of interest, such as those from transgenic mice. In the latter, we ask investigators to send us the pups by overnight mail.

The Cell Culture Core was established 12 years ago in response to the increasing demand for skin cells by various investigators. It draws on the specialized expertise of several investigators at Yale (Dr. Leonard Milstone, Jordan Pober, Martin Kluger and myself) in growing keratinocytes, melanocytes, melanoma cells, endothelial cells and fibroblasts. Dr. Milstone is responsible for the high quality of human and mouse keratinocyte cultures. Dr. Jordan Pober is one of the world's experts in endothelial cell biology. He has established a highly productive Endothelial Cell Culture Core facility at the Boyer Center for Molecular Medicine. This core produces endothelial cultures of consistently high quality from human umbilical vein, and under the supervision of Martin Kluger, dermal microvascular endothelial cells (HDMEC). I am responsible for culturing normal melanocytes, fibroblasts and melanoma cells.

In particular the core provides:

1. Primary cultures of normal human melanocytes grown from neonatal foreskins and from adult skin.
2. Primary cultures of human keratinocytes.
3. Primary cultures of human fibroblasts.
4. Human melanoma cell strains, some of which freshly grown and are at low passage in culture.

5. Human endothelial cells.
6. Mouse melanocytes, keratinocytes and fibroblasts
7. Mutant and genetically modified melanocytes, keratinocytes and endothelial cells.
8. Large volumes of cells for specified procedures such as the construction of cDNA libraries, analysis of genetic alterations, gene expression (mRNA), purification of cytokines, proteomics, and identification of cell surface proteins.

These cells can be provided as monolayer cultures as well as frozen stocks.

We also send protocols upon request.

The Yale CCC responds to requests for cells on a short notice. Using the core will facilitate your research. You do not need to be an expert in growing the cells. It will save you the labor intensive process and limited funds, because the prices are much below the actual production of these cells. The core improves the consistency, ease and reproducibility of obtaining skin cells, and thus enhances the quality of research and reduces the probability of artifacts due to the presence of mycoplasma and/or contaminating cells. Our core facilitated already the studies of several investigators at Yale and outside of Yale.

The expertise in the central facility provides advice and hands-on help to scientists to grow normal cells that otherwise have been known to be recalcitrant. We trained several investigators who wish to learned first hand how to grow the skin cells.

You can reach us by email: [skin.cells@yale.edu](mailto:skin.cells@yale.edu), or directly to Len Milstone for keratinocytes ([leonard.milstone@yale.edu](mailto:leonard.milstone@yale.edu)), and Marty Kluger for endothelial cells ([martin.kluger@yale.edu](mailto:martin.kluger@yale.edu))

You can get more information regarding prices and other detail from our website:

<http://info.med.yale.edu/dermatology/src/core.html#cell>

**Ruth Halaban**

Dermatology

Yale University School of Medicine



## Research in the PASPCR

**Seth Orlow**

My laboratory is currently focused on two areas, namely the molecular basis of melanogenesis, and mechanisms controlling melanoma sensitivity to cytotoxic agents.

We have been employing a chemical genetics based systems biology approach to pigmentation, screening libraries of small molecules that are designed for rapid target identification for compounds that stimulate and inhibit pigmentation. We recently identified the target for one series of potent pigment enhancing molecules as the protein prohibitin. Prohibitin is a mitochondrial membrane protein, but some groups have also found it to localize to the nucleus and even to the cell surface. We are in the process of identifying the targets for additional pigment stimulating and pigment inhibiting molecules.

We continue to focus on the OCA2/pink-eyed dilution gene product. Using the same chemical genetic approach, we identified a series of small molecules that restore pigmentation to p-null (murine OCA2) melanocytes. We have shown that the target for these compounds is the mitochondrial F1F0-ATPase. Like other compounds that restore pigmentation in OCA2 melanocytes, these may act by alkalinizing intracellular pH.

We have developed a non-melanocytic expression system in which the tyrosinase processing and trafficking defects seen in p-null melanocytes are recapitulated, and are corrected at least in part by either coexpression of the p gene product or by a series of small molecules that we and others have described that induce melanogenesis in p-null melanocytes.

We continue to study the cell biology of the Oa1 gene product, and are addressing its subcellular function. We have used yeast as a model system, as we have in the past for the p gene product, and have confirmed that Oa1 can function as a G-protein coupled receptor.

Finally, on the melanoma front, we have identified using our chemical genetics approach multiple small

molecules that sensitize melanoma cells to certain chemotherapeutic agents to which they are otherwise resistant, and we are in the process of identifying the cellular targets for these agents.

Selected recent publications:

Jung DW, Williams D, Khersonsky SM, Kang TW, Heidary N, Chang YT, Orlow SJ. Identification of the F1F0 mitochondrial ATPase as a target for modulating skin pigmentation by screening a tagged triazine library in zebrafish. *Molecular Biosystems* (2005) 1: 85-92.

Snyder JR, Hall A, Ni-Komatsu L, Khersonsky SM, Chang YT, Orlow SJ. Dissection of melanogenesis with small molecules identifies prohibitin as a regulator. *Chem Biol.* (2005) 12:477-84.

Hall AM, Orlow SJ. Degradation of tyrosinase induced by phenylthiourea occurs following Golgi maturation. *Pigment Cell Res.* (2005) 18:122-9.

Williams D, Jung DW, Khersonsky SM, Heidary N, Chang YT, Orlow SJ. Identification of compounds that bind mitochondrial F1F0 ATPase by screening a triazine library for correction of albinism. *Chemistry & Biology* (2004) 11: 1251-1259

Hall A, Krishnamoorthy L, Orlow SJ. 25-hydroxycholesterol acts in the Golgi compartment to induce degradation of tyrosinase. *Pigment Cell Res* (2004) 17: 396-406



[www.ipcc.info](http://www.ipcc.info)

Postings for **Positions Available** will be open to all individuals and institutions so long as the position is related to pigment cell research. Postings for **Positions Wanted** will be open only to members of the PanAmerican Society for Pigment Cell Research or its sister societies (JSPCR and ESPCR). Send postings to Bill Oetting at bill@lenti.med.umn.edu. Please provide an expiration date for any submitted postings. Final decisions will be made by the Publications Committee of the PASPCR.

### Postdoctoral Position

Postdoctoral Position in the Chao Family Comprehensive Cancer Center, UC Irvine is immediately available to study the signal transduction pathways in human melanoma for regulation of cell proliferation, differentiation and apoptosis. Prior knowledge or interest in redox metabolism would be useful.

A highly motivated individual with a background in molecular and cell biology is desired. All necessary training will be provided.

Please send your curriculum vitae, and contact information for at least two references to :

#### Frank Meyskens, M.D.

Professor of Medicine and Biological Chemistry  
Director, Chao Family Comprehensive Cancer Center  
Senior Associate Dean, Health Sciences College of Medicine  
University of California Irvine Medical Center  
101 The City Drive, Building 56, Room 216L  
Orange, California 92868  
Phone: (714) 456-6310  
Fax: (714) 456-2240  
Email: flmeyske@uci.edu

### Postdoctoral Position

A postdoctoral position available in the laboratory of Dr. Andrew Aplin in the Center for Cell Biology and Cancer Research at Albany Medical College, NY. Research will focus on the critical signaling proteins involved in anchorage-dependent cell growth of melanocytes and that may be aberrantly

regulated in melanoma cells. Further details and recent publications can be obtained at <http://www.amc.edu/academic/research/CBCResearcher.cfm?ID=170>

Albany Medical College is located in the scenic Hudson River Valley, offering affordable housing, easy commutes and quick access to cultural (e.g., Saratoga, 45 min; Tanglewood, 1 hr), and outdoor activities (Adirondack State Park, 2 hr).

Candidates with a recent PhD or MD/PhD with a strong background in molecular and cellular biology are encouraged to apply. Excellent financial compensation and benefits are provided. Please submit a resume and the names of references to:

Andrew E. Aplin, Ph.D.  
Center for Cell Biology & Cancer Research  
Albany Medical College,  
47 New Scotland Avenue  
Albany, NY 12208  
Email: aplina@mail.amc.edu

The Albany Medical College is an equal opportunity, Affirmative Action Employer

### Postdoctoral Position

A Postdoctoral Position is available to study the role of UV radiation in the development of primary melanoma. The project will use transgenic and pigment cell mutant mice and cell cultures to study molecular mechanisms of melanoma initiation and progression. A strong background in pigment cell biology, cellular mechanisms of toxicology, carcinogenesis, or molecular biology is desired. Send curriculum vitae, names of 3 references, and a brief summary of research interests to:

Faith M. Strickland, Ph.D.  
Dermatology Research 4D49  
Henry Ford Hospital  
One Ford Place  
Detroit, MI 48202  
E-mail: FSTRICK1@hfhs.org  
Phone: 313-874-3385  
FAX: 313-874-3770.

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**Positions** (continued next page)

**Postdoctoral Research Associate**

Fox Chase Cancer Center.

