

PASPCR

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Newsletter



Introduction... by **Bill Oetting**

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". 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 me, preferably by E-mail, to 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. The PASPCR Web site is not only includes new information, but it is also a repository on the history of our society, our goals and our by-laws. This site also includes a registration page for potential new members and I have received well over 30 requests over the last two years. This is a very cost effective means to disseminate information about 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. A visit to our web site may be the first time that an individual has heard about the PASPCR, and we should present ourselves in the

best possible light. I look forward to your comments and inclusions.

The IFPCS web site can now be reached by using either domain name **ifpcs.org** or **ifpcs.info**. Updates are being made to the Mouse Coat Color Genes database at <http://www.cbc.umn.edu/ifpcs/micemut.htm>. If you know of any additions that should be included, please let me, or Dot Bennet, know and we will get that information included.

The Following Email was received by the PASPCR Newsletter office:

Hi Guys -

I just got my copy of the PASPCR Newsletter and was happy to see that the site of the PASPCR meeting next year has been moved from dreary and stodgy old Cape Cod to the fresh, polluted shores of Cape May, New Jersey.

OK, so I made a mistake. I printed the wrong URL to the Sea Crest Inn, where the XIth Annual PASPCR Meeting is being held. The correct URL is: www.seacrest-resort.com. Check it out.

The PASPCR Web Site can be found at:

<http://www.paspcr.org>

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Calendar of Events:

June 21-24, 2003 First Melanoma Research Congress, to be held in Philadelphia, PA.

Contact: Dr. Meenhard Herlyn.

Email: Parsons@Wistar.upenn.edu

Sept. 3-7, 2003 XIth 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 XIth 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 XIIth Meeting of the PanAmerican Society for Pigment Cell Research, to be held in Irvine, California.

Contact: Frank Myskins.

E-mail: flmeyske@uci.edu

2004 XIIth 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 XIVth International Pigment Cell Conference (IPCC), to be held in Bethesda, MD, USA.

Contact: Dr. Vince. Hearing

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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.

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A Message from the President

Dear PASPCR members,

It is the time to evaluate our society's achievements during the past year. Thanks to the efforts of enthusiastic Council members and the diligence of fellow Officers, we have been able to achieve the following:

- 1) Holding joint symposia with other scientific societies, namely the Society for Investigative Dermatology and American Society for Photobiology.
- 2) Co-organizing and participating in the XVIII International Federation for Pigment

Conference in Egmond aan Zee, in the Netherlands.

- 3) Putting in place active committees to improve the organization of our society. These committees are: Finance Committee, headed by Raymond Boissy, Nominations and Awards Committee, chaired by John Pawelek, Publication Committee, headed by Bill Oetting and Vijay Setaluri, Membership Committee, co-chaired by Raymond Boissy and Zalfa Abdel-Malek, and Annual Meeting Committee, chaired by Zalfa Abdel-Malek. I invite you to consider seriously participating in these committees in order to keep the vitality of PASPCR. If interested, please contact the appropriate chairperson.

An immediate goal for the society is to increase the membership of PASPCR. I challenge each one of you to recruit at least one new member. I urge principal investigators to encourage their graduate students and postdoctoral fellows to become members. As you know, PASPCR annual meetings have always been a friendly and supportive forum for young investigators. Our young scientists are the ones that will insure the continuity of the society and will be its future leaders.

We are very grateful for the generosity of the Skin Research Center of Johnson and Johnson for their support of the PASPCR sponsored Aaron B. Lerner Special Lectureship, for a period of five years, beginning in the year 2003. I also want to thank all our corporate sponsors for supporting the various activities of our society during the past year.

As I begin the second year of my term, I present to you these specific goals that I hope the society will achieve during this coming year:

- 1) Increasing PASPCR visibility and membership.

Continued on next page

2) Providing mentorship to young investigators, particularly by assisting them in grant writing and directing them to appropriate funding agencies. I urge our senior scientists to volunteer a little of their time to help our young investigators progress to become independent scientists.

