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March, 2001

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.

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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**PanAmerican Society for
Pigment Cell Research**

c/o **Dr. James J. Nordlund**
Department of Dermatology
University of Cincinnati
231 Bethesda Avenue
Cincinnati, OH 45267-0592
FAX: (513) 558-0198

Officers

Richard A. King
President

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IFPCS Representative

Sally Frost-Mason
past-President PASPCR

The **PASPCR Newsletter** is published quarterly; for further information or to submit articles, contact:

Publications Committee:

William S. Oetting, PhD

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

Vijayasradhi Setaluri, PhD

Wake Forest University School of Medicine
Department of Medicine
Winston-Salem, NC 27157
Phone: (336) 716-3273
Email: setaluri@bgsu.edu

Giselle Thibaudeau, PhD

Mississippi State University
Department of Biological Sciences
Harned Hall
Mississippi State, MS 39762
Phone: (662) 325-7572
Email: Giselle@ra.msstate.edu

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 Xth 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 10th 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 15th Japanese Society for Pigment Cell Research Meeting (JSPCR) Sendai, Japan,
Contact: Prof. S. Shibahara
E-Mail : 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 XIth 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.
Roselyn 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.

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
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SILVER Corporate Patrons

Avon Products, 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^{Glued} 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.

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.

Notice from the Organizers of the 17th 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, 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, 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.

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 . 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.

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

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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* * * * *2001 PASPCR Membership Directory* * * * *

Abdel-Malek, Zalfa A. Ph.D.
University of Cincinnati
Department of Dermatology
P.O. Box 670592
Cincinnati, OH 45267-0592 U.S.A.
Phone: (513) 558-6242
FAX: (513) 558-0198
E-mail: abdelmza@email.uc.edu

Almodovar-Ramirez, Esthy R. B.S.
Unilever Research U.S.
Department of Skin Bioscience
45 River Road
Edgewater, NJ 07020 U.S.A.
Phone: 201-840-2829
FAX: 201-840-8291
E-mail: esthy.aldomovar-ramirez@unilever.com

Bagnara, Joseph T. Ph.D.
University of Arizona
Department of Cell Biology and Anatomy
1501 N. Campbell
Tucson, AZ 85724 U.S.A.
Phone: (520) 621-7516
FAX: (520) 621-9339
E-mail: bagnara@u.arizona.edu

Bandyopadhyay, Debdutta Ph.D.
Huffington Center on Aging
Baylor College of Medicine
1 Baylor Plaza, Room #M320
Houston, TX 77030 U.S.A.
Phone: 713-791-1414, x 4167
FAX: 713-794-7938
E-mail: dbandyop@bcm.tmc.edu

Barsh, Greg S. M.D., Ph.D.
Stanford University School of Medicine
Howard Hughes Medical Institute
Beckman Center, B271
279 Campus Drive
Stanford, CA 94305-5323 U.S.A.
Phone: (650) 723-5061
FAX: (650) 723-1399
E-mail: gbarsh@cmgm.stanford.edu

Bhawan, Jag M.D.
Boston University School of Medicine
Department of Dermatology
609 Albany Street, Room 309
Boston, MA 02118 U.S.A.
Phone: (617) 638-5570
FAX: (617) 638-5575
E-mail: jbhawan@bu.edu

Boissy, Raymond E. Ph.D.
University of Cincinnati
Department of Dermatology
P.O. Box 670592
Cincinnati, OH 45267-0592 U.S.A.
Phone: (513) 558-6242
FAX: (513) 558-0198
E-mail: boissyre@email.uc.edu

Bologna, Jean L. M.D.
Yale Medical School
Department of Dermatology
333 Cedar Street
New Haven, CT 06510 U.S.A.
Phone: (203) 785-4092
FAX: (203) 785-7637
E-mail: jean.bologna@yale.edu

Bonte, Frederic Ph.D.
Parums Christian Dior
Av de Verdun
St. Jean De Braye, 45804 France
Phone: 33-0238-60-3388
FAX: 33-0238-60-31-17
E-mail: fbonte@diormail.com

Bosko, Carol Ph.D.
Avon Products, Inc.
Avon Place
Suffern, NY 10901 U.S.A.
Phone: (845) 369-2788
FAX: (845) 369-2899
E-mail: carol.bosko@avon.com

Bowers, Roger R. Ph.D.
California State University, Los Angeles
Department of Biology
5151 State University Drive
Biological Sciences Building 333
Los Angeles, CA 90032 U.S.A.
Phone: (323) 343-2081
FAX: (323) 343-6451
E-mail: rbowers@calstatela.edu