Two NIH-funded postdoctoral positions are available to work on the development of neural crest-derived melanocytes and enteric neurons in mice. We are interested in the signals required for proper migration and differentiation of these lineages during mouse embryogenesis and use various genetic manipulation techniques and existing mutants for our studies. Fox Chase Cancer offers competitive salaries to its postdocs and was recently named one of the best

places to work for Postdocs (<http://www.fccc.edu/news/2003/Best-Places-for-Postdocs-02-20-2003.html>). Candidates with a recent PhD or MD/PhD with strong background in molecular biology, genetics or developmental biology are encouraged to apply. Please submit CV, and names of 3 references to:

Dr. Myung K. Shin  
Program in Cellular and Developmental Biology  
Fox Chase Cancer Center  
Philadelphia, PA 19111, USA  
Email: MK\_Shin@fccc.edu

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**SCIENTIFIC PROGRAM**  
for the  
**XXIX International Pigment Cell Conference**

**All Plenary Sessions will be held in the Grand Ballroom; Concurrent Sessions will be held in Meeting Rooms as noted in the Program.**

**Speakers should visit the Speaker Ready Room (South Lakes Room) at least 1 hr prior to the start of their session to ensure that their lectures are set up and functional; digital projection only will be used.**

**Posters will be displayed in the Grand Ballroom throughout the meeting; presenters should attend their posters during the coffee breaks each day as indicated in the program and during the Reception on Sept 20<sup>th</sup>.**

**Reston Suite B is available Monday - Thursday as a quiet work / meeting / interview area.**

**Sunrise Sessions each day will serve as informal introductions to the topics of the day presented by experts; continental breakfasts will be served during that time and all attendees are encouraged to attend.**

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**Sunday, September 18, 2005**

**Regional Society Council Meetings**

Breakfast for Council Members at 07:30 in Lake Thoreau Room

08:30 - 11:00

{ESPCR - Hunters Woods Room, PASPCR - North Point Room}

**IFPCS Council Meeting #1**

Lake Thoreau Room

11:30 - 14:00



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**Sunday, September 18, 2005** (*continued*)

**Plenary Symposium 1**      “**Advancing the Frontiers**”      14:30 - 17:45  
{Grand Ballroom}      chairs - **García-Borrón JC** {*President, ESPCR*}, **Pawelek JM** {*President, PASPCR*} and **Shibahara S** {*President, JSPCR*}

*Welcoming Comments*

*Keynote Lecture* “Genomics and Disorders of Human Pigmentation” **Collins FS**, National Human Genome Research Institute

*Keynote Lecture* “Telomeres, Telomerase, Senescence and Cancer” **Blackburn EH**, University of California, San Francisco

**Break**      16:30 - 17:00

*Keynote Lecture* “Frontiers in Fluorescent Protein Imaging of Living Cells” **Lippincott-Schwartz J**, National Institute of Child Health and Human Development

**Plenary Symposium 2**      “**Hot Topics Symposium**”      17:45 - 19:00  
{Grand Ballroom}      chairs - **Ito S** {*Organizer, 17<sup>th</sup> IPCC*}, **Pavel S** {*Organizer, 18<sup>th</sup> IPCC*} and **Hearing VJ** {*Organizer, 19<sup>th</sup> IPCC*}

“Identification and Characterization of the Zebrafish *Golden Gene*” **Canfield VA**, Lamason RL, Mohideen M-APK, Mest J, Wong AC, Aros MC, Sinha S, Mangini NJ, Humphreville VR, Humbert JE, Ning G, Makalowska I, Moore JL, Grunwald DJ and Cheng KC

“Mechanisms of Hair Graying: Incomplete Self-Maintenance of Melanocyte Stem Cells in the Niche” **Nishimura EK**, Granter SR and Fisher DE

“Rab27A-Binding Protein Slp2-a is Required for Peripheral Melanosome Distribution and Elongated Cell Shape in Melanocytes” **Fukuda M** and Kuroda TS

“Sparc Represses E-Cadherin and Induces Mesenchymal Transition during Melanoma Development” **Robert G**, Gaggioli C, Bailet O, Abbe P, Ortonne JP, Ballotti R and Tartare-Deckert S

“Melanoma Stem Cells” **Grichnik JM** and Burch JA

**Welcoming Reception**      {Regency Ballroom A / B and Terrace}      19:00 - 21:00

**Monday, September 19, 2005**

- Continental Breakfast** (Grand Ballroom & Foyer) 07:00 - 08:00
- Sunrise Session 1 “Developmental Biology of Melanocytes”** 07:30 - 08:30  
{Grand Ballroom} presented by **Delmas V** and **Kunisada T**
- Plenary Symposium 3 “Developmental Biology 1” Melanoblast / RPE - Specification,** 08:30 - 10:30  
{Grand Ballroom} **Development, Survival and Apoptosis (Waardenburg syndrome, (Tietz syndrome)**  
chairs - **Kelsh RN, Kos L** and **Yoshida H**
- Plenary Lecture* “Emergence and Maintenance of the Melanocyte Phenotype During Development; The Role of Neural Crest Stem Cells” **Dupin E**, Real C and Le Douarin N
- Plenary Lecture* “The Role of MITF in Pigment Cell Development” **Arnheiter H**, Bismuth K, Hallsson J, Murakami H, Skuntz S, Bertuzzi S, Bharty K, Liu W, Steingrimsson E, Copeland NG and Jenkins NA
- “Antagonism of *mitfa* by *foxd3* during Zebrafish Neural Crest Cell Fate Specification” **Lister JA**, Miller-Messner G, Cooper C, Nguyen K, Modrell M and Raible DW
- “In Vivo Role of Serine 73 Phosphorylation of the Pigment Cell Transcription Factor Mitf” **Bismuth K**, Hallsson JH, Skuntz S, Copeland NG, Jenkins NA, Steingrimsson E and Arnheiter H
- “Sox10 Regulates the Endothelin Receptor Type B Gene Through the Two Alternative Promoters” **Yokoyama S**, Takeda K and Shibahara S
- “Transgenic Expression of Ednrb Rescues the Spotting Phenotype of Sox10 Mutant Mice” **Lowenstein MK**, Ittah A, Gerzenstein S and Kos L
- Break** (**Poster Authors - Even Numbers**) 10:30 - 11:00
- Plenary Symposium 4 “Evolution and Development of the Pigmentary System”** 11:00 - 13:00  
{Grand Ballroom} chairs - **Hirobe T, Morrison RL** and **Wehrle-Haller B**
- Keynote Lecture* “**The Aaron B. Lerner Lecture** - Genetics of Melanocortin Signaling: Barking up a New Tree” Kerns JA, Candille SI, Berryere TG, Cargill EJ, Murphy KE, Schmutz SM and **Barsh GS** Stanford University School of Medicine
- Keynote Lecture* “Gene Expression Analysis of Melanocyte Stem Cells in the Niche” **Nishikawa S**, Moriyama M, Mak S, Rasmus F, Egawa G and Osawa M, Riken Center for Developmental Biology
- Keynote Lecture* “**The Makoto Seiji Lecture** - Twist in the Mitf Story Learned from the Shout of Black-Eyed White Mice” **Shibahara S**, Takeda K, Yokoyama S and Yamamoto H, Tohoku University
- Lunch** (PCR Editor’s Meeting - Lake Thoreau Room) 13:00 - 14:30

**Plenary Symposium 5 “Developmental Biology 2” Melanoblast / RPE - Migration, 14:30 - 16:30**

{Grand Ballroom} **Localization and Proliferation (Hirschsprung disease, Piebaldism)**  
chairs - **Beermann F, Hornyak TJ and Yamamoto H**

*Plenary Lecture* “ $\beta$ -Catenin Inhibits Melanocyte Growth and Senescence by Up-Regulating Mitf and Repressing p16<sup>Ink4A</sup> Expression” **Delmas V, Martinuzzi S, Carreira S, Kumasaka M, Denat L, Goodall J, Demirkan N, Ballotti R, Goding CR and Larue L**

*Plenary Lecture* “Genetic Analysis of Neural Crest Development” **Pavan WJ**

“Signals Regulating Development of Melanocyte Stem Cells and Their Effect on Microphthalmia-Associated Transcription Factor” **Kurita K, Aoki H, Motohashi T, Yamazaki H and Kunisada T**

“Amount of Edn3 is the Limiting Factor for Normal Melanocyte Development” **Mirabal S, Ittah A, Garcia R and Kos L**

“The Requirement for *Adamts20* in Neural Crest Derived Melanocyte Development in Belted Mice” **Silver DL, Hou L and Pavan WJ**

“The Role of ErbB3 in Melanocyte Development” **Fernandez I, Perera EM and Kos L**

**Break (Poster Authors - Odd Numbers) 16:30 - 17:00**

**Concurrent Session 1 “Genetics of Pigmentation” 17:00 - 19:00**

{Grand Ballroom} chairs - **Brilliant MH, Jackson IJ and Sturm RA**

“The Genetics of Hermansky-Pudlak Syndrome” **Huizing M, Hess R, Helip-Wooley A, Westbroek W and Gahl WA** Commo S, Gaillard O, Thibaut S and Bernard B

“High Frequency of Hermansky-Pudlak Syndrome Type1 (HPS1) Among Japanese Albinism Patients and Functional Analysis of the Mutant Protein” **Suzuki T, Ito S, Inagaki K, Suzuki N, Spritz RA and Tomita Y**

“BLOC3 Affects the Cytoskeleton of the Secretory Pathway” **Chiang P-W, Bennett DC and Spritz RA**

“Controlling for Genetic Ancestry When Identifying Pigmentary Genes in Admixed Populations” **Bonilla C, Hernandez W, Hooker S, Nigam N, Bonaventura B, Brown T, Dios S, Norton H, Parra E, Shriver M and Kittles R**

“The MATP Gene and Normal Human Pigmentation Variation” **Graf JT, Hodgson R and van Daal A**

“Mice Mutant for an *Attractin*-Related Gene have *Attractin*-Like Phenotypes” **Cota CD, Vencato D, Tsukamoto R and Walker WP and Gunn TM**

“Characterization of Genes Involved in Melanogenic Coat Color Variation in the Domestic Cat (*Felis catus*)” **Schmidt-Küntzel A, Eizirik E, O’Brien SJ and Menotti-Raymond M**

“Effects of Interaction of Mc1r, Tyrp1, Agouti and Mlph Genotypes on the Phenotypes of Dogs, such as Chinese Shar-Pei” **Berryere, TG, Ute P, Tosso L and Schmutz SM**

**Concurrent Session 2 “Biochemistry of Melanogenesis” 17:00 - 19:00**

{Regency Ballroom A} chairs - **Ando H, Petrescu SM and Fuller BB**

“The Expression of Melanin-Related Gene in Cultured Human Adult Retinal Pigment Epithelial Cells” **Lu F, Zhou XT, Qu J and Hu DN**

