



Volume 7 Number 1

March,1999

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 at which you heard work 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. If you should have a change of affiliation or address, we'd like to know that, too. 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 home page page has a new URL address which will result in faster transfer of information to your computer than before. The new address is <http://www.cbc.umn.edu/paspcr>. Please update your existing **PASPCR** link to this new address. We have now included a page that has positions available and positions wanted. Postings for Positions Available will be open to all individuals 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 data for any submitted postings. The **PASPCR Web** page also contains information on 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, the **PASPCR** membership directory is available on the **PASPCR Web** page; please notify us if you wish any or all of your information to be deleted or modified on that site. If there is additional information that you wish to have added to this web page, please let us know. Send any comments and/or suggestions to the **PASPCR** WebMaster, Bill Oetting at bill@lenti.med.umn.edu.

IN THIS ISSUE

Introduction.....	p 1
PASPCR Contact Information.....	p 2
Calendar of Events.....	p 2
Welcome to New Members.....	p 3
Corporate Sponsors.....	p 3
Letter from the President.....	p 3
Invitation to the XVII th I P C C.....	p 4
Report 13 th Meeting of the JSPCR.....	p 4
Positions Wanted / Available.....	p 5
Members in the News.....	p 6
Bibliography.....	p 6
Membership List.....	p 19

**PanAmerican Society for
Pigment Cell Research**

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

Officers

Richard A. King
President

Abdel-Malek or Pawelek
President-Elect

James J. Nordlund
Secretary/Treasurer

Council Members

Gregory S. Barsh

Jean L. Bologna

M. Lynn Lamoreux

Kenneth A. Mason

Estela E. Medrano

Frank L. Meyskens, Jr.

David A. Norris

William J. Pavan

John M. Pawelek

IFPCS Representative

Sally Frost-Mason
past-President

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

Publications Committee:

Dr. Jean L. Bologna

Department of Dermatology
Yale University School of Medicine
333 Cedar Street
New Haven, CT 06510
Phone: (203) 785-4092
FAX: (203) 785-7637

Dr. Estela E. Medrano

Veterans Administration Medical Center
Research Service (5)
2002 Holcombe Drive
Houston, TX 77030
Phone: (713) 791-1414 ext 4174
FAX: (713) 794-7978

Dr. William J. Pavan (chair)

Laboratory of Genetic Disease Research
Building 49 Room 4A66
National Center for Human Genome Research
National Institutes of Health
Bethesda, MD 20892
Phone: (301) 496-7584
FAX: (301) 402-2170

Calendar of Events :

May 5 - 9, 1999 Society for Investigative Dermatology, Annual Meeting to be held in Chicago, IL (contact: [http://www/sidnet.org](http://www.sidnet.org))

Oct 30 - Nov 3, 1999 XVIIth International Pigment Cell Conference, to be held in Nagoya, Japan (contact: Dr. Shosuke Ito, Fujita Health University School of Health Sciences, Toyoake, Aichi 470-11, Japan; Phone: +81-562-93-2595; Fax: +81-562-93-4595; Email: sito@fujita-hu.ac.jp)

Jun 25 - 28, 2000 IXth Annual Meeting of the PanAmerican Society for Pigment Cell Research, to be held in College Station, TX (contact: Dr. Lynn Lamoreux, Department of Veterinary Pathobiology, The Texas Veterinary Medical Center, Texas A & M University, College Station, TX 77843-4467; Phone: (409) 845-6084; FAX: (409) 845-9972; Email: LLAMOREUX@VETMED.TAMU.EDU)

Welcome to New Members

by James J Nordlund / Raymond Boissy

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

Rosalyn J. Miltenberger

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 / Raymond Boissy

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

GOLD Corporate Patrons

ICN Pharmaceuticals, Inc
Lawrence M Gelb Research
Foundation of Clairol, Inc
Ortho Pharmaceutical Corp

SILVER Corporate Patrons

Avon Products, Inc
Chesebrough-Pond's USA Co
Procter and Gamble Co
Shiseido Co, Ltd

Corporate Patrons

Combe, Inc.
Galderma Laboratories, Inc
Stiefel Laboratories

Letter from the President

by Richard A. King

Dear Colleagues:

Welcome from the 4th President of the PASPCR. We have now been in existence for nearly 10 years and continue to be a strong energetic society. What an amazing 10 years it has been! The explosion of molecular biology and cell biology has given us insight into the wonders of the pigment cell that were only dreamed of by those that brought us into this field.

We are now about to turn to a new century, with great hope and expectations for the future. I would like the PASPCR to play an important role in your academic and professional life as we move forward. To accomplish this, we will need to continue and expand the growth of our Society and broaden ourselves through collaborations with other interested in pigment cell biology, genetics, and photobiology. I will be calling on all of you to participate in this effort in the three years I am in office. I also hope to have more Society members participating in our various activities. We have important committees and working groups that will be expanded to include a greater share of the membership.

Previous officers and council members of the PASPCR have provided outstanding leadership and guidance over the past 10 years and I hope to be able to continue with these high standards. We can work together to make the PASPCR even better in the future, and I look forward to working with each of you in the next exciting three years.

Richard A. King

Invitation to the XVIIth IPCC (International Pigment Cell Conference)

by Shosuke Ito

Invitation to the XVIIth International Pigment Cell Conference Nagoya Congress Center
Nagoya, Japan October 30 - November 3, 1999

Dear Colleague:

After the inauguration of the International Federation of Pigment Cell Societies (IFPCS) in Kobe in 1990, the International Pigment Cell Conferences (IPCC) rotate among the European, American, and Asian continents, hosted by one of the three regional societies: the ESPCR, the JSPCR, and the PASPCR. The 15th IPCC was thus held in London in 1993, chaired by Professor Patrick A. Riley, and the 16th IPCC was recently held in Anaheim, California, chaired by Professor Frank L. Meyskens, Jr.

It is our great honor and real pleasure to inform you that the next 17th IPCC will be held in Nagoya, Japan in 1999, co-organized by the IFPCS and the JSPCR. We heartily hope that pigment cell biologists and clinicians will join together in Nagoya in October 1999 to present their latest achievements in the exciting world of pigment cell research. Your participation will be most important for the scientific success of this meeting. Most information, such as hotel and registration information, can be obtained through our Web Site: <http://www.fujita-hu.ac.jp/IPCCNagoya/>.

The city of Nagoya, the 4th largest in Japan, enjoys a rich history of traditional culture and a reputation for world-renowned high-tech industries. Nagoya is located at the center of Japan and is easy to access: the Nagoya International Airport is directly connected with 30 cities around the world. The conference site, the Nagoya Congress Center, is newly built and has ample spaces for the participants to discuss and exchange ideas, which we believe will certainly bring about fruitful collaborations.

We will follow the good tradition of the IFPCS leadership in directing scientific programs to unify the three regional societies. Within such a framework, we wish to place special emphasis on poster presentations. We hope to provide a certain number of travel grants for young investigators to attend this meeting. In order to be eligible for such a grant, an applicant has to be a member of one of the three regional societies for at least one year prior to the meeting. We are also planning banquet and social activities in such a way to make your visit to Nagoya most enjoyable and memorable. It will be our great privilege to welcome you and your colleagues to Nagoya in 1999.

Shosuke Ito, Ph.D.

Kazumasa Wakamatsu, Ph.D.

Chair, IPCC Nogoya

Secretary-General, IPCC Nagoya

For further information please contact us at: Fujita Health University School of Health Sciences, Toyoake, Aichi 470-11, Japan; *Phone:* +81-562-93-2595; *Fax:* +81-562-93-4595; *Email:* sito@fujita-hu.ac.jp

Meeting Report

by Yoko Funasaka and Masamitsu Ichihashi

13th Annual Meeting of the Japanese Society of Pigment Cell Research

Department of Dermatology, Kobe University School of Medicine, Kobe, 650-0017, Japan

The 13th Annual Meeting of the Japanese Society for Pigment Cell Research (JSPCR) was held at the Kobe Medical Hall on December 5 and 6, 1998 in Kobe, Japan with approximately 180 basic scientists and medical researchers, including foreign guests and participants. The Scientific Program consisted of 2 invited lectures, 1 symposium (with 3 speakers), 5 research seminars, and 37 poster presentations.

The program put an emphasis on special lectures as follows:

* **Invited Lectures**

1. The Rb/E2F pathway in normal and malignant melanocytes.

Ruth Halaban, Department of Dermatology, Yale University School of Medicine

2. Photobiology of melanins in human and mouse skin.

Vincent Hearing, Lab of Cell Biology, National Cancer Institute, National Institute of Health

*** Symposium "Processing Mechanisms of Melanogenic Proteins"**

1. Regulation of intracytoplasmic transport of tyrosinase-gene family protein (TRP-1).

Kowichi Jimbow, Department of Dermatology, Sapporo Medical University

2. Tumor induced aberrant processing and degradation of tyrosinase.

Ruth Halaban, Department of Dermatology, Yale University School of Medicine

3. Profile of melanoma epitopes recognized by T cells.

Yutaka Kawakami, Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University, School of Medicine

*** Research Seminars**

1. Function of tumor suppressor genes.

Tetsu Akiyama, Dept. of Mol. Gen. Information, Inst. of Mol. Cell Bioscience, Univ. of Tokyo

2. Regulation of the interferon systems by the IRF-family transcription factors.

Tadatsugu Taniguchi, Department of Immunology, Graduate School of Medicine and Faculty of Medicine, University of Tokyo

3. Function of MITF (Microphthalmia-associated Transcription Factor).

Masayoshi Tachibana, Research Institute, Saitama Cancer Center

4. SCF transgenic mice to investigate its function on melanogenesis in vivo.

Takahiro Kunisada, Department of Immunology, School of Life Science, Faculty of Medicine, Tottori University

5. New aspects of biochemistry of pheomelanin.

Shosuke Ito, Fujita Health University, School of Health Sciences

Since scientists from various fields such as biologists, chemists, dermatologists, and company researchers gathered at this meeting, the general session was programmed to be presented by posters and compact oral presentations to get a mutually better understanding of recent progress in different fields.

Previous JSPCR meetings have been held only for Japanese members. This time, however, we announced the date and place of this meeting internationally by Internet as well as through our acquaintances of this field in Asia. Six out of 37 general papers were presented by foreign participants, mostly from Asia. Therefore, the meeting was like a small International Pigment Cell Conference in Asia. The meeting was only one and half days long, however, we hope all participants enjoyed the meeting in Kobe, which has almost fully recovered to its previous active and beautiful state as a port city after the big earthquake attacked it 4 years ago. We further hope that all attendees got something new which will be useful for their future research work.

Positions - Wanted and Available :

Postdoctoral Positions. in the Department of Cell Biology at the NYU School of Medicine are available to study the biogenesis of melanosomes using a combined cellular, molecular and genetic approach. Prior experience in molecular or cell biology required. Applications from those with prior experience with yeast, Drosophila etc. interested in applying their skills to a mammalian system with strong genetics are especially welcome. A track record of productivity is essential. Send CV, brief description of experience and names of 3 references to: Seth J. Orlow, MD, PhD, NYU Medical Center, 560 First Avenue Room H-100, New York, NY 10016. Fax 212-263-5819, email: orlows01@mccr.med.nyu.edu

Postdoctoral Research Associate - Position available to study the biology of human inherited disorders of pigmentation using mouse knockout technology. The successful applicant will have a Ph.D. and/or M.D. with experience in cell biology and molecular biology. Experience with production of knockout mice using ES cell technology 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

Members in the News -

Gregory Barsh - has been selected as the winner of the Takeuchi Medal to be presented to him at the Banquet of the International Pigment Cell Conference in Nagoya this fall.

Vincent Hearing - was selected as the co-winner of the Myron Gordon Award (with Shosuke Ito) to be presented to him at the Banquet of the International Pigment Cell Conference in Nagoya this fall.

Shosuke Ito - was selected as the co-winner of the Myron Gordon Award (with Vincent Hearing) to be presented to him at the Banquet of the International Pigment Cell Conference in Nagoya this fall.

Bibliography :

The Bibliography published in this issue covers the period November, 1998 through January, 1999. 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. 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

- Krol S, Liebler DC: Photoprotective actions of natural and synthetic melanins. *Chem.Res.Toxicol.* 11:1434-1440 (1998).
- Tsuboi T, Kondoh H, Hiratsuka J, Mishima Y: Enhanced melanogenesis induced by tyrosinase gene-transfer increases boron-uptake and killing effect of boron neutron capture therapy for amelanotic melanoma. *Pigm.Cell Res.* 11:275-282 (1998).
- Sodi SA, Chakraborty AK, Platt JT, Kolesnikova N, Rosenblat S, KehYen A, Bologna JL, Rachkovsky ML, Orlov SJ, Pawelek JM: Melanoma x macrophage fusion hybrids acquire increased melanogenesis and metastatic potential: Altered N-glycosylation as an underlying mechanism. *Pigm.Cell Res.* 11:299-309 (1998).
- Yokota T, Nishi H, Kubota Y, Mizoguchi M: The inhibitory effect of glabridin from licorice extracts on melanogenesis and inflammation. *Pigm.Cell Res.* 11:355-361 (1998).
- Oshima N, Nakata E, Ohta M, Kamagata S: Light-induced pigment aggregation in xanthophores of the medaka, *Oryzias latipes*. *Pigm.Cell Res.* 11:362-367 (1998).
- Kawamura C, Tsujimoto T, Tsuge T: Targeted disruption of a melanin biosynthesis gene affects conidial development and UV tolerance in the Japanese pear pathotype of *Alternaria alternata*. *Mol.Plant Microbe.Interaction.* 12:59-63 (1999).
- Novellino L, d'Ischia M, Prota G: Nitric oxide-induced oxidation of 5,6-dihydroxyindole and 5,6-dihydroxyindole-2-carboxylic acid under aerobic conditions: Non-enzymatic route to melanin pigments of potential relevance to skin (photo)protection. *Bba.Gen.Subjects.* 1425:27-35 (1998).
- Tuma MC, Zill A, LeBot N, Vernos I, Gelfand V: Heterotrimeric kinesin II is the microtubule motor protein responsible for pigment dispersion in *Xenopus* melanophores. *J.Cell Biol.* 143:1547-1558 (1998).
- MalchiodiAlbedi F, Feher J, Caiazza S, Formisano G, Perilli R, Falchi M, Petrucci TC, Scorcia G, TombranTink J: PEDF (Pigment Epithelium-Derived Factor) promotes increase and maturation of pigment granules in pigment epithelial cells in neonatal albino rat retinal cultures. *Int.J.Dev.Neurosci.* 16:423-432 (1998).
- Nery LEM, daSilva MA, Castrucci AMD: Role of cyclic nucleotides in pigment translocation within the freshwater shrimp, *Macrobrachium potiiuna*, erythrophore. *J.Comp.Physiol.B.* 168 :624-630 (1998).
- Gibson LF, George AM: Melanin and novel melanin precursors from *Aeromonas media*. *FEMS Microbiol.Lett.* 169:261-268 (1998).
- Penna D, Schmidt A, Beermann F: Tumors of the retinal pigment epithelium metastasize to inguinal lymph nodes and spleen in tyrosinase-related protein 1/SV40 T antigen transgenic mice. *Oncogene* 17:2601-2607 (1998).
- Slominski A, Paus R, Mihm MC: Inhibition of melanogenesis as an adjuvant strategy in the treatment of melanotic melanomas: Selective review and hypothesis. *Anticancer Res.* 18:3709-3715 (1998).
- Slawson MH, Wilkins DC, Rollins DE: The incorporation of drugs into hair: Relationship of hair color and melanin concentration to phencyclidine incorporation. *J.Anal.Toxicol.* 22:406-413 (1998).
- Giambernardi TA, Rodeck U, Klebe RJ: Bovine serum albumin reverses inhibition of RT-PCR by melanin. *Biotechniques* 25:564 (1998).