As you know, our next annual meeting is in September, 2003, in Woodshole, MA. I look forward to seeing you there. I end my message by wishing you a joyful holiday season, and a happy new year.

Zalfa Abdel-Malek, Ph.D.
PASPCR President

A message from the President of the International Federation of Pigment Cell Societies

to members of the ESPCR, JSPCR and PASPCR
<www.ifpcs.org>

Dear Friends and Colleagues,
Seasonal Greetings, in a year when world events - although still regrettably far from universal peace - have at least seemed less terrible than in 2001. It is with great pleasure that I start to write the IFPCS President's message for the first time, although with a sense of disbelief. (Surely there must be some mistake? Could the real President please step forward?) More seriously, I will begin by expressing profound thanks to the outgoing Officers of the IFPCS: Shosuke Ito (President), Stan Pavel (Vice President) and Dick King (Secretary-Treasurer), with every appreciation of all their hard work for the Federation over the past three years. All members will surely join me in those thanks, and also in welcoming our other new IFPCS officers, Zalfa Abdel-Malek (Vice-President) and Yasushi Tomita (Secretary-Treasurer), and new IFPCS

Council members Lionel Larue and Ray Boissy.

It is genuinely a pleasure to have the chance to contribute to the running of the IFPCS. Our Federation of three Societies is relatively young, having been created in 1990 at the IPCC in Kobe, Japan. But it is a truly valuable and constructive organization. It has thrived from the outset, fostering its aims of scientific communication and co-operation within our expanding field of pigment-cell research. It has regularised the IPCC congresses, on a three-yearly basis. Many of us had the pleasure of attending the recent 18th IPCC in Egmond aan Zee, Netherlands. Congratulations once more to Stan Pavel, Nico Smit and their team for organizing on behalf of ESPCR such a first-rate selection of pigment-cell science, together with fine social events including a canal trip in Amsterdam and jam session back in Egmond. Those unable to attend can find the abstracts published as a supplement to *Pigment Cell Research*, and there are plans also to publish a selection of Proceedings in *Pigment Cell Research* during 2003.

We can expect another superb congress in the 19th IPCC, 2005, to be chaired by Vincent Hearing for PASPCR. Plans are impressively well developed already. It will be at the NIH, Bethesda, USA – a memorable visit in itself, and a short Metro ride from the sights of Washington. Before then, you can enjoy attending the annual meetings of your regional Pigment Cell Society – or maybe all three of them, occurring in 2003 in three delightful locations: Cape Cod (Massachusetts) and Ghent (Belgium), both in September, and Tokyo in November. From experience, you can expect excellent science, a constructive and friendly atmosphere and plenty of interaction. Please see the society web sites for information, or contact the organizers, respectively Drs John Pawelek <john.pawelek@yale.edu>, Jean-Marie Naeyaert <JeanMarie.Naeyaert@rug.ac.be> and Genji Imokawa <073733@kastanet.kao.co.jp>.

Another familiar IFPCS activity is to support and promote the journal *Pigment Cell Research*, which under the outstanding editorship of Vincent Hearing (since 2000) has steadily increased its scientific quality, output and Impact Factor (now 2.1) – see also the Editorial in the December issue. You too can easily aid this progress. Just keep submitting good papers, cite recent *PCR* ar-

articles, and encourage your library and colleagues to subscribe to the journal. Much gratitude is due also for the continued and generous sponsorship of *PCR* by Johnson & Johnson, L'Oréal, Shiseido and Unilever. Lastly, congratulations to the new IFPCS Publications Committee, Drs Shibahara, Boissy and Larue, for recently persuading the publisher Blackwell to withdraw a proposed drastic increase in the price of *PCR*, from \$95 to \$137. Instead the price will increase more gradually, to only \$106 in 2003.