- “Hypopigmented Properties of Epicatechin-Cysteamine, Hypoxosides and Gypenosides” **Solano F**, Gómez D, Mayordomo L and Benaiges A
- “Absence of TRP2 in Human Hair Follicle Melanocytes” **Commo S**, Gaillard O, Thibaut S and Bernard B
- “Intracellular Fatty Acids Affect the Processing and Function of Tyrosinase Through the Ubiquitin-Proteasome Pathway” **Ando H**, Wen Z, Kim HY, Valencia JC, Costin GE, Watabe H, Yasumoto K, Niki Y, Kondoh H, Ichihashi M and Hearing VJ
- “L-Ferritin Down-Modulation in a Human Metastatic Melanoma Cell Line Generates Depigmentation by Influencing Tyrosinase Maturation” **Maresca V**, Flori E, Cardinali G, Briganti S, Lombardi D, Mileo AM, Paggi MG and Picardo M
- “Functional HPA Axis Homolog is Expressed by Melanocytes” **Slominski A**, Zbytek B, Zmijewski M and Wortsman J
- “A Novel 43 kDa Protein as a Negative Regulatory Component of Phenoloxidase-Induced Melanin Synthesis” Zhao M, Söderhäll I, Park JW, Ma YG, Osaki T, Ha CH, Wu CF, Söderhäll K and **Lee BL**
- “Down-Regulated Melanogenic Paracrine Cytokine Linkages in Hypopigmented Palmoplantar Skin” **Hasegawa J**, Goto Y, Murata H, Takata M, Saida T and Imokawa G

**Concurrent Session 3**      **“Intracellular Signaling”**      17:00 - 19:00  
{Regency Ballroom B}      chairs - **Ballotti R**, **Oshima N** and **Park H-Y**

- “p38 Activation is Mainly Responsible for Increased Expression of c-KIT in UVB-Exposed Human Melanocytes” **Mizutani Y**, Hayashi N, Imokawa G and Kawashima M
- “Expression of MC1R317 and MC1R350 in Melanoma Cells, Normal Human Melanocytes and Skins of Various Pigmentation/Ethnic Origin upon Stimulation by AMSH/UVR” **Rouzaud F**, Costin GE, Yamaguchi Y, Valencia J, Berens W, Chen K, Hoashi T, Takahashi K, Abdel-Malek Z and Hearing V
- “UVA Irradiation Induces B-Catenin Degradation in Normal Human Melanocytes in a GSK-3B-Independent Manner” **Bellei B**, Hearing VJ and Picardo M
- “Mitf Interacts with B-Catenin and Directs B-Catenin Towards Mitf Specific Target Genes” **Schepsky A**, Goding CR, Steingrimsson E and Hecht A
- “Regulation of RKIP Expression in Melanoma Cell Lines” **Schuieler MM** and Bosserhoff A-K
- “Nitric Oxide Induces Detachment of Normal and Vitiliginous Human Melanocytes from Fibronectin: Possible Role of Cyclic GMP” **Ivanova K**, Wijngaard R, Gerzer R and Das PK
- “The Calcium/Calcineurin/NFAT Pathway in Melanocytes” **Smit N**, Sellar K, Miltenburg J, Romijn F, Pavel S and van Pelt J
- “Protease-Activated Receptor-2 Activating Peptides Mediate Skin Pigmentation and Induce Different Signal Transduction Pathways” Lin CB, Scarpa R, Chen N, Babiarz-Magee L, Kizoulis M, Shapiro S and **Seiberg M**

**Concurrent Session 4**      **“Innovative Technology”**      17:00 - 18:00  
{Lake Fairfax}      chairs - **Grammatico P**, **Kobayashi T** and **Seiberg M**

- “A Comparative Study of Epidermal Cell Transfer Technique (ECTT), A New Innovative Method of Vitiligo Surgery Versus Split Thickness Skin Grafts: - Report of 65 Cases” **Kachhawa D**
- “Clathrin-Independent Pathway for Internalizing c-Kit That Remains Active in Endocytic Vesicles” **Kobayashi T**, Takeda Y, Tanaka M, Yoshimura A, Kusumi A and Sokabe M

“Spatiotemporal Gene Control by the Cre-ERT2 System in Melanocytes” **Yajima I**, Bourgeois Y, Belloir E, Delmas V and Larue L

“Documentation of Melasma Lesions: A Comprehensive Approach” Ruvolo E, **Kollias N**, Stamatas G, Khopkar U, Thomas S and Bhide V

**Concurrent Session 5**      **“Melanosome Structure and Function”**      18:00 - 19:00  
{Lake Fairfax}      chairs - **Borovansky J, Kidson SH and Setaluri V**

“Dopamine Transporter Co-Localizes in Melanosomes: A Possible Role of Tyrosinase in Protection Against Dopamine-Induced Cytotoxicity” **Matsunaga J**, Kusakari Y, Takeuchi I, Sasaki Y, Ando H, Kobayashi N, Yamamoto A, Tatsumi K, Hearing VJ, Tagami H and Aiba S

“Analysis of Melanosome Transfer to Keratinocytes Using a Human Skin Substitute Model Composed of Cells Derived from Different Skin Pigmentation Types” **Yoshida Y**, Hachiya A, Sriwiriyanont P, Ohuchi A, Kitahara T, Takema Y, Visscher MO and Boissy RE

“Unraveling Lysosome-Related Organelle Biogenesis Through the Cell Biology of Hermansky-Pudlak Syndrome” **Helip-Wooley A**, Dorward H, Westbroek W, Hess R, Boissy RE, Huizing M and Gahl WA

“Novel Protein-Protein Interactions in TRP1 Sorting: Implication for Melanosome Biogenesis “ **Kedlaya RK**, Bhat KMR and Setaluri V

**Workshop**      **“Genetics and Developmental Biology”**      {dinner available}      19:00 - 21:00  
(Regency Ballroom A)      (chairs - **Kelsh RN, Pavan WJ and Yamamoto H**)  
(co-sponsored by the Genetics and Developmental Biology IFPCS Special Interest Groups)

## Tuesday, September 20, 2005

**Continental Breakfast**      (Grand Ballroom & Foyer)      07:00 - 08:00

**Sunrise Session 2**      **“Differentiated Functions of Melanocytes”**      07:30 - 08:30  
{Grand Ballroom}      presented by **Gahl WA** and **Petrescu S**

**Plenary Symposium 6“Differentiated Functions 1” Differentiated Functions of**      08:30 - 10:30  
{Grand Ballroom}      **Melanocytes / Melanophores (Oculocutaneous albinism)**  
chairs - **King RA, Solano F and Tsukamoto K**  
{supported in part by the National Organization for Albinism & Hypopigmentation}

*Plenary Lecture* “Oculocutaneous Albinism Type 4 is One of the Most Common Types of Albinism in Japan” **Tomita Y** and Suzuki T

*Plenary Lecture* “Melanogenesis Cascade and Biology of Normal and Abnormal Pigmentation” **Jimbow K**, Yamashita T, Hirotsaki K, Shinoda K, Kamada A, Endo M, Tominaga A, Inoue H and Hida T

“Gene Polymorphism and Human Pigmentation” **Brilliant MH**, Walsh JB, Henderson MS, Kim MH, Garrison NA, Kelch JT, Smith DK, Metelits BS, Meaney FJ, Wakamatsu K and Ito S



“Molecular Mechanisms of the Abnormal Pigmentation Generated by Truncation of the C-Terminal and Transmembrane Domain of Tyrosinase in Oculocutaneous Albinism” Popescu CI, Paduraru C, Dwek R and **Petrescu SM**

“Eumelanin/Pheomelanin Synthesis is Affected by Mutations in the Mouse *Dct* Gene Without Altering the Intracellular Trafficking of Melanogenic Proteins” **Costin GE**, Valencia JC, Wakamatsu K, Ito S, Solano F, Milac AL, Rouzaud F, Vieira WD, Yamaguchi Y, Petrescu AJ, Lamoreux ML and Hearing VJ

“Gene Expression Profile Analysis in Normal Retinal Development in Mammals: A Comparative Approach Between Albino and Pigmented Animals” **Montoliu L**, Lavado A, Rodriguez J, Pascual A, Cantero M, Galan J and Malumbres M

**Break** (Poster Authors - ‘A’ through ‘M’) 10:30 - 11:00

**Plenary Symposium 7 “Differentiated Functions #2” Melanosome Biogenesis, Motility and Transfer (Hermansky Pudlak syndrome, Griscelli syndrome, Chediak Higashi syndrome)** 11:00- 13:00  
{Grand Ballroom}

chairs - **Akiyama T** and **Lambert J**

{supported in part by the Hermansky-Pudlak Syndrome Network}

*Plenary Lecture* “Melanosome Motility: Molecular Mechanisms and Associated Diseases” **Seabra MC**

*Plenary Lecture* “Novel Genes and Proteins Regulate Melanosomes and Other Lysosome-Related Organelles” **Swank RT**

“Potential Role for *dsu* as a Regulator of Membrane Fusion in Melanosome Biogenesis” **Rachel RA**, Copeland NG and Jenkins NA

“MART-1 is Required for the Maturation of Melanosomes” **Hoashi T**, Watabe H, Muller J, Yamaguchi Y, Vieira WD and Hearing VJ

“Genetic Analyses of the Interaction of Protein Complexes that Regulate Lysosome Related Organelles” **Gautam R**, Novak EK, Tan J, Chintala S, Dell’ Angelica EC and Swank RT

“*Slc7a11* Controls Production of Pheomelanin Pigment and Proliferation of Cultured Cells” **Chintala S**, Li W, Lamoreux ML, Ito S, Wakamatsu K, Sviderskaya EV, Bennett DC, Park YM, Gahl WA, Huizing M, Spritz RA, Ben S, Novak EK, Tan J and Swank RT

**Lunch (Women & Minority Scientists Forum) -** {lunch available} 13:00 - 14:30  
{Regency BallRoom A}

chaired by **Grammatico P**, **Medrano EE** and **Oshima N**

**Plenary Symposium 8 “Regulation of Pigmentation” Regulation of Melanocyte /** 14:30 - 16:30  
{Grand Ballroom} **Melanophore Function (constitutive pigmentation/ environmental responses)**

chairs - **Funasaka Y**, **Jiménez-Cervantes C** and **Niles RM**

{supported in part by Johnson & Johnson}

*Plenary Lecture* “Defining the Role of Melanocortins and the Melanocortin 1 Receptor in Preserving Human Melanocyte Survival and Genomic Stability” **Abdel-Malek ZA**, Kadekara AL, Kavanaugh R, Terzieva S and Hauser J

