

# PASPCR

June 2003  
Vol. 11 Number 2

## Newsletter



### Introduction...

by **Bill Oetting**

The abstracts have been received, the scientific program has been set, and the pit is being dug to bake the clams for the 11<sup>th</sup> Annual Meeting of the PASPCR. In this issue of the *PASPCR Newsletter* you will find the scientific program for the 2003 Annual Meeting, to be held at Cape Cod, Massachusetts, on September 4<sup>th</sup> -7<sup>th</sup>. If you have not done so, you should register for both the meeting and your hotel room. Hotel reservations must be made **before July 25<sup>th</sup>** to receive the guaranteed conference rate. The deadline for requesting a travel stipend from the PASPCR is **August 1<sup>st</sup>**. More information can be found at the PASPCR web site ([paspcr.org](http://paspcr.org)). This will be a great meeting as well as being lots of fun. I hope to see you at Cape Cod.

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.

There has been a major update of the IFPCS Mouse Coat Color Gene Table. See page 3 in this newsletter for more information.

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 - 23, 2005 in the Natcher Conference Center at the National Institutes of Health in Bethesda, MD. Pictures of the Natcher Conference Center and a preliminary scientific program have just been added.

There is a possibility that the URLs for the PASPCR and IFPCS web sites will be changed, due to a transfer of the web pages to a new web server. I do not know what the future URLs will be, but I will keep you informed. If you have bookmarks that link directly to specific pages (such as the mouse coat color gene page), they will not work once the URLs have been altered. Remember, the PASPCR home page will always be available at [paspcr.org](http://paspcr.org) and the IFPCS home page will be available at [ifpcs.org](http://ifpcs.org).

The PASPCR Web Site can be found at:

<http://www.paspcr.org>

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Pigment Cell Research**

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Glynis Scott  
Miri Seiberg  
Richard Swank

**IFPCS Representative:**

Richard A. King  
*past-President PASPCR*

**Calendar of Events:**

**Sept. 3-7, 2003** XI<sup>th</sup> Annual Meeting of the Pan-American Society for Pigment Cell Research, to be held in Cape Cod, MA.  
**Contact:** Dr. Jean Bologna.  
E-mail: jean\_bologna@qm.yale.edu.

**Sept. 17-20, 2003** XI<sup>th</sup> Annual Meeting of the European Society for Pigment Cell Research, to be held in Gent, Belgium.  
**Contact:** Prof. JeanMarie Naeyaert.  
E-mail: JeanMarie.Naeyaert@rug.ac.be.

**2004** XII<sup>th</sup> Meeting of the PanAmerican Society for Pigment Cell Research, to be held in Irvine, California.  
**Contact:** Frank Myskins.  
E-mail: flmeyske@uci.edu

**2004** XII<sup>th</sup> Meeting of the European Society for Pigment Cell Research, to be held in Paris, France.  
**Contact:** Dr. Lionel LaRue  
E-mail: Lionel.Larue@curie.fr

**2005** XIV<sup>th</sup> International Pigment Cell Conference (IPCC), to be held in Bethesda, MD, USA.  
**Contact:** Dr. Vince. Hearing  
E-mail: hearingv@nih.gov

**Note:** Go to the PASPCR Web page for the most recent up-dates for meetings of interest.

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.

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## 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**  
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## Welcome New Members

by *Raymond E. Boissy*

The PASPCR would like to welcome these new members to the Society:

**Valerie Kempf** - Duke University, Durham, NC  
**Yan Liu** - Duke University, Durham, NC  
**Michael Olshavsky** - Procter & Gamble, Cincinnati, OH  
**Isabel Santana** - Unilever Research, Edgewater, NJ  
**Shelia Rocha** - Unilever Research, Edgewater, NJ  
**Cloris Faraco** - Universidade Federal Do Parana, Curitiba Parana, Brazil  
**Hyung Sik Yoon** - Soeul, Korea  
**Francis Noonan** - George Washington University Medical Center, Washington, DC  
**Patrick Farmer** - University of California-Irvine, Irvine, CA

## Update of the Coat Color Table

by *Bill Oetting*

The IFPCS Coat Color Table is an attempt to bring together information on genes that affect the type, and distribution of melanin pigment in the mouse coat. For several years, the Coat Color Table has slowly increased in size as new mouse and human loci have been cloned and published in the literature. With the help of Dot Bennett (who provided most of the new information), the IFPCS Coat Color Table has been expanded to include all known coat color genes. This information will be formally published in: Bennett D.C. and Lamoreux M.L. The Color Loci of Mice - A Genetic Century. *Pigment Cell Res* 16: 2003.