The IFPCS's aim of communicating information about our field is of course also well supported by the various Society web pages and Bulletins. The Federation is constantly indebted to our dedicated colleagues who capably provide these resources – Bill Oetting for both IFPCS and PASPCR; Ghanem Ghanem for ESPCR, and Kazu Wakamatsu and Shige Shibahara for JSPCR. Continuing thanks to all of them. Among these pages, please don't forget the IFPCS "InterPig" list of scientific resources for pigmentary research – <www.ifpcs.org>. If you have any such resources to offer that are not listed, now is a great time to send your information to Bill Oetting <bill@lenti.med.umn.edu> or Hiro Yamamoto <hyamamot@mail.cc.tohoku.ac.jp>.

Another useful activity has been the establishment of the IFPCS Special Interest Groups or SIGs – <www.ifpcs.org>. These groups aim for more-specific communication within sub-specialities of our field, and some of them have become impressively active. For example satellite meetings were organized at the 2002 IPCC by the SIGs for Melanoma, Pigment Cell Development and Hypo-/Hyperpigmentation. Indeed, the Melanoma Group, chaired by Meenhard Herlyn, has attracted massive interest and is set to transform into a full international society, the Melanoma Research Society, at its meeting in the USA next June. There seems to be a pressing need for such a society, and it is satisfying that the IFPCS could foster this development. More generally, research fields are in constant flux, and IFPCS Council is now reviewing the SIGs, and whether there are areas where new ones may be needed. I would welcome ideas on this from any of you – <dbennett@sghms.ac.uk>. In fact, please contact me at any time, if you have any ideas for improv-

ing or adding to any aspect of IFPCS activities.

Another way you can contribute to your Society and Federation is to encourage others in the field to become members. The more researchers taking part in our networks, the more we can all learn and benefit from each other. The more subscriptions, the more invited speakers per conference, and the more travel grants for young scientists. So I urge those in each Society to do all you can to retain and add members, especially in any under-represented fields. You can be assured that your own membership is already promoting these valuable ends. There are many exciting developments in pigment cell research in the post-genomic era, and we should hope for record levels of participation.

Lastly, perhaps I should not ignore the remarkable situation that, after its first election of the new Millennium, the IFPCS has not only its first female President but also its first female Vice-President, while all three Society Presidents are also women. One good consequence is that our female members can now have more confidence that they are in no way excluded from the offices and honours of the Societies. On the other hand, I hope it will not be too long before male/female issues are no longer important, because the balance among scientists will have become equal. Meanwhile, anyone with concerns about such issues can still contact the IFPCS Women Scientists' Committee, the new members of which should be announced shortly in the IFPCS Web Pages.

In conclusion, may I wish all of you a very happy and peaceful year in 2003, with lots of fascinating new findings in pigment cell research.

Best wishes,
Dot Bennett [President, IFPCS]

Keep the membership informed.

If you have news about a member of the PASPCR, please let us know. Contact a member of the publications committee and we will make sure that it is in the next issue.

From the Editor –*by Vince Hearing*

Online journals and PDF files have generated a whole new layer of complexity for copyright issues dealing with journals and publishers. Officially, PDF files that you download (even of your own articles) are copyright restricted documents and you are not legally entitled to distribute them to others without permission of the publisher. Does anyone follow this guideline? Maybe not, but it is wise to be aware of it (does the Napster lawsuit ring a bell with anyone?).

In any case, Blackwell/Munksgaard, the publishers of *Pigment Cell Research*, have worked out a more streamlined copyright form that authors will be using as of this publication year (2003). It is a bit more complex than the earlier version, but it provides you some liberties previously not allowed, as listed below. If you are interested in seeing the new form, you can find it under the Instructions to Authors on the PCR web site (www.pigment.org).

Among other things, now you are allowed to:

- 1) post PDF files of your publications on your own web site, as long as you identify the source of the original citation (as an Editor's note, this would allow others to log on to your web site and download any PDF files you have at that site).
- 2) Use Figures you have published in subsequent publications without getting permission from the publishers, again if you identify the source of the original citation.