*Plenary Lecture* “Transcription and Signaling in Melanocytes and Melanoma” **Goding CR**

“Upstream Stimulating Factor-1 (USF-1) A Potent Stress-Response Transcription Factor” **Galibert MD**, Corre S and Primot A

“Genetic Models of Human MC1R Variant Receptor Alleles for Pigmentation Phenotype and Cellular Function in Signal Transduction” Beaumont KA, Newton RA, Smit DJ, Stow JL, Leonard JH and **Sturm RA**

“Melanocortin 1 Receptor Dimerization: Functional Consequences and Dominant-Negative Effects” **García-Borrón JC**, Sánchez-Laorden BL, Sánchez-Más J and Jiménez-Cervantes C

“Sorting and Trafficking of Pmel17 (gp100): Evidence for the Polarized Nature of Melanocytes” **Valencia JC**, Watabe H, Chi A, Rouzaud F, Chen KG, Vieira WD, Takahashi K, Yamaguchi Y, Berens W, Shabanowitz J, Hunt DF, Appella E and Hearing VJ

**Break** (Poster Authors - ‘N’ through ‘Z’) 16:30 - 17:00

**Concurrent Session 6** “Comparative Biology” 17:00 - 18:00

{Grand Ballroom} chairs - **Matsumoto J**, **Schartl M** and **Sugumaran M**

“Diversification of Melanin Pigmentation Caused by Transposable Element in Medaka Fish” **Koga A**

“The Xmrk (*Xiphophorus* Melanoma Receptor Kinase) is Sufficient for Induction of Melanocyte Migration” Meierjohann S, Wende E, Papp M, Wolf K, Friedl P and **Schartl M**

“Co-Purification of Dopachrome Isomerase and Quinone Isomerase Isolated from *Calliphora*” **Sugumaran M** and Nellaippan K

“A Search for Genetic Determinants of Color Variability in the Panther Chameleon” **Morrison RL** and Pavan WJ

**Concurrent Session 7** “Chemistry & Physics of Melanins” 17:00 - 18:00

{Regency Ballroom A} chairs - **Farmer PJ**, **Napolitano A** and **Wakamatsu K**

“Morphology and Photoionization Potentials of RPE Melanosomes and Ocular Lipofuscin Granules” **Hong L**, Gargulio J, Edwards GS, Nemanich RJ and Simon JD

“Oxidation Chemistry of 5,6-Dihydroxyindole Dimers: A Pulse Radiolysis Investigation of (Semi)Quinone Intermediates and Isolation of New Tetramers” **Pezzella A**, Panzella L, Napolitano A, d’Ischia M and Land EJ

“Benzothiazolecarboxylic Acid (BTCA) vs. Thiazole Tricarboxylic Acid (TTCA) as Specific Pheomelanin Markers: Relationship with Skin Phototype and UV Sensitivity” **Napolitano A**, Manini P, Panzella L, Prizio E, Procaccini EM, Monfrecola G and d’Ischia M

“Diversity of Pigmentation in Cultured Human Melanocytes is Due to Differences in the Quality as Well as Quantity of Melanin” Wakamatsu K, Kavanagh R, Abdel-Malek Z and **Ito S**

**Concurrent Session 8** “Photobiology” 17:00 - 18:00

{Regency Ballroom B} chairs - **Böhm M**, **Hill HZ** and **Parsons PG**

“Molecular Responses of Normal Human Caucasian Melanocytes in Culture Exposed to Simulated Solar UV” **Marrot L**, Belaïdi J-P, Jones C, Perez P and Meunier J-R

“Human Skin Responses to UV Radiation: Pigment in the Upper Epidermis Protects Against DNA Damage in the Lower Epidermis and Facilitates Apoptosis” **Yamaguchi Y**, Takahashi K, Tadokoro T, Zmudzka BZ, Kornhauser A, Miller SA, Berens W, Beer JZ and Hearing VJ

“Involvement of Pheomelanin in the Integrity of Gap Junctions Intercellular Communication in Cultured Epidermal Cells Following UVA Exposure” **Briganti S**, Ale-Agha N, Cardinali G, Stahl W and Picardo M

“Pigmentation Mechanisms Induced by Different Wavelength of UV Light” Schlenz K, Smuda C, Batzer J, Stäb F, Wenck H, Elsaesser H-P and **Wolber R**

**Concurrent Session 9**      **“Melanoma: Clinical Research”**      17:00 - 18:00

{Lake Fairfax}      chairs - **Leachman SA**, **Nakayama J** and **Picardo M**

“Excessive Cancer Risk and Uptake of Genetic Testing in Dutch Melanoma Families” de Snoo F, Bishop T, Riedijk S, van Mil A, van Haeringen A, ter Huurne J, van der Drift C, van Leeuwen I, Out C, van Nieuwpoort F, Tibben A, Willemze R, Frants R, Breuning M, Bergman W and **Gruis N**

“Val92Met of *MC1R* is Highly Associated with Japanese Non-Acral Melanoma” **Inoue H**, Yamashita T, Jin H-Y, Sakauchi F, Kageshita T, Takata M, Saida T and Jimbow K

“Spitz Tumors are Distinct Melanocytic Neoplasms” Lee DA, Cohen J, Gill M, Mones J, Busam K, Silvers DN and **Celebi JT**

“Synergistic Cytotoxicity of Arsenic Trioxide with Disulfiram or BSO on Drug Resistant Melanoma Cells” **Fruehauf JP**, Gong YF, Griffin MJ, Tran A and Meyskens FL

**Poster Session - Wine & Cheese**      (ALL Authors)      18:00 - 19:00

{Grand Ballroom - Poster area}

{supported in part by Blackwell Munksgaard Intl Publishing}

## Wednesday, September 21, 2005

**Continental Breakfast**      (Grand Ballroom & Foyer)      07:00 - 08:00

**Sunrise Session 3**      **“Pigmentary Disorders”**      07:30 - 08:30

{Grand Ballroom}      presented by **Manga P** and **Urabe K**

**Plenary Symposium 9**      **“Pigmentary Disorders #1” Disorders of Hypopigmentation** 08:30 - 10:30

{Grand Ballroom}      **(Congenital and Acquired Hypomelanoses, Vitiligo)**

chairs - **Bologna JL**, **Parsad D**, and **Taieb A**

{supported in part by the American Skin Association}

*Plenary Lecture* “On the Pathophysiology of Contact/Occupational Vitiligo” **Boissy RE**, Manga P, Le Poole IC, Yang F and Park C-J

*Plenary Lecture* “The Genetics of Vitiligo” **Spritz RA**

“Functional Index of the Mitochondrial Impairment in PBMC from Vitiligo Patients” Dell’Anna ML, Ottaviani M, Kovacs D, Albanesi V, Vidolin PA, Leone G, Rossi L and **Picardo M**

“Vitiligo-Derived T Cells Kill Melanocytes Within the Skin Tissue in situ” **Luiten RM**, van den Boorn JG, Kingswijk M, DelleMijn TAM, Bos J, van der Veen JPW, Westerhof W, Melief C and Vyth-Dreese F

“Stem Cell Factor Combined with Matrix Proteins Plays an Important Role in the Migration of Melanocytes from Human Hair Follicles” **Zhu W-Y**, Wang D-G, Ma H-J, Li C-R and Yue X-Z

“Oxidative Stress and Regulation of the Microphthalmia-Associated Transcription Factor in Response to 4-Tert-Butylphenol: Implications for Vitiligo” **Manga P** and Boissy RE

**Break**

10:30 - 11:00

**Plenary Symposium 10 “Pigmentary Disorders #2” Disorders of Hyperpigmentation** 11:00 - 13:00

{Grand Ballroom}

**(Congenital and Acquired Hypermelanoses)**

chairs - **Huizing M**, **Kawa Y** and **Riley PA**

{supported in part by L’Oreal}

*Plenary Lecture* “Paracrine Cytokine Mechanisms in UVB-Melanosis and Lentigo Senilis” **Imokawa G**

*Plenary Lecture* “Acquired Symmetrical Dermal Melanocytosis (Nevus of Hori) and Its Etiological Aspects” **Mizoguchi M**

“Gene Expression Profiling of the Pigment Spots Formation Model” **Aoki H** and Moro O

“Mutation Analysis of the *ADARI* Gene in Dyschromatosis Symmetrica Hereditaria and Genetic Differentiation from both Dyschromatosis Universalis Hereditaria and Acropigmentatio Reticularis” **Kono M**, Suzuki T, Suzuki N, Inagaki K, Ito S and Tomita Y

“Endothelin 3 Induces Skin Pigmentation in an Inducible Mouse Model” **Garcia RJ**, Ittah A, Mirabal S, Lopez L and Kos L

“Increased Pigmentation Gene Expression in Kit Positive Nf1<sup>+/-</sup> Melanocytes” **Diwakar G**, Zhang D and Hornyak T

**Lunch**

(20<sup>th</sup> IPCC Program Committee Meeting - Lake Thoreau Room)

13:00 - 14:30

**Concurrent Symposium 10 “Photobiology” (Photoprotection/Photocarcinogenesis)** 14:30 - 16:30

{Grand Ballroom}

chairs - **Ghanem G**, **Nishigori C** and **Noonan FP**

{supported in part by the Food & Drug Administration}

*Plenary Lecture* “Modeling UV-Initiated Melanoma in the Mouse” **Merlino G**, Poetschke-Klug H, Recio J, Ichikawa T, Zaidi MR, DeFabo E and Noonan F

*Plenary Lecture* “Skin Type Dependent Adaptive Responses to UVR Exposure” **Young AR**

“The *MC1R* Gene Links the Response to Melanocortins to the DNA Damage Response of Melanocytes” **Kadekaro AL**, Abdel-Malek ZA, Terzieva S, Kavanagh R, Hauser J, Manga P, Schwemberger S, Babcock G, Wakamatsu K, Ito S, Sturm R and Leachman S

“Melanin Content and the *MC1R* Genotype are Important Determinants of the Extent of UV-Induced DNA Damage in Human Melanocytes” **Hauser J**, Kadekaro AL, Kavanagh R, Terzieva S, Wakamatsu K, Ito S and Abdel-Malek ZA