Links to this table can be found in the IFPCS web site or the PASPCR web site within the PASPCR information page. You can also directly link to the table using the URL: <http://www.cbc.umn.edu/ifpcs/micemut.htm> (Note: this URL may change).

The table focuses on mouse coat color loci, but also includes the human homologues and associated human genetic diseases when known. For many of the entries, there are links to The Jackson Laboratories' Mouse Genome Informatics web page and to OMIM, to provide expanded information on those loci. Currently there are 127 loci described in this table.

Most loci within the table are obvious coat color genes. Some loci, such as *bcl2* and *brca1*, are not obvious candidates for coat color loci, but mutations in these genes (sometimes as observed in a mouse knockout) do result in a dilution or alteration of coat color, and thus have been included in this table.

Many of these coat color mutations can be obtained from the Wellcome Trust Functional Genomics Mouse Pigmentary Mutants Repository, a repository for mouse pigmentary mutants under the direction of Dr. Lynn Lamoreux in association with Dr. Jim Womack, Distinguished Professor, and Dr. Richard Ermel, Director of Laboratory Animal Research and Resources, at the College of Veterinary Medicine, Texas A&M University, College Station, Texas.

We hope that this table is of use to you. If you notice any errors, or loci that have been missed, please contact either myself at [bill@lenti.med.umn.edu](mailto:bill@lenti.med.umn.edu), or Dot Bennett at [dbennett@sghms.ac.uk](mailto:dbennett@sghms.ac.uk).

**Dear Members of the ESPCR, JSPCR and PASPCR :**

Time has a way of moving on and although it has only been about 6 months since the highly successful International Pigment Cell Conference (*IPCC*) held in the Netherlands last year, it won't be that long before it's time to start thinking about planning to attend the next one. Each *IPCC* has tended to become more and more useful and important to attend for active scientists in the field (or those thinking of becoming so) and there is great pressure on us to continue that tradition at the 19<sup>th</sup> *IPCC*. We fully intend to do our best to meet that expectation

The 19<sup>th</sup> *IPCC* will be held at the Natcher Conference Center at the National Institutes of Health in Bethesda, MD from September 18 - 23, 2005. This area is slightly north of Washington DC (by about 20 km) and is readily accessible by any of our 3 local airports. You will find that the Natcher Conference Center is a spectacular venue to hold such a meeting, and with NIH being the current home of at least a dozen independent research groups studying pigmentation at various levels, you can imagine that we are all excited about this opportunity to showcase NIH as an exciting place to visit and an even better place to call your research home.

We have established an active Local Organizing Committee and an International Scientific Program Committee, both of which have met as a group once and by email on many occasions. We are working from all angles to make this meeting as affordable, as interesting and as productive as possible for all scientists in the field, senior and junior alike.

We have established a Web Site ([www.ipcc.info](http://www.ipcc.info)) that is in its infancy but which will be developing quickly. Please bookmark that site in your Web browser and revisit it from time to time to see the meeting mature. We already have there a summary of the meeting, contact information, some information

about the Conference center (with photos), preliminary travel information about how best to get here and how best to sneak out of the meeting to visit the Smithsonian and Art Museums when you have time (along with maps of how to do that), the members of our Scientific Committees, and even an overview of the meeting program.

I would like to take this occasion to invite each of you to plan to attend the 19<sup>th</sup> *IPCC* and we are always open for useful suggestions on what topics and information you would like to see on the Web site or featured in the scientific or social program. I'll look forward to welcoming you to the 19<sup>th</sup> *IPCC* in mid-September, 2005.

Best regards,



Organizer, 19<sup>th</sup> *IPCC* - 2005



**11th ESPCR Meeting, 17-20 September, 2003,  
Gent, Belgium**

On behalf of the Scientific and Organising Committee we are delighted to invite you to participate in the 11th meeting of the ESPCR to be held in Gent next September. Our scientific programme will certainly excite every scientist and clinician with an interest in pigment cell research. World-class speakers will tackle hot items during the invited lectures. Six special lectures have been programmed. For the first time, some of these will be presented by outstanding scientists not working in our field. Undoubtedly, their papers will be a source of scientific inspiration for many pigment cell researchers. The clinical Satellite Meeting on Saturday is also the official autumn meeting of the Royal Belgian Society of Dermatology and will undoubtedly attract both scientists and clinicians with an interest in pigmentation disorders. Prominent speakers will deliver state of the art lectures on the pathogenesis and treatment of pigmentation disorders in the morning. In the afternoon, Belgian dermatologists will present papers with a focus on pigmentary disorders and melanoma. This meeting will also be the occasion to commemorate Professor Giuseppe Prota (1938 - 2003), a founder of the ESPCR and a giant in the field of the biochemistry of melanins. A "G. Prota session on the chemistry of melanins" has been introduced into the programme to honour this distinguished scientist.