Do these guidelines apply to all scientific journals and publishers? Probably not, but hopefully they soon will. They certainly do apply to journals published by Blackwell/Munksgaard, which includes many of your favorite dermatology themed journals.

Other things to look forward to in *Pigment Cell Research* in 2003 –

- The line-up of scheduled Full Reviews, Pigment Gene Focus Reviews and Innovative Technology Reviews is almost set; they continue the high caliber of reviews you have seen in recent years and you can see those at the 'In Press' hyperlink on the PCR web site.
- The next 3 Bibliographic Reviews will be coming out in the next year or so; Prof. Masako Mizoguchi, Prof. Hans Rorsman and Prof. James J. Nordlund have agreed to write those and I am sure their insights about their research and clinical careers will make for very interesting reading.
- Did you miss the IPCC last September in The Netherlands? If so, or even if you were fortunate enough to attend, you'll be happy to know that a dozen or so selected lectures from that meeting will be highlighted in a special IPCC Proceedings section to be published as supplementary pages in Issue #3 of 2003.



As usual, I welcome all input and suggestions from scientists in the pigment cell community and please feel free to contact me at any time. Let me take this occasion to wish you, your colleagues and your family a happy, safe and prosperous 2003.

And now for the rest of the story.

There is no story for this issue. Please look in the March issue for the next installment.

If you wish to know how a particular line of investigation got started, or know of a story that would be interesting to readers of the PASPCR Newsletter, please email me at bill@lenti.med.umn.edu, and I will try to get **the rest of the story**.

Members in the News:

Ana Luisa Kadekaro, Ph.D., postdoctoral fellow in Zalfa Abdel-Malek's laboratory, Department of Dermatology, University of Cincinnati, was awarded a three-year Skin Research Grant by the Johnson and Johnson Skin Research Center, to fund the project entitled " α -Melanocortin and Endothelin-1 Promote Human Melanocyte Survival by Inhibiting Apoptosis in Response to Ultraviolet Radiation". Congratulations to Dr. Kadekaro.

From Cape Cod Bay

by John Pawelek

The PASPCR XIth annual meeting, "Molecular and Genetic Characterization of Melanocytes and Melanoma Cells" will be held Sept. 4-7, 2003 at The Sea Crest Resort & Conference Center, North Falmouth, MA (www.seacrest-resort.com).

The subject categories for this meeting will be:

- Comparative models of pigmentation:
- Enzymology of melanogenesis
- Growth factors and signal transduction
- Hormones and receptors
- Melanocyte development
- Melanoma
- Molecular biology and gene action
- Pigmentary disorders
- Structure and function of melanin
- Subcellular organelle processing/trafficking.

We have an excellent list of invited speakers for overview lectures, including: Natalie G. Ahn, Greg Barsh, Borris Bastian, Marianne Berwick, Lynda Chin, Michael Detmar, David E. Fisher, John Hammer III, Daniel Hebert, Lynn Margulis, Maria S. Soengas, Walter Storkus, Robert Swank.

There are 14 young investigator travel awards (\$500) available. Abstracts are due May 1, 2003. The Sea

Crest Resort has its own beach on Cape Cod Bay, within easy driving distance of Woods Hole, and the Nantucket and Marth's Vineyard ferries. A New England lobster/clambake is on the fare. Come join us for a great meeting! Information for registration and abstract forms and travel awards are on the PASPCR web (<http://www.paspcr.org>).

For further information, please contact Dr. John Pawelek, Yale School of Medicine (john.pawelek@yale.edu; 203-785-4411).



From the Sea Crest Inn Web site:

This is Cape Cod as you've dreamed it would be. Pristine white sands lapped by a sparkling ocean, a private beach immaculately maintained. A resort with every amenity and opportunity to indulge in your favorite activity from tennis to swimming to dining. In a setting facing West, open to sea breezes and flooded with sunshine that deepens and glows into a fiery skyscape as the sun sinks below the horizon at night. Step into the special ambiance of Sea Crest life. (www.seacrest-resort.com).



