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## Introduction . . .

The **PASPCR Newsletter** is published quarterly and is intended to serve as a means of communication for the members of our Society. As such, we invite our membership to actively contribute to it. If you attend a scientific meeting and 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 up-coming meetings of interest will also be included. We also want to note any change of affiliation or address that you may have had to help us keep our membership list up-to-date. 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 Bill Oetting, preferably by Email, to [bill@lenti.med.umn.edu](mailto:bill@lenti.med.umn.edu).

The **PASPCR Web** page is the major, up-to-date source of current information for the PASPCR membership. The URL address to our home page is <http://www.cbc.umn.edu/paspcr>. The PASPCR Web page contains information about the PASPCR including the goals, ByLaws and Rules of the Society, future meetings, past issues of the *PASPCR Newsletter* as well as links to other related sites including the InterPig DataBase, the International Federation of Pigment Cell Societies (IFPCS) and the regional Pigment Cell Societies from Europe and Japan. In addition, an updated PASPCR membership directory is available on the PASPCR Web page; please notify us if you wish any or all of your information to be modified or deleted on that site.

**Don't forget to register for the 10th Annual Meeting of the PASPCR in Minneapolis.**

Go to the web page at:  
<http://www.cbc.umn.edu/paspcr/registration.html>.

This page contains all of the information that you need for meeting registration and abstract submission.

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**Calendar of Events :**

**April 27-29, 2001** International Workshop on Molecular Mechanisms of Tanning, Nice, France.  
Contact: IWMMT Congress Office – Maryse Clappier – Hôpital l'Archet 2 - Service de dermatologie – BP 3079 – 06202 Nice cedex 3 – Tel 33 (0)4 92 03 61 19 – Fax 33 (0)4 92 03 65 32 - E.mail: maryse.clappier@unice.fr

**Jun 14 - 17, 2001** X<sup>th</sup> Annual Meeting of the Pan-American Society for Pigment Cell Research, to be held in Minneapolis, MN  
**Contact:** Dr. Richard A. King, Department of Medicine, Box 485 Mayo, 420 Delaware St. S.E., Minneapolis, MN 55455;  
Phone: (612) 624-0144  
Fax: (612) 624-6645  
Email: king@mail.ahc.umn.edu.

**Sept 27 - 29, 2001** 10<sup>th</sup> Annual Meeting of the European Society for Pigment Cell Research, to be held in Rome, Italy  
**Contact:** Meeting Secretariat, Triumph P.R. S.r.l. Via Proba Petronia 3 00136 ROME - ITALY  
Phone ++39.06.399631  
Fax ++39.06.39735195  
e-mail: espacr2001@triumphpr.it

**Dec 1-2, 2001** 15<sup>th</sup> Japanese Society for Pigment Cell Research Meeting (JSPCR) Sendai, Japan,  
**Contact:** Prof. S. Shibahara  
E-Mail : [shibahar@mail.cc.tohoku.ac.jp](mailto:shibahar@mail.cc.tohoku.ac.jp)

**2002** The XVIIIth International Pigment Cell Conference, to be held in The Hague, Holland.  
**Contact:** Dr. Stan Pavel, President ESPCR, University Hospital Leiden, Dept of Dermatology, PO Box 9600, NL - 2300 RC LEIDEN  
Phone: 31-(71) 526 1952  
Fax: 31-(71) 524 8106;  
E-mail: SPavel@algemeen.azl.nl

**Sept 3-7, 2003** XI<sup>th</sup> Annual Meeting of the PanAmerican Society for Pigment Cell Research, to be held in Wood's Hole, MA.

## Welcome to New Members

by James J Nordlund

We welcome the following new member to the PASPCR . . .

David Raible, Ph.D.  
Minoru Sasaki  
Mark Shriver, Ph.D.  
Rosalyn Upson, Ph.D.

If anyone is interested in joining our Society or wishes to sponsor a member, application forms can be obtained from Dr. James J. Nordlund at the PASPCR Secretary/Treasurer's office.

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## Corporate Sponsors

by James J Nordlund

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  
Shiseido Co, Ltd

### *SILVER Corporate Patrons*

Avon Products, Inc  
Galderma Laboratories, Inc  
Stiefel Laboratories  
Combe, Inc.