For information, please visit the website [www.espcrgent2003.org](http://www.espcrgent2003.org) or contact the meeting secretariat by e-mail [mediscon@iae.nl](mailto:mediscon@iae.nl)



**American Thoracic Society  
Meeting, Seattle, WA, May 16-21  
by Dick Swank**

Among the myriad lectures and posters presented by the >16,000 clinicians and scientists attending the 2003 ATS Society meeting, I found a very exciting topic that may be of interest to PASPCR members. That topic involves the plasticity of bone marrow stem cells – or the ability of injected bone marrow stem cells to migrate to and differentiate into cells of a wide variety of tissues. You may know that this has been a very controversial area. While several laboratories have reported positive engraftments, others have obtained negative results. There are still considerable uncertainties and wide variations in the reported degrees of differentiation of donor cells into various tissues of recipients. Nevertheless, a positive consensus occurred at the ATS meetings, where at least 6 laboratories reported successful differentiation of injected bone marrow stem cells into several tissues types.

For example, Diane Kraus of Yale University finds that intravenously injected bone marrow stem cells differentiate into liver parenchymal cells in irradiated mouse recipients, with 5-14% of liver cells of recipients being donor-derived. Peter Quesenberry of Brown Univ. finds that 15-30% of muscle fibers of recipient mice with muscle wounds were donor-derived. In the most extraordinary report, the laboratory of L. Brown of Emory Univ. reported that up to 60% of recipient mouse lung alveolar cells were donor-derived. Dr. Brown found the same high percentage of donor cells in purified recipient epithelial cells, thus verifying they were indeed differentiated epithelial cells rather than simply contaminating hemopoietic cells. Darwin Prockop of Tulane Univ. reported that 19% of recipient lung epithelial cells were donor-derived. Significantly, Dr. Prockop has recently obtained an NIH grant to distribute standardized preparations of human, rat and mouse marrow stem cells to other laboratories.

All laboratories emphasized that prior injury of recipient tissues, by irradiation or other means, is essential for successful transfer and differentiation of marrow stem cells. Current protocols include a wide variety of methods of purification of marrow stem cells, a likely explanation for the wide variation in the degree of successful transfer and differentiation.

*Thoracic Society continued*

Clearly, much of the excitement in this field derives from the potential of bone marrow stem cells to replace diseased cells/tissues in recipient patients having a wide variety of inherited and acquired diseases. Toward this end at least four clinical trials in a variety of diseases are in progress.

Stay tuned.

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## Positions - Wanted and Available

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 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 Center 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

### Postdoctoral Position

Polarized Kit-ligand expression in the epidermis: Its role in human melanocyte homeostasis

A postdoctoral position (fully funded for the first year with the possibility of a 2 year extension) is immediately available in the Department of Pathology, Centre Medical Universitaire at the University of Geneva, Switzerland. The project is supervised by Dr. Bernhard Wehrle-Haller and Prof. Beat Imhof and is within the frame of a collaboration between the University of Geneva and Industry.

The aim of this project is to understand the role of kit-ligand in melanocyte homeostasis in the adult epidermis and how manipulation of kit-ligand expression or localization in keratinocytes affect melanocyte behavior. The project will employ cell-biological, pharmaceutical, biochemical as well transgenic approaches (mouse) to develop methods to modify Kit-ligand localization (polarity and cell surface expression) in vivo and to study melanocyte behavior in response to such altered Kit-ligand presentation. For references and rationale see Wehrle-Haller and Imhof (2001, *J. Biol. Chem.* 276, 12667-74) and Grichnik et al., (1998, *J. Invest. Dermatol.* 111, 233-38).

The Centre Medical Universitaire provides a stimulatory research environment located within the City of Geneva. Research in the department is centered around problems of autoimmunity, wound healing, inflammation, cell-cell junctions and cell migration. Geneva, located at the lake of Geneva in close proximity to the French Alps, provides a rich multicultural environment facilitating social integration.