“Deficient UV Induction of Melanoma in HGF/SF Transgenic Recessive Yellow (Mc1r<sup>e/e</sup>) Mice” **Noonan F**, Merlino G, Wolnicka-Glubisz A, Anver M and De Fabo E

“Mitochondrial Deletions Induced by FS20 Irradiation of Human Epithelial Cells” **Steinberg M**, Pierre Z, Liu S, Hwang B-J, Hill HZ, Hubbard H and Ji F

**Concurrent Symposium 11 “Extracutaneous Pigment, Neuromelanin”**

14:30 - 16:30

{Regency Ballroom A}

**(Ocular albinism, Parkinson’s disease)**chairs - **Hu D-N, Naoi M** and **Sarna T**

“Isolation, Cultivation and in vitro Study of Conjunctival Melanocytes with Comparison to Epidermal and Uveal Melanocytes” **Hu DN** and McCormick SA

“Melanogenesis and Melanosome Transport and Secretion in a CD83+ Teleost Leukocyte” **Haugarvoll E**, Thorsen J, Laane M, Huang O and Koppang EO

“Melanogenic Basis of Pigmentary Forms of Glaucoma” Petersen G, Trantow C, Mao M and **Anderson MG**

“Mechanism Underlying Cytotoxicity of Neuromelanin and Dopamine-Quinone: Involvement in Pathogenesis of Parkinson’s Disease” **Naoi M**, Maruyama W, Shamoto-Nagai M, Yi H and Zecca L

*Plenary Lecture* “Neuromelanin in Human Brain: Protective and Toxic Role” **Zecca L**, Bellei C, Giannelli S, Gallorini M, Fariello RG, Sulzer D and Zucca FA

*Plenary Lecture* “The Ocular Albinism Type 1 (OA1) Protein: An Intracellular G Protein-Coupled Receptor Involved in Melanosome Biogenesis” **Schiaffino MV**, Innamorati G, Piccirillo R, Bagnato P and Palmisano I

**Concurrent Session 12 “Developmental Biology”**

14:30 - 16:30

{Lake Anne}

chairs - **Montoliu L, Nishimura EK** and **Shin MK**

“Elastin-Derived Peptide (VGVAPG) and Fibronectin Play Differential Roles in the Development of Melanocytes in Mouse Neural Crest Cells and in Neural Crest Derived Cell Lines” **Chang C-H**, Kawa Y, Tsai R-K, Watabe H, Soma Y and Mizoguchi M

“Pax3 Regulates Differentiation of Adult Melanocyte Stem Cells” **Lang D**, Lu MM, Huang L and Epstein JA

“Mitf in the Specification of Avian Melanoblasts” **Thomas A** and Erickson C

“Genetic Regulation of Iridophore Development” Müller J, Lopes SS and **Kelsh RN**

“Bone Morphogenetic Proteins are Required for RPE Development in the Vertebrate Eye” Müller F, Rohrer H and **Vogel-Höpker A**

“Retinal Pigment Epithelium (RPE) Specification and Development: The Role of *Microphthalmia (Mitf)* and *Vax* Transcription Factors” **Bertuzzi S**, Bharti K and Arnheiter H

“Hearing Dysfunction and Loss of Strial Melanocytes in *Mitf<sup>Mi<sup>wh</sup>/+</sup>* Mice, a Model for Human Waardenburg and Tietz Syndromes” Zhang D, Beyer L, Kabara L, Halsey K, Raphael Y, Dolan D and **Hornyak T**

“Hermansky-Pudlak *Pale Ear* and *Light Ear* Genes Regulate Interfollicular Melanocyte Development” Nguyen T and **Wei ML**

**Conference Tours and Banquet**

16:45 - 22:00

(busses depart at 16:45 from the front of the Hyatt Regency)



**Thursday, September 22, 2005**

<b>Continental Breakfast</b>	(Grand Ballroom & Foyer)	07:00 - 08:00
<b>Sunrise Session 4</b> {Grand Ballroom}	<b>“Malignant Transformation”</b> presented by <b>Fisher DE</b> and <b>Gruis N</b>	07:30 - 08:30
<b>Plenary Symposium 11 “Melanoma 1”</b> {Grand Ballroom}	<b>Senescence, Immortalization and Progression (Nevi, Melanoma)</b> chairs - <b>Bosserhoff A, Halaban R</b> and <b>Saida T</b> {supported in part by the Melanoma Research Foundation}	08:30-10:30
	<i>Plenary Lecture</i> “Biology of Melanoma Progression” <b>Herlyn M</b>	
	<i>Plenary Lecture</i> “Cellular Senescence and Chromatin Remodelers: Possible Mechanism-Based Therapeutics for Malignant Melanoma” <b>Medrano EE</b>	
	“Senescence of Human Melanoma Cells Following Activation of PKC and MAPK Pathways” Cozzi S- J, Boyle GM, Ogbourne S, Pedley J and <b>Parsons PG</b>	
	“The Cleavage of Microphthalmia Associated Transcription Factor Mitf by Caspases Plays an Essential Role in Melanocyte and Melanoma Cell Apoptosis” <b>Larribere L</b> , Hilmi C, Khaled M, Bille K, Ortonne JP, Ballotti R and Bertolotto C	
	“Stable Over-Expression of Smad7 in Human Melanoma Cells Inhibits Their Tumorigenicity in vitro and in vivo” Javelaud D, Delmas V, Möller M, Sextius P, Menashi S, Larue L and <b>Mauviel A</b>	
	“Further Development of Human Skin Xenografts Towards Modeling Melanoma” <b>Yoneta A</b> , McDaid R, Li L, Kazianis S and Herlyn M	
<b>Break</b>	<b>(Poster Presentations )</b>	10:30 - 11:00
<b>Plenary Symposium 12</b> {Grand Ballroom}	<b>“The Malignant Phenotype”</b> chairs - <b>Bennett DC</b> { <i>IFPCS President</i> }, <b>Abdel-Malek ZA</b> { <i>IFPCS Vice- President</i> } and <b>Tomita Y</b> { <i>IFPCS Secretary-Treasurer</i> }	11:00 - 13:00
	<i>Keynote Lecture</i> “Skin Colour and Susceptibility to Ultraviolet Radiation” <b>Rees JL</b> , University of Edinburgh	
	<i>Keynote Lecture</i> “ <b>The IFPCS Presidential Lecture</b> - The Genetics of Melanoma Development” <b>Bennett DC</b> , MacKenzie Ross AD, Gray-Schopfer VC, Sviderskaya EV, Chow J, Chong H, Powell B and Cook MG, University of London	
	<i>Keynote Lecture</i> “Molecular Mechanisms of Invasion and Metastasis” <b>Weinberg RA</b> , Whitehead Institute for Biomedical Research	
<b>Lunch</b>	(IFPCS Council Meeting #2 - Lake Thoreau Room)	13:00 - 14:30

**Plenary Symposium 13 “Melanoma 2” Genetics, Susceptibility, Epidemiology, Etiology 14:30-16:30**  
{Grand Ballroom} **and Therapy (Melanoma)**

chairs - **Kikuchi K, MacNeil S and Meyskens FL**

*Plenary Lecture* “Genomics and Genetics of Melanoma” **Chin L**

*Plenary Lecture* “Mechanisms of B-RAF Mediated Oncogenesis in Melanoma” **Marais R**

“The Pathogenesis of Human Melanoma is a Redox-Driven/Regulated Process: Etiologic, Preventative and Therapeutic Implications” **Meyskens FL**, Farmer P, Yang S, Gidanian S, Anton-Culver H, Mohrenweiser H, Fruehauf J, McNulty S and Shahandeh B

“Alterations in the Expression of the Apurinic/Apyrimidinic Endonuclease-1/Redox Factor-1 (APE/Ref-1) in Human Melanoma and Identification of the Therapeutic Potential of Resveratrol as an APE/Ref-1 Inhibitor” **Yang S**, Irani K, Heffron SE, Jurnak F and Meyskens FL

“Development of Individualized Immunotherapy by Intratumoral Injection of Dendritic Cells Based on the Immunological Analysis of the Melanoma Antigens Identified by Various Methods” **Kawakami Y**, Fujita T, Matsuzaki Y, Sakurai T, Tsukamoto M, Sumimoto H, Hasegawa G and Udagawa M

“Multiple Metastatic Melanoma Induced by Neonatal Ultraviolet Radiation Treatment of Cdk4<sup>R24C/R24C</sup>/TPras Mice” **Hacker E**, Irwin N, Pavey S, Muller K, Broome-Powell M, Barbacid M, Malumbres M, Kay G, Hayward N and Walker G

**Break** (Poster Presentations) 16:30 - 17:00

**Concurrent Session 13 “Melanoma: Basic Research”** 17:00 - 19:00

{Grand Ballroom} chairs - **Strickland F, Kageshita T and Wellbrock C**

“Role of Nuclear Receptors (RXR $\alpha$ , VDR and PPARs) in a Carcinoma and Melanoma Mouse Model” **Indra AK**, Castaneda E, Antal C, Messaddeq N, Metzger D and Chambon P

“A New Melanoma Antigen FABP7 Identified by DNA Chip was Involved in Cell Proliferation and Migration” **Matsuzaki Y**, Goto Y, Kurihara S, Shimizu A, Aburatani H, Saida T and Kawakami Y

“Aberrant Expression of Metabotropic Glutamate Receptor 1 (Grm1) in Human Melanoma” **Namkoong J**, Marin YE, Goydos JS, Reuhl KR and Chen S

“ $\alpha$ -Melanotropin Peptide-Targeted Melanoma Radioimaging and Therapy” **Miao Y** and Quinn TP

“Oncogenic Potential of GRM1 in Melanocyte Transformation” **Shin S-S** and Chen S

“Tyrosinase-N-Ras<sup>Q61K</sup> Transgenic Mice: A Novel Mouse Model for Metastasizing Melanoma” Ackermann J, Fruttschi M, Kaloulis K, McKee T, Trumpf A and **Beermann F**

“Expression of *Hugl-1* is Strongly Reduced in Malignant Melanoma” Kuphal S, Wallner S, Schimanski CC, Bataille F, Hofer P, Strand S, Strand D and **Bosserhoff AK**