- Blarzino C, Mosca L, Foppoli C, Coccia R, DeMarco C, Rosei MA: Lipoxygenase/H₂O₂-catalyzed oxidation of dihydroxyindoles: Synthesis of melanin pigments and study of their antioxidant properties. *Free Radical.Biol.Med.* 26:446-453 (1999).
- Cherqui A, Duvic B, Reibel C, Brehelin M: Cooperation of dopachrome conversion factor with phenoloxidase in the eumelanin pathway in haemolymph of *Locusta migratoria* (Insecta). *Insect Biochem.Molec.Biol.* 28:839-848 (1998).
- McNamara JC, Ribeiro M: Kinetic characterization of pigment migration and the role of the cytoskeleton in granule translocation in the red chromatophores of the shrimp *Macrobrachium olfersii* (Crustacea, Decapoda). *J.Exp.Zool.* 283:19-30 (1999).
- Sadzot B, Sheldon J, Flesher J, Dannals RF, Schachat AP, Frost JJ: Tracers for imaging melanin with positron emission tomography. *Synapse* 31:5-12 (1999).
- Rogers SL, Tint IS, Gelfand VI: In vitro motility assay for melanophore pigment organelles. *Molecular.Motors.and.the.Cytoskeleton*, Pt.B.298. 361- 372:-372 (1998).
- Drewa G, Schachtschabel DO, Palgan K, Grzanka A, Sujkowska R: The influence of rutin on the weight, metastasis and melanin content of B16 melanotic melanoma in C57BL/6 mice. *Neoplasma.* 45:266-271 (1998).
- Zuasti A, JimenezCervantes C, GarciaBorron JC, Ferrer C: The melanogenic system of *Xenopus laevis*. *Arch.Histol.Cytol.* 61:305-316 (1998).
- Kim JC, Min JY, Kim HT, Kim BS, Kim YS, Kim BT, Yu SH, Yamaguchi I, Cho KY: Target site of a new antifungal compound KC10017 in the melanin biosynthesis of *Magnaporthe grisea*. *Pestic.Biochem.Physiol.* 62:102-112 (1998).
- Liu L, Wakamatsu K, Ito S, Williamson PR: Catecholamine oxidative products, but not melanin, are produced by *Cryptococcus neoformans* during neuropathogenesis in mice. *Infec.Immunity.* 67:108-112 (1999).
- Schnitzler N, PeltrocheLlacsahuanga H, Bestier N, Zundorf J, Lutticken R, Haase G: Effect of melanin and carotenoids of *Exophiala* (Wangiella) dermatitidis on phagocytosis, oxidative burst, and killing by human neutrophils. *Infec.Immunity.* 67:94-101 (1999).
- Lindquist NG, Larsson BS, Stjernschantz J, Sjoquist B: Age-related melanogenesis in the eye of mice, studied by microautoradiography or H-3-methimazole, a specific marker of melanin synthesis. *Exp.Eye Res.* 67:259-264 (1998).
- Prota G, Hu DN, Vincensi MR, McCormick SA, Napolitano A: Characterization of melanins in human irides and cultured uveal melanocytes from eyes of different colors. *Exp.Eye Res.* 67:293-299 (1998).
- Menter JM, Patta AM, Hollins TD, Moore CL, Willis I: Photoprotection of mammalian acid-soluble collagen by cuttlefish sepia melanin in vitro. *Photochem.Photobiol.* 68:532-537 (1998).

MELANOCYTES & KERATINOCYTES

- Ablett E, Pedley J, Dannoy PA, Sturm RA, Parsons PG: UVB-specific regulation of gene expression in human melanocytic cells: cell cycle effects and implication in the generation of melanoma. *Mutat.Res.Fundam.Mol.Mech.Mut.* 422:31-41 (1998).
- Alexeev V, Yoon K: Stable and inheritable changes in genotype and phenotype of albino melanocytes induced by an RNA-DNA oligonucleotide. *Nat.Biotechnol.* 16:1343-1346 (1998).
- Ao Y, Park HY, OlazolaHorn S, Gilchrest BA: Activation of cAMP-dependent protein kinase is required for optimal alpha-melanocyte-stimulating hormone-induced pigmentation. *Exp.Cell Res.* 244:117-124 (1998).
- Argenziano G, Fabbrocini G, Carli P, DeGiorgi V, Sammarco E, Delfino M: Epiluminescence microscopy for the diagnosis of doubtful melanocytic skin lesions - Comparison of the ABCD rule of dermatoscopy and a new 7-Point checklist based on pattern analysis. *Arch.Dermatol.* 134:1563-1570 (1998).
- BessouTouya S, Picardo M, Maresca V, SurleveBazeille JE, Pain C, Taieb A: Chimeric human epidermal reconstructs to study the role of melanocytes and keratinocytes in pigmentation and photoprotection. *J.Invest.Dermatol.* 111:1103-1108 (1998).
- Bhatnagar V, Ramalah A: Characterization of Mg²⁺-ATPase activity in isolated B16 murine melanoma melanosomes. *Mol.Cell Biochem.* 189:99-106 (1998).
- Bora N, Conway SJ, Liang HA, Smith SB: Transient overexpression of the *Microphthalmia* gene in the eyes of *Microphthalmia* vitiligo mutant mice. *Develop.Dynam.* 213:283-292 (1998).
- Bora N, Defoe D, Smith SB: Evidence of decreased adhesion between the neural retina and retinal pigmented epithelium of the *Mitf*(Vit) (Viteligo) mutant mouse. *Cell Tissue Res.* 295:65-75 (1999).
- Braun RP, Lemonnier E, Guillod J, Skaria A, Salomon D, Saurat JH: Two types of pattern modification detected on the follow-up of benign melanocytic skin lesions by digitized epiluminescence microscopy. *Melanoma.Res.* 8:431-437 (1998).
- Carrillo E, Marchal JA, Prados J, Melguizo C, Velez C, Arena N, Alvarez L, Serrano S, Aranega A: Optimization of the tyrosinase mRNA probe to detect circulating melanocytes with reverse transcription and polymerase chain reaction. *Cell Mol.Biol.* 44:1247-1252 (1998).
- Cockayne SE, Gawkrödger DJ: Hamartomatous congenital melanocytic nevi showing secondary anetoderma-like changes. *J.Am.Acad.Dermatol.* 39:843-845 (1998).
- Edward DP, Wax MB: Congenital lenticular pigmentation. *Br.J.Ophthalmol.* 82:1344-1344 (1998).
- Fang D, Dockery P, Weatherhead B: Stereological studies of the effects of alpha-MSH and cAMP on melanosomes in melanoma cells. *Pigm.Cell Res.* 11:337-344 (1998).
- Fritz B, Kuster W, Orstavik KH, Naumova A, Spranger J, Rehder H: Pigmentary mosaicism in hypomelanosis of Ito - Further evidence for functional disomy of Xp. *Hum.Genet.* 103:441-449 (1998).
- Gembitsky DS, Reichelt KL, Elgjo K: Antiproliferative effect of the tripeptide PyroGlu-Phe- GlyNH(2) on murine melanocytes: Transitory delay of cell growth in vitro and the cell cycle specificity. *Exp.Cell Res.* 243:367-374 (1998).
- Gunduz K, Shields JA, Shields CL, Eagle RC: Periorbital cellular blue nevus leading to orbitopalpebral and intracranial melanoma. *Ophthalmology.* 105:2046-2050 (1998).
- Haedersdal M, Gniadecka M, Efsen J, BechThomsen N, Keiding J, Wulf HC: Side effects from the pulsed dye laser: The importance of skin pigmentation and skin redness. *Acta Derm.Venereol.[Stockh.]* 78:445-450 (1998).

- Hedley SJ, Metcalfe R, Gawkrödger DJ, Weetman APP, MacNeil S: Vitiligo melanocytes in long-term culture show normal constitutive and cytokine-induced expression of intercellular adhesion molecule-1 and major histocompatibility complex class I and class II molecules. *Brit.J.Dermatol.* 139:965-973 (1998).
- Johansson O, Liu PY, Bondesson L, Nordlind K, Olsson MJ, Lontz W, Verhofstad A, Liang Y, Gangi S: A serotonin-like immunoreactivity is present in human cutaneous melanocytes. *J.Invest.Dermatol.* 111:1010-1014 (1998).
- Kawakami Y, Robbins PF, Wang X, Tupesis JP, Parkhurst MR, Kang XQ, Sakaguchi K, Appella E, Rosenberg SA: Identification of new melanoma epitopes on melanosomal proteins recognized by tumor infiltrating T lymphocytes restricted by HLA-A1, -A2, and -A3 alleles. *J.Immunol.* 161:6985-6992 (1998).
- Kemp EH, Gawkrödger DJ, Watson PF, Weetman AP: Autoantibodies to human melanocyte-specific protein Pmel17 in the sera of vitiligo patients: a sensitive and quantitative radioimmunoassay (RIA). *Clin.Exp.Immunol.* 114:333-338 (1998).
- Kemp EH, Waterman EA, Gawkrödger DJ, Watson PF, Weetman AP: Autoantibodies to tyrosinase-related protein-1 detected in the sera of vitiligo patients using a quantitative radiobinding assay. *Br.J.Dermatol.* 139:798-805 (1998).
- Lahav R, Dupin E, Lecoin L, Glavieux C, Champeval D, Ziller C, LeDouarin NM: Endothelin 3 selectively promotes survival and proliferation of neural crest-derived glial and melanocytic precursors in vitro. *Proc.Natl.Acad.Sci.USA* 95:14214-14219 (1998).
- Lambert T, Onderwater J, VanderHaeghen Y, Vancoillie G, Koerten HK, Mommaas AM, Naeyaert JM: Myosin V colocalizes with melanosomes and subcortical actin bundles not associated with stress fibers in human epidermal melanocytes. *J.Invest.Dermatol.* 111:835-840 (1998).
- Li YH, Wood N, Yellowlees D, Donnelly PK: Expression of alpha(2)-macroglobulin receptor-associated protein in normal human epidermal melanocytes and human melanoma cell lines. *J.Cell Biochem.* 71:149-157 (1998).
- Lindelof B, Hedblad MA, Sigurgeirsson B: On the association between vitiligo and malignant melanoma. *Acta Derm.Venerol.[Stockh.]* 78:483-484 (1998).
- LockAndersen J, Drzewiecki KT, Wulf HC: The measurement of constitutive and facultative skin pigmentation and estimation of sun exposure in caucasians with basal cell carcinoma and cutaneous malignant melanoma. *Br.J.Dermatol.* 139:610-617 (1998).
- Medalie DA, Tompkins RG, Morgan JR: Characterization of a composite tissue model that supports clonal growth of human melanocytes in vitro and in vivo. *J.Invest.Dermatol.* 111:810-816 (1998).
- Menzies S, Khalil M, Crotty K, Bonin A: The augmentation of melanocytic nevi in guinea pigs by solar-simulated light: An animal model for human melanocytic nevi. *Cancer Res.* 58:5361-5366 (1998).
- Monroe DG, Wipf LP, Diggins MR, Matthees DP, Granholm NH: Agouti-related maturation and tissue distribution of alpha-melanocyte stimulating hormone in wild-type (A(WJ)/A(WJ)) and mutant (A(Y)/a, a/a) mice. *Pigm.Cell Res.* 11:310-313 (1998).
- Njoo MD, Westerhof W, Bos JD, Bossuyt PMM: A systematic review of autologous transplantation methods in vitiligo. *Arch.Dermatol.* 134:1543-1549 (1998).
- Okamoto T, Irie RF, Fujii S, Huang SKS, Nizze AJ, Morton DL, Hoon DSB: Anti-tyrosinase-related protein-2 immune response in vitiligo patients and melanoma patients receiving active-specific immunotherapy. *J.Invest.Dermatol.* 111:1034-1039 (1998).
- Ono H, Kawa Y, Asano M, Ito M, Takano A, Kubota Y, Matsumoto J, Mizoguchi M: Development of melanocyte progenitors in murine Steel mutant neural crest explants cultured with stem cell factor, endothelin-3, or TPA. *Pigm.Cell Res.* 11:291-298 (1998).
- Ozuer MZ, Sahiner T, Aktan S, Sanli B, Bayramoglu I: Auditory evoked potentials in vitiligo patients. *Scand.Audiol.* 27:255-258 (1998).
- Paredes B, Hardmeier T: Spitz nevus and Reed nevus: Simulation of melanoma in adults. *Pathologie.* 19:403-411 (1998).
- Pellegrini G, Bondanza S, Guerra L, DeLuca M: Cultivation of human keratinocyte stem cells: current and future clinical applications. *Med.Biol.Eng.Comput.* 36:778-790 (1998).
- Potterf SB, Fukumura M, Sviderskaya EV, Santis C, Bennett DC, Hearing VJ: Normal tyrosine transport and abnormal tyrosinase routing in pink-eyed dilution melanocytes. *Exp.Cell Res.* 244:319-326 (1998).
- Reedy MV, Faraco CD, Erickson CA: Specification and migration of melanoblasts at the vagal level and in hyperpigmented Silkie chickens. *Develop.Dynam.* 213:476-485 (1998).
- Regnier M, Patwardhan A, Scheynius A, Schmidt R: Reconstructed human epidermis composed of keratinocytes, melanocytes and Langerhans cells. *Med.Biol.Eng.Comput.* 36:821-824 (1998).
- Rudolph P, Tronnier M, Menzel R, Moller M, Parwaresch R: Enhanced expression of Ki-67, topoisomerase II alpha, PCNA, p53 and p21(WAF1/Cip1) reflecting proliferation and repair activity in UV-irradiated melanocytic nevi. *Hum.Pathol.* 29:1480-1487 (1998).
- Rutter DJ, vanMuijen GNP: Markers of melanocytic tumour progression. *J.Pathol.* 186:340-342 (1998).
- Sauter ER, KleinSzanto AJP, Atillasoy E, Montone KT, Goodrow T, Binder RL, Seykora JT, Herlyn M: Ultraviolet B-induced squamous epithelial and melanocytic cell changes in a xenograft model of cancer development in human skin. *Mol.Carcinogen.* 23:168-174 (1998).
- SchwartzmannSolon AM, Visconti MA, Castrucci AML: Topical application of a melanotropin analogue to vulgar vitiligo dermo-epidermal minigrafts. *Braz.J.Med.Biol.Res.* 31:1557-1564 (1998).
- Siebert JW, Longaker MT: Salvage reconstruction of an extensive facial deformity due to congenital giant hairy nevus. *Plast.Reconstr.Surg.* 102:2414-2419 (1998).
- Silye R, Karayiannakis AJ, Syrigos KN, Poole S, VanNoorden S, Batchelor W, Regele H, Sega W, Boesmueller H, Krausz T, Pignatelli M: E-cadherin/catenin complex in benign and malignant melanocytic lesions. *J.Pathol.* 186:350-355 (1998).
- Stratakis CA, Kirschner LS, Carney JA: Carney complex: Diagnosis and management of the complex of spotty skin pigmentation, myxomas, endocrine overactivity, and schwannomas. *Am.J.Med.Genet.* 80:183-185 (1998).
- Sturm RA: Human pigmentation genes and their response to solar UV radiation. *Mutat.Res.Fundam.Mol.Mech.Mut.* 422:69-76 (1998).