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## From the Editor - *Pigment Cell Research*

*Vince Hearing*, Editor

### **Award for Publication Excellence - 2000**

Congratulations to: Drs. Alice Jouneau, Yan-Qian Yu, Manijeh Pasdar and Lionel Larue for their article entitled "Plasticity of Cadherin-Catenin Expression in the Melanocyte Lineage" which was selected as the best Original Research Article published in *Pigment Cell Research* in Volume 13 (the year 2000). Their article was published in Issue #4, pages 260-272. This Award of Excellence is dedicated to the memory of Profs. Yoshiaki Hori and Bengt Larsson, two ardent supporters of Pigment Cell Research as Members and Officers of the IFPCS Council.

. . . . Their paper was selected by virtue of its comprehensive multi-disciplinary approach to examining the importance of cell-cell adhesion molecules (the cadherins and catenins) during murine development. They compared the expression of those factors by melanoblasts, melanocytes and melanoma cells, in the presence or absence of co-cultured keratinocytes. They found that the expression of those adhesion molecules was highly dependent on their micro-environment as well as on the transformed status of the cells. Their results have implications on our understanding of the development of melanocytes and their precursors, as well as on events important to their transformation to malignant melanoma cells.

**Runners-Up** - The Editorial Board would also like to congratulate the other four top-rated articles that made the final ballot. All were exemplary articles (and are listed in the sequence of their publication only):

- “Melanophore Lineage and Clonal Organization of the Epidermis in *Xenopus* Embryos as Revealed by Expression of a Biogenic Marker, GFP” by T. Fukuzawa. *Pigment Cell Res.* 2000; 13: 151-157
- “A Novel Approach to Gene Therapy of Albino Hair in Histoculture with a Retroviral *Streptomyces* Tyrosinase Gene” by M. Zhao, N. Saito, L. Li, E. Baranov, H. Kondoh, Y. Mishima, M. Sugiyama, K. Katsuoka and R.M. Hoffman. *Pigment Cell Res.* 2000; 13: 345-351
- “Mutational Analysis of the Modulation of Tyrosinase by Tyrosinase-Related Proteins 1 and 2 in vitro” by P. Manga, K. Sato, L. Ye, F. Beermann, M.L. Lamoreux and S.J. Orlow. *Pigment Cell Res.* 2000; 13: 364-374
- “Colocalization of Dynactin Subunits P150<sup>Glued</sup> and P50 with Melanosomes in Normal Human Melanocytes” by G. Vancoillie, J. Lambert, A. Mulder, H.K. Koerten, A.M. Mommaas, P. Van Oostveldt, and J.M. Naeyaert. *Pigment Cell Res.* 2000; 13: 449-457

See the *Pigment Cell Research* Home Page at <http://www.pigment.org> for more details.

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### **Don't forget to VOTE!**

The following candidates are running for membership in the PASPCR council. When you receive your ballot, please vote and return the ballot as soon as possible. The candidates are as follows:

**Thomas J. Hornyak**  
**Hee-Young Park,**  
**Brian S. Potterf**  
**Richard T. Swank,**  
**Glynis A. Scott,**  
**Miri Seiberg,**

Thank-you to these individuals who are willing to volunteer their time for PASPCR.

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### **Notice from the Organizers of the 17<sup>th</sup> IPCC in Nagoya**

IPCC-Nagoya Organizers are purchasing a limited number of extra copies of the IPCC Supplement to sell to those who are interested. These issues will cost 5,000 yen (about \$50), and if you would like to reserve and order a copy, please contact Dr. Kazumasa Wakamatsu at [kwaka@fujita-hu.ac.jp](mailto:kwaka@fujita-hu.ac.jp), and he will send you the information you need.

# The PASPCR Annual Meeting for 2001

June 14-17, 2001  
Regal International Hotel  
Minneapolis, Minnesota USA



Theme in 2001:  
*New Approaches to the Pigment Cell*

The 10th Annual Meeting of the PanAmerican Society for Pigment Cell Research will be held in Minneapolis, Minnesota on June 14-17, 2001, and we hope that you will attend. The PASPCR was established in Minneapolis in 1987, and the ensuing years have brought amazing advances to pigment cell biology. The 10th meeting offers an opportunity to highlight some of these advances and to look into the future. The meeting will be devoted to new approaches to the pigment cell, and symposia, paper presentations and social events have been organized to make this a memorable and exciting occasion.