Interested candidates preferably having experience in one or more of the aforementioned domains should send their CV (e.g. e-mail) including names and contacting information of two references to:

Bernhard Wehrle-Haller PhD  
Department of Pathology  
Centre Medical Universitaire  
1. Rue Michel-Servet  
1211 Geneva 4  
Switzerland  
Tel/Fax: 0041 22 702 5735 / 5746  
Bernhard.Wehrle  
Haller@medecine.unige.ch

### Postdoctoral Research Position

A postdoctoral position is available immediately to study the transcriptional co-repressor and co-activator activities of the oncogenic protein Ski in human melanomas (PNAS (USA) 97:5924-5929,

2000). Seeking individuals with experience in EMSA, *in vitro* transcription-translation, site-directed mutagenesis and yeast two-hybrid screening. Interested individuals should send inquiries and applications (including CV, a brief description of past experience and future research interests, and the name of three references) to:

Estela E. Medrano, Ph.D.  
Huffington Center on Aging  
Baylor College of Medicine  
One Baylor Plaza N-803.01  
Houston, TX 77030

Baylor College of Medicine is an Equal Opportunity Employer

#### **Research Associate/Post Doctoral Fellow Position Available**

Position available for either an entry level postdoctoral fellow or a more senior research associate to study the molecular and cellular biology of the melanocyte in general and the pathophysiology of vitiligo in specific. The research project will focus globally on the role of survival factors and apoptotic regulators on the viability of melanocytes in the skin and in culture. In addition, the project will focus on the genetic and cellular susceptibility of melanocytes from patients with vitiligo to undergo apoptosis in response to various stimuli. Postdoctoral fellow candidate should have experience with routine molecular and cellular techniques including cell culturing, site directed mutagenesis, and protein biochemistry. Research Associate candidate should have similar experiences utilizing the melanocyte system. Candidate will become part of an interactive research group focusing of various aspects of pigmentation in the Department of Dermatology and on skin physiology in the Skin Sciences Institute within the University of Cincinnati College of Medicine. Send curriculum vitae and list of three references to:

Raymond E. Boissy, Ph.D.  
Professor of Dermatology and Cell Biology,  
Neurobiology, & Anatomy  
Department of Dermatology  
University of Cincinnati College of Medicine  
231 Albert Sabin Way, ML-0592  
Cincinnati, OH, 45267-0592  
TEL: 513-558-6242  
FAX: 513-558-0198  
E-mail: boissyre@email.uc.edu

**Postdoctoral Fellows - Cancer and Developmental Biology** - Two NIH-funded positions are available for fellows interested in studying the Hedgehog signaling pathway in development and disease using skin as a model system. One project centers on defining the function of the Hedgehog pathway during skin appendage morphogenesis (*Dev. Biol.* 205: 1-9, 1999); a second project focuses on understanding how deregulated activation of this pathway gives rise to basal cell carcinomas (*Nature Genet.* 24: 216-7, 2000). Applicants should have a solid background in molecular and cell biology, with experience in transgenic animal models desirable but not required. Interested individuals should send a CV, letter of interest, and names of three references to: Dr. Andrzej Dlugosz, University of Michigan, Department of Dermatology and Comprehensive Cancer Center, 3310 CCGC, Box 0932, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0932 Email: dlugosza@umich.edu. The University of Michigan is an Equal Opportunity Employer.

**Postdoctoral Fellow** - Postdoctoral positions are available immediately to study post-embryonic development in zebrafish. NIH-funded research is aimed at identifying the genetic and cellular bases for development of the adult pigment pattern and somatic metamorphosis. The lab uses a wide variety of methods including genetic screening, genetic mapping and positional cloning, gene expression analysis, cell transplantation and classical histology. Postdoctoral fellows would be expected ultimately to develop independent research programs and would have the opportunity to participate in ongoing genetic screens for mutants affecting post-embryonic development.

For more information see:

<http://www.biosci.utexas.edu/IB/faculty/parichy/research.htm>

<http://www.biosci.utexas.edu/IB/faculty/parichy/pubs.html>

Applications including CV and contact information for three references should be sent to:

David M. Parichy, Ph.D.  
Assistant Professor  
Sections of Integrative Biology and  
Molecular, Cell and Developmental Biology  
1 University Station, C0930  
University of Texas  
Austin TX 78712  
dparichy@mail.utexas.edu  
512 232-9143 T  
512 471-3878 F

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*The 11<sup>th</sup> Annual Meeting of the PanAmerican Society for Pigment Cell Research*  
*The Sea Crest Resort Conference Center*  
*Cape Cod, MA*