“Skp2 Mediates BRAF<sup>V600E</sup> and Cyclin D1-Dependent Regulation of p27<sup>Kip1</sup> Levels in Melanoma Cells” **Bhatt KV** and Aplin AE

**Concurrent Session 14 “Hypo- and Hyper- Pigmentation”** 17:00 - 19:00

{Regency Ballroom A} chairs - **De Schepper S, Ichihashi M and Nordlund JJ**

“Loss of Melanosome Transfer Accounts for Guttate Leucoderma in Darier’s Disease: Electron Microscopic Findings” **Goh BK**, Kumarasinghe P and Lee YS

- “Identification of Interaction Partners of Hermansky Pudlak Proteins” **Westbroek W**, Helip-Wooley A, Dorward H, Hess R, Tavernier J, Huizing M and Gahl WA
- “Enzymatic Analysis of Reduced Levels of Glutathione Contributing to Oxidative Stress in Fowl Vitiligo” Ycaza JE and **Bowers RR**
- “Changes in Expression of Melanogenic Cytokines after Narrowband UV-B Therapy in Vitiligo Patients” **Kikuchi K**, Hoashi T, Takekoshi T, Komine M and Tamaki K
- “Synergistic Combinatorial Therapies for the Treatment of Vitiligo” **Ramaiah A**
- “A Randomized Controlled Trial of Levamisole in Limited, Slowly Spreading Vitiligo” **Ramam M**, Agarwal S, Sharma VK, Khandpur S, Pal H and Pandey RM
- “Practical Issues of Delivering Cultured Melanocytes to Vitiligo Patients” **Mac Neil S**, Eves P, Beck A, Gawrodger D and Shard A
- “Repigmentation in Vitiligo: An Organ Culture Investigation” **Dauids LM** and Kidson SH

**Concurrent Session 15**      **“Immunology”**      17:00 - 18:00  
{Regency Ballroom B}      chairs - **Das PK**, **Kawakami Y** and **Le Poole IC**

- “Characterization of Melanocyte Antigen-Reactive T Cells in Perilesional Vitiligo Skin” **Van Den Boorn JG**, Kingswijk M, Bos JD, Van Der Veen JPW, Westerhof W, Melief CJ and Luiten RM
- “Langerhans Cells Expressing B1,6-Branched Oligosaccharides are Enriched in Vitiligo Perilesional Skin” Le Poole IC, Denman C, Handerson T and **Pawelek JM**
- “Reduced Numbers of Regulatory T Cells are Observed in Vitiligo Skin” Wainwright D, Denman C, Robinson JK, Hernandez C and **Le Poole IC**
- “Differential Display of MHC Class I HLA-A2 Phosphorylated Peptides on Melanoma: Potential Candidates for Immunotherapy” **Hopkins LM**, Polefrone JM, Zarling AL, Evans AM, Shabanowitz J, Hunt DF and Engelhard VH

**Concurrent Session 16**      **“Extracutaneous Pigmentation”**      18:00 - 19:00  
{ Regency Ballroom B }      chairs - **Cicero R**, **Lu F** and **Oetting WS**

- “Melanin Biosynthesis Pathway is Functional in Fat Tissue Collected from Morbidly Obese Patients” Gowder SJ, Schlauch K, Van Meter A, Collantes R, Chandhoke V, Younossi ZM and **Baranova A**
- “Tyrosinase Exacerbates Dopamine Toxicity but is not Genetically Related to Parkinson’s Disease” **Greggio E**, Bergantino E, Carter D, Ahmad R, Costin GE, Hearing VJ, Clarimon J, Singleton A, Miller DW, Beilina A, Bubacco L and Cookson MR
- “The Melanogenic System of the Liver Pigmented Macrophages of *Rana Esculenta L*” **Gallone A**, Capozzi V, Sagliano A, Guida G, Maida I, Perna G, Zanna P and Cicero R
- “A Modern Imaging Investigation of Neuromelanin Extracted from the Substantia Nigra Region of the Human Brain” **Bush WD**, Simon JD, Zucca FA, Zecca L, Gargulio J, Nemanich RJ and Edwards G.

**Farewell Drink**      (Conservatory)      19:00 - 20:00

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**Poster Presentations**

Posters and Exhibits to be displayed in the Grand Ballroom; presenters should install their posters between 10:00 - 14:30 on Sunday, Sept 18<sup>th</sup> and remove them between 17:00 - 19:00 on Thursday, Sept 22<sup>nd</sup>.

Posters will be displayed in the Grand Ballroom throughout the meeting; presenters should attend their posters during the coffee breaks each day as indicated in the program and during the Reception on Sept 20<sup>th</sup>.

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**Biochemistry, Chemistry and Physics**

- “Development of a Protein-Chip Containing Mitf (Microphthalmia-Associated Transcription Factor) for Depigmenting Agent Screening” Kwak E, Han J, Shin J and **Kim E**
- “Perception of Skin Pigmentation: Melanin and Beyond” **Stamatas G** and Kollias N
- “Paracrine Cytokine Mechanisms Underlying Hyperpigmentation of Seborrheic Keratosis” **Takenaka Y**, Hayashi N, Mizutani Y, Kawashima M and Imokawa G
- “Characterization of the Pigment Included in Planarian, *Dugesia ryukyuensis*” **Hase S**, Wakamatsu K, Fujimoto K, Inaba A, Ito S, Sato Y, Kobayashi K, Matsumoto M, Hoshi M and Negishi S
- “Phosphorylation of the C-Terminal Thr308 and Ser316 Regulates the Functional Status of MC1R” **Jiménez-Cervantes C**, Sánchez-Laorden BL, Turpín MC and García-Borrón JC
- “UVB Induced Oxidation of Melanosomal Melanin and Effect of Heavy Metals” **Gidanian S**, Farmer PJ and Meyskens FL
- “Determination of Pigment Structures in Human Melanosis Urine by High-Performance Liquid Chromatography with Indirect UV Detection and Confirmation with Electrospray Ionization Ion-Trap Mass Spectrometry” **Nezirevic D**, Årstrand K, Wakamatsu K, Ito S and Kågedal B
- “Lipid Analysis of Ocular Melanosomes” **Ward W**, Garrett T and Simon JD

**Comparative Biology**

- “Cathepsin L2 Expression Levels Inversely Correlate with Skin Color” Chen N, Seiberg M and **Lin CB**
- “Melanopsin in Chicken Melanocytes and Retina” Lima LHRG, Isoldi MC, Scarparo AC, Visconti MA and **Castrucci AML**
- “Study on Expression of Visual Pigment Genes in Light-Sensitive Iridophores in the Dermis of Neon Tetra” **Kasai A** and Oshima N
- “Characterization of the Skin Tyrosinase from *Rana esculenta* L” **Zanna P**, Guida G, Maida I, Gallone A, Sagliano A and R. Cicero
- “Long-Term Chromatic Adaptation Influences Pigment Cells and Striped Patterns in the Skin of Zebrafish, *Danio rerio*” **Sugimoto M**, Miyakoshi T and Yuki M

**Developmental Biology**

- “Endothelin-1 Promotes the Adhesion and Chemotaxis of Amelanotic Melanocytes in Human Hair Outer Root Sheath on Extracellular Matrix Proteins by Modulating Reorganizations of Actin and Tubulin Cytoskeleton in vitro” **Ma HJ**, Wang DG, Yue XX, Li CR and Zhu WY
- “Developmental Changes in the Proliferative and Differentiative Activities of Epidermal Melanocytes from Slaty Mouse in Serum-Free Culture” **Hirobe T**, Wakamatsu K, Ito S, Kawa Y, Soma Y and Mizoguchi M

- “The Role of *Mitf* in Melanocyte Survival in Early Developmental Stages” **Kawa Y**, Nakamura M, Shibahara K, Lamoreux ML, Kawakami T, Watabe H, Kushimoto T, Mizoguchi M and Soma Y
- “Pax3 and Pax7 Proteins Expression Patterns in Early Trunk Neural Crest and its Melanocyte and Non-Melanocyte Lineages in Amniote Embryos” Lacosta AM, Muniesa P, Ruberte J, Sarasa M and **Domínguez L**
- “The Microphthalmia Associated Transcription Factor (*Mitf*) Plays a Critical Role in Melanocyte and Melanoma Cell Cycle Progression” **Carreira S**, Goodall J and Goding CR
- “Isolation, Optimization, and Characterization of Normal Human Epidermal Melanocytes” **Mayer RE**, Vasquez RN, Gupta SD, Roberts KN and Powers MJ
- “Characterization of Cells Produced by Immortal Neural Crest-Like Stem Cells” **Sviderskaya EV**, Atherton NA and Bennett DC
- “Characterisation of Immortal *Mitf*<sup>Mi-Vit</sup> Mutant Melanocytes” **Plowright L**, Lamoreux ML and Bennett DC
- “Expression Profile Analysis of Mouse Melanocyte Development and Function” **Matera I**, Loftus SK, Chen Y, Plowright L, Bennett DC and Pavan WJ
- “Waardenburg Syndrome Genes in Melanocyte Development: Functional Roles of Sox10 and *Mitf*” **Hou L**, Arnheiter H and Pavan WJ
- “Novel Approaches to Analyze Pigment-Cell Interactions” **Eakins G**, Jefferson B, Johnson W and Thibaudeau G
- “Transcriptional Regulation and Function of *Mitf* Isoforms in the Retinal Pigment Epithelium” **Bharti K**, Bertuzzi S, Csermely T, Pickel J and Arnheiter H
- “*Fms*, a Xanthophore-Specific Gene in *Ambystoma mexicanum*” **Jefferson L** and Thibaudeau G
- “Fate of Melanocytes in Early *Mitf*<sup>mbw0</sup> Mutant Embryos: Insights into the Role of *Mitf*-M during the Melanocyte Development” **Takemoto Y**, Fukuzaki U, Yoshida Y, Yajima I, Tsukiji N, Takeda K, Shibahara S and Yamamoto H
- “Further Study on the Culture of Amelanotic Melanocytes in Outer Root Sheath Derived from Human Hair Follicles” **Wang D-G**, Zhu W-Y, Ma H, Yue X-Z and Li C-R
- “Genetic Regulation of Pigment Cell Differentiation” **Greenhill ER**, Carney TJ and Kelsh RN
- “High Expression of ET3 is the First Step in Silky Chicken that Shows Heavy Pigmentation in Internal Organs” **Akiyama T**, Kayashima Y, Tamaki Y and Hashimoto K [
- “Foxd3 and c-Kit Signaling Interact to Regulate Melanogenesis of Zebrafish Neural Crest” **Cooper CD**, Linbo TH and Raible DW
- “Cation Channel TRPM7 is Necessary for Differentiation and Survival of Embryonic Melanophores in Zebrafish and is Expressed in Human Melanoma Cell Lines” **Cornell R**, Paulsen J and Hsu M-Y
- “*Mitf* Regulates Differentiation and Cell Proliferation of the RPE” **Tsukiji N**, Yajima I, Goding CR, Takeda K, Shibahara S and Yamamoto H