- Sturm RA, Box NF, Ramsay M: Human pigmentation genetics: the difference is only skin deep. *Bioessays* 20:712-721 (1998).
- Sviderskaya EV, Easty DJ, Bennett DC: Impaired growth and differentiation of diploid but not immortal melanoblasts from endothelin receptor B mutant (Piebald) mice. *Develop.Dynam.* 213:452-463 (1998).
- Thody AJ, Graham A: Does alpha-MSH have a role in regulating skin pigmentation in humans? *Pigm.Cell Res.* 11:265-274 (1998).
- Tobin DJ, Hagen E, Botchkarev VA, Paus R: Do hair bulb melanocytes undergo apoptosis during hair follicle regression (Catagen)? *J.Invest.Dermatol.* 111:941-947 (1998).
- Tran TA, Ross JS, Carlson JA, Mihm MC: Mitotic cyclins and cyclin-dependent kinases in melanocytic lesions. *Hum.Pathol.* 29:1085-1090 (1998).
- Walsh N, Crotty K, Palmer A, McCarthy S: Spitz nevus versus spitzoid malignant melanoma: An evaluation of the current distinguishing histopathologic criteria. *Hum.Pathol.* 29:1105-1112 (1998).
- Young AR, Potten CS, Nikaido O, Parsons PG, Boenders J, Ramsden JM, Chadwick CA: Human melanocytes and keratinocytes exposed to UVB or UVA in vivo show comparable levels of thymine dimers. *J.Invest.Dermatol.* 111:936-940 (1998).

MELANOMA & METASTASIS

- Ackerman AB: Melanoma in situ. *Hum.Pathol.* 29:1328-1329 (1998).
- Adler JR: Gamma knife radiosurgery for metastatic melanoma: An analysis of survival, outcome, and complications - Comment. *Neurosurgery* 44:64-65 (1999).
- Alexander E: Gamma knife radiosurgery for metastatic melanoma: An analysis of survival, outcome, and complications - Comment. *Neurosurgery* 44:65-66 (1999).
- Ang CG, Kelly JW, Fritschi L, Dowling JP: Characteristics of familial and non-familial melanoma in Australia. *Melanoma.Res.* 8:459-464 (1998).
- Averbook BJ, Russo LJ, Mansour EG: A long-term analysis of 620 patients with malignant melanoma at a major referral center. *Surgery* 124:746-756 (1998).
- Bakker TR, Reed D, Renno T, Jongeneel CV: Efficient adenoviral transfer of NF-kappa B inhibitor sensitizes melanoma to tumor necrosis factor-mediated apoptosis. *Int.J.Cancer* 80:320-323 (1999).
- Baldi G, Baldi F, Maguire M, MassaroGiordan M: Prognostic factors for survival after enucleation for choroidal melanoma. *Int.J.Oncol.* 13:1185-1189 (1998).
- Barbini P, Cevenini G, Rubegni P, Massai MR, Flori ML, Carli P, Andreassi L: Instrumental measurement of skin colour and skin type as risk factors for melanoma: a statistical classification procedure. *Melanoma.Res.* 8:439-447 (1998).
- Barrio MM, Bravo AI, Portela P, Hersey P, Mordoh J: A new epitope on human melanoma-associated antigen CD63/ ME491 expressed by both primary and metastatic melanoma. *Hybridoma* 17:355-364 (1998).
- Bartolomei M, Testori A, Chinol M, Gennari R, DeCicco C, Leonardi L, Zoboli S, Paganelli G: Sentinel node localization in cutaneous melanoma: lymphoscintigraphy with colloids and antibody fragments versus blue dye mapping. *Eur.J.Nucl.Med.* 25:1489-1494 (1998).
- Benitez R, Godelaine D, LopezNevot MA, Brasseur F, Jimenez P, Marchand M, Oliva MR, vanBaren N, Cabrera T, Andry G, Landry C, RuizCabello F, Boon T, Garrido F: Mutations of the beta(2)-microglobulin gene result in a lack of HLA class I molecules on melanoma cells of two patients immunized with MAGE peptides. *Tissue Antigen.* 52:520-529 (1998).
- Bergemar M, Ringborg U, Brahme EM, Brandberg Y: Nodular histogenetic type - the most significant factor for thick melanoma: implications for prevention. *Melanoma.Res.* 8:403-411 (1998).
- Bhatnagar V, Ramalah A: Characterization of Mg²⁺-ATPase activity in isolated B16 murine melanoma melanosomes. *Mol.Cell Biochem.* 189:99-106 (1998).
- Bhatnagar V, Srirangam A, Abburi R: In vitro modulation of proliferation and melanization of melanoma cells by citrate. *Mol.Cell Biochem.* 187:57-65 (1998).
- Bittinger F, GonzalezGarcia JL, Klein CL, Brochhausen C, Offner F, Kirkpatrick CJ: Production of superoxide by human malignant melanoma cells. *Melanoma.Res.* 8:381-387 (1998).
- Bjornhagen V, ManssonBrahme E, Lindholm J, Mattsson A, Sorensen FB: Stereological estimates of nuclear volume in thin malignant melanomas. *Melanoma.Res.* 8:398-402 (1998).
- Blasi MA, Roccella F, Balestrazzi E, DelPorto G, DeFelice N, Roccella M, Rota R, Grammatico P: 3p13 region: A possible location of a tumor suppressor gene involved in uveal melanoma. *Cancer Genet.Cytogenet.* 108:81-83 (1999).
- Bujko K, Nowacki MP, LiszkaDalecki P: Radiation therapy for anorectal melanoma - A report of three cases. *Acta Oncol.* 37:497-499 (1998).
- Carson JJ, Gold LH, Barton AB, Biss RT: Fatality and interferon alpha for malignant melanoma. *Lancet* 352:1443-1444 (1998).
- Chang AE, Karnell LH, Menck HR: The National Cancer Data Base report on cutaneous and noncutaneous melanoma: A summary of 84,836 cases from the past decade. *Cancer* 83:1664-1678 (1998).
- Chen QY, Jackson H, Gibbs P, Davis ID, Trapani J, Cebon J: Spontaneous T cell responses to melanoma differentiation antigens from melanoma patients and healthy subjects. *Cancer Immunol.Immunother.* 47:191-197 (1998).
- Chen YT, Dubrow R, Zheng TZ, Barnhill RL, Fine J, Berwick M: Sunlamp use and the risk of cutaneous malignant melanoma: a population-based case-control study in Connecticut, USA. *Int.J.Epidemiol.* 27:758-765 (1998).
- Chin L, Merlino G, DePinho RA: Malignant melanoma: modern black plague and genetic black box. *Gene Develop.* 12:3467-3481 (1998).
- Chong H, Hutchinson G, Hart IR, Vile RG: Expression of B7 co-stimulatory molecules by B16 melanoma results in a natural killer cell-dependent local anti-tumour response, but induces T-cell-dependent systemic immunity only against B7-expressing tumours. *Br.J.Cancer* 78:1043-1050 (1998).
- Christophers AJ: Melanoma is not caused by sunlight. *Mutat.Res.Fundam.Mol.Mech.Mut.* 422:113-117 (1998).

- Chwirot BW, Chwirot S, Redzinski J, Michniewicz Z: Detection of melanomas by digital imaging of spectrally resolved ultraviolet light-induced autofluorescence of human skin. *Eur.J.Cancer* 34:1730-1734 (1998).
- Cochran AJ, Bailly C, Cook M, Crotty K, McCarthy S, Mihm M, Mooi W, Sagebiel R: Recommendations for the reporting of tissues removed as part of the surgical treatment of cutaneous melanoma. *Am.J.Clin.Pathol.* 110:719-722 (1998).
- CohnCedermark G, ManssonBrahme E, Rutqvist LE, Larsson O, Johansson H, Ringborg U: Central nervous system metastases of cutaneous malignant melanoma - A population-based study. *Acta Oncol.* 37:463-470 (1998).
- Danielsen T, Hvidsten M, Stokke T, Solberg K, Rofstad EK: Hypoxia induces p53 accumulation in the S-phase and accumulation of hypophosphorylated retinoblastoma protein in all cell cycle phases of human melanoma cells. *Brit.J.Cancer* 78:1547-1558 (1998).
- Danielsson C, Fehsel K, Polly P, Carlberg C: Differential apoptotic response of human melanoma cells to 1 alpha,25-dihydroxyvitamin D-3 and its analogues. *Cell Death.Differentiation.* 5:946-952 (1998).
- DeMeerleer GO, Vermeersch H, vanEijkeren M, Lemmerling M, Caemaert J, DeNaeyer B, Delrue L, Moerman M, Huys J: Primary sinonasal mucosal melanoma: three different therapeutic approaches to inoperable local disease or recurrence and a review of the literature. *Melanoma.Res.* 8:449-457 (1998).
- Dittmann H, Coenen HH, Zolzer F, Dutschka K, Brandau W, Streffer C: In vitro studies on the cellular uptake of melanoma imaging aminoalkyl-iodobenzamide derivatives (ABA). *Nucl.Med.Biol.* 26:51-56 (1999).
- DSouza S, Rimoldi D, Lienard D, Lejeune F, Cerottini JC, Romero P: Circulating Melan-A/MART-1 specific cytolytic T lymphocyte precursors in HLA-A2(+) melanoma patients have a memory phenotype. *Int.J.Cancer* 78:699-706 (1998).
- Ebert B, Kohl M, Sukowski U, Rinneberg H, Winter H, Bellmann KP, Audring H: Fluorescence imaging of cutaneous malignant melanomas and naevi. *Laser.Med.Sci.* 13:204-208 (1998).
- Egan CL, Oliveria SA, Elenitsas R, Hanson J, Halpern AC: Cutaneous melanoma risk and phenotypic changes in large congenital nevi: A follow-up study of 46 patients. *J.Amer.Acad.Dermatol.* 39:923-932 (1998).
- English JSC: General practitioner excision of malignant melanoma. *Br.J.Dermatol.* 139:759-759 (1998).
- Fang D, Dockery P, Weatherhead B: Stereological studies of the effects of alpha-MSH and cAMP on melanosomes in melanoma cells. *Pigm.Cell Res.* 11:337-344 (1998).
- Fargnoli MC, Chimenti S, Keller G, Soyer HP, DalPozzo V, Hofler H, Peris K: CDKN2a/p16(INK4a) mutations and lack of p19(ARF) involvement in familial melanoma kindreds. *J.Invest.Dermatol.* 111:1202-1206 (1998).
- Ferrier CM, vanMuijen GNP, Ruiter DJ: Proteases in cutaneous melanoma. *Ann.Med.* 30:431-442 (1998).
- Frezzotti R, Winter G, Liarikos S, Balestrazzi E, Nardi M, Neri P: The use of single chain-FV recombinant antibodies conjugated with radioactive tracers and photosensitizers in radioimmunoinaging and selective immuno-photodynamic therapy of intraocular tumours: Applications to ocular melanoma and retinoblastoma. *Cancer Research.Supported.Under.Biomed.I.24.* 325-335:335 (1998).
- Geertsen R, Hofbauer G, Kamarashev J, Yue FY, Dummer R: Immune escape mechanisms in malignant melanoma (Review). *Int.J.Mol.Med.* 3:49-57 (1999).
- Gianan MAV, Kleinerman ES: Liposomal muramyl tripeptide (CGP 19835A lipid) therapy for resectable melanoma in patients who were at high risk for relapse: An update. *Cancer Biother.Radiopharm.* 13:363-368 (1998).
- Glass FI, Cottam JA, Reintgen DS, Fenske NA: Lymphatic mapping and sentinel node biopsy in the management of high-risk melanoma. *J.Am.Acad.Dermatol.* 39:603-610 (1998).
- Grammatico P, Eibenschutz L, Roccella F, Amantea A, Roccella M, Catricala C, Micci F, DelPorto G: Cytogenetic follow-up in a case with a primary cutaneous melanoma and five metastatic lesions. *Pigm.Cell Res.* 11:314-319 (1998).
- Grunder D, Sangfelt O, Skoog L, Hansson J: In vivo induction of the interferon-stimulated protein 2'5' oligoadenylate synthetase in tumor and peripheral blood cells during IFN-alpha treatment of metastatic melanoma. *J.Interferon.Cytokine.Res.* 18:691-695 (1998).
- GrosseHovest L, Brandl M, Dohlsten M, Kalland T, Wilmanns W, Jung G: Tumor-growth inhibition with bispecific antibody fragments in a syngeneic mouse melanoma model: The role of targeted T-cell co-stimulation viaCD28. *Int.J.Cancer* 80:138-144 (1999).
- Guan XY, Zhang HG, Yang JM, Wang J, Taetle R, Meltzer PS, Trent JM: Detection of chromosome 6 abnormalities in melanoma cell lines by chromosome arm painting probes. *Cancer Genet.Cytogenet.* 107:89-92 (1998).
- Gunduz K, Shields JA, Shields CL, Eagle RC: Periorbital cellular blue nevus leading to orbitopalpebral and intracranial melanoma. *Ophthalmology.* 105:2046-2050 (1998).
- Gunduz K, Shields JA, Shields CL, Eagle RC: Episcleral melanoma without conjunctival or uveal involvement. *Br.J.Ophthalmol.* 82:1342-1343 (1998).
- Hadjikirova M, Peytcheva E, Boeva M: Immunomodulatory effect of tamoxifen in combination with CCNU, cisplatin, and dacarbazine in melanoma patients. *Exp.Oncol.* 20:248-251 (1998).
- Hanrahan PF, Hersey P, DEste CA: Factors involved in presentation of older people with thick melanoma. *Med.J.Australia.* 169:410-414 (1998).
- Hemmi S, Geertsen R, Mezzacasa A, Peter I, Dummer R: The presence of human coxsackievirus and adenovirus receptor is associated with efficient adenovirus-mediated transgene expression in human melanoma cell cultures. *Hum.Gene Ther.* 9:2363-2373 (1998).
- Herbst RA, Gutzmer R, Matiaske F, Mommert S, Gasper U, Kapp A, Weiss J: Identification of two distinct deletion targets at 11q23 in cutaneous malignant melanoma. *Int.J.Cancer* 80:205-209 (1999).
- Hoefnagel CA: Role of nuclear medicine in melanoma. *Eur.J.Nucl.Med.* 25:1567-1574 (1998).
- Hoffmann R, Muller I, Neuber K, Lassmann S, Buer J, Probst M, Oevermann K, Franzke A, Kirchner H, Ganser A, Atzpodiener J: Risk and outcome in metastatic malignant melanoma patients receiving DTIC, cisplatin, BCNU and tamoxifen followed by immunotherapy with interleukin 2 and interferon alpha2a. *Br.J.Cancer* 78:1076-1080 (1998).
- Horowitz M, Nobrega MM: Primary anal melanoma associated with melanosis of the upper gastrointestinal tract. *Endoscopy.* 30:662-665 (1998).