Brilliant, Murray H. Ph.D.
University of Arizona
Department of Pediatrics
P.O. Box 245073
1501 N. Campbell
Tucson, AZ 85724 U.S.A.
Phone: (520) 626-3305
FAX: (520) 626-7407
E-mail: mhb@peds.arizona.edu

Burnett, Jean B. Ph.D.
P.O. Box 805
Okemos, MI 48805-0805 U.S.A.
Phone:
FAX:
E-mail:

Bystryn, Jean-Claude M.D.
New York University Medical Center
Department of Dermatology
550 First Avenue
New York, NY 10016 U.S.A.
Phone: (212) 263-5243
FAX: (212) 263-8561
E-mail:

Chaubal, Vaishali A. M.Sc.
National Centre for Cell Science
N C C S Complex, Ganeshkhind
Pune, Maharashtra 411-007 India
Phone: 91-020-5670922/31/41/51/61
FAX: 91-020-5672259
E-mail: vaishali_c@hotmail.com

Chedekel, Miles R. Ph.D.
Mel-CO
10962 Citrus Drive
Moorpark, CA 93021 U.S.A.
Phone: 805-523-7341
FAX: 805-523-0398
E-mail:

Choi, Sung Woo M.D.
Kangnam St. Mary's Hospital
Department of Dermatology
505 Banpo-Dong, Seocho-gu
Seoul, 137-040 SOUTH KOREA
Phone: 82-2-590-2768
FAX: 82-2-594-3255
E-mail: swchoi@cmc.cuk.ac.kr

Christiansen, James L. Ph.D.
Drake University
Department of Biology
25th and University Avenue
Des Moines, IA 50311 U.S.A.
Phone: (515) 271-2821
FAX: (515) 271-3702
E-mail: james.christiansen@drake.edu

Cochran, Alistair J. M.D.
UCLA Medical Center
Department of Pathology
13-344 CHS
Los Angeles, CA 90024-1732 U.S.A.
Phone: (310) 825-2743
FAX: (310) 206-5178
E-mail: acochran@mednet.ucla.edu

Cullen, Mary K. M.D.
6315 Pershing
St. Louis, MO 63130 U.S.A.
Phone: (314) 721-8267
FAX: (314) 362-7463
E-mail: mkcullen@cellbio.wustl.edu

Erf, Gisela F. Ph.D.
University of Arkansas
Department of Poultry Science
Poultry Science Center
Fayetteville, AR 72701 U.S.A.
Phone: 501-575-8664
FAX: 501-575-7139
E-mail: gferf@comp.uark.edu

Fang, Dong Ph.D.
Wake Forest University School of Medicine
Department of Dermatology
Medical Center Boulevard
Winston-Salem, NC 27157-1071 U.S.A.
Phone: (336) 716-0412
FAX: (336) 716-7732
E-mail: dfang@wfubmc.edu

Fernandez, Philip J. Ph.D.
Grand Canyon University
Department of Biology
3300 W. Camelback Road
Phoenix, AZ 85017 U.S.A.
Phone: (602) 589-2575
FAX: (602) 589-2716
E-mail: pfernandez@grand-canyon.edu

Froiland, Thomas G. Ph.D.
Northern Michigan University
Department of Biology
277 W. Science
Marquette, MI 49855 U.S.A.
Phone: (906) 227-2310
FAX: (906) 227-1063
E-mail: tfroilan@nmu.edu

Frost Mason, Sally K. Ph.D.
University of Kansas
Department of Molecular Biosciences
Lawrence, KS 66046-2106 U.S.A.
Phone: (785) 864-3661
FAX: (785) 864-5331
E-mail: sfm@clasmain.clas.ukans.edu

Fuller, Bryan B. Ph.D.
OUHSC
Research Park Building
800 North Research Parkway, Suite #400
Oklahoma City, OK 73104-3698 U.S.A.
Phone: (405) 271-2160
FAX: (405) 271-7152
E-mail: bryan-fuller@ouhsc.edu

Furumura, Minao Ph.D.
Kyushu University
Department of Dermatology
3-1-1 Maidashi
Fukuoka, 812-82 JAPAN
Phone: 81-92-642-5591
FAX: 81-92-642-5600
E-mail: mfurumur@dermatol.med.kyushu-u.ac.jp

Galbraith, Donald B. Ph.D.
Trinity College
Department of Biology
300 Summit Street
Hartford, CT 06106 U.S.A.
Phone: (860) 297-2350
FAX: (860) 297-2538
E-mail: donald.galbraith@trincoll.edu