## Genetics

- “Second Hit Mutation Analysis in Melanocytes, Keratinocytes and Fibroblasts Obtained from NF1 Cafe-Au-Lait Spots” **De Schepper S**, Messiaen L, Boucneau J, Maertens O, Naeyaert J-M and Lambert J
- “Coat Color in Dogs : A Powerful Model for Mammalian Pigmentation” **Hédan B**, Corre S, Dréano S, Vilboux T, Denis B, Galibert F, Galibert MD and André C
- “A Brazilian Vitiligo Population for Family-Based Genetic Analysis” **Castro CS** and Mira MT
- “Identifying Regulatory Sequences of the Genes Whose Mutations Cause Hermansky Pudlak Syndrome” **Stanescu H**, Wolfsberg T, Westbroek W, Margulies EH, Helip-Wooley A, Huizing M and Gahl W



- “A Single Nucleotide Polymorphism in the Membrane Associated Transport Protein (MATP) Gene is Associated with Natural Colour Variation in Indian Skin” **Ginger RS**, Dadd T, Fereday A, Filsell W, Jarman C, Cox DR, Van Der Ouderaa F and Green MR
- “A Distal Regulatory Element Involved in the Regulation of *Tyrp1* Expression in Melanocytes” **Murisier F**, Guichard S and Beermann F
- “Reversion Mutation of Oculocutaneous Albinism to Wild-Type Pigmentation in Medaka Fish” **Iida A**, Hori H and Koga A
- “New Patients with Hermansky-Pudlak Syndrome Type 5 and Type 6” **Hess R**, Claassen D, White J, Gahl WA and Huizing M
- “Construction of *Mitf*-Cre Transgenic Mice” **Alizadeh A**, Fitch KR and Barsh GS
- “The Effect of *MC1R* on Growth and Carcass Traits in Beef Cattle” **McLean KL** and Schmutz SM
- “Multiplex Analysis of Melanocortin-1 Receptor Gene Variants Using Proteinase K Mediated Allele-Specific Extension” **Tuominen R**, Magnusson V, Källner M, Ahmadian A, Eghazi S, Lundeberg J and Hansson J
- “SNP Analysis of *MC1R* Gene in Japanese Individuals” **Motokawa T**, Kato T, Hashimoto Y and Katagiri T
- Hypo- and Hyper-Pigmentation**
- “Low-Energy Helium-Neon Laser Induces Repigmentation in Segmental-Type Vitiligo and Improves the Lesional Abnormalities of Cutaneous Microcirculation” **Wu C-S**, Chen G-S and Yu H-S
- “Culture of Melanocytes from Repigmenting Patches of Vitiligo Subjects and Their Sensitivity to Peroxidative Agent” **Kanwar AJ**
- “Changes in Responses of UVB Irradiated Skin of Brownish Guinea Pigs with Aging” **Tobiishi M**, Haratake A, Uchiwa H, Kaminaga H, Kawa Y and Mizoguchi M
- “T Cells from Autoimmune Vitiligo Skin Recognize and Kill Melanoma Cells” Le Poole IC, Denman C, Melief CJM, Das PK, **Westerhof W**, Nishimura MI and Luiten RM
- “Influence of Dead Deepidermized Dermis and Fibroblasts on Human Epidermal Pigmentation” **Carrio-André M**, Pain C, Casoli V and Taïeb A
- “European Vitiligo Task Force (EETF) Workshop Report: Inter-Observer Variability in the Clinical Assessment of Vitiligo Patients” **Taïeb A**, Pelicciotta M, Gauthier Y and Picardo M
- “Antioxidant Capacity and Oxidative Stress in the Local Environment of Feather-Melanocytes in Vitiliginous Smyth Line Chickens” **Erf GF**, Wijesekera HD, Lockhart BR and Golden AL
- “Melanocyte and Keratinocyte Co-Culture on Plasma Polymers for the Future Treatment of Vitiligo” **Eves P**, Beck A, Shard A, Gawrodger D and Mac Neil S
- “A Single Nucleotide Polymorphism in the Gene Encoding Lymphoid Protein Tyrosine Phosphatase (*PTPN22*) Confers Susceptibility to Generalised Vitiligo” Canton I, Akhtar S, Gavalas NG, **Gawkrodger DJ**, Watson PF, Weetman AP and Kemp EH
- “Human Reconstructed Partial and Full-Thickness Skin Models Containing Melanocytes for in vitro Studies of Skin Pigmentation” Kaluzhny Y, Kubilus J and **Klausner M**
- “Effects of Tacrolimus on Pigmentation of B16 Melanoma Cells” **Kang HY** and Choi YM
- “Effect of Bafilomycin A1 and Ammonium Chloride on Tyrosinase Trafficking in Human Oculocutaneous Albinism Type 2 (OCA2) Melanocytes” **Koshoffer A**, Boissy RE and Manga P
- “Total Melanin Content of Scalp Hair is Decreased in Childhood Malnutrition” **McKenzie CA**, Wakamatsu K, Ito S, Hanchard N and Forrester T
- “Vitamin D3 Suppresses Hepatocyte Growth Factor Up-Regulation in Neurofibromin Knockdown Fibroblasts” **Yamaguchi K**, Furumura M and Nakayama J

“The Clinical and Biochemical Effect of Shenzhequban Granule on Melasma and Melanogenesis” **Xiang Y** and Yang L

### **Innovative Technology**

“Treatment of 155 Patients with Pigmented Skin Lesions with Q-Switched Alexandrite Laser” **Kagami S**, Asahina A, Watanabe R, Mimura Y, Shirai A, Hattori N, Watanabe T and Tamaki K

“The Use of Autologous Human Serum in the Culture of Human Melanocytes” **Thng TG**, Goh CL, Tan SH, Khoo L, Tan A and Ng SW

“Mechanism of Tyrosinase Inhibition by Deoxyarbutin and Second Generation Derivatives” **Chawla S**, Delong MA, Visscher MO, Wickett RR and Boissy RE

“Quantification of UV-Induced Erythema and Pigmentation Using Computer Assisted Digital Image Evaluation (CADIE)” **Coelho SG**, Miller SA and Beer JZ

### **Intracellular Signaling**

“Immortalized Human Normal and Vitiligo Melanocyte Cell Lines Express Nitric Oxide-Sensitive Guanylyl Cyclase” **Das PK**, Le Poole IC, Gerzer R and Ivanova K

“Haginin A Decreases Melanin Synthesis via ERK Activation and Subsequent Mitf Degradation” **Kim JH**, Kim DH, Baek SH, Hwang JI, Chung DK, Kho YH and Lee CH

“Altered Gene Expression in Human Melanocytes by UV Radiation: Microarray Analysis” Abdel-Malek ZA, Kadarko AL, Sartor M, Tomlinson C, **Bissett D** and Supp D

“BMP-4 Reduces the Protein Levels of Trp-1 and Mart-1 in Cultured Human Melanocytes” Narang A, Stankiewicz M and **Park H-Y**

“The Effects of Inhibitors of Signaling Molecules on Melanocytes in Three-Dimensional Models Containing Melanocytes” **Komine M**, Kato E, Kikuchi K, Okochi H and Tamaki K

### **Melanoma - Basic Research**

“Prognostic Value of Gains at Short Arm of Chromosome 6 (6p) as Revealed by Comparative Genomic Hybridization (CGH) in Primary Cutaneous Malignant Melanoma” **Namiki T**, Yanagawa S, Izumo T, Ishikawa M, Tachibana M, Kawakami Y, Yokozeki H, Nishioka K and Kaneko Y

“Inhibition of Melanoma Cell Migration by PPAR Activators” **Grabacka M**, Plonka PM, Urbanska K and Reiss K

“The BRN-2 Transcription Factor Controls Melanoma Proliferation Through Repression of MITF” **Goodall J**, Carreira S, Roberts K, Larue L, Dexter T and Goding CR

“Enumeration of Total and Deleted Mitochondria in DNA from Skin Samples Adjacent to Human Melanomas” **Hill HZ**, Hubbard K, Steinberg M, Orlow I, Yoo D, Dermody J and Pogozeleski W

“Melanoma-Associated Proteases as Targets for Specific Drug Delivery” **Dierickx K**, Morandini R and Ghanem G

“Evaluation of Genetic Melanoma Vaccines in cdk4-Mutant Mice Provides Evidence for Immunological Tolerance against Autochthonous Melanomas in the Skin” Steitz J, Tormo D, Ferrer A, Büchs S, Huber C, Wölfel T, Barbacid M, Malumbres M and **Tüting T**

“Endothelin-1 Induces CXCL1 and CXCL8 Secretion in Human Melanoma Cells” Mangahas CR, De la Cruz GV, Friedman-Jiménez G and **Jamal S**

“The Effect of Oxygen Stress on Melanoma Viability” **Farmer PJ**, Shahandeh B, Pineles B, Williams D and Meyskens FL

“Induction of Apoptosis In Melanoma Cells by p53 Family Proteins” **Yamashita T**, Jin H-Y, Sasaki Y, Tokino T, Ono I and Jimbow K