- Hsu MY, Shih DT, Meier FE, VanBelle P, Hsu JY, Elder DE, Buck CA, Herlyn M: Adenoviral gene transfer of beta 3 integrin subunit induces conversion from radial to vertical growth phase in primary human melanoma. *Am.J.Pathol.* 153:1435-1442 (1998).
- Hudson DA, Krige JEJ, Stubbings H: Plantar melanoma: Results of treatment in three population groups. *Surgery* 124:877-882 (1998).
- Iwabuchi K, Handa K, Hakomori S: Separation of "glycosphingolipid signaling domain" from caveolin-containing membrane fraction in mouse melanoma B16 cells and its role in cell adhesion coupled with signaling. *J.Biol.Chem.* 273:33766-33773 (1998).
- Jeannou J, Goupille P, Valat JP: Multiple malignant melanomas in a patient with RA treated with methotrexate - Reply. *J.Rheumatol.* 25:2283-2283 (1998).
- Jiveskog S, RagnarssonOlding B, Platz A, Ringborg U: N-ras mutations are common in melanomas from sun-exposed skin of humans but rare in mucosal membrane or unexposed skin. *J.Invest.Dermatol.* 111:757-761 (1998).
- Karakousis CP, Balch CM, Bartolucci A, Driscoll DL: Is the capacity for lymph node-mediated distant dissemination the same for all nodal groups in malignant melanoma? *Melanoma.Res.* 8:419-424 (1998).
- Kato M, Takahashi M, Akhand AA, Liu W, Dai Y, Shimizu S, Iwamoto T, Suzuki H, Nakashima I: Transgenic mouse model for skin malignant melanoma. *Oncogene* 17:1885-1888 (1998).
- Kawakami Y: Immunotherapy using T cell defined tumor antigens for melanoma. *Microbiol.Immunol.* 42:803-813 (1998).
- Kawakami Y, Robbins PF, Wang X, Tupesis JP, Parkhurst MR, Kang XQ, Sakaguchi K, Appella E, Rosenberg SA: Identification of new melanoma epitopes on melanosomal proteins recognized by tumor infiltrating T lymphocytes restricted by HLA-A1, -A2, and -A3 alleles. *J.Immunol.* 161:6985-6992 (1998).
- Kelly JW: Melanoma in the elderly - a neglected public health challenge. *Med.J.Australia.* 169:403-404 (1998).
- Kertes PJ, Johnson JC, Peyman GA: Internal resection of posterior uveal melanomas. *Br.J.Ophthalmol.* 82:1147-1153 (1998).
- Kim KS, Daniels KJ, Hay ED: Tissue-specific expression of beta-catenin in normal mesenchyme and uveal melanomas and its effect on invasiveness. *Exp.Cell Res.* 245:79-90 (1998).
- Kimura H, Inukai Y, Takii T, Furutani Y, Shibata Y, Hayashi H, Sakurada S, Okamoto T, Inoue JI, Oomoto Y, Onozaki K: Molecular analysis of constitutive IL-1 alpha gene expression in human melanoma cells: Autocrine stimulation through NF-kappa B activation by endogenous IL-1 alpha. *Cytokine.* 10:872-879 (1998).
- Klatzmann D, Cherin P, Bensimon G, Boyer O, Coutellier A, Charlotte F, Boccaccio C, Salzman JL, Herson S: A phase I/II dose-escalation study of herpes simplex virus type 1 thymidine kinase "suicide" gene therapy for metastatic melanoma. *Hum.Gene Ther.* 9:2585-2594 (1998).
- Koeppl MC, Grego F, Andrac L, Berbis P: Primary cutaneous large B-cell lymphoma of the legs and malignant melanoma: coincidence or association? *Br.J.Dermatol.* 139:751-752 (1998).
- Kondziolka D: Gamma knife radiosurgery for metastatic melanoma: An analysis of survival, outcome, and complications - Comment. *Neurosurgery* 44:65 (1999).
- Kroll S, Char DH, Quivey J, Castro J: A comparison of cause-specific melanoma mortality and all- cause mortality in survival analyses after radiation treatment for uveal melanoma. *Ophthalmology.* 105:2035-2045 (1998).
- Kumar R, Sauroja I, Punnonen K, Jansen C, Hemminki K: Selective deletion of exon 1 beta of the p19(ARF) gene in metastatic melanoma cell lines. *Gene Chromosome.Cancer* 23:273-277 (1998).
- Kuzumaki T, Kobayashi T, Ishikawa K: Genistein induces p21(Cip1/WAF1) expression and blocks the G1 to S phase transition in mouse fibroblast and melanoma cells. *Biochem.Biophys.Res.Commun.* 251:291-295 (1998).
- Landau M, Weizman A, ZorefShani E, Beery E, Wasseman L, Landau O, Gavish M, Brenner S, Nordenberg J: Antiproliferative and differentiating effects of benzodiazepine receptor ligands on B16 melanoma cells. *Biochem.Pharmacol.* 56:1029-1034 (1998).
- Lang PG: Malignant melanoma. *Med.Clin.N.Amer.* 82:1325 (1998).
- LaPorta CAM, Porro D, Comolli R: Opposite effects of TPA on G1/S transition and on cell size in the low metastatic B16F1 with respect to high metastatic BL6 murine melanoma cells. *Cancer Lett.* 132:159-164 (1998).
- Larouche N, Larouche K, Beliveau A, LeClerc S, Salesse C, Pelletier G, Guerin SL: Transcriptional regulation of the alpha 4 integrin subunit gene in the metastatic spread of uveal melanoma. *Anticancer Res.* 18:3539-3547 (1998).
- Lavine SD, Petrovich Z, CohenGadol AA, Masri LS, Morton DL, ODay SJ, Essner R, Zelman V, Yu C, Luxton G, Apuzzo MLJ: Gamma knife radiosurgery for metastatic melanoma: An analysis of survival, outcome, and complications. *Neurosurgery* 44:59-64 (1999).
- Lee JY, Tsuchiya R, Miyamoto Y, Hayashi M: A protein reacted with anti-vitronectin antibody accumulates in tumors derived from B16F10 melanoma cells. *Cell Struct.Funct.* 23:193-199 (1998).
- Lieber KA, Standiford SB, Kuvshinoff BW, Ota DM: Surgical management of aberrant sentinel lymph node drainage in cutaneous melanoma. *Surgery* 124:757-762 (1998).
- Lim YS, Kang BY, Kim EJ, Kim SH, Hwang SY, Kim TS: Augmentation of therapeutic antitumor immunity by B16F10 melanoma cells transfected with interferon-gamma and allogeneic MHC class I cDNAs. *Mol.Cells* 8:629-636 (1998).
- Lombardi ML, Mercurio O, Pirozzi G, Ionna F, Lombardi V, Mozzillo N, Manzo C: Molecular analysis of HLA DRB1 and DQB1 polymorphism in Italian melanoma patients. *J.Immunother.* 21:435-439 (1998).
- Luca MR, BarEli M: Molecular changes in human melanoma metastasis. *Histol.Histopathol.* 13:1225-1231 (1998).
- Lynch BJ, KomaromyHiller G, Bronstein IB, Holden JA: Expression of DNA topoisomerase I, DNA topoisomerase II- alpha, and p53 in metastatic malignant melanoma. *Hum.Pathol.* 29:1240-1245 (1998).
- Mackean MJ, Kerr D, Lesko M, Svedberg A, Hansson F, Jodrell D, Cassidy J: A feasibility study of roquinimex (Linomide) and alpha interferon in patients with advanced malignant melanoma or renal carcinoma. *Brit.J.Cancer* 78:1620-1623 (1998).
- Mafee MF: Uveal melanoma, choroidal hemangioma, and simulating lesions - Role of MR imaging. *Radiol.Clin.N.Amer.* 36:1083 (1998).
- Marchand M, vanBaren N, Weynants P, Brichard V, Dreno B, Tessier MH, Rankin E, Parmiani G, Arienti F, Humblet Y, Bourlond A, Vanwijck R, Lienard D, Beauduin M, Dietrich PY, Russo V, Kerger I, Masucci G, Jager E, DeGreve J,

- Atzpodien J, Brasseur F, Coulie PG, vanderBruggen P, Boon T: Tumor regressions observed in patients with metastatic melanoma treated with an antigenic peptide encoded by gene MAGE-3 and presented by HLA-A1. *Int.J.Cancer* 80:219-230 (1999).
- Margolis DJ, Halpern AC, Rebbeck T, Schuchter L, Barnhill RL, Fine J, Berwick M: Validation of a melanoma prognostic model. *Arch.Dermatol.* 134:1597-1601 (1998).
- Marzolini C, Decosterd LA, Shen F, Gander M, Leyvraz S, Bauer J, Buclin T, Biollaz J, Lejeune F: Pharmacokinetics of temozolomide in association with fotemustine in malignant melanoma and malignant glioma patients: comparison of oral, intravenous, and hepatic intra-arterial administration. *Cancer Chemother.Pharmacol.* 42:433-440 (1998).
- McDermott NC, Hayes DP, AlSader MH, Hogan JM, Walsh CB, Kay EW, Leader MB: Identification of vertical growth phase in malignant melanoma: A study of interobserver agreement. *Am.J.Clin.Pathol.* 110:753-757 (1998).
- Middleton MR, Lunn JM, Morris C, Rustin G, Wedge SR, Brampton MH, Lind MJ, Lee SM, Newell DR, Bleehen NM, Newlands ES, Calvert AH, Margison GP, Thatcher N: O-6-methylguanine-DNA methyltransferase in pretreatment tumour biopsies as a predictor of response to temozolomide in melanoma. *Br.J.Cancer* 78:1199-1202 (1998).
- MissolKolka E, Sochanik A, Szala S: Combined therapy of B16(F10) murine melanoma using E-coli cytosine deaminase gene and murine interleukin-4 gene. *Neoplasma.* 45:305-311 (1998).
- Mitchell MS: Perspective on allogeneic melanoma lysates in active specific immunotherapy. *Semin.Oncol.* 25:623-635 (1998).
- Miyamoto D, Endo N, Oku N, Arima Y, Suzuki T, Suzuki Y: beta-Thujaplicin zinc chelate induces apoptosis in mouse high metastatic melanoma B16BL6 cells. *Biol.Pharm.Bull.* 21:1258-1262 (1998).
- Mooy CM: Ploidy analysis in uveal melanoma. *Brit.J.Ophthalmol.* 82 :1352-1353 (1998).
- Moreau MF, Labarre P, Foucaud A, Seguin H, Bayle M, Papon J, Madelmont JC : Radiosynthesis of no-carrier-added N-(4-dipropylaminobutyl)-4-[I-125]-iodobenzamide, a promising tracer for the detection of melanoma. *J.Label.Compound.Radiopharm.* 41:965-975 (1998).
- Mori Y, Kondziolka D, Flickinger JC, Kirkwood JM, Agarwala S, Lunsford LD: Stereotactic radiosurgery for cerebral metastatic melanoma: Factors affecting local disease control and survival. *Int.J.Radiat.Oncol.Biol.Phys.* 42:581-589 (1998).
- Morita R, Fujimoto A, Hattori N, Takehara K, Takata M: Comparison of genetic profiles between primary melanomas and their metastases reveals genetic alterations and clonal evolution during progression. *J.Invest.Dermatol.* 111:919-924 (1998).
- Multani AS, Furlong C, Pathak S: Reduction of telomeric signals in murine melanoma and human breast cancer cell lines treated with 3'-azido-2'-3'- dideoxythymidine. *Int.J.Oncol.* 13:923-925 (1998).
- Murphy GF: Melanoma in situ - Reply. *Hum.Pathol.* 29:1329-1329 (1998).
- Nelson MA, Ariza ME, Yang JM, Thompson FH, Taetle R, Trent JM, Wymer J, MasseyBrown K, BroomePowell M, Easton J, Lahti JM, Kidd VJ: Abnormalities in the p34(Cdc2)-related PITSLRE protein kinase gene complex (CDC2L) on chromosome band 1p36 in melanoma. *Cancer Genet.Cytogenet.* 108:91-99 (1999).
- Novakovic S, Ihan A, Wraber B, Jezersek B: An effective tumor vaccine against malignant melanoma: Irradiated autologous tumor cells admixed with MVE-2. *Int.J.Mol.Med.* 3:95-102 (1999).
- Oakley SP, Garsia RJ, Coates AS: Eosinophilic leukaemoid reaction and interleukin-5 in metastatic melanoma. *Med.J.Australia.* 169:501 (1998).
- Okamoto I, PircDanoewinata H, Ackermann J, Drach J, Wadl HS, Jansen B, Wolff K, Pehamberger H, Marosi C: Deletions of the region 17p11-13 in advanced melanoma revealed by cytogenetic analysis and fluorescence in situ hybridization. *Brit.J.Cancer* 79:131-137 (1999).
- Okun MR: Histological demarcation of lateral borders: an unsupportable criterion for distinguishing malignant melanoma from Spitz naevus and compound naevus - Reply. *Histopathology* 33:576-577 (1998).
- Oosterhuis JA: Transpupillary thermotherapy in 50 patients with choroidal melanoma. *Arch.Ophthalmol.* 116:1697 (1998).
- Otsuka T, Takayama H, Sharp R, Celli G, LaRochelle WJ, Bottaro DP, Ellmore N, Vieira W, Owens JW, Anver M, Merlino G: c-Met autocrine activation induces development of malignant melanoma and acquisition of the metastatic phenotype. *Cancer Res.* 58:5157-5167 (1998).
- OwenSchaub LB, vanGolen KL, Hill LL, Price JE: Fas and fas ligand interactions suppress melanoma lung metastasis. *J.Exp.Med.* 188:1717-1723 (1998).
- Parish LC, Witkowski JA: Melanoma and the radiograph: sanctity of human life (Vol 352, pg 923, 1998). *Lancet* 352:2026 (1998).
- Parris CN, Jezzard S, Silver A, Mackie R, McGregor JM, Newbold RF: Telomerase activity in melanoma and non-melanoma skin cancer. *Brit.J.Cancer* 79:47-53 (1999).
- Pellin A, Monteagudo C, LopezGines C, Carda C, Boix J, LlombartBosch A: New type of chimeric fusion product between the EWS and ATF1 genes in clear cell sarcoma (Malignant melanoma of soft parts). *Gene Chromosome.Cancer* 23:358-360 (1998).
- Pica F, Frascchetti M, Matteucci C, Tuthill C, Rasi G: High doses of thymosin alpha 1 enhance the anti-tumor efficacy of combination chemo-immunotherapy for murine B16 melanoma. *Anticancer Res.* 18:3571-3578 (1998).
- PierardFranchimont C, Letawe C, Nikkels AF, Pierard GE: Patterns of the immunohistochemical expression of melanoma-associated antigens and density of CD45RO(+) activated T lymphocytes and L1-protein positive macrophages in primary cutaneous melanomas. *Int.J.Mol.Med.* 2:721-724 (1998).
- Pijpers R, Borgstein PJ, Meijer S, Krag DN, Hoekstra OS, Greuter HN, Teule GJJ: Transport and retention of colloidal tracers in regional lymphoscintigraphy in melanoma: influence on lymphatic mapping and sentinel node biopsy. *Melanoma.Res.* 8:413-418 (1998).
- Poma A, Miranda M, Spano L: Differential response of human melanoma and Ehrlich ascites cells in vitro to the ribosome-inactivating protein luffin. *Melanoma.Res.* 8:465-467 (1998).
- Potter T, Hardwick N, Mulherin D: Multiple malignant melanomas in a patient with RA treated with methotrexate. *J.Rheumatol.* 25:2282-2283 (1998).
- Propper DJ, Macaulay V, OByrne KJ, Braybrooke JP, Wilner SM, Ganesan TS, Talbot DC, Harris AL: A phase II study of bryostatins in metastatic malignant melanoma. *Br.J.Cancer* 78:1337-1341 (1998).