Minneapolis is wonderful in June (<http://www.ci.minneapolis.mn.us/about/about.html>). The weather is warm and the mosquitoes are few. We will take full advantage of the surrounding lakes and rivers during the meeting, a tradition in Minnesota. The hotel is located on the downtown Nicollet mall and a short walk to Loring park (and lake), the Walker Art Museum and the Minneapolis Sculpture Garden. A reception at the spectacular Gehry-designed modern art museum on the campus of the University of Minnesota (and the shores of the Mississippi River) will start the meeting. One evening will be spent riding through Minneapolis on a riverboat on the Mississippi to the sounds of a Dixieland band. The banquet will be held in the glass-covered rooftop dining room of the hotel, with great views of the Minneapolis skyline at night.

The meeting will be organized around five symposia, and investigators from around the world who are at the forefront of work in their area will participate. Symposia topics include comparative biology and evolution; intracellular trafficking and organelle biogenesis; genetic susceptibility to melanoma; phenoloxidases, melanogenesis and evolution; and new approaches to the pigment cell. Each will present new and exciting information on the development and evolution of normal and abnormal melanogenesis, and should be a good format for exploring future ideas and approaches with our wonderful pigment cell.

We hope to see you in Minneapolis in June 2001.

**Don't forget to register for the meeting. All the information and forms that you will need for meeting registration and abstract submission is located at the web address <http://www.cbc.umn.edu/paspcr/registration.html>.**

**It's as easy as 1.....2.....3.**

# PanAmerican Society for Pigment Cell Research Annual Meeting

## SYMPOSIUM PROGRAM

### THURSDAY JUNE 14

- 12:45P**            **Opening Remarks**
- 1:00P – 3:00P**    **Symposium I: Comparative Biology and Evolution**  
*Chairs: Giselle Thibaudeau and Nels Granholm*
- "Genetic Polymorphism at the Melanocortin 1 Receptor"**  
                          Wen-Hsiung Li, PhD, George Beadle Professor, Ecology and Evolution, University of Chicago
- "The Importance of Being Red"**  
                          Jonathan Rees, MB BS, Professor and Chair, Department of Dermatology, University of Edinburgh,
- "Mapping Human Pigmentation and Skin Response Genes"**  
                          Mark D. Shriver, PhD, Assistant Professor, Department of Anthropology, Pennsylvania State University
- 3:00P-3:30P**        Refreshment Break/Posters
- 3:30P-5:00P**        **Paper Session I**
- 5:45P**                Buses depart to Frederick R. Weisman Art Museum
- 6:00P-8:00P**        **Reception at Weisman Museum**

### FRIDAY JUNE 15

- 8:00A – 9:30A**    **Symposium II: New Approaches to the Pigment Cell**  
*Chairs: Jean Bologna and Murray Brilliant*
- "Using Gene Expression Patterns to Characterize Biological Diversity"**  
                          Charles P. Perou, PhD, Assistant Professor, Department of Genetics  
                          University of North Carolina at Chapel Hill
- "The Role of Stem Cells in Development of the Retine"**  
                          Thomas Reh, PhD, Professor, Department of Biologic Structure,  
                          University of Washington
- "Modulation of Melanogenesis *in vitro*: Importance of Keratinocyte-Melanocyte Interactions"**  
                          Rainer Schmidt, PhD, Head, Department of Skin Care Biology, L'Oréal, France
- 9:30A-10:00A**      Refreshment Break/Posters
- 10:00A-11:30A**    **Paper Session II**
- 11:30A-1:00P**      Luncheon (provided)