“Does UV-B Induce MMP-2 & -9 in Choroidal Melanocytes and Choroidal Melanoma Cell Lines?” **Madigan MC**, Lai K, Di Girolamo N, Jager MJ and Conway RM

“Interaction of BRAF and BRAF<sup>v599e</sup> with HSP-90 and Modulation with the Geldanamycin

Analog 17-AAG” **Jiang S**, Kahn S, Trepel J, Neckers LM and Hornyak TJ

### Melanoma - Clinical Research

- “A New Paradigm for Melanoma” **Tuthill RJ**
- “Population-Based Prevalence of p16 Mutations in Utah Melanoma Families is Lower Than Expected” Eliason MJ, Larson A, Cannon-Albright LA, Florell SR, Zone J, Samlowski WE and **Leachman SA**
- “Human Melanoma at Different Stages of Progression in Reconstructed Skin Model” **Kaluzhny Y**, Sur G and Klausner M
- “Mutations of *PIK3CA* are Infrequent in Primary Melanoma” **Curtin JA**, Pinkel D and Bastian BC
- “The Prevalence of Melanocytic Nevus on Acral Volar Skin in the Japanese Population” **Kogushi H**, Kawasaki J, Kageshita T and Ishihara T
- “Familial and Multiple Primary Melanomas (MPM): Molecular Characterization of CDKN2A Gene in 150 Italian Pedigrees” Majore S, De Simone P, Binni F, Crisi A, Eibenschutz L, De Bernardo C, Catricalà C and **Grammatico P**
- “MITF-M Expression in Benign and Malignant Melanocytic Tumors” **Tsukamoto K**, Kitamura R, Shimada S, Oyama T and Imokawa G

### Melanosome Structure and Function

- “Different Approaches for Assaying Melanin Transfer” **Yoon TJ**, Berens W, Van Den Bossche K, Westbroek W, Valencia JC, Out CJ, Naeyaert JM, Hearing VJ and Lambert J
- “Dominant Negative Rab7 Differentiates Vesicular Transport of Tyrp1 from Other Melanosomal Proteins” **Hida T**, Yamashita T, Hirosaki K, Jin HY, Kokai Y, Bennett DC and Jimbow K
- “The Expression of Melanosome Associated Rabs are Up-Regulated in Melanocytes but Down-Regulated in Nevus Cells by MSH” **Kamo T**, Funasaka Y and Nishigori C

“Biochemical and Pathobiochemical Functions of Melanosomes” **Borovanský J**

### Photobiology

- “In Vivo and Ex Vivo Tanning Response Studies: Two Potent Molecular Models” **Corre S**, Mekideche K, Adamski H, Watier E and Galibert MD
- “Regulation of UV-Induced Apoptosis in Melanocytes by MITF” Guzmán EA, Tuchinda C, He H, Croxen A, Neville J, Hornyak TJ and **Strickland FM**
- “Evaluation of Two Tetrapeptide Analogs of  $\alpha$ -Melanocortin for Potential Use as Tanning and Photoprotective Agents” **Knittel J**, Koikov L, Todorovic A, Haskell-Luevano C, Kadekaro AL, Kavanagh R, Jackson P, Milhauser G and Abdel-Malek ZA
- “Oxidative Stress in ARPE-19 Cultures: Analysis of Melanosomes as a Cytoprotective Antioxidant” Zareba M, Raciti M, Henry MM, **Sarna T** and Burke JM
- “Effects of Ultraviolet Radiation on Signaling Proteins of the Melanogenic System” **Takahashi K**, Yamaguchi Y, Hoashi T, Zmudzka BX, Miller SA, Beer JZ and Hearing VJ
- “Melanin, Race, and UV Responses” **Beer JZ**, Zmudzka BZ, Bushar HF, Miller SA, Yamaguchi Y, Tadokoro T, Coelho SG and Hearing VJ
- “To What Degree Does Skin Colour Phenotype Predict Facultative Pigmentation after UVB Exposure?” **Wong TH** and Rees JL
- “UVB Triggers POMC Production via CRH/CRH-R1 Signaling System” **Zbytek B** and Slominski A
- “Evaluation of Melanin-Related Metabolites as Markers of Solar Ultraviolet Radiation” **Wakamatsu K** and Ito S

Friday, September 23, 2005

SATELLITE SYMPOSIA

**Satellite Symposium 1 “Melanoma”** (Grand Ballroom G) 08:30 - 14:30

Organized by - **Menashe Bar-Eli, Anja Bosserhoff** and **Ze’ev Ronai**  
(co-sponsored by the Society for Melanoma Research)

**Session 1: Growth Control and Apoptosis. Chair: Ze’ev Ronai**

- “A New Mouse Model of BRAF-Induced Neoplasia” **Martin McMahon**, UCSF Comprehensive Cancer Center
- “Stability of Interferon  $\alpha$  Receptor and Anti-Proliferative Effects of Interferon in Melanoma” **Sergey Y. Fuchs**, Univ. Pennsylvania
- “RACK1 and ATF2 in Melanoma” **Ze’ev Ronai**, The Burnham Institute
- 1 speaker to be selected from abstracts

**Session 2: Kinases and Transcriptional Regulation. Chair: Anja Bosserhoff**

- “Signaling Pathways and Transcriptional Regulation in Melanoma Development and Progression” **Anja Bosserhoff**, Universität Regensburg
- “B-RAF Downstream-Targets in Melanoma” **Claudia Wellbrock**, The Institute of Cancer Research
- “Transcription Factors and Melanoma” **Colin R. Goding**, Marie Curie Research Institute
- 1 speaker to be selected from abstracts

**Lunch Break** - (SMR Program Committee Meeting - Reston Suite A)

**Session 3: Tumor Microenvironment and Angiogenesis of Melanoma. Chair: Menashe Bar-Eli**

- “Gene Regulation in Melanoma Angiogenesis” **Menashe Bar-Eli**, M.D. Anderson Cancer Center
- “Role of Cyclin E in Melanoma Progression and Angiogenesis” **Estela E. Medrano**, Baylor College of Medicine
- “Lymphangiogenesis in Melanoma” **Jeffrey Gershenwald**, M.D. Anderson Cancer Center
- 1 speaker to be selected from abstracts

**Satellite Symposium 2 “Photobiology”** (Regency Ballroom A) 08:30 - 15:00

Organized and Chaired by - **Frances P. Noonan** and **Sharon A. Miller**  
(co-sponsored by the American Society for Photobiology)

**Session 1: Sunlight Sensitivity, Melanocytes and Melanoma**

- “Race and Ethnicity Effects on Sensitivity to UV” **Janusz Z. Beer**, Food and Drug Administration
- “Melanoma Incidence in Young Women” **Donald Henson**, The George Washington University
- “Sun Exposure and Melanoma Risk” **Margaret Tucker**, National Cancer Institute
- “Pigmentation Genes, Sun Exposure, DNA Repair Capacity and Risk of Melanoma in a Mediterranean Population” **Maria Teresa Landi**, National Cancer Institute

**Session 2: Mouse models for UV-induced melanoma**

- “Experiments on UV-Induced Melanocyte Proliferation and Nevi Induction in Hairless Mice” **Frank de Gruijl**, Leiden University Medical Center
- “UV Induction of Melanoma in the HGF/SF Transgenic Mouse” **Edward De Fabo**, The George Washington University

- “UV and Alcohol Induces Mouse Melanomas” **Faith Strickland**, Henry Ford Health System
- 1 speaker to be selected from abstracts

### Session 3: UV signaling in melanocytes

- “Steps in the Pathway of Oxidant/UVA Inducible Gene Expression- Are Pigment Cells a Special Case?” **Rex Tyrrell**, University of Bath
- “Response of the Melanocyte Genome to Ultraviolet Radiation” **Raza Zaidi**, National Cancer Institute
- “MC1R: A Gateway to Pathways that Limit DNA Damage and Protect Against Photocarcinogenesis” **Ana Luisa Kadekaro**, University of Cincinnati
- 1 speaker to be selected from abstracts

**Satellite Symposium 3**      “**Vitiligo**”      (Regency Ballroom B)      08:30 - 17:30

Organized by: - **Mauro Picardo** and **Alain Taieb**

(co-sponsored by the Vitiligo IFPCS Special Interest Group)

#### Session 1: Definition of Disease, Assessment, Outcome Measures. Chairs: Alain Taieb and Mauro Picardo

- “The Experience of the European Task Force on Vitiligo” **Alain Taieb**, CHU Bordeaux
- Oral Presentations to be selected from abstracts and discussion

#### Session 2: Evidence-Based Therapy. Chairs: Wiete Westerhof, James J. Nordlund, Yvon Gauthier and Sungbin Im

- “Medical Therapies” **Davinder Parsad**, Postgraduate Institute of Medical Education and Research
- “Surgical Therapies” **Mats Olsson**, Uppsala University
- “Combined Therapies” **Pearl Grimes**, Vitiligo and Pigmentation Institute
- “Phototherapy” **Henry W. Lim**, Henry Ford Health System
- Oral Presentations to be selected from abstracts

#### Session 3: New Directions for Research (Interface Between Clinical and Basic Research). Chairs: Colin R. Goding and Jean Paul Ortonne

- Non-Immunological Pathogenetic Mechanisms: **Mauro Picardo**, Istituto Dermatologica San Gallicano
- Immunological Pathogenetic Mechanisms: **Jean Marie Naeyaert**, Ghent University Hospital
- Oral Presentations to be selected from abstracts)

Panelists: **Dorothy C. Bennett**, **Raymond E. Boissy**, **Pranab K. Das**, **Colin R. Goding**, **Lionel Larue**, **Karin U. Schallreuter**, **Shigeki Shibahara** and **Richard A. Spritz**

#### Session 4: Burden of Disease/Interaction with Patient’s Support Groups.

- Participants: **Alida De Pase**, **Stella Pavlides** and of French association



## **Bibliography:**

The Bibliography published in this issue covers the period September, 2004 through November, 2004. If you notice a paper that was not detected by this search that should be included, please send it to us and we will include it in the next issue. By its very nature, assignment of a reference to a particular category is arbitrary and we urge you to read through all categories to make sure you don't miss any pertinent to your field.

## **PHYSIOLOGY/BIOLOGY**

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