September 4-7, 2003

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Conference organizers: **Jean Bologna, Chair**  
**John Pawelek**  
**Ruth Halaban**

Department of Dermatology  
Yale University School of Medicine  
New Haven, CT

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**Thursday, September 4, 2003**

REGISTRATION - 4:00 - 8:00 PM

Council meeting - 5:00 – 6:30 PM

7:00 PM WELCOME REMARKS: Jean Bologna, John Pawelek

**Session #1: Melanocortin/MSH/agouti protein**

**Moderator:** Zalfa Abdel-Malek

7:05 Overview lecture – *Genetics and genomics of pigment type-switching*

**Gregory Barsh**, Dept of Genetics, Stanford Univ School of Medicine, Stanford, CA

7:35 Q&A

7:45 – 8:45 Oral presentations

7:45 **Z.A. Abdel-Malek**, A.L. Kadekaro, R.J. Kavanagh, S. Schwemberger, G. Babcock. Department of Dermatology, University of Cincinnati, Cincinnati, OH 45267; Department of Surgery, University of Cincinnati; Shriners Burns Hospital

*Human melanocytes expressing loss-of-function mutations in the melanocortin 1 receptor gene exhibit increased sensitivity to UV-induced apoptosis*

8:05 **F. Rouzaud**, G.E. Costin, V.J. Hearing. Laboratory of Cell Biology, NIH, Bethesda, MD

*Expression and regulatory elements of the human MC1R*

8:25 **C.D. Van Raamsdonk**, C K.R. Fitch, K.A. McGowan, G.S. Barsh. Genetics, Stanford University, Stanford CA

*G protein signaling expands the embryonic population of dermal melanocytes*

8:45 Cocktail reception



**Friday, September 5, 2003**

7:30 AM - Continental breakfast

8:00 AM -12:30 PM

**Session #2: Subcellular Organelles and Protein Trafficking**

**Moderators:** Seth Orlow, John Pawelek

8:00 Overview lecture - *Tyrosinase and Tyrp1 Trafficking in Melanocytes and Melanomas*

**Daniel Hebert**, UMASS, Dept. of Biochemistry and Molecular Biology, Amherst, MA

8:30 Q&A

8:40 Overview lecture – *The motors in melanosome movement on cytoskeletal tracks*

**John A. Hammer III**, Laboratory of Cell Biology, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, Bethesda, MD

9:10 Q & A

9:20 Overview lecture – *Genetic Regulation of Melanosomes and other Lysosome-Related Organelles*

**Robert Swank**, Dept of Molecular and Cellular Biology, Roswell Park Cancer Inst, Buffalo, NY

9:50 Q&A

10:00 Coffee break

10:30 -12:30 Oral presentations

10:30 **J.C. Valencia**, H. Watabe, V.J. Hearing. Pigment Cell Research Section, NIH, Bethesda, MD

*The melanosomal protein GPI00 is partially glycosylated in the cis-Golgi compartment in MNT-1 melanoma cells*

10:50 **R. Rupani**, S. Sodi, J. Pawelek. Dermatology, Yale School of Medicine, New Haven, CT

*Aberrant melanosomal packaging and Beta 1,6-branched glycans in human melanoma cells and macrophage/melanoma fusion hybrids*

11:10 **H. Watabe**, J.C. Valencia, K. Yasumoto, H. Ando, W.D. Vieira, M. Mizoguchi, E. Appella, V.J.

Hearing. Laboratory of Cell Biology, NIH, Bethesda, MD; St. Marianna University

*Regulation of melanogenesis in amelanotic melanoma cells by pH and by proteasome activity*

11:30 **A. Greatens**, R.R. Wickett, R.E. Boissy. Dermatology & Pharmacology, Univ of Cincinnati College of Med, Cincinnati, OH 45267-0592; Univ of Cincinnati College of Pharmacy

*Effective melanosome transfer by niacinamide and lectins is reversible*

11:50 **D.T. Spaulding**, J.C. Valencia, K. Yasumoto, H. Ando, W.D. Vieira, M. Mizoguchi, E. Appella,

V.J. Hearing. Laboratory of Cell Biology, NIH, Bethesda, MD 20892; St. Marianna University

*The regulation of tyrosinase activity by melanosome pH in Black and Caucasian melanocytes*

12:10 **R.A. King**, J. Pietsch, J.P. Fryer, S. Savage, M.J. Brott, I. Russell-Eggitt, C.G. Summers, W.S.