- Quezado MM, Abati AD, Albuquerque AV, Wilson J, Merino MJ, Filie AC: Morphologic diversity in malignant melanoma: The potential use of microdissection and the polymerase chain reaction for diagnosis. *Modern.Pathol.* 11:1010-1015 (1998).
- Reintgen D, Cox C, Haddad F, Costello D, Berman C: The role of lymphoscintigraphy in lymphatic mapping for melanoma and breast cancer. *J.Nucl.Med.* 39:22N (1998).
- Richert SM, Damico F, Rhodes AR: Cutaneous melanoma: Patient surveillance and tumor progression. *J.Am.Acad.Dermatol.* 39:571-577 (1998).
- Romero JM, Finger PT, Iezzi R, Rosen RB, Cocker RS: Three-dimensional ultrasonography of choroidal melanoma: Extrascleral extension. *Amer.J.Ophthalmol.* 126:842-844 (1998).
- Rosenberg SA, Zhai YF, Yang JC, Schwartzentruber DJ, Hwu P, Marincola F, Topalian SL, Restifo NP, Seipp CA, Einhorn JH, Roberts B, White DE: Immunizing patients with metastatic melanoma using recombinant adenoviruses encoding MART-1 or gp100 melanoma antigens. *J.Nat.Cancer Inst.* 90:1894-1900 (1998).
- Sauter ER, Herlyn M: Molecular biology of human melanoma development and progression. *Mol.Carcinogen.* 23:132-143 (1998).
- Schmittel A, Keilholz U, Max R, Thiel E, Scheibenbogen C: Induction of tyrosinase-reactive T cells by treatment with dacarbazine, cisplatin, interferon-alpha +/- interleukin-2 in patients with metastatic melanoma. *Int.J.Cancer* 80:39-43 (1999).
- Seeber A, Binder M, Steiner A, Wolff K, Pehamberger H: Treatment of metastatic malignant melanoma with dacarbazine plus fotemustine. *Eur.J.Cancer* 34:2129-2131 (1998).
- Seftor REB: Role of the beta(3) integrin subunit in human primary melanoma progression: Multifunctional activities associated with alpha(v)beta(3) integrin expression. *Am.J.Pathol.* 153:1347-1351 (1998).
- Semb KA, Aamdal S, Mette E, Ingvar C, Gullaksen N, Osmundsen K: Zilascorb(H-2), a low-toxicity protein synthesis inhibitor that exhibits signs of anticancer activity in malignant melanoma. *Anti.Cancer Drug* 9:797-802 (1998).
- Seo N, Tokura Y, Furukawa F, Takigawa M: Down-regulation of tumoricidal NK and NK T cell activities by MHC K-b molecules expressed on Th2-type gamma delta T and alpha beta T cells coinfiltrating in early B16 melanoma lesions. *J.Immunol.* 161:4138-4145 (1998).
- Shivers SC, Wang XN, Li WG, Joseph E, Messina J, Glass LF, DeConti R, Cruse CW, Berman C, Fenske NA, Lyman GH, Reintgen DS: Molecular staging of malignant melanoma: Correlation with clinical outcome. *JAMA* 280:1410-1415 (1998).
- Sivolapenko GB, Skarlos D, Pectasides D, Stathopoulou E, Milonakis A, Simalis G, Stuttle A, CourtenayLuck NS, Konstantinides K, Epenetos AA: Imaging of metastatic melanoma utilising a technetium-99m labelled RGD-containing synthetic peptide. *Eur.J.Nucl.Med.* 25:1383-1389 (1998).
- Slater DN: Histological demarcation of lateral borders: an unsupportable criterion for distinguishing malignant melanoma from Spitz naevus and compound naevus. *Histopathology* 33:576 (1998).
- Slominski A, Wortsman J, Nickoloff B, McClatchey K, Mihm MC, Ross JS: Molecular pathology of malignant melanoma. *Am.J.Clin.Pathol.* 110:788-794 (1998).
- Smith MA, Fine JA, Barnhill RL, Berwick M: Hormonal and reproductive influences and risk of melanoma in women. *Int.J.Epidemiol.* 27:751-757 (1998).
- Sneed PK: Gamma knife radiosurgery for metastatic melanoma: An analysis of survival, outcome, and complications - Comment. *Neurosurgery* 44:64 (1999).
- Soiffer R, Lynch T, Mihm M, Jung K, Rhuda C, Schmollinger JC, Hodi FS, Lieber L, Lam P, Mentzer S, Singer S, Tanabe KK, Cosimi AB, Duda R, Sober A, Bhan A, Daley J, Neuberger D, Parry G, Rokovich J, Richards L, Drayer J, Berns A, Clift S, Cohen LK, Mulligan RC, Dranoff G: Vaccination with irradiated autologous melanoma cells engineered to secrete human granulocyte-macrophage colony-stimulating factor generates potent antitumor immunity in patients with metastatic melanoma. *Proc.Natl.Acad.Sci.USA* 95:13141-13146 (1998).
- Souberbielle BE, Westby M, Ganz S, Kayaga J, Mendes R, Morrow WJW, Dalglish AG: Comparison of four strategies for tumour vaccination in the B16-F10 melanoma model. *Gene Therapy.* 5:1447-1454 (1998).
- Spatz A, Shaw HM, Crotty KA, Thompson JF, McCarthy SW: Analysis of histopathological factors associated with prolonged survival of 10 years or more for patients with thick melanomas (>5mm). *Histopathology* 33:406-413 (1998).
- Staibano S, Orabona P, Mezza E, Salvatore G, Tranfa F, Capone D, Errico ME, Bonavolonta G, Lucariello A, DeRosa G: Morphometric analysis of AgNORs in uveal malignant melanoma. *Anal.Quant.Cytol.Histol.* 20:483-492 (1998).
- Steinert HC, Voellmy DR, Trachsel C, Bick I, Buck A, Huch RA, vonSchulthess GK: Planar coincidence scintigraphy and PET in staging malignant melanoma. *J.Nucl.Med.* 39:1892-1897 (1998).
- Strohal R, Brna C, Mossbacher U, Fischer G, Pehamberger H, Stingl G: First comparative delineation of the T cell receptor repertoire in primary and multiple subsequent/coexisting metastatic melanoma sites. *J.Invest.Dermatol.* 111:1085-1091 (1998).
- Takahashi K, Eto H, Tanabe KK: Involvement of CD44 in matrix metalloproteinase-2 regulation in human melanoma cells. *Int.J.Cancer* 80:387-395 (1999).
- Toti P, Greco G, Mangiavacchi P, Bruni A, Palmeri MLD, Luzi P: DNA ploidy pattern in choroidal melanoma: correlation with survival. A flow cytometry study on archival material. *Brit.J.Ophthalmol.* 82:1433-1437 (1998).
- Uren RF, HowmanGiles RB, Thompson JF: Failure to detect drainage to the popliteal and epitrochlear lymph nodes on cutaneous lymphoscintigraphy in melanoma patients. *J.Nucl.Med.* 39:2195 (1998).
- Valente P, Fasina G, Melchiori A, Masiello L, Cilli M, Vacca A, Onisto M, Santi L, StetlerStevenson WG, Albin A: TIMP-2 over-expression reduces invasion and angiogenesis and protects B16F10 melanoma cells from apoptosis (Vol 75, pg 246, 1998). *Int.J.Cancer* 80:485 (1999).
- ValverdeAlmohalla S: Transpupillary thermotherapy in 50 patients with choroidal melanoma. *Arch.Ophthalmol.* 116:1697 (1998).
- VandenBrule FA, Liu FT, Castronovo V: Transglutaminase-mediated oligomerization of galectin-3 modulates human melanoma cell interactions with laminin. *Cell Adhes.Commun.* 5:425 (1998).

- VanGinkel PR, Gee RL, Walker TM, Hu DN, Heizmann CW, Polans AS: The identification and differential expression of calcium-binding proteins associated with ocular melanoma. *Bba.Mol.Cell Res.* 1448:290-297 (1998).
- Vigliani R, Iandolo M, Lacivita A: Mature ovarian cystic teratoma with combined squamous cell carcinoma and malignant melanoma. *Virchows Archiv.* 433:381-384 (1998).
- Vinceti M, Rothman KJ, Bergomi M, Borciani N, Serra L, Vivoli G: Commentary re: M. Vinceti et al., Excess melanoma incidence in a cohort exposed to high levels of environmental selenium. *Cancer Epidemiol. Biomark. Prev.*, 7: 853-856, 1998. *Cancer Epidem.Biomarker.Prev.* 7:851-852 (1998).
- Vinceti M, Rothman KJ, Bergomi M, Borciani N, Serra L, Vivoli G: Excess melanoma incidence in a cohort exposed to high levels of environmental selenium. *Cancer Epidem.Biomarker.Prev.* 7:853-856 (1998).
- Weenink AC, vanBest JA, Oosterhuis JA, Keunen JEE: Lens transmission by fluorophotometry after brachytherapy and thermotherapy of choroidal melanoma. *Ophthalmic Res.* 30:402-406 (1998).
- Weinstock MA, Brodsky GL: Bias in the assessment of family history of melanoma and its association with dysplastic nevi in a case-control study. *J.Clin.Epidemiol.* 51:1299-1303 (1998).
- Weinstock MA, Reynes JF: Validation of cause-of-death certification for outpatient cancers: The contrasting cases of melanoma and mycosis fungoides. *Amer.J.Epidemiol.* 148:1184-1186 (1998).
- Weiss MD, Luciano CA, SeminoMora C, Dalakas MC, Quarles RH: Molecular mimicry in chronic inflammatory demyelinating polyneuropathy and melanoma. *Neurology* 51:1738-1741 (1998).
- Westhoff U, Fox C, Otto FJ: Soluble HLA class I antigens in plasma of patients with malignant melanoma. *Anticancer Res.* 18:3789-3792 (1998).
- Westhoff U, Fox C, Otto FJ: Quantification of cathepsin D in plasma of patients with malignant melanoma. *Anticancer Res.* 18:3785-3788 (1998).
- Whitehead RP, Unger JM, Goodwin JW, Walker MJ, Thompson JA, Flaherty LE, Sondak VK: Phase II trial of recombinant human interleukin-4 in patients with disseminated malignant melanoma: A Southwest Oncology Group Study. *J.Immunother.* 21:440-446 (1998).
- Wick MR: Prognostic factors for cutaneous melanoma. *Am.J.Clin.Pathol.* 110:713-718 (1998).
- Wolf IH, Smolle J, Soyer HP, Kerl H: Sensitivity in the clinical diagnosis of malignant melanoma. *Melanoma.Res.* 8:425-429 (1998).
- Wu TY, Fleischmann WR: Efficacy of B16 melanoma cells exposed in vitro to long-term IFN-alpha treatment (B16 alpha cells) as a tumor vaccine in mice. *J.Interferon.Cytokine.Res.* 18:829-839 (1998).
- Yakobson EA, Zlotogorski A, Shafir R, Cohen M, Icekson M, Landau M, Brenner S, Usher S, Peretz H: Screening for tumour suppressor p16(CDKN2A) germline mutations in Israeli melanoma families. *Clin.Chem.Lab.Med.* 36:645-648 (1998).
- Yan CH, Han R: Suppression of adhesion-induced protein tyrosine phosphorylation decreases invasive and metastatic potentials of B16-BL6 melanoma cells by protein tyrosine kinase inhibitor genistein. *Invasion Metastasis* 17:189-198 (1998).
- Yoo CC, Levine MS, McLarney JK, Lowry MA: Primary malignant melanoma of the esophagus: Radiographic findings in seven patients. *Radiology* 209:455-459 (1998).
- Zemelman V, Kirschbaum A: Mortality from malignant melanoma in Chile, 1986-95. *Brit.J.Dermatol.* 139:1111-1112 (1998).
- Zong ZP, FujikawaYamamoto K, Ota T, Guan X, Murakami M, Li AL, Yamaguchi N, Tanino M, Odashima S: Saikosaponin b(2) induces differentiation without growth inhibition in cultured B16 melanoma cells. *Cell Struct.Funct.* 23:265-272 (1998).

MSH, POMC, GROWTH FACTORS & RECEPTORS

- Ali SA, Peter J, Ali AS: Histamine receptors in the skin melanophores of Indian bullfrog *Rana tigerina*. *Comp.Biochem.Physiol.Pt.A.* 121:229-234 (1998).
- Broberger C, DeLecea L, Sutcliffe JG, Hokfelt T: Hypocretin/orexin- and melanin-concentrating hormone- expressing cells form distinct populations in the rodent lateral hypothalamus: Relationship to the neuropeptide Y and Agouti gene-related protein systems. *J.Comp.Neurol.* 402:460-474 (1998).
- Brown KS, Gentry RM, Rowland NE: Central injection in rats of alpha-melanocyte-stimulating hormone analog: effects on food intake and brain Fos. *Regul.Peptides* 78:89-94 (1998).
- Burg MA, Grako KA, Stallcup WB: Expression of the NG2 proteoglycan enhances the growth and metastatic properties of melanoma cells. *J.Cell Physiol.* 177:299-312 (1998).
- Cai J, Phelan SA, Hill AL, Loeken MR: Identification of Dep-1, a new gene regulated by the transcription factor Pax-3, as a marker for altered embryonic gene expression during diabetic pregnancy. *Diabetes* 47:1803-1805 (1998).
- Ciesla W: Can high maternal melatonin concentrations be responsible for inducing fetal pathologies, and can melatonin participate in immunohormonal homeostasis by determining prohormone convertase activity? - hypothesis and facts. *Med.Hypotheses.* 51:269-280 (1998).
- Denef C, VanBael A: A new family of growth and differentiation factors derived from the N-terminal domain of proopiomelanocortin (N- POMC). *Comp.Biochem.Physiol.[C.]* 119:317-324 (1998).
- Frandberg PA, Doufexis M, Kapas S, Chhajlani V: Amino acid residues in third intracellular loop of melanocortin 1 receptor are involved in G-protein coupling. *Biochem.Mol.Biol.Int.* 46:913-922 (1998).
- Fukuda M, Horibe K, Furukawa K: Enhancement of in vitro and in vivo anti-tumor activity of anti-GD2 monoclonal antibody 220-51 against human neuroblastoma by granulocyte-macrophage colony-stimulating factor and granulocyte colony-stimulating factor. *Int.J.Mol.Med.* 2:471-475 (1998).
- Giraud SQ, Billington CJ, Levine AS: Feeding effects of hypothalamic injection of melanocortin 4 receptor ligands. *Brain Res.* 809:302-306 (1998).
- Grill HJ, Ginsberg AB, Seeley RJ, Kaplan JM: Brainstem application of melanocortin receptor ligands produces long-lasting effects on feeding and body weight. *J.Neurosci.* 18:10128-10135 (1998).