Goncalves, Ruy S. M.D.
Hospital de Cirurgo Plastica
Department of Plastic Surgery
Av. Bosque Da Saude
C.E.P. 78.008-380
Cuiaba, Mato Grosso BRAZIL
Phone: 55-065-6425082
FAX: 55-065-6421043
E-mail: vitiligo@zaz.com.br

Granholm, Nels H. Ph.D.
South Dakota State University
Department of Biology & Microbiology
Northern Plains Biostress Laboratory 252
Box 2140D, SDSU
Brookings, SD 57007-2142 U.S.A.
Phone: (605) 688-4554
FAX: (605) 688-5624
E-mail: nels_granholm@sdstate.edu

Grimes, Pearl E. M.D.
321 N. Larchmont Blvd., Suite 617
Los Angeles, CA 90004 U.S.A.
Phone: (323) 467-4398
FAX: (323) 467-4488
E-mail: pegrimesmd@earthlink.net

Haberman, Herbert F. M.D.
Toronto Western Hospital
399 Bathurst Street
Toronto, Ontario M5T 2S8 Canada
Phone: (416) 603-5630
FAX: (416) 489-2960
E-mail:

Halaban, Ruth Ph.D.
Yale Medical School
Department of Dermatology
P.O. Box 208059
15 York Street
New Haven, CT 06520-8059 U.S.A.
Phone: (203) 785-4352
FAX: (203) 785-7234
E-mail: ruth.halaban@yale.edu

Halder, Rebat M. M.D.
Howard University
Department of Dermatology
2041 Georgia Avenue, NW
Washington, DC 20060 U.S.A.
Phone: (202) 865-6725
FAX: (202) 865-1757
E-mail:

Hearing, Elizabeth D.
DASS Manuscript
2247 Regina Drive
Clarksburg, MD 20871 U.S.A.
Phone: (301) 831-6279
FAX: (301) 865-1180
E-mail: hearing@dass-ms.com

Hearing, Vincent J. Ph.D.
NCI, National Institutes of Health
Laboratory of Cell Biology
Building 37, Room 1B25
9000 Rockville Pike
Bethesda, MD 20892 U.S.A.
Phone: (301) 496-1564
FAX: (301) 402-8787
E-mail: hearingv@nih.gov

Herlyn, Meenhard D.V.M.
The Wistar Institute
Program of Tumor Biology
3601 Spruce Street
Philadelphia, PA 19104-4268 U.S.A.
Phone: (215) 898-3950
FAX: (215) 898-0980
E-mail: herlynm@wista.wistar.upenn.edu

Hill, Helene Z. Ph.D.
New Jersey Medical School
Department of Radiology
185 South Orange Avenue, MSB F452
Newark, NJ 07103-2714 U.S.A.
Phone: (973) 972-3421
FAX: (973) 972-5592
E-mail: hill@umdnj.edu

Hoffman, Robert M. Ph.D.
AntiCancer, Inc.
7917 Ostrow Street
San Diego, CA 92111 U.S.A.
Phone: (858) 654-2555
FAX: (858) 268-4175
E-mail: all@anticancer.com

Hornyak, Thomas J. M.D., Ph.D.
Henry Ford Health Science Center
Department of Dermatology
One Ford Place, 5D
Detroit, MI 48202 U.S.A.
Phone: (313) 874-6376
FAX: (313) 876-2380
E-mail: thornya1@smtpgw.is.hfh.edu

Hou, Ling Ph.D.
NINDS, National Institutes of Health
Laboratory of Developmental Neurogenetics
Building 36, Room 5D04
36 Convent Drive, MSC 4160
Bethesda, MD 20892-4160 U.S.A.
Phone: (301) 496-9661
FAX: (301) 496-0899
E-mail: lhou8@codon.nih.gov

Houghton, Alan N. M.D.
Memorial Sloan Kettering Cancer Center
1275 York Avenue
New York, NY 10021 U.S.A.
Phone: (212) 639-7595
FAX: (212) 794-4352
E-mail: a-houghton@ski.mskcc.org

Hu, Dan-Ning M.D.
The New York Eye & Ear Infirmary
Department of Pathology & Laboratory Medicine
Tissue Culture Center
310 E. 14th Street
New York, NY 10003 U.S.A.
Phone: (212) 979-4148
FAX: (212) 677-1284
E-mail: dhu@nyee.edu