Oetting. Medicine/Institute of Human Genetics, University of Minnesota, Minneapolis, MN; Great Ormond Street Hospital, London UK

*Tyrosinase gene mutations in oculocutaneous albinism 1 (OCA1): definition of the phenotype*

- 1:00 Bus leaves to Woods Hole, 4:15 bus returns  
Free afternoon – visit to Woods Hole (buses arranged by the conference)  
Gathering at Aaron and Millie Lerner’s home ~2-4 pm

5:00 - 8:00 PM

**Session #3: Cellular Interactions and Signal Transduction**

**Moderators** – Glynis Scott, Mira Sieberg

- 5:00 Overview lecture - *Symbiosis in Cellular Evolution*  
**Lynn Margulis**, Department of Geosciences, UMASS, Amherst, MA  
5:30 Q&A
- 5:40 Overview lecture - *ERK Signaling and Proteomic Profiling*  
**Natalie G. Ahn**, Howard Hughes, Medical Institute Investigator at the Depts of  
Chemistry and Biochemistry, University of Colorado, Boulder, CO  
6:10 Q&A
- 6:20 *Aaron B. Lerner Honorary Lecture*  
**Ruth Halaban**, Dept. of Dermatology, Yale School of Medicine, New Haven, CT
- 7:00 - 8:30 Oral presentations
- 7:00 **V. Setaluri**, T. Liu, G. Kandala, N. Sangha. Dermatology, Wake Forest Health Sciences, Winston-Salem, NC 27157  
*Role of phosphatidyl-3-kinase and AKT2 signaling in melanosome biogenesis*
- 7:20 **A.L. Kadekaro**, H. Kanto, R.J. Kavanagh, S. Schwemberger, G. Babcock, Z.A. Abdel-Malek.  
Dermatology, University of Cincinnati, Cincinnati, OH 45267; Department of Surgery, University of Cincinnati ; Shriners Burns Hospital  
*A novel role for the paracrine factors endothelin-1 and alpha-melanocortin as survival factors for human melanocytes*
- 7:40 **B. Kasraee**, O. Sorg, J.H. Saurat. Department of Dermatology, Geneva University Hospital, Geneva, Switzerland  
*Hydrogen peroxide in the presence of cellular antioxidants mediates the first and key step of melanogenesis: a new concept introducing melanin production as a cellular defense mechanism against oxidative stress*
- 8:00 **K. Jimbow**, M. Endo, H.H. Rad, K. Hirotsaki, A. Kamada, T. Yamashita. Department of Dermatology, Sapporo Medical University, School of Medicine, Sapporo, Japan  
*Role of tyrosinase-related protein for tyrosinase-mediated cytotoxicity and mutational analysis of their functional domains*
- 8:30 Barbecue

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**Saturday, September 6, 2003**

7:30 AM - Continental breakfast

8:00 AM – 12:00 PM Concurrent sessions

**Session #4: Melanoma, Epidemiology, Vaccine, and Apoptosis**

**Moderators:** Menash Bar-Eli

8:00 Overview lecture - *The epidemiology of melanoma*

**Marianne Berwick**, Dept of Epidemiology and Biostatistics, Memorial Sloan-Kettering Cancer Center, New York, NY

8:30 Q&A

8:40 Overview lecture - *Vaccines and immunotherapy*

**Walter Storkus**, Dept of Molecular Genetics and Biochemistry, Univ of Pittsburgh School of Medicine, Pittsburgh, PA

9:10 Q&A

9:20 Overview lecture - *Inactivation of apoptotic signals*

**Maria S. Soengas**, Dermatology Department, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI

9:50 Q&A

10:00 - 11:00 AM POSTER VIEWING (coffee break)

11:00 - 12:00 Oral presentations

11:00 **V. Alexeev**, M. Endo, H.H. Rad, K. Hirosaki, A. Kamada, T. Yamashita. Department of Dermatology, Sapporo Medical University, School of Medicine, Sapporo, Japan

*Constitutive activation of the cKit receptor-tumorigenicity or induction of apoptosis?*

11:20 **D.C. Bennett**, E.V Sviderskaya, M.L. Lamoreux, L. Plowright, S.P. Hill. Basic Medical Sciences (Anatomy & Developmental Biology), St George's Hospital Medical School, London, UK; Laboratory Animal Resources and Research, Texas A&M University, College Station, TX, USA

*Efficient generation of immortal mutant mouse melanocyte lines using an Ink4a-Arf deletion*

11:40 **K.R. Fitch**, D. Lee, D. Threadgill, H. Fuchs, M. Hrabe de Angelis, G.S. Barsh. Genetics, Stanford University, Stanford, CA 94305; University of North Carolina, Chapel Hill; GSF, Neuherberg, Germany