- Kang DC, Motwani M, Fisher PB: Role of the transcription factor AP-1 in melanoma differentiation. *Int.J.Oncol.* 13:1117-1126 (1998).
- KanterLewensohn L, Dricu A, Wang M, Wejde J, Kiessling R, Larsson O: Expression of the insulin-like growth factor-1 receptor and its anti-apoptotic effect in malignant melanoma: a potential therapeutic target. *Melanoma.Res.* 8:389-397 (1998).
- Karjalainen JM, Kellokoski JK, Eskelinen MJ, Alhava EM, Kosma VM: Downregulation of transcription factor AP-2 predicts poor survival in stage I cutaneous malignant melanoma. *J.Clin.Oncol.* 16:3584-3591 (1998).
- Kask A, Mutulis F, Muceniece R, Pahkla R, Mutule I, Wikberg JES, Rago L, Schioth HB: Discovery of a novel superpotent and selective melanocortin-4 receptor antagonist (HS024): Evaluation in vitro and in vivo. *Endocrinology* 139:5006-5014 (1998).
- Kask A, Rago L, Wikberg JES, Schioth HB: Evidence for involvement of the melanocortin MC4 receptor in the effects of leptin on food intake and body weight. *Eur.J.Pharmacol.* 360:15-19 (1998).
- Kijas JMH, Wales R, Tornsten A, Chardon P, Moller M, Andersson L: Melanocortin receptor 1 (MC1R) mutations and coat color in pigs. *Genetics* 150:1177-1185 (1998).
- KistlerHeer V, Schlumpf M, Lichtensteiger W: Melanocortin and MCH precursor-derived NEI effects on striatum-midbrain co-cultures. *Peptides* 19:1317-1327 (1998).
- Klusa V, Svirskis S, Opmane B, Muceniece R, Skujins A, Mutulis F, Wikberg JES, Schioth HB: Evaluation of behavioural effects of neural melanocortin receptor antagonists injected ICV and in VTA in rats. *Neuropeptides* 32:573-580 (1998).
- Lee JH, Lim SK, Huh SH, Lee DH, Lee WT: Solution structures of the melanocyte-stimulating hormones by two-dimensional NMR spectroscopy and dynamical simulated annealing calculations. *Eur.J.Biochem.* 257:31-40 (1998).
- Lezcano NE, Salvatierra NA, Celis ME: alpha-Melanotropin hormone inhibits the binding of [H- 3]SCH 23390 to the dopamine D-1 receptor in vitro. *Eur.J.Pharmacol.* 363:211-215 (1998).
- Medina F, Siddiqui A, Scimonelli T, Fenske C, Wilson CA, Celis ME: The inter-relationship between gonadal steroids and POMC peptides, beta-endorphin and alpha-MSH, in the control of sexual behavior in the female rat. *Peptides* 19:1309-1316 (1998).
- Mena MA, Davila V, Bogaluvsky J, Sulzer D: A synergistic neurotrophic response to L- dihydroxyphenylalanine and nerve growth factor. *Mol.Pharmacol.* 54:678-686 (1998).
- Milligan ED, Nguyen KT, Deak T, Hinde JL, Fleshner M, Watkins LR, Maier SF: The long term acute phase-like responses that follow acute stressor exposure are blocked by alpha-melanocyte stimulating hormone. *Brain Res.* 810:48-58 (1998).
- Monroe DG, Wipf LP, Diggins MR, Matthees DP, Granholm NH: Agouti-related maturation and tissue distribution of alpha-melanocyte stimulating hormone in wild-type (A(WJ)/A(WJ)) and mutant (A(Y)/a, a/a) mice. *Pigm.Cell Res.* 11:310-313 (1998).
- Morooka Y, Oomizu S, Takeuchi S, Takahashi S: Augmentation of prolactin release by alpha-melanocyte stimulating hormone is possibly mediated by melanocortin 3- receptors in the mouse anterior pituitary cells. *Zool.Sci.* 15:567-572 (1998).
- Murphy B, Nunes CN, Ronan JJ, Harper CM, Beall MJ, Hanaway M, Fairhurst AM, VanderPloeg LHT, MacIntyre DE, Mellin TN: Melanocortin mediated inhibition of feeding behavior in rats. *Neuropeptides* 32:491-497 (1998).
- Pennock JL, Behnke JM, Bickle QD, Devaney E, Grecnis RK, Isaac RE, Joshua GWP, Selkirk ME, Zhang YB, Meyer DJ: Rapid purification and characterization of L-dopachrome- methyl actor tautomerase (macrophage-migration-inhibitory factor) from *Trichinella spiralis*, *Trichuris muris* and *Brugia pahangi*. *Biochem.J.* 335:495-498:495-498 (1998).
- Petit L, Guardiola B, Delagrance P, Jockers R, Strosberg AD: Signalling by melatonin receptors. *Therapie* 53:421-428 (1998).
- Prasanna G, Dibas A, Brown K, Yorio T: Activation of protein kinase C by tumor necrosis factor- alpha in human non-pigmented ciliary epithelium. *J.Ocul.Pharmacol.Therapeut.* 14:401-412 (1998).
- Rapozzi V, Zorzet S, Comelli M, Mavelli I, Perissin L, Giraldi T: Melatonin decreases bone marrow and lymphatic toxicity of adriamycin in mice bearing TLX5 lymphoma. *Life Sci.* 63:1701-1713 (1998).
- Shimada M, Tritos NA, Lowell BB, Flier LS, MaratosFlier E: Mice lacking melanin-concentrating hormone are hypophagic and lean. *Nature* 396:670-674 (1998).
- Sugawara T, Sieving PA, Iuvone PM, Bush RA: The melatonin antagonist luzindole protects retinal photoreceptors from light damage in the rat. *Invest.Ophthalmol.Visual Sci.* 39:2458-2465 (1998).
- Sun HB, Zhu YX, Yin TG, Sledge G, Yang YC: MRG1, the product of a melanocyte-specific gene related gene, is a cytokine-inducible transcription factor with transformation activity. *Proc.Natl.Acad.Sci.USA* 95:13555-13560 (1998).
- Sundaramurthy D, Campbell DA, Leek JP, Markham AF, Pieri LF: Assignment of the melanocortin 4 receptor (MC4R) gene to human chromosome band 18q22 by in situ hybridisation and radiation hybrid mapping. *Cytogenet.Cell Genet.* 82:97-98 (1998).
- Takeuchi S, Takahashi S: Melanocortin receptor genes in the chicken - Tissue distributions. *Gen.Comp.Endocrinol.* 112:220-231 (1998).
- Teh MT, Sugden D: Comparison of the structure-activity relationships of melatonin receptor agonists and antagonists: Lengthening the N-acyl side-chain has differing effects on potency on *Xenopus* melanophores. *Naunyn Schmied.Arch.Pharmacol.* 358:522-528 (1998).
- Tritos NA, Vicent D, Gillette J, Ludwig DS, Flier ES, MaratosFlier E: Functional interactions between melanin-concentrating hormone, neuropeptide Y, and anorectic neuropeptides in the rat hypothalamus. *Diabetes* 47:1687-1692 (1998).
- Tyagi RK, Azrad A, Degani H, Salomon Y: Stimulation of fructose 1,6-bisphosphate production in melanoma cells by alpha-melanocyte-stimulating hormone P- 31/C-13-NMR and P-32-labeling studies. *Eur.J.Biochem.* 258:68-77 (1998).
- Vergoni AV, Bertolini A, Mutulis F, Wikberg JES, Schioth HB: Differential influence of a selective melanocortin MC4 receptor antagonist (HS014) on melanocortin-induced behavioral effects in rats. *Eur.J.Pharmacol.* 362:95-101 (1998).
- Versteeg DHG, VanBergen P, Adan RAH, DeWildt DJ: Melanocortins and cardiovascular regulation. *Eur.J.Pharmacol.* 360:1-14 (1998).
- Yang YK, Thompson DA, Dickinson CJ, Wilken J, Barsh GS, Kent SBH, Gantz I: Characterization of Agouti-related protein binding to melanocortin receptors. *Mol.Endocrinol.* 13:148-155 (1999).

Zhang YF, Jeffery S, Burchill SA, Berry PA, Kaski JC, Carter ND: Truncated human endothelin receptor A produced by alternative splicing and its expression in melanoma. *Br.J.Cancer* 78:1141-1146 (1998).

DEVELOPMENTAL BIOLOGY

- Bondurand N, Kobetz A, Pingault V, Lemort N, EnchaRazavi F, Couly G, Goerich DE, Wegner M, Abitbol M, Goossens M: Expression of the SOX10 gene during human development. *FEBS Lett.* 432:168-172 (1998).
- Buttner C, Henz BM, Welker P, Sepp NT, Grabbe J: Identification of activating c-kit mutations in adult-, but not in childhood-onset indolent mastocytosis: A possible explanation for divergent clinical behavior. *J.Invest.Dermatol.* 111:1227-1231 (1998).
- Dastych J, Taub D, Hardison MC, Metcalfe DD: Tyrosine kinase-deficient W-v c-kit induces mast cell adhesion and chemotaxis. *Amer.J.Physiol.Cell Physiol.* 44:C1291-C1299 (1998).
- Fortin AS, Underhill DA, Gros P: Helix 2 of the paired domain plays a key role in the regulation of DNA-binding by the Pax-3 homeodomain. *Nucleic.Acids.Res.* 26:4574-4581 (1998).
- Mansouri A, Gruss P: Pax3 and Pax7 are expressed in commissural neurons and restrict ventral neuronal identity in the spinal cord. *Mech.Develop.* 78:171-178 (1998).
- Mayo DJ, Burton D: The in vitro physiology of melanophores associated with integumentary patterns in winter flounder (*Pleuronectes americanus*). *Comp.Biochem.Physiol.Pt.A.* 121:241-247 (1998).
- Njoo MD, NieuweboerKrobotova L, Westerhof W: Repigmentation of leucodermic defects in piebaldism by dermabrasion and thin split-thickness skin grafting in combination with minigrafting. *Br.J.Dermatol.* 139:829-833 (1998).
- Tremblay P, Dietrich S, Mericskay M, Schubert FR, Li ZL, Paulin D: A crucial role for Pax3 in the development of the hypaxial musculature and the long-range migration of muscle precursors. *Dev.Biol.* 203:49-61 (1998).

DIFFERENTIATION

- Aksan I, Goding CR: Targeting the microphthalmia basic helix-loop-helix leucine zipper transcription factor to a subset of E-box elements in vitro and in vivo. *Mol.Cell Biol.* 18:6930-6938 (1998).
- Bora N, Conway SJ, Liang HA, Smith SB: Transient overexpression of the Microphthalmia gene in the eyes of Microphthalmia vitiligo mutant mice. *Develop.Dynam.* 213:283-292 (1998).
- Broberger C, Johansen J, Johansson C, Schalling M, Hokfelt T: The neuropeptide Y agouti gene-related protein (AGRP) brain circuitry in normal, anorectic, and monosodium glutamate-treated mice. *Proc.Nat.Acad.Sci.Usa* 95:15043-15048 (1998).
- deVries TJ, Trancikova D, Ruiter DJ, vanMuijen GNP: High expression of immunotherapy candidate proteins gp100, MART-1, tyrosinase and TRP-1 in uveal melanoma. *Br.J.Cancer* 78:1156-1161 (1998).
- Dinulescu DM, Fan W, Boston BA, McCall K, Lamoreux ML, Moore KJ, Montagno J, Cone RD: Mahogany (mg) stimulates feeding and increases basal metabolic rate independent of its suppression of agouti. *Proc.Natl.Acad.Sci.USA* 95:12707-12712 (1998).
- Dolk H, Busby A, Armstrong BG, Walls PH: Geographical variation in anophthalmia and microphthalmia in England, 1988-94. *Br.Med.J.* 317:905-909 (1998).
- Guillery RW, Jeffery G, Saunders N: Visual abnormalities in albino wallabies: A brief note. *J.Comp.Neurol.* 403:33-38 (1999).
- Hansen LA, Malarkey DE, Wilkinson JE, Rosenberg M, Woychik RE, Tennant RW: Effect of the viable-yellow (*A(vy)*) agouti allele on skin tumorigenesis and humoral hypercalcemia in v-Ha-ras transgenic TG.AC mice. *Carcinogenesis* 19:1837-1845 (1998).
- Inagaki H, Koga A, Bessho Y, Hori H: The tyrosinase gene from medakafish: Transgenic expression rescues albino mutation. *Pigm.Cell Res.* 11:283-290 (1998).
- Kobayashi T, Imokawa G, Bennett DC, Hearing VJ: Tyrosinase stabilization by Tyrp1 (The brown locus protein). *J.Biol.Chem.* 273:31801-31805 (1998).
- Kubo I, KinstHori I: Tyrosinase inhibitors from cumin. *J.Agr.Food Chem.* 46:5338-5341 (1998).
- Lalwani AK, Attaie A, Randolph T, Deshmukh D, Wang C, Mhatre A, Wilcox E Point mutation in the MITF gene causing Waardenburg syndrome type II in a three-generation Indian family. *Amer.J.Med.Genet.* 80:406-409 (1998).
- Mariman ECM: Clustering of anophthalmia and microphthalmia. *Br.Med.J.* 317:895-896 (1998).
- Ono H, Kawa Y, Asano M, Ito M, Takano A, Kubota Y, Matsumoto J, Mizoguchi M: Development of melanocyte progenitors in murine Steel mutant neural crest explants cultured with stem cell factor, endothelin-3, or TPA. *Pigm.Cell Res.* 11:291-298 (1998).
- Parkhurst MR, Fitzgerald EB, Southwood S, Sette A, Rosenberg SA, Kawakami Y: Identification of a shared HLA-A*0201 restricted T-cell epitope from the melanoma antigen tyrosinase-related protein 2 (TRP2). *Cancer Res.* 58:4895-4901 (1998).
- Pintodo O P, Kolterud A, Carlsson L: Expression of the LIM-homeobox gene LH2 generates immortalized Steel factor-dependent multipotent hematopoietic precursors. *EMBO J.* 17:5744-5756 (1998).
- Price ER, Horstmann MA, Wells AG, Weilbaeher KN, Takemoto CM, Landis MW, Fisher DE: alpha-melanocyte-stimulating hormone signaling regulates expression of microphthalmia, a gene deficient in Waardenburg syndrome. *J.Biol.Chem.* 273:33042-33047 (1998).
- Reynolds SR, Celis E, Sette A, Oratz R, Shapiro RL, Johnston D, Fotino M, Bystryjn JC: HLA-independent heterogeneity of CD8(+) T cell responses to MAGE-3, Melan-A/MART-1, gp100, tyrosinase, MC1R, and TRP-2 in vaccine-treated melanoma patients. *J.Immunol.* 161:6970-6976 (1998).

- Rosenfeld RD, Zeni L, Welcher AA, Narhi LO, Hale C, Marasco J, Delaney J, Gleason T, Philo JS, Katta V, Hui J, Baumgartner J, Graham M, Stark KL, Karbon W: Biochemical, biophysical, and pharmacological characterization of bacterially expressed human agouti-related protein. *Biochemistry* 37:16041-16052 (1998).
- Rusciano D, Lorenzoni P, Lin S, Burger MM: Hepatocyte growth factor scatter factor and hepatocytes are potent downregulators of tyrosinase expression in B16 melanoma cells. *J.Cell Biochem.* 71:264-276 (1998).
- Sharma AM, Jagadisan B, Sheorain VS, Haldankar V, Mojamdar M: Transient expression of high molecular weight, heat sensitive, trypsin-resistant form of tyrosinase in B-16 melanoma cells. *Pigm.Cell Res.* 11:375-379 (1998).
- Voit C, Schoengen A, Weber L, Proebstle T: Identification of melanoma metastases by tyrosinase reverse transcription polymerase chain reaction of fine needle aspirates. *J.Amer.Acad.Dermatol.* 39:1030-1032 (1998).
- Xu YM, Stokes AH, Roskoski R, Vrana KE: Dopamine, in the presence of tyrosinase, covalently modifies and inactivates tyrosine hydroxylase. *J.Neurosci.Res.* 54:691-697 (1998).
- Xue BZ, MoustaidMoussa N, Wilkison WO, Zemel MB: The agouti gene product inhibits lipolysis in human adipocytes via a Ca²⁺-dependent mechanism. *FASEB J.* 12:1391-1396 (1998).
- Yasumoto K, Amae S, Udono T, Fuse N, Takeda K, Shibahara S: A big gene linked to small eyes encodes multiple Mitf isoforms: Many promoters make light work. *Pigm.Cell Res.* 11:329-336 (1998).