Im, Sungbin M.D.
Ajou University School of Medicine
Department of Dermatology
5 Wonchon-dong, Paldal-ku
Suwon, 442-721 South Korea
Phone: 82-331-219-5190 (5188)
FAX: 82-331-219-5189
E-mail: iiii@nuri.net

Ito, Shosuke Ph.D.
Fujita Health University
School of Health Sciences
Toyoake, Aichi 470-1192 Japan
Phone: 81-562-93-2595
FAX: 81-562-93-4595
E-mail: sito@fujita-hu.ac.jp

Iyengar, Bhanu
Institute of Pathology
PB No. 4909, SJ Hospital Campus
New Delhi, 110029 India
Phone: 91-011-664-797 (or 686-8402)
FAX: 91-011-686-8401
E-mail:

Jacobson, Eric S. M.D., Ph.D.
Virginia Commonwealth University
Department of Internal Medicine
McGuire Veterans Affairs Medical Center, Box 151
Richmond, VA 23249 U.S.A.
Phone: (804) 675-5000 (ext 3641)
FAX: (804) 675-5359
E-mail: jacobson.eric_s@richmond.va.gov

Jamal, Sumayah M.D., Ph.D.
New York University Medical Center
Department of Biochemistry
550 First Avenue
New York, NY 10016 U.S.A.
Phone: (212) 263-6007
FAX: (212) 263-8276
E-mail: jamals01@mcrcr0.med.nyu.edu

Kambe, Tetsu
Zotos International, Inc.
100 Tokeneke Road
Darien, CT 06820 U.S.A.
Phone: (203) 656-7862
FAX: (203) 656-7963
E-mail:

Kameyama, Koichiro
Aoyama Dermatologic Clinic
5-1-3 Mimaniaoyama 8F
Minato
Tokyo, 107-0062 JAPAN
Phone: 81-3-3499-1214
FAX: 81-3-3499-1281
E-mail: dr@aoyamahihuka.com

King, Richard A. M.D., Ph.D.
University of Minnesota
Department of Medicine - Genetics
Box 485 MAYO
420 Delaware Street, S.E.
Minneapolis, MN 55455 U.S.A.
Phone: (612) 624-0144
FAX: (612) 624-6645
E-mail: kingx002@tc.umn.edu

Klingler, W. Gerald M.D.
355 W. Carpenter, Suite A
Springfield, IL 62702 U.S.A.
Phone: (217) 744-2000
FAX: (217) 744-2004
E-mail: klingler@fginet.com

Kobayashi, Nobuhiko M.D., Ph.D.
Nara Medical University
Department of Dermatology
Kashihara
Nara, 634-8522 JAPAN
Phone: 81-744-29-8891
FAX: 81-744-25-8511
E-mail: nobuk@naramed-u.ac.jp

Kobayashi, Takeshi Ph.D.
ERATO Kusumi Membrane Organizer Project, JST
Kumazaki Bldg. 5-11-33 Chiyoda
Naka-Ku
Nagoya, 460-0012 JAPAN
Phone: 81-52-243-5222
FAX: 81-52-243-5211
E-mail: takeshik@kusumi.jst.go.jp

Kos, Lidia Ph.D.
Florida International University
Department of Biological Sciences
University Park Campus
Miami, FL 33199 U.S.A.
Phone: 305-348-6678
FAX: 305-348-1986
E-mail: kosl@fiu.edu

Kramer, Gregory J.
The Procter & Gamble Company
PO Box 538707
Cincinnati, OH 45253 U.S.A.
Phone: (513) 627-1310
FAX: (513) 627-0139
E-mail: kramer.gj@pg.com

Krauss, Achim H. Ph.D.
Allergan, Inc.
Department of Biological Sciences
2525 Dupont Drive
Irvine, CA 92612 U.S.A.
Phone: 714-246-4842
FAX: 714-246-5578
E-mail: krauss_achim@allergan.com

Kuliawat, Regina M. Ph.D.
Albert Einstein College of Medicine
Department of Medicine, Division of Endocrinology
1300 Morris Park Avenue
Bronx, NY 10461 U.S.A.
Phone: 718-430-8686
FAX: 718-430-8557
E-mail: kuliawat@aecom.yu.edu

Lamoreux, M. Lynn Ph.D.
8255 Sandy Point Road
Bryan, TX 77807 U.S.A.
Phone:
FAX:
E-mail: llamoreux@cvm.tamu.edu

Le Poole, I. Caroline Ph.D.
Loyola University Medical Center
Department of Pathology
Cancer Center, Bldg. 112, Room 3030
2160 South First Avenue
Maywood, IL 60153 U.S.A.
Phone: (708) 327-2032
FAX: (708) 327-3158
E-mail: ilepool@luc.edu