*A hypermorphic mutation in Egfr results in dark skin and epidermal hyperplasia*

8:00 AM – 12:00 PM

**Session #5: Genetic and Comparative Pigment Cell Biology**

**Moderators:** Joseph Bagnara, Lynn Lamoreux

8:00 Overview lecture - *Membrane spanning melanosomal transporters*

**Seth Orlow**, The Ronald O. Perelman Dept of Dermatology and Cell Biology, NYU School of Medicine, New York NY

8:30 Q&A

8:40 -10:00 Oral presentations

- 8:40 **M. Huizing**, M. Endo, H.H. Rad, K. Hirosaki, A. Kamada, T. Yamashita. Department of Dermatology, Sapporo Medical University, School of Medicine, Sapporo, Japan  
*New findings in Hermansky-Pudlak syndrome*
- 9:00 **Y. Tomita**, T. Suzuki, K. Inagaki, Y. Miyamura, H. Shimizu. Department of Dermatology, Nagoya University Graduate School of Med, Nagoya, Japan; Hokkaido University Graduate School of Medicine  
*An autosomal dominant oculocutaneous albinism may be caused by a mutation in OCA4 gene, AIM-1*
- 9:20 **G.E. Costin**, J. C. Valencia, W. D. Vieira, M. L. Lamoreux, V. J. Hearing. Laboratory of Cell Biology, Pigment Cell Biology Section, NIH, Bethesda, MD 20892; Department of Veterinary Pathobiology, Texas A&M University, College Station, TX.  
*Characterization of two new mouse melanocyte lines carrying the slaty and slaty light mutations*
- 9:40 **M. Sugumaran**, Biology, University of Massachusetts Boston, Boston, MA 02125  
*Molecular interactions of insect phenol oxidase*

10:00 - 11:00 AM POSTER VIEWING (coffee break)

11:00 - 12:30 Oral presentations

- 11:00 **P. Manga**, D. Sheyn, Z. Abdel- Malek, R. E. Boissy. Dept. of Dermatology, Univ. of Cincinnati, Cincinnati, OH 45267  
*A role for Tyrp1 in determining melanocyte sensitivity to 4-(tert)butylphenol*
- 11:20 **H. Le Poole**, L.S. Stennett, R. Mestrlil, I.C. Le Poole. Oncology and Cardiovascular Institutes, Loyola University Chicago, Maywood, IL 60153  
*HSP70 and the response of melanocytes to 4-TBP*
- 11:40 **G.F. Erf**, B. R. Lockhart, R. L. Griesse, V. H. Konjufca, X. Wang. Poultry Science, University of Arkansas, Fayetteville, AR 72701  
*Circulating melanocyte-specific autoantibodies and feather infiltrating lymphocytes in young Smyth line chickens prior to visible onset of vitiligo*
- 12:00 **T. Morrison**, R.L. Morrison. Biology, McDaniel College, Westminster, MD 21157  
*An analysis of skin color in panther chameleons from different regions of madagascar using reflectance spectrophotometry*

Lunch (on your own)

1:30 - 6:00 PM

**Session #6: Melanoma, Genetics, Animal Models and Angiogenesis**

**Moderators:** Suzie Cheng, Vince Hearing

- 1:30 Overview lecture - *Genomic analyses of melanocytic neoplasms: insights into biology and opportunities for classification*