MISCELLANEOUS

- Aguzzi A: Grafting mouse brains: from neurocarcinogenesis to neurodegeneration. *EMBO J.* 17:6107-6114 (1998).
- Ao Y, Park HY, OlaizolaHorn S, Gilchrest BA: Activation of cAMP-dependent protein kinase is required for optimal alpha-melanocyte-stimulating hormone-induced pigmentation. *Exp.Cell Res.* 244:117-124 (1998).
- April CS, Jackson IJ, Kidson SH: Molecular cloning and sequence analysis of a chicken cDNA encoding tyrosinase-related protein-2/DOPachrome tautomerase. *Gene* 219:45-53 (1998).
- Arends RJ, Vermeer H, Martens GJM, Leunissen JAM, Bonga SEW, Flik G: Cloning and expression of two proopiomelanocortin mRNAs in the common carp (*Cyprinus carpio* L.). *Mol.Cell Endocrinol.* 143:23-31 (1998).
- Autier P, Dore JF, Cattaruzza MS, Renard F, Luther H, GentiloniSilverj F, Zantedeschi E, Mezzetti M, Monjaud I, Andry M, Osborn JF, Grivegne AR: Sunscreen use, wearing clothes, and number of nevi in 6- to 7-year-old European children. *J.Nat.Cancer Inst.* 90:1873-1880 (1998).
- Camargo CR, Visconti MA, Castrucci AML: Physiological color change in the bullfrog, *Rana catesbeiana*. *J.Exp.Zool.* 283:160-169 (1999).
- Cassone VM: Melatonin's role in vertebrate circadian rhythms. *Chronobiol.Int.* 15:457-473 (1998).
- Coyne JA: Melanism: Evolution in action, by M.E.N. Majerus. *Nature* 396:35-36 (1998).
- Dobbinson S, Peipers A, Reading D, Sinclair C: A national approach to skin cancer prevention: the National SunSmart Schools Program. *Med.J.Aust.* 169:513-514 (1998).
- Hamby CV, Chinol M, Palestro CJ, Manzo C, Ferrone S: Improved tumor targeting of rhenium-186-labeled anti-human high-MW melanoma-associated antigen monoclonal antibody 763.74 following purification with anti-idiotypic monoclonal antibody MK2-23. *Int.J.Cancer* 78:486-490 (1998).
- Harada M, Tamada K, Abe K, Li TL, Onoe Y, Tada H, Tatsugami K, Ando T, Kimura G, Komoto K: Characterization of B16 melanoma-specific cytotoxic T lymphocytes. *Cancer Immunol.Immunother.* 47:198-204 (1998).
- Heinig JA, Keeley FW, Kawauchi H, Youson JH: Expression of proopiomelanocortin and proopiomelanotropin during the life cycle of the sea lamprey (*Petromyzon marinus*). *J.Exp.Zool.* 283:95-101 (1999).
- Hough RB, Lengeling A, Bedian V, Lo C, Bucan M: Rump white inversion in the mouse disrupts dipeptidyl aminopeptidase-like protein 6 and causes dysregulation of Kit expression. *Proc.Natl.Acad.Sci.USA* 95 :13800-13805 (1998).
- Hunter JJ, Shao J, Smutko JS, Dussault BJ, Nagle DL, Woolf EA, Holmgren LM, Moore KJ, Shyjan AW: Chromosomal localization and genomic characterization of the mouse melastatin gene (*Mln1*). *Genomics* 54:116-123 (1998).
- Ikeda K, Suzuki K, Yoshioka H, Miyamoto K, Masujima T, Sugiyama M: Construction of a new cloning vector utilizing a cryptic plasmid and the highly expressed melanin-synthesizing gene operon from *Streptomyces castaneoglobosporus*. *FEMS Microbiol.Lett.* 168:195-199 (1998).
- Kawashima I, Tsai V, Southwood S, Takesako K, Celis E, Sette A: Identification of gp100-derived, melanoma-specific cytotoxic T-lymphocyte epitopes restricted by HLA-A3 supertype molecules by primary in vitro immunization with peptide-pulsed dendritic cells. *Int.J.Cancer* 78:518-524 (1998).
- Kouki T, Kawamura K, Kikuyama S: Developmental studies for identification of the inhibitory center of melanotropes in the toad, *Bufo japonicus*. *Develop.Growth Differ.* 40:651-658 (1998).
- Kropf AJ, Bunker BA, Eisner M, Moss SC, Zecca L, Stroppolo A, Crippa PR: X-ray absorption fine-structure spectroscopy studies of Fe sites in natural human neuromelanin and synthetic analogues. *Biophys.J.* 75:3135-3142 (1998).
- Kuriyama T, Fujinaga M, Koda T, Nishihira J: Cloning of the mouse gene for D-dopachrome tautomerase. *Bba.Protein Struct.Mol.Enzym.* 1388:506-512 (1998).
- Lambert J, Naeyaert JM, Callens T, DePaepe A, Messiaen L: Human myosin v gene produces different transcripts in a cell type-specific manner. *Biochem.Biophys.Res.Commun.* 252:329-333 (1998).
- Lambert T, Onderwater J, VanderHaeghen Y, Vancoillie G, Koerten HK, Mommaas AM, Naeyaert JM: Myosin V colocalizes with melanosomes and subcortical actin bundles not associated with stress fibers in human epidermal melanocytes. *J.Invest.Dermatol.* 111:835-840 (1998).
- Lee KH, Panelli MC, Kim CJ, Riker AI, Bettinotti MP, Roden MM, Fetsch P, Abati A, Rosenberg SA, Marincola FM: Functional dissociation between local and systemic immune response during anti-melanoma peptide vaccination. *J.Immunol.* 161:4183-4194 (1998).

- Manini P, diSchia M, Milosa M, Prota G: Acid-promoted competing pathways in the oxidative polymerization of 5,6-dihydroxyindoles and related compounds: Straightforward cyclotrimerization routes to diindolocarbazole derivatives. *J.Org.Chem.* 63:7002-7008 (1998).
- Nakazawa K, Kalassy M, Sahuc F, Collombel C, Damour O: Pigmented human skin equivalent - as a model of the mechanisms of control of cell-cell and cell-matrix interactions. *Med.Biol.Eng.Comput.* 36:813-820 (1998).
- Nosanchuk JD, Valadon P, Feldmesser M, Casadevall A: Melanization of *Cryptococcus neoformans* in murine infection. *Mol.Cell Biol.* 19:745-750 (1999).
- Rosengren E, Rorsman H: Reducing compounds initiate the TRP2-catalyzed conversion of L-dopachrome to DHICA. *Melanoma.Res.* 8:469-470 (1998).
- Sheehan JM, Potten CS, Young AR: Tanning in human skin types II and III offers modest photoprotection against erythema. *Photochem.Photobiol.* 68:588-592 (1998).
- Shotelersuk V, Gahl WA: Hermansky-Pudlak syndrome: Models for intracellular vesicle formation. *Mol.Genet.Metab.* 65:85-96 (1998).
- Sojo MM, NunezDelicado E, GarciaCarmona F, SanchezFerrer A: Monophenolase activity of latent banana pulp polyphenol oxidase. *J.Agr.Food Chem.* 46:4931-4936 (1998).
- Suzuki H, Takahashi K, Yasumoto K, Amae S, Yoshizawa M, Fuse N, Shibahara S: Role of neurofibromin in modulation of expression of the tyrosinase-related protein 2 gene. *J.Biochem.Tokyo.* 124:992-998 (1998).
- Turner M: Sun safety: Avoiding noonday sun, wearing protective clothing, and the use of sunscreen. *J.Nat.Cancer Inst.* 90:1854-1855 (1998).

***** 1998 PASPCR Membership Directory *****

Zalfa A. Abdel-Malek, PhD

University of Cincinnati
Department of Dermatology
231 Bethesda Avenue, Mail #592
Cincinnati, OH 45267
Phone: 513/558-6242
FAX: 513/558-0198

Ago B. Ahene, PhD

Roche BioScience
3401 Hillview Avenue
Palo Alto, CA 94303
Phone: 415/855-5290
FAX: 415/354-7335
Email: ago.ahene@synmail.syntex.com

Lisa M. Austin, MS

The Rockefeller University
1230 York Avenue
New York, NY 10021

Joseph T. Bagnara, PhD

University of Arizona - Anatomy
College of Medicine
Tucson, AZ 85724
Phone: 520/621-7516
FAX: 520/621-9339

Gregory Barsh, MD, PhD

Howard Hughes Medical Institute
Stanford University School of Medicine
Beckman Center, B271
Stanford, CA 94305-5428
Phone: 415/723-5061
FAX: 415/723-1399
Email: gbarsh@cmgm.stanford.edu

Shirley M. Bartido, PhD

Memorial Sloan Kettering Cancer Center
Solid Tumor Immunology
1275 York Avenue, Box 465
New York, NY 10021
Phone: 212/639-8145
Fax: 212/794-4352
E-mail: bartidos@mskcc.org

Jag Bhawan, MD

Boston University School of Medicine
Department of Dermatology
609 Albany Street, Room 309
Boston, MA 02118
Phone: 617/638-5564
FAX: 617/638-5575
Email: rlabadie@acs.bu.edu

Markus Boehm, MD

Yale University School of Medicine
Department of Dermatology
500 LCI, P.O. Box 208059
New Haven, CT 06520
Phone: 203/785-4970
FAX: 203/785-7636

Raymond E. Boissy, PhD

University of Cincinnati
Department of Dermatology
231 Bethesda Avenue, Mail #592
Cincinnati, OH 45267
Phone: 513/558-6242
FAX: 513/558-0198
Email: raymond.boissy@uc.edu

Jean L. Bolognia, MD

Yale Medical School
Department of Dermatology
333 Cedar Street
New Haven, CT 06510
Phone: 203/785-4092
FAX: 203/785-7637
Email: jean_bolognia@qm.yale.edu

Frédéric Bonté, PhD

LVMH Recherche
25 Rue des Peupliers
92752 Nanterre Cedex, France
Phone: +33-1/41-197-621
FAX: +33-1/47-691-672

Edward T. Borish, PhD

Zotos Corporation
100 Tokeneke Road
Darien, CT 06820
Phone: 203/656-7813
FAX: 203/656-7963

Carol A. Bosko, Ph.D.

Avon Products, Inc.
Avon Place
Suffern, NY 10901
Phone: 914/ 369-2788
Fax: 914/ 369-2899
E-mail: carol.bosko@avon.com

Roger R. Bowers, PhD

California State University at Los Angeles
Department of Biology
5151 State University Drive
Los Angeles, CA 90032
Phone: 213/343-2081
FAX: 213/343-6451
Email: rbowers@calstatela.edu

Murray H. Brilliant, PhD

Fox Chase Cancer Center
Institute for Cancer Research
7701 Burholme Avenue
Philadelphia, PA 19111
Phone: 215/728-2864
FAX: 215/728-3616
Email: brilliant@mhb.pink.fccc.edu

Jean B. Burnett, PhD

P.O. Box 805
Okemos, MI 48805-0805

Jean-Claude Bystryn, MD

New York University Medical Center
Department of Dermatology
550 First Avenue
New York, NY 10016
Phone: 212/263-5243
FAX: 212/263-8561

Ana M. Castrucci, PhD

Dept. Fisiologia
Institute of Biosciences
University of Sao Paulo
USP CP 11176
Sao Paulo, SP 05422-900, Brazil
Phone: 55-11/818-7523
Email: amdicast@cce.usp.br

Catherine Caussé, PhD

L'Oréal
1, Avenue Eugène Schualler
Laboratoires de Recherche Fondamentale
93601 Aulnay-Sous-Bois Cedex, France
Phone: +33 1-48-68-9654
FAX: +33 1-48-68-9461

Ashok K. Chakraborty, PhD

Department of Dermatology
Yale University School of Medicine
333 Cedar Street
New Haven, CT 06520
Phone: 203/785-3078
FAX: 203/785-7637

Vaishali A. Chaubal

National Centre for Cell Science
N.C.C.S. Complex
Ganeshkhind
Pune 411-007, Maharashtra, India
Phone: +91-212-370-931
FAX: +91-212-372-259
E-mail: root@nccs.ernet.in

Miles R. Chedekel, PhD

MeL-CO
4255 County Road MM
Orland, CA 95963
Phone: 916/865-9033
FAX: 916/865-4092

Sung Woo Choi, 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
Email: swchoi@cmc.cuk.ac.kr

James L. Christiansen, PhD

Drake University
Department of Biology
25th and University Avenue
Des Moines, IA 50311
Phone: 515/271-2821
FAX: 515/271-3702

Alistair J. Cochran, MD

UCLA Medical Center
Department of Pathology
13-344 CHS
Los Angeles, CA 90024-1732
Phone: 213/825-2743
FAX: 213/206-5178
Email: acochran@pathology.medsch.ucla.edu

Roger D. Cone, PhD

Oregon Health Sciences University
Vollum Institute
3181 S.W. Sam Jackson Park Road
Portland, OR 97201
Phone: 503/494-4668
FAX: 503/494-4534
Email: cone@ohsu.edu

Tricia Cooley, BS

University of Kansas
Department of Physiology & Cell Biology
Haworth Hall
Lawrence, KS 66045
Phone: 913/864-4279
Email: cooley@falcon.cc.ukans.edu

Mark E. Costlow, PhD

Schering-Plough Corporation
Advanced Products Research
3030 Jackson Avenue
Memphis, TN 38151
Phone: 901/320-5028
FAX: 901/320-5526

Mary K. Cullen, MD

Washington University School of Medicine
Departments of Cell Biology & Dermatology
660 South Euclid, Box 8228
St. Louis, MO 63130
Phone: 314/362-1082
FAX: 314/362-7463
Email: mkcullen@cellbio.wustl.edu

John DeJordy, MD

P.O. Box 502
Chazy, NY 12921
Phone: 518/563-2526
Fax: 518/563-2721

Phillipe Donatien, PhD

New York University Medical Center
Department of Dermatology
550 First Avenue
New York, NY 10016
Phone: 212/263-5070
FAX: 212/263-8752

Donna-Gay Durham-Pierre, PhD

Fox Chase Cancer Center
Fox Chase Cancer Research
7701 Burholme Avenue
Philadelphia, PA 19111
Phone: 215/728-2865
FAX: 215/728-3616

Magdalena Eisinger, DVM

Johnson & Johnson
Wound Healing Technology Research Center
199 Grandview Road
Skillman, NJ 08558-9418
Phone: 908/874-1204
FAX: 908/874-2701

David E. Elder, MD

University of Pennsylvania
Department of Anatomic Pathology
3400 Spruce Street
Philadelphia, PA 19104
Phone: 215/662-6503
FAX: 215/349-5910
Email: david-elder@pathla.med.upenn.edu

Gisela F. Erf, PhD

Department of Poultry Science
University of Arkansas
E214 ANSC
Fayetteville, AR 72701
Phone: 501/575-8664
FAX: 501/575-3026
Email: gferf@comp.uark.edu

Jamal Z. Farooqui, PhD

University of Cincinnati College of Medicine
Department of Dermatology
231 Bethesda Avenue
Cincinnati, OH 45267-0592
Phone: 513/558-6242
FAX: 513/558-0198

Philip J. Fernandez, PhD

Department of Biology
Grand Canyon University
3300 W. Cambelback Road
Phoenix, AZ 85017
Phone: 602/589-2575
FAX: 602/589-2895
Email: pfernand@grand-canyon.edu

Thomas G. Froiland, PhD

Northern Michigan University
Department of Biology
277 W. Science
Marquette, MI 49855
Phone: 906/227-2310
FAX: 906/227-2013

Sally K. Frost-Mason, PhD

3038 Hayworth Hall
University of Kansas
Department of Physiology & Cell Biology
Lawrence, KS 66045-2106
Phone: 913/864-3296
FAX: 913/864-5321
Email: sfm@clasmain.clas.ukans.edu

Bryan B. Fuller, PhD

University of Oklahoma Health Sciences Center
Department of Biochemistry & Mol Biology
P.O. Box 26901
Oklahoma City, OK 73107
Phone: 405/271-2160
FAX: 405/271-3139
Email: bryan-fuller@uokhsc.edu

Minao Furumura, MD, PhD

Laboratory of Cell Biology
National Institutes of Health
Bethesda, MD 20892
Phone: 301/402-0003
FAX: 301/402-8787

Donald B. Galbraith, PhD

Trinity College
Department of Biology
300 Summit Street
Hartford, CT 06106
Phone: 860/297-2350
FAX: 860/297-2538
Email: donald.galbraith@trincoll.edu

David Granholm, BA

South Dakota State University
Department of Biology & Microbiology
Box 2140D, NPB 252
Brookings, SD 57007
Phone: 605/688-4554
FAX: 605/688-5624

Nels H. Granholm, PhD

South Dakota State University
Department of Biology & Microbiology
Box 2140D
Brookings, SD 57007
Phone: 605/688-5493
FAX: 605/688-5624
Email: granholm@mg.sdstate.edu

Pearl E. Grimes, M.D.