- 1:00P – 3:30P**      **Symposium III: Intracellular Trafficking and Organelle Biogenesis**  
*Chair: Miri Seiberg and Vijaysaradhi Setaluri*
- "The Molecular Machinery for Lysosome Biogenesis"**  
 Juan Bonifacino, PhD, Chief, Cell Biology and Metabolism Branch, NIH
- "Essential Role for the AP3 Adaptor Complex and Vps41 in Cargo Selective Protein Transport to the Yeast Vacuole"**  
 Scott D. Emr, PhD, Professor, Department of Cellular and Molecular Medicine, Investigator, HHMI, University of California San Diego School of Medicine
- "A Genetic Approach to Vesicle Transport in the Mouse"**  
 Nancy A. Jenkins, PhD, Mouse Cancer Genetics Program, National Cancer Institute, Frederick Cancer Research and Development Center
- "Vesicular Transport Defects in Human Disease"**  
 William Gahl, MD, PhD, Chief, Biochemical Genetics Section, Human Genetics Branch National Institute of Child Health and Human Development, NIH
- 3:30P-3:45P**      Refreshment Break/Posters
- 3:45P-5:00P**      **Paper Session III**
- 6:00P**              Buses depart for River Boat Cruise
- 6:30P-9:30P**      **Riverboat Ride and Dinner – Minneapolis**
- SATURDAY**      **JUNE 16**
- 8:00A-9:45A**      **Concurrent Paper Sessions IV and V**
- 9:45A-10:15A**      Refreshment Break/Posters
- 10:15A-12:00P**      **Paper Session VI**
- 12:00P-1:30P**      Lunch On Your Own: Enjoy Minneapolis!
- 1:30P – 3:30P**      **Symposium 4: Genetic Susceptibility to Melanoma**  
*Chair: Hee-Young Park and Meenhard Herlyn*
- "The Genetics of Melanoma Susceptibility"**  
 Julia Newton Bishop, MD, Reader in Dermatological Oncology, University of Leeds
- "Functional Consequences of Polymorphism within the Melanocortin-1-Receptor for Human Pigmentation and Melanoma"**  
 Richard A. Sturm, PhD, Senior Research Fellow, Institute for Molecular Biosciences, University of Queensland, Brisbane, Australia
- "Microarray Characterization of Melanoma"**  
 William Pavan, PhD, Senior Investigator, National Human Genome Research Institute, NIH
- 3:00P-3:30P**      Refreshment Break/Posters
- 3:30P-5:00P**      **Paper Session VII**
- 5:00P-5:30P**      **BUSINESS MEETING**
- 7:00P**              **Reception and Banquet (hotel)**

## SUNDAY JUNE 17

### **8:00A – 9:30A Symposium 5: Phenoloxidases, Melanogenesis, and Evolution**

Chair: Ruth Halaban and Vincent Hearing

#### **"Evolution of Phenoloxidases"**

Austin Hughes, PhD, Professor, Department of Biological Sciences  
University of South Carolina

#### **"Structure, Function and Evolution of Hemocyanin and Tyrosinase"**

Heinz Decker, PhD, Professor and Head, Institute for Molecular Biophysics  
University of Mainz, Germany

#### **"Functional Differences Between Vertebrate and Invertebrate Phenoloxidases"**

Manickam Sugumaran, PhD, Professor, Department of Biology  
University of Massachusetts - Boston

### **9:30A-11:30A Paper Session VIII**

**11:30A AWARDS**

**12:00P Adjournment**

## **INVITED SPEAKERS**

### **Julia Ann Newton Bishop, MD, FRCP**

University of Leeds/Imperial Cancer Research Fund, St. James University Hospital, UK

### **Juan S. Bonifacino, PhD**

Chief, Cell Biology and Metabolism Branch, National Institutes of Health, Bethesda, MD

### **Heinz Decker, PhD**

Professor and Head, Institute for Molecular Biophysics, University of Mainz, Germany

### **Scott D. Emr, PhD**

Professor, Department of Cellular and Molecular Medicine, Howard Hughes Medical Institute, UCSD School of Medicine, LaJolla, CA

### **William Gahl, MD, PhD**

Chief, Biochemical Genetics Section, Human Genetics Branch, National Institute of Child Health and Human Development, Bethesda, MD

### **Austin Hughes, PhD**

Professor, Department of Biological Sciences, University of South Carolina, Columbia, SC

### **Nancy A. Jenkins, PhD**

Mouse Cancer Genetics Program, National Cancer Institute, Frederick Cancer Research and Development Center,  
Maryland

### **Wen-Hsiung Li, PhD**

George Beadle Professor, Department of Ecology and Evolution, University of Chicago, Chicago, IL

### **William Pavan, PhD**

Senior Investigator, National Human Genome Research Institute, National Institutes of Health, Bethesda, MD

### **Charles P. Perou, PhD**

Assistant Professor, Department of Genetics, University of North Carolina at Chapel Hill, Chapel Hill, NC

### **Jonathan Rees, MB, BS**

Professor and Chair, Department of Dermatology, University of Edinburgh, Scotland

### **Thomas Reh, PhD**

Professor, Department of Biologic Structure, University of Washington, Seattle, WA

### **Rainer Schmidt, PhD**

Head, Department of Skin Care Biology, L'Oréal, Cedex, France

### **Mark D. Shriver, BS, PhD**

Assistant Professor, Department of Anthropology, Pennsylvania State University, University Park, PA