Lee, Mu-Hyoung M.D., Ph.D.
Kyunghee University Hospital
Department of Dermatology
1, Hoeki-Dong, Dongdaemun-Ku
Seoul, 130-702 SOUTH KOREA
Phone: 82-2-958-8512
FAX: 82-2-969-6538
E-mail: pibu@nuri.net

Lee, Peter K. M.D., Ph.D.
University of Minnesota
Department of Dermatology
Box 98, FUMC
420 Delaware Street, S.E.
Minneapolis, MN 55455 U.S.A.
Phone: (612) 625-5199
FAX: (612) 624-6678
E-mail: leexx078@tc.umn.edu

Lerner, Aaron B. M.D., Ph.D.
34 Old Mill Road
Woodbridge, CT 06525 U.S.A.
Phone: 203-397-3946
FAX: 203-397-3944
E-mail: aaron.lerner@yale.edu

Lister, James A. Ph.D.
University of Washington
Department of Biological Structure
Box 357420
Seattle, WA 98195-7420 U.S.A.
Phone: 206-616-7467
FAX: 206-543-1524
E-mail: jalister@u.washington.edu

Mahalingam, Harish Ph.D.
Avon Products, Inc.
Avon Place
Suffern, NY 10901 U.S.A.
Phone: (845) 369-2694
FAX: (845) 369-2899
E-mail: Harish.Mahalingam@avon.com

Manga, Prashiela Ph.D.
New York University
Dermatology
545 First Avenue, 8N
New York, NY 10016 U.S.A.
Phone: (212) 263-0570
FAX: (212) 263-8139
E-mail: mangap01@mcr.cr.med.nyu.edu

Matsumoto, Katsuo B.S.
POLA Laboratories
560 Kashio-Cho, Tozuka-Ku
Yokohama, 244 0812 Japan
Phone: 81-45-826-7231
FAX: 81-45-826-7249
E-mail: katsuom@pola.co.jp

Matsunaga, Naoko M.D.
2-15-2-101 Tsunogoro
Aoba-ku, Sendai
Miyagi, 980-0874 JAPAN
Phone: 81-22-263-8258
FAX: 81-18-829-2443
E-mail: Naoko.Matsunaga@mb5.seikyoe.ne.jp

McCormack, Wayne T. Ph.D.
University of Florida College of Medicine
Department of Pathology, Immunology & Lab
Medicine
1600 S.W. Archer Road
Box 100275
Gainesville, FL 32610-0275 U.S.A.
Phone: 352-392-7413
FAX: 352-392-9053
E-mail: mccormac@pathology.ufl.edu

Meadows, Gary G. Ph.D.
Washington State University
College of Pharmacy, Department of Pharmaceutical
Sciences
Box 646534
102 Wegner Hall on Stadium Way
Pullman, WA 99164-6534 U.S.A.
Phone: 509-335-4753
FAX: 509-335-5902
E-mail: meadows@mail.wsu.edu

Medrano, Estela E. Ph.D.
Baylor College of Medicine
Veterans Administration Medical Center
Research Service (5)
2002 Holcombe Drive
Houston, TX 77030 U.S.A.
Phone: (713) 791-1414 (ext. 4174)
FAX: (713) 794-7978
E-mail: medrano@bcm.tmc.edu

Meyskens, Frank L. Jr., M.D.
University of California
Cancer Center
101 City Drive
Orange, CA 92868 U.S.A.
Phone: (714) 456-6310
FAX: (714) 456-5039
E-mail: flmeyske@uci.edu

Miltenberger, Rosalynn J. Ph.D.
Oak Ridge National Laboratory
Life Sciences Division
P.O. Box 2009, MS 8077
Bear Creek Road, Y-12 Plant, Building 9210
Oak Ridge, TN 37831 U.S.A.
Phone: 865-574-3965
FAX: 865-574-1271
E-mail: miltenberger@bio.ornl.gov

Mintz, Beatrice Ph.D.
Institute for Cancer Research
Fox Chase Cancer Center
7701 Burholme Avenue
Philadelphia, PA 19111 U.S.A.
Phone: (215) 728-2479
FAX: (215) 728-3574
E-mail:

Morrison, Randall L. Ph.D.
Western Maryland College
Department of Biology
2 College Hill
Westminster, MD 21157 U.S.A.
Phone: (410) 857-2409
FAX: (410) 386-4613
E-mail: rmorriso@wmdc.edu