Mouse News

Some of our members participated in a recent meeting of the International Mammalian Genome Society, in San Antonio, Texas.

Members of this society are very active in the sequencing and mutagenesis and “phenotyping” of the mouse genome, which is ongoing primarily under the NIH Mouse Initiative in collaboration with similar efforts in Europe and Japan. You might be interested in checking out the resources listed on their web site at

<http://www.imgs.org/>

The goals of the society are quoted below from their web site:

“The International Mammalian Genome Society exists primarily to foster and stimulate research in mammalian genetics from sequencing and functional genomics to mutagenesis and mutant analysis. The activities of the society have expanded with the growing realization of the important and unique role of rodent species in current biomedical and genetic research.

The extensive mouse genetic resources and the identification of evolutionary conserved linkage relationships between mice and humans offer significant opportunities for understanding gene function in relation to human development and disease. The role of the mouse in current biomedical and genetic research will increase further as the benefits of comparative sequence analysis of the human and mouse genomes and large scale mutagenesis programs are obtained.”

Lynn Lamoreux

Keep the membership informed.

If you have news about a member of the PASPCR, please let us know. Contact a member of the publications committee and we will make sure that it is in the next issue.

A Note from Lynn Lamoreux

I believe strongly that a major advantage of the international and local pigment cell societies is that:

- A. We talk to each other, and especially,
- B. For the most part we accept and welcome people outside the mainstream. And of course also people in the mainstream, or we would all be in the backwater. But backwater or mainstream, both are needed for the promotion of creative science.

Since when did all good science arise in the mainstream? The mainstream is GREAT for implementing what we already know and for generating unanticipated spin-offs, both of which are good science. But if we more and more punish people outside the mainstream and deprive them of opportunity — to that extent we are losing the creative (i.e., different) inputs that would move the mainstream forward beyond what we already know (i.e., the cutting edge). The pigment cell societies are the group I know that most effectively fosters the kind of environment that allows both type of individuals to feel comfortable presenting their work. I had another person say the same to me at the last international meeting. He didn't use those words. Recently I heard two different people at vastly different stages of their careers, at a different sort of meeting, apologizing for their work because it was not just like all those reports that popped up onto the screen from all those from all those expensive laptop computers. In both cases, I found the deviant work more interesting.

Lynn



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 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 under 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:

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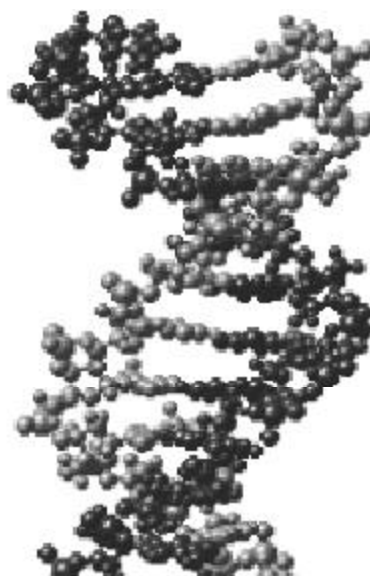
Unilever employs over 200 scientists at our New Jersey Laboratory who are dedicated to innovative and scientifically rigorous skin research programs. Our world sales exceed \$40 billion so our programs have solid financial funding allowing for an innovative and challenging research culture. We currently 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 . 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. The University of Michigan is an Equal Opportunity Employer.



Bibliography:

The Bibliography published in this issue covers the period September, 2002 through November, 2002. 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.

MELANINS, MELANOGENS & MELANOGENESIS

- Akeo K, Hiramitsu T, Yorifuji H, Okisaka S: Membranes of retinal pigment epithelial cells in vitro are damaged in the phagocytotic process of the photoreceptor outer segment discs peroxidized by ferrous ions. *PIGM CELL RES* 15:341-347 (2002).
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