### **Richard A. Sturm, PhD**

Senior Research Fellow, Institute for Molecular Biosciences, University of Queensland, Brisbane, Australia



**Manickam Sugumaran, PhD**

Professor, Department of Biology, University of Massachusetts, Boston, MA

## **And now for the rest of the story.**

In this issue, the story is not about a great research discovery, but a tool that has led many to their own research discoveries. Dr. Willys Silvers writes about how his book "*The Coat Colors of Mice*" came into being. Most of us have used this fantastic reference book in our research and a copy is standard in all research laboratories working in the field of pigment biology. Dr. Silvers has made many important contributions to the field of pigment cell biology, but he will probably be best known for authoring this book.

If you wish to know how a particular line of investigation got started, please email me at [bill@lenti.med.umn.edu](mailto:bill@lenti.med.umn.edu), and I will try to get **the rest of the story**.

### **The Coat Colors of Mice**

By Dr. Willys Silvers

First of all I want to express my gratitude to Bill Oetting for inviting me to write this recollection.

This would be a very short article if I could confess that one morning in the mid-nineteen seventies, I awoke with the notion of writing a book on the coat colors of mice and proceeded accordingly. However, nothing could be farther from the truth.

Actually, I was seduced into writing the book when my long interest in pigment cell genetics was sparked by a specific request to produce a table of coat color genes of the mouse; but more about that later.

I think it is fair to say that all of us who have been involved in some aspect of pigment cell biology become "hooked". I don't know whether it is the beautiful patterns and shades of colors that pigment cell genes produce, or whether it is the mesmerizing effect of those attractive dendritic cells that appear under the microscope, but there is no question but that melanocyte biology has an addictive quality.

When I was a graduate student in the early nineteen-fifties in Elizabeth (Tibby) Russell's lab in Bar Harbor, a period in my life when my sole focus was on coat color genetics, I remember asking Tibby (who, of course, is one of the truly great pioneers of mouse coat color genetics), whose interests by then was mainly concerned with the hematopoietic and germ cell defects of W-mutant mice, why she maintained such a special interest in melanocytes. And she told me more or less what I have noted above. Indeed, she remarked that her fascination with melanocytes and the genetic control of melanin synthesis had become so great that she now considered this interest to be one of her hobbies. At the time, this was difficult for me to understand but, a few years later, when my research activities and grant support became focused on studies on transplantation immunity and tolerance, I knew exactly what she meant. I also had been "hooked"; pigment cell genetics had become my hobby as well! Hence, I looked for opportunities to work on pigment cells and was delighted, after joining forces with Rupert E. Billingham (who also initially was a pigment cell biologist) to have a few such occasions. Billingham and I wrote a review on "The Melanocytes of Mammals" (Quart. Rev. Biol. 35:1-40, 1960). We also were able, via immunogenetic procedures, to demonstrate that pigment spread in guinea pigs was the result of cell migration, not "infection" (J. Exp. Med. 131: 101-117, 1970).

However, my addiction to melanocytes was satisfied best when Tim Poole, a Walt Quevedo student, joined my lab as a postdoc in 1974. Although I was determined to expose Tim to some research experiences in transplantation immunology, I was just as determined to use his expertise in handling melanocytes to get back into the pigment cell game. And it was during the time when Tim was with me that I received the request to produce the table that ultimately resulted in the book. The request came from Michael Potter, chief of the Genetics Lab at the National Cancer Institute. Mike was involved in helping produce an FASEB handbook on "Inbred and Genetically Defined Strains of Laboratory Animals, Part 1 Mouse and Rat" (edited by P. L. Altman and D. D. Katz, Bethesda, Maryland, 1979) and, aware of my interest in coat color genetics, asked me to produce a table listing all the known coat color mutations of the mouse (including references etc.) and where they could be obtained. Now I have to admit that as interested as I was in coat color genetics, this was one request that didn't particularly excite me. In fact, I considered it a chore. However, being very fond of Mike Potter, I just couldn't say "no". So, off I went to the library doing my best to produce a Table with the information requested. Not only did I find the task not as laborious as I anticipated but, while accomplishing it, I realized that it had been some time since the coat color genes of the mouse had been reviewed. The only relatively recent reviews that came to mind included the outstanding book by A. G. Searle, "Comparative Genetics of Coat Colour in Mammals" (Logos Press, London, 1968), which focused on all mammals, and the very nice review on "pigmentation" by H. G. Wolfe and D. L. Coleman that appeared in the second edition of the "Biology of the Laboratory Mouse" (E. L. Green, ed, pp. 405-425, McGraw Hill, New York, 1966). Surely, another review was timely.