**Boris Bastian**, Depts of Dermatology and Pathology Univ of CA, San Francisco, CA

2:00 Q&A

- 2:10 Overview lecture - *Animal models for melanomas*  
**Lynda Chin**, Dana-Farber Cancer Center, Boston, MA  
2:40 Q&A
- 2:50 - 4:30 Oral Presentations
- 2:50 **J.A. Recio**, F. Noonan, G. Merlino. Laboratory of Molecular Biology, National Cancer Institute, Bethesda, MD 20892; George Washington University  
*Mouse model for human malignant melanoma: a genetic and biochemical marriage*
- 3:10 **K.A. Cohen-Solal**, P. M. Pollock, R. Sood, J. J. Martino, S. Shin, Y. Marin, K. R. Mackason, W. J. Pavan, J. M. Trent, S. Chen. Chemical Biology, Rutgers Univ, Piscataway, NJ 08854; Cancer Genetics Branch, National Human Genome Research Institute, NIH  
*Ectopic expression of Grm1 in melanocytes induces melanocytic neoplasia*
- 3:30 **Y.E. Marin**, S. H. Choi, J. Ruiz, S. Chen. Chemical Biology, Rutgers University, SLC-Lab Cancer Research, Piscataway, NJ 08854  
*Implication of NF-kappa B in mediating the transforming activity of Grm1 in mouse melanoma cells*
- 3:50 – Overview lecture - *Angiogenesis*  
**Michael Detmar**, Cutaneous Biology Research Center, Dept of Dermatology, MASS. General Hospital and Harvard Medical School, Charlestown, MA  
4:20 Q&A
- 4:30 - 5:00 POSTER VIEWING (coffee break)
- 5:00 – 6:00 Oral presentations
- 5:00 **J.M. Pawelek**, T. Handerson. Dermatology, Yale Sch Med, New Haven, CT 06520-  
*Beta 1,6-branched oligosaccharides and coarse vesicles: a common, pervasive trait associated with progression in melanoma and other human cancers*
- 5:20 **T. Hoashi**, K. Kikuchi, S. Watanabe, H. Nanko, K. Tamaki. Laboratory of Cell Biology, National Cancer Institute, NIH, Bethesda, MD 20892; Dept of Dermatology, Faculty of Medicine, Univ of Tokyo, Tokyo, Japan; Dept of Dermatology, Faculty of Medicine, Teikyo Univ, Tokyo, Japan; Dept of Dermatology, Tokyo Koseinenkin Hospital, Tokyo, Japan  
*Matrix metalloproteinase-9 expression in desmoplastic malignant melanoma*
- 5:40 **S. Ito**, A. Takasaki, K. Wakamatsu, T. Kageshita, D. Nezirevic, B. Kagedal, Fujita Health Univ Sch of Health Sci, Toyoake, Japan; Kumamoto Univ Sch of Med; Linkoping Univ  
*Determination of pheomelanin in serum and urine of melanoma patients*
- 6:30 – 9:00 Clam Bake - presentations of awards, honorary membership, PASPCR Career Achievement Award

**Sunday, September 7, 2003**

8:00 AM - Continental breakfast

8:30 AM - 12:00 PM

**Session #7: Transcriptional Regulation****Moderators:** Raymond Boissy, Bill Pavan8:30 Overview lecture - *Genomic analysis of melanocyte development and disease***Bill Pavan**, Genetic Disease Research Branch, NIH, National Human Genome Research Institute, Bethesda, Maryland

9:00 Q&amp;A

9:10 Overview lecture - *Transcriptional Regulation of Melanocyte Differentiation and Growth***David E. Fisher**, Dana-Farber Cancer Inst, Harvard Medical School, Boston, MA

9:40 Q&amp;A

10:00 - 10:30 BUSINESS MEETING

10:30 - 12:00 Oral presentations

10:30 **T.J. Hornyak**, D. Zhang, L. A. Beyer, L. Kabara, K. E. Halsey, Y. Raphael, D. F. Dolan. Department of Dermatology, Henry Ford Health System, Detroit, MI 48202; University of Michigan*Hearing dysfunction in microphthalmia white heterozygous mice, a model for human, Waardenburg and Tietz syndromes*10:50 **L. Larue**, S. Martinozzi, V. Delmas, S. Carreira, D. Champeval, C. Goding. Developmental Genetics of Melanocytes, Institut Curie, Orsay, France; Marie Curie Research Institute*The overexpression of beta-catenin affects the proliferation and migration of melanoblasts*11:10 **D. Chen**, Weidong Xu, Elise Bales, Clemencia Colmenares, Maralice Conacci-Sorrell, Shunsuke Ishii, Ed Stavnezer, Judith Campisi, David Fisher, Avri Ben-Ze'ev, Estela E. Medrano. Baylor College of Medicine, Houston, TX; The Cleveland Clinic Foundation, Cleveland, OH; The Weizmann Institute of Science Rehovot, Israel, RIKEN Tsukuba Institute, Japan; Case Western Reserve, University Cleveland, OH; Lawrence Berkeley National Laboratory, Berkeley, CA; Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA*SKI regulates  $\beta$ -catenin signaling and targets MITF and Nr-CAM in human melanoma*11:30 **L. Weiner**, R. Han, B. Scicchitano, D. Lee, J.L. Brissette. Cutaneous Biology Research Center, Mass. General Hosp/Harvard Med. School, Charlestown, MA 02129*Foxn1 and the acquisition of pigmentation*

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The Bibliography published in this issue covers the period March, 2003 through May, 2003. 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.

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