Nair, Sujit S. M.Sc.
National Centre for Cell Science
Lab No: 4
NCCS Complex, Pune University Campus
Ganeshkhind
Pune - 411007, Maharashtra INDIA
Phone: 91-020-5670922/31/41/51
FAX: 91-020-5672259
E-mail: sujit@nccs.yes.in sujitsn@hotmail.com

Nappi, Anthony J. Ph.D.
Loyola University of Chicago
Department of Biology
6525 North Sheridan Road
Chicago, IL 60626 U.S.A.
Phone: (773) 508-3632
FAX: (773) 508-3648
E-mail: anappi@orion.it.luc.edu

Newton, J. Michael Ph.D.
5965 N. Indian Trail
Tucson, AZ 85750 U.S.A.
Phone: (520) 626-4344
FAX:
E-mail: jnewton@u.arizona.edu

Nip, John Ph.D.
Unilever Research U.S.
Department of Skin Bioscience
45 River Road
Edgewater, NJ 07020 U.S.A.
Phone: 201-840-2517
FAX: 201-840-8291
E-mail: john.nip@unilever.com

Nordlund, James J. M.D.
University of Cincinnati
Department of Dermatology
P.O. Box 670592
Cincinnati, OH 45267-0592 U.S.A.
Phone: (513) 558-6242
FAX: (513) 558-0198
E-mail: nordlujj@email.uc.edu

Oetting, William S. Ph.D.
University of Minnesota
Department of Medicine - Genetics
Box 485 Mayo
420 Delaware Street S.E.
Minneapolis, MN 55455 U.S.A.
Phone: (612) 624-1139
FAX: (612) 624-6645
E-mail: bill@lenti.med.umn.edu

Orlow, Seth J. M.D., Ph.D.
New York University Medical Center
Department of Dermatology
550 First Avenue, Room H-100
New York, NY 10016 U.S.A.
Phone: (212) 263-5070
FAX: (212) 263-5819
E-mail: seth.orlow@med.nyu.edu

Ortonne, Jean Paul M.D.
Hopital Archet 2
Department of Dermatology
B.P. 79
Nice, Cedex 3 06202 France
Phone: 33-0492-03-64-88
FAX: 33-0492-03-65-60
E-mail: ortonne@unice.fr

Park, Hee-Young Ph.D.
Boston University School of Medicine
Department of Dermatology
80 East Concord Street, J-205
Boston, MA 02118 U.S.A.
Phone: (617) 638-5500
FAX: (617) 638-5515
E-mail: hypark@acs.bu.edu

Park, Kyoung C. M.D., Ph.D.
Seoul National University
College of Medicine
28 Yungun-dong, Chongno-gu
Seoul, 110-744 South Korea
Phone: 82-2-3668-7474
FAX: 82-2-747-7933
E-mail: gcpark@snu.ac.kr

Pavan, William J. Ph.D.
National Institutes of Health
National Center for Human Genome Research
LGDR, Building 49, Room 4A82
9000 Rockville Pike
Bethesda, MD 20892 U.S.A.
Phone: (301) 496-7584
FAX: (301) 402-2170
E-mail: bpavan@nhgri.nih.gov

Pawelek, John M. Ph.D.
Yale Medical School
Department of Dermatology
333 Cedar Street
New Haven, CT 06510 U.S.A.
Phone: (203) 785-4411
FAX: (203) 785-7637
E-mail: john.pawelek@yale.edu

Pereira, Elizabeth A. M.S.
Universidade de Sao Paulo
Dep Fisiologia, Inst. Biociencias
USP CP 11176
do Matao, Travessa 14
Sao Paulo, SP 05422-970 BRAZIL
Phone: 55-11-818-7523
FAX: 55-11-818-7422
E-mail: bertacea@hotmail.com

Pillai, Sreekumar G.
Glaxo Wellcome
Mai.A1112A, Five Moore Drive
Research Triangle Park, NC 27709 U.S.A.
Phone: 919-483-1815
FAX:
E-mail: sxp66513@glaxowellcome.com

Pomerantz, Seymour H. Ph.D.
59 Sereni Street, Apt. 8
Rehovot, 76240 ISRAEL
Phone: 011-972-8-931-6541
FAX:
E-mail: spomerantz@bezeqint.net

Potterf, S. Brian Ph.D.
National Institutes of Health
National Center for Human Genome Research
LGDR, Building 49, Room 4A82
9000 Rockville Pike
Bethesda, MD 20892 U.S.A.
Phone: (301) 402-2036
FAX: (301) 402-2170
E-mail: sbpchika@erols.com