While I was eager to undertake this task, I knew I would feel much more comfortable pursuing it with a colleague. Hence, I asked Tim to join me. His willingness sparked my enthusiasm and I was "off and running". While I should have realized that such an undertaking was not in the best interests of a postdoc who needed to add original research papers to his CV, I probably would not have undertaken the assignment if Tim had declined my invitation. I am, therefore, exceedingly grateful to Tim for saying "yes" as, by the time we mutually agreed that it was not in his best interests, I was too far along to give up. I had been seduced!

It didn't take me long to realize that the number of publications on mouse coat color genes was so extensive that a decision had to be made as to whether I was writing a very long review article or a book. While on the one hand, I found the latter possibility daunting, especially because of all the extra work it would require, it was obviously the more satisfying objective. Seduced again!

Being an individual who does not bear well under pressure (I hate deadlines), I decided not to seek a publisher until after the book was completed. Choosing Springer-Verlag was a "natural" as one of my favorite books, Jan Klein's "Biology of the Mouse Histocompatibility-2 Complex", had recently been published (1975) by that company.

And to complete the story, I subsequently learned that when I did submit the completed effort to Springer, they selected the one person I would have wanted most to evaluate it; Tibby Russell. Sometimes, everything does turn out right.

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## Positions - Wanted and Available :

### **Principal Scientist- Clinical Research - Skin Science Research**

Unilever employs over 200 scientists at our New Jersey Laboratory who are dedicated to innovative and scientifically rigorous skin research programs. Our world sales exceed \$40 billion so our programs have solid financial funding allowing for an innovative and challenging research culture. We currently have a full time opening that provides a unique opportunity to apply your basic science skills to human studies that impact the condition of skin for hundreds of millions people worldwide. We are seeking an expert in pigment biology or photobiology who can advance our knowledge and link laboratory research to clinically defined improvements of consumer skin problems. As a member of our skin research team, you will have an opportunity to work with other scientific experts in many fields including cell biology, biochemistry, measurement science and physical chemistry. You will also be encouraged to establish and maintain close ties to research in academic and government research communities.

We offer a competitive salary, benefits including tuition assistance and relocation, and a dynamic environment filled with learning and discovery beyond conventional scientific boundaries. Applicants must be authorized to work in the USA. For consideration please forward your CV to: Human Resources, Dept. CR-SID, Unilever Research US, 45 River Road, Edgewater, NJ 07020 or E-Mail: [job.mca@unilever.com](mailto:job.mca@unilever.com) . Please place only the letters "CR-SID" as the subject of your e-mail. Unilever is an Equal Opportunity Employer m/f/d/v.

**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](mailto:dlugosza@umich.edu). The University of Michigan is an Equal Opportunity Employer.

**Postdoctoral Research Associate** - Position available to study the biology of human inherited disorders of pigmentation using gene transfer technology. The successful applicant will have a Ph.D. and/or M.D. with experience in cell biology and molecular biology. Experience in gene transfer/genome manipulation is preferred. Please send curriculum vitae along with the names of three references to Dr. Richard King, Division of Genetics, Department of Medicine, Box 485 Mayo, 420 Delaware St. S.E., University of Minnesota, Minneapolis, MN 55455. Equal Opportunity Employer.

**Postdoctoral Position** - Ph.D. in molecular biology, biophysics, genetics or biochemistry. Position available to conduct research on molecular mechanisms of cellular response to oxidative stress in human melanocytes and melanoma cells and its regulation for preventive and therapeutic indications. Contact Dr. Frank L. Meyskens Jr., Director, University of California-Irvine, Chao Family Clinical Cancer Research Center, 101 The City Drive, Orange, CA 92668, USA. Fax (714) 456-5039 Email [flmeyske@uci.edu](mailto:flmeyske@uci.edu)

## Bibliography :

The Bibliography published in this issue covers the period November, 2000 through February, 2001. 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. We have attempted to highlight any publications which include a member of the PASPCR with a star (*sorry if we missed you but let us know and you'll get a free marked repeat in the next issue*).

### MELANINS, MELANOGENS & MELANOGENESIS

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