Pratt, Michael J.
Talisman Zoological Sciences, Inc.
Ichthyology/Herpetology
3273 A Street
San Diego, CA 92102 U.S.A.
Phone: 619-233-9784
FAX: 619-233-9784
E-mail: mpratt@zoologicalsciences.com

Quevedo, Walter C. Ph.D.
Brown University
Division of Biology & Medicine
Box G-B599
Providence, RI 02912 U.S.A.
Phone: (401) 863-2758
FAX: (401) 863-1971
E-mail: walter_quevedo_jr@brown.edu

Raible, David W. Ph.D.
University of Washington
Department of Biological Structure
Box 357420
Seattle, WA 98195-7420 U.S.A.
Phone: 206-616-1048
FAX: 206-543-1524
E-mail: draible@u.washington.edu

Rhodes, Arthur R. M.D., M.P.H.
Rush-Presbyterian-St. Luke's Medical Center
Department of Dermatology
1653 Congress Parkway, Kidston 507
Chicago, IL 60612 U.S.A.
Phone: (312) 942-6096
FAX: (312) 942-7778
E-mail: arthur_rhodes@rush.edu

Sampson, Ruth
238 Greenfield Avenue
San Mateo, CA 94403 U.S.A.
Phone: 650-572-2575
FAX: 650-341-4102
E-mail: ruths@rahul.net

Sarangarajan, Rangaprasad Ph.D.
University of Cincinnati
Department of Dermatology
PO Box 670592
Cincinnati, OH 45267-0592 U.S.A.
Phone: (513) 558-6242
FAX: (513) 558-0198
E-mail:

Sasaki, Minoru
Kanebo, Ltd.
Basic Research Laboratory
5-3-28, Kotobuki-cho
Odawara, Kanagawa 250-0002 JAPAN
Phone: 81-465-34-6116
FAX: 81-465-34-3037
E-mail: msasaki@oda.cos.kanebo.co.jp

Schwahn, Denise J. Ph.D.
Baylor College of Medicine
Huffington Center on Aging, M320
One Baylor Plaza
Houston, TX 77030 U.S.A.
Phone: 713-798-1618
FAX: 713-798-4161
E-mail: dschwahn@bcm.tmc.edu

Scott, Glynis A. M.D.
University of Rochester School of Medicine
Department of Dermatology
601 Elmwood Avenue, Box 697
Rochester, NY 14642 U.S.A.
Phone: (716) 275-3871
FAX: (716) 273-1346
E-mail: Glynis_Scott@urmc.rochester.edu

Scott, Ian R. Ph.D.
Unilever Research U.S.
45 River Road
Edgewater, NJ 07020 U.S.A.
Phone: (201) 840-2919
FAX:
E-mail:

Scott, M. Cathy M.S.
University of Cincinnati
Department of Dermatology
231 Bethesda Avenue, Room 7049
PO Box 670592
Cincinnati, OH 45267-0592 U.S.A.
Phone: 513-558-6242
FAX: 513-558-0198
E-mail: scottmy@email.uc.edu

Seiberg, Miri Ph.D.
J & J CPWW
Skin Research Center
199 Grandview Road
Skillman, NJ 08558 U.S.A.
Phone: (908) 874-2325
FAX: (908) 874-2323
E-mail: mseiber@cpus.jnj.com

Setaluri, Vijayasradhi Ph.D.
Wake Forest University School of Medicine
Department of Dermatology
Winston-Salem, NC 27157 U.S.A.
Phone: (336) 716-3273
FAX: (336) 716-7732
E-mail: setaluri@wfubmc.edu

Shi, Licheng M.S.
Allergan, Inc.
Department of Biological Sciences
2525 Dupont Drive
Irvine, CA 92612 U.S.A.
Phone: 714-246-5927
FAX: 714-246-5578
E-mail: shi_licheng@allergan.com

Shioda, Toshihiro M.D., Ph.D.
MGH Cancer Center
Department of Tumor Biology
13th Street, Building 149, 7th Floor
Charlestown, MA 02129 U.S.A.
Phone: (617) 726-5625
FAX: (617) 726-5637
E-mail: shioda@helix.mgh.harvard.edu

Shriver, Mark D. Ph.D.
Pennsylvania State University
Department of Anthropology
409 Carpenter Building
University Park, PA 16802 U.S.A.
Phone: 814-863-1078
FAX: 814-863-1474
E-mail: mds17@psu.edu

Silvers, Willys K. Ph.D.
University of Pennsylvania
Department of Genetics
Philadelphia, PA 19104-6145 U.S.A.
Phone: (215) 898-5174
FAX: (215) 573-5892
E-mail:

Slominski, Andrzej T. M.D., Ph.D.
University of Tennessee
Department of Pathology
899 Madison Avenue, 5th Floor
Memphis, TN 38163 U.S.A.
Phone:
FAX:
E-mail:

Solis-Herrera, Arturo M.D.
Lopez Velarde 108, centro
Aguascalientes, Ags, CP 20000 MEXICO
Phone: 052-49157934
FAX: 0529162901
E-mail: svdadmda@ags,ciateq.mx

Sugumaran, Manickam Ph.D.
University of Massachusetts at Boston
Department of Biology
100 Marrissey Boulevard
Boston, MA 02125 U.S.A.
Phone: (617) 287-6600
FAX: (617) 287-6650
E-mail: manickam.sugumaran@umb.edu

Swank, Richard T. Ph.D.
Roswell Park Cancer Institute
Department of Molecular and Cell Biology
Elm & Carlton Streets
Buffalo, NY 14263 U.S.A.
Phone: (716) 845-3429
FAX: (716) 845-8169
E-mail: richard.swank@roswellpark.org

Szabo, George Ph.D.

, U.S.A.

Phone:

FAX:

E-mail:

Tada, Akihiro Ph.D.

POLA Research & Development Laboratories

560 Kashio-cho, Totsuka-ku

Yokohama, 244-0812 Japan

Phone: 81-45-826-7232

FAX: 81-45-826-7249

E-mail: akihiro@pola.co.jp

Tan, Siak-Khim M.B.B.S.

35 Keris Drive

Singapore, 456998

Phone: 65-834-9315

FAX: 65-733-2983

E-mail: sktan@dr.com

Thibaudeau, Giselle Ph.D.

Mississippi State University

Department of Biological Sciences

Harned Hall

Mississippi State, MS 39762 U.S.A.

Phone: (662) 325-7572

FAX: (662) 325-7939

E-mail: giselle@biology.msstate.edu

Tomecki, Kenneth J. M.D.

Cleveland Clinic A61

9500 Euclid Avenue

Cleveland, OH 44195 U.S.A.

Phone: (216) 444-2651

FAX: (216) 445-6365

E-mail:

Upson, Rosalyn H. Ph.D.

Oregon State University

Department of Bioengineering

116 Gilmore Hall

Corvallis, OR 97331-3906 U.S.A.

Phone: 541-737-3218

FAX: 541-737-2082

E-mail:

Visconti, Maria A.

Inst. Biociencias - USP

R. Do Matao - Travessa 14

Cidade Universitaria CP 11176

Sao Paulo, SP 05422-970 Brazil

Phone: 55-11-818-7610

FAX: 55-11-818-7422

E-mail: maviscon@usp.br

Wang, Xiaoli M.S.

University of Arkansas

Department of Poultry Science

Poultry Science Center

Fayetteville, AR 72701 U.S.A.

Phone: 501-575-7627

FAX: 501-575-7139

E-mail: xiwang@comp.uark.edu

Xu, Weidong Ph.D.

Baylor College of Medicine

Department of Cell Biology

Huffington Center on Aging

One Baylor Plaza, M320

Houston, TX 77054 U.S.A.

Phone: (713) 791-1414 (ext. 4167)

FAX: (713) 794-7938

E-mail: weidongx@bcm.tmc.edu

Yoshida, Masaki

Kanebo, Ltd.

Basic Research Laboratory

5-3-28, Kotobuki-cho, Odawara-shi

Kanagawa-ken, 250-0002 JAPAN

Phone: 81-495-34-6116

FAX: 81-495-34-3037

E-mail: myos@oda.cos.kanebo.co.jp

Zeise, Lisa Ph.D.

Mel-CO

4255 County Road MM

Orland, CA 95963 U.S.A.

Phone: (530) 865-9033

FAX: (530) 865-4092

E-mail:

Zhang, Hua (Kelly) Ph.D.
Unilever Research, US
SKN Laboratory
45 River Road
Edgewater, NJ 07020 U.S.A.
Phone: (201) 840-2320
FAX: (201) 840-8291
E-mail: kelly.zhang@unilever.com

Zhuang, John C. Ph.D.
Procter & Gamble Company
Skin Beauty Care Technology
P.O. Box 538707
Cincinnati, OH 45215 U.S.A.
Phone: 513-627-0695
FAX: 513-627-0575
E-mail: zhuang.jc@pg.com