321 N. Larchmont Blvd., Suite 525
Los Angeles, CA 90004

Herbert F. Haberman, MD

Toronto Western Hospital
399 Bathurst Street
Toronto, ONT M5T 2S8, Canada
Phone: 416/603-5630
FAX: 416/489-2960

Maher M. Haddad, MS

Wayne State University
Department of Biological Sciences
5047 Gullen Mall
Detroit, MI 48202
Phone: 313/577-6816
FAX: 313/577-6891
Email: mhaddad@gopher.chem.wayne.edu

Mac E. Hadley, PhD

University of Arizona - Anatomy
College of Medicine
Tucson, AZ 85724
Phone: 602/621-3414
FAX: 602/621-9339

Ruth Halaban, PhD

Yale Medical School
Department of Dermatology
P.O. Box 208059
New Haven, CT 06520-8059
Phone: 203/785-4352
FAX: 203/785-7234
Email: ruth_halaban@qm.yale.edu

Rebat M. Halder, MD

Howard University
Department of Dermatology
2041 Georgia Avenue, NW
Washington, DC 20060
Phone: 202/865-6725
FAX: 202/865-1757

Julius L. Harp, PhD

North Carolina A & T State University
Department of Chemistry
Hines Hall
Greensborough, NC 27411
Phone: 910/334-7601
FAX: 910/334-7124

Elizabeth D. Hearing, RN, MS

Data Abstract Search Service
2247 Regina Drive
Clarksburg, MD 20871
Phone: 301/831-6279
FAX: 301/865-1180
Email: dass_ms@mnsinc.com

Vincent J. Hearing, PhD

NCI - NIH - Cell Biology
Building 37, Room 1B22
Bethesda, MD 20892
Phone: 301/496-1564
FAX: 301/402-8787
Email: hearingv@dc37a.nci.nih.gov

Meenhard Herlyn, DVM

The Wistar Institute
Program of Cellular and Molecular Biology
3601 Spruce Street
Philadelphia, PA 19104-4268
Phone: 215/898-3950
FAX: 215/898-0980
Email: herlynm@wista.wistar.upenn.edu

David Hewett-Emmett, PhD

University of Texas, Houston
Human Genetics Center
GSBS-S-250, P.O. Box 20334
Houston, TX 77225
Phone:
FAX: 713/792-4615
Email: S995063@odin.mda.uth.tmc.edu

George Hill, MD, PhD

UMDNJ - New Jersey Medical School
185 South Orange Avenue
Room G595
Newark, NJ 07103
Phone: 201/456-6295
FAX: 201/456-4559
Email: ghill@umdnj.edu

Helene Z. Hill, PhD

New Jersey Medical School
Department of Radiology - MSB E586
185 South Orange Avenue
Newark, NJ 07103-2714
Phone: 201/982-3421
FAX: 201/982-5592
Email: hill@umdnj.edu

Jun-ichiro Hiraoka

Kanebo, Ltd. Cosmetic Division
The Kanebo Building, 20-20
Kaigan 3-chome, Minato-ku
Tokyo, 108, JAPAN
Phone: +81 3 5446-3181
FAX: +81 3 5446-2857
Email: jun-hira@mx.meshnet.or.jp

Robert M. Hoffman, PhD

AntiCancer, Inc.
7919 Ostrow Street
San Diego, CA 92111
Phone: 619/654-2555
FAX: 619/268-4175

Susan M Holder

Mississippi State University
Department of Biological Sciences
P.O. Box CR
Mississippi State, MS 39762
Phone: 601/325-7803
Email: smh3@ra.msstate.edu

Thomas J. Holstein, PhD

Roger Williams University
Department of Biology
Old Ferry Road
Bristol, RI 02809
Phone: 401/254-3097
FAX: 401/254-3286
Email: tjh@alpha.rwu.edu

Thomas J. Hornyak, MD, PhD

New York University Medical Center
Department of Dermatology
560 First Avenue, Room H-100
New York, NY 10016
Phone: 212/263-7848
FAX: 212/683-8453
Email: hornyt01@mccr.med.nyu.edu

Ling Hou, PhD

Laboratory of Developmental Neurogenetics
Building 36 Room 5D04
National Institutes of Health
Bethesda, MD 20892-4160
Phone: 301/496-9107
FAX: 301/496-0899
Email: lhou8@codon.nih.gov

Alan N. Houghton, MD

Memorial Sloan-Kettering Cancer Center
Department of Medicine & Immunology
1275 York Avenue
New York, NY 10021
Phone: 212/639-7595
FAX: 212/717-3036
Email: a-houghton@ski.mskcc.org

Dan-Ning Hu, MD

The New York Eye & Ear Infirmary
Tissue Culture Center
Department of Pathology & Laboratory Medicine
310 E 14th Street
New York, NY 10003
Phone: 212/979-4148
FAX: 212/677-1284
Email: dhu@nyee.edu

Sungbin Im, MD

Ajou University School of Medicine
Department of Dermatology
5 Wonchon-dong, Paldal-ku
Suwon, 442-749 Korea
Phone:
FAX: +82-331-219-5189

Shosuke Ito, PhD

Fujita Health University
School of Health Sciences
Toyoake, Aichi 470-11 Japan
Phone: +81-562/93-2595
FAX: +81-562/93-4595
Email: sito@fujita.hu.ac.jp

Bhanu Iyengar

Institute of Pathology (ICMR)
PB No. 4909, SJ Hospital Campus
New Delhi, India 110029
Phone: +91-011-664-797
FAX: +91-011-686-8401

Gert M. Jacobsohn, PhD

Hahnemann University
Department of Biological Chemistry
Broad & Vine Streets
Philadelphia, PA 19102-1192
Phone: 215/762-7760
FAX: 215/246-5836
Email: jacobsohng@hal.hahnemann.edu

Eric S. Jacobson, MD, PhD

Virginia Commonwealth University
Department of Internal Medicine
McGuire Veterans Affairs Medical Center, Box 151
Richmond, VA 23249
Phone: 804/675-5000 (ext. 3641)
Fax: 804/675-5359
Email: jacobson.eric_s@richmond.va.gov

Sumayah Jamal, M.D., Ph.D.

New York University Medical Center
Department of Biochemistry
550 First Avenue
New York, NY 10016
Phone: 212/263-6007
Fax: 212/263-8166
E-mail: jamals01@mccr6.med.nyu.edu

Kowichi K. Jimbow, MD, PhD

University of Alberta
260G Heritage Medical Research Center
Edmonton, AB T6G 2S2, Canada
Phone: 403/492-2425
FAX: 403/492-7715

Eun-Jung Jin

Mississippi State University
Department of Biological Sciences
P.O. Box 1289
Mississippi State, MS 39762
Phone: 601/325-4467
Email: ejj@msstate.edu

Koichiro Kameyama, MD, PhD

Jiyugaoka Clinic
3-12-10 Yakumo, Park Villa 2F
Meguro, Tokyo 152, Japan
Phone: +81-3/5701-2500
FAX: +81-3/5701-2633

Hoon Kang, M.D.

Our Lady of Mercy Hospital
Department of Dermatology
#665, Pupyongdong Pupyonggu
Inchon, 403-016 KOREA
Phone: +32-510-5528
Fax: +32-510-5827
E-mail: mrhoo@nuri.net

Won H. Kang, MD, PhD

Ajou University School of Medicine
Department of Dermatology
5 Wonchon-dong, Pal dal-ku
Suwon, 442-749 South Korea
Phone: +82 331/219-5912
FAX: +82 331/216-9189

Shinobu Kato, PhD

Massachusetts General Hospital
Harvard Medical School
Cutaneous Biology Research Center
CBRC/MGH East, Bldg. 149, 13th Street
Charlestown, MA 02129
Phone: 617/726-7532
FAX: 617/726-4441
Email: shinobu.kato@cbrc.mgh.harvard.edu

Jaskiran Kaur, MS

New Jersey Medical School
Radiology, Section of Cancer Biology
185 South Orange Avenue
Newark, NJ 02103-2714
Phone: 201/982-3421
FAX: 201/982-5592
Email: jkaur@umdnj.edu

Susan Kidson, PhD

Department of Anatomy and Cell Biology
University of Cape Town, Medical School
Anzio Road, Observatory
Cape Town, 7925 South Africa
Phone: +27 21 406-6464
FAX: +27 21 406-6163
Email: suekid@anat.uct.ac.za

Nam Soo Kim, MD, PhD

Department of Dermatology
Ajou University School of Medicine
5 Wonchon - dong, Paldal - ku
Suwon 442 - 749, Korea
Phone: +82 331-219-5917
FAX: +82 331-219-5189

Sang Tae Kim, MD, PhD

Kosin Medical College
Department of Dermatology
34 Amnam-dong
Pusan, 602-702 South Korea
Phone: +82 51/240-6255
FAX: +82 51/255-8672

Victoria Kimler, PhD

Mercyhurst College
3174 Kensington Road, Apt. 2
Cleveland Heights, OH 44118-3542

Richard A. King, MD, PhD

University of Minnesota
Box 485 UMHC
420 Delaware Street, S.E.
Minneapolis, MN 55455
Phone: 612/624-0144
FAX: 612/624-6645
Email: kingx002@maroon.tc.umn.edu

Jorg M. Klein, PhD

University of West Florida
Department of Cellular and Molecular Biology
11000 University Parkway
Phone: 904/474-2747
FAX: 904/474-3130
Email: jklein@uwf.cc.uwf.edu

W. Gerald Klingler, MD

543 West Miller, Suite 100
Springfield, IL 62702
Phone: 217/744-2000
FAX: 217/744-2004

Nobuhiko Kobayashi, MD, PhD

Laboratory of Cell Biology
National Cancer Institute
National Institutes of Health
Bethesda, MD 20892
Phone: 301/402-0003
FAX: 301/402-8787
Email: kobayash@nih.gov

Takeshi Kobayashi, PhD

Kao Corporation
Institute for Fundamental Research
2606, Akabane, Ichikaimachi
Haga, Tochigi, 321-34, Japan
Phone: +81-285/68-7468
FAX: +81-285/68-7469
Email: 302647@kastanet.kao.co.jp

Gregory J. Kramer, PhD

Procter and Gamble Company
P.O. Box 538707
Cincinnati, OH 45253
Phone: 513/627-1310
FAX: 513/627-0575

Regina M. Kuliawat, PhD

Albert Einstein College of Medicine
Department of Medicine, Division of Endocrinology
1300 Morris Park Avenue
Bronx, NY 10461
Phone: 718/430-8686
Fax: 718/430-8557
E-mail: kuliawat@aecom.yu.edu

Byoung S. Kwon, PhD

Indiana University
Departments of Microbiology & Immunology
635 Barnhill Drive-MS 255
Indianapolis, IN 46202-5120
Phone: 317/274-3965
FAX: 317/274-4090
Email: kkwon@sunflower.bio.indiana.edu

M. Lynn Lamoreux, PhD

Texas A & M University
Department of Pathobiology
College Station, TX 77843
Phone: 409/845-6084
FAX: 409/845-9972
Email: llamoreux@cvm.tamu.edu

Maria T. Lamy-Freund, PhD

Universidade de Sao Paulo
Instituto De Fisica
Caixa Postal 20 516
Sao Paulo, SP CEP 05315-970, Brazil
Phone: +55-11/818-6829
FAX: +55-11/818-6701
Email:

Mu-Hyoung Lee, MD, PhD

Kyung-Hee University Hospital
Department of Dermatology
1, Hoeki-dong, Dongdaemoon-gu
Seoul, 130-702, South Korea
Phone: +82-2-958-8512
FAX: +82-2-969-6538
E-mail: pubu@interpia.net

Peter K. Lee, M.D., Ph.D.

Massachusetts General Hospital
3 Masonic Way
Needham, MA 02194
Phone: 617/726-4452
FAX: 617/726-4453
Email: peter_lee@cbrh.harvard.edu

Isabelle C. Le Poole, MD

AMC/Amsterdam University
Department of Dermatology & Pathology
Meibergdreef 9
1105 AZ Amsterdam, The Netherlands
Phone: +31-20/566-5727
FAX: +31-20/696-0389

Aaron B. Lerner, MD, PhD

Yale Medical School
Department of Dermatology
333 Cedar Street, PO Box 3333
New Haven, CT 06510-8059
Phone: 203/785-5114
FAX: 203/785-7234
Email: aaron_lerner@qm.yale.edu

Norman Levine, MD

University of Arizona
Department of Dermatology
1501 N. Campbell Avenue
Tucson, AZ 85724
Phone: 602/626-7783
FAX: 602/626-4299

Weixiong Li, MD, PhD

New Jersey Medical School
Department of Radiology,
Section of Cancer Biology
185 South Orange Avenue
Newark, NJ 07103-2714
Phone: 201/982-3421
FAX: 201/982-5028
Email: weli@umdnj.edu

Harish Mahalingam, MS

Marshall University School of Medicine
Department of Biochemistry & Mol Biology
1542 Spring Valley Drive
Huntington, WV 25755
Phone: 304/696-7322
FAX: 304/696-7253
Email: med016@muvms.mu.wvnet.edu

Proshiela Manga, Ph.D.

New York University
Department of Dermatology
560 First Avenue, H100
New York, NY 10016
Phone: 212/ 263-0570
FAX: 212/ 263-5819
E-mail: mangap01@mcrcr.med.nyu.edu

Kenneth A. Mason, PhD

University of Kansas
Department of Biochemistry
Lawrence, KS 66045
Phone: 913/864-4279
FAX: 913/864-5321

Katsuo Matsumoto, BS

POLA Laboratories
560 Kashio-Cho, Tozuka-Ku
Yokohama, 244, Japan
Phone: +81 45/826-7231
FAX: +81 45/826-7249

Estela E. Medrano, PhD

Veterans Administration Medical Center
Research Service (5)
2002 Holcombe Drive
Houston, TX 77030
Phone: 713/791-1414 ext 4174
FAX: 713/794-7978
Email: medrano@bcm.tmc.edu

Julian M. Menter, PhD

Morehouse School of Medicine
Department of Medicine & Dermatology
720 Westview Drive S.W.
Atlanta, GA 30310
Phone: 404/752-1697
FAX: 404/752-8443

Frank L. Meyskens, Jr., MD

University of California - Cancer Center
101 City Drive
Orange, CA 92868
Phone: 714/456-6310
FAX: 714/456-5039
Email: flmeyske@uci.edu

Nadine C. Milos, PhD

University of Alberta
Department of Oral Biology
Dentistry - Pharmacy Centre
Edmonton, AB T6G 2M8, Canada
Phone: 403/492-4958
FAX: 403/492-1624

Rosalyn J. Miltenberger, PhD

Oak Ridge National Laboratory
Life Sciences Division
P.O. Box 2009, MS 8077
Bear Creek Road, Y-12 plant, Building 921
Oak Ridge, TN 37831
Phone: 423/574-3966 or 3965
Fax: 423/574-1271
E-mail: miltenberger@bio.ornl.gov

Beatrice Mintz, PhD

Fox Chase Cancer Center
Institute for Cancer Research
7701 Burholme Avenue
Philadelphia, PA 19111
Phone: 215/728-2479
FAX: 215/728-3574

Yutaka Mishima, MD, PhD

Mishima Inst for Dermatological Research
1-4-32 Sowa-cho, Nada-ku
Kobe 657 Japan
Phone: +81 78/842-6342
FAX: +81 78/842-6340

Mark Moody

604 Apartment A
University Drive
Starkville, MS 39759
Phone: 601/324-0424
Email: mwm3@ra.msstate.edu

Kenji Mori

Kanebo, Ltd.
Department of Cosmetics
693 Fifth Avenue, 17th Floor
New York, NY 10022
Phone: 212/244-1506
FAX: 212/563-4064

Randall L. Morrison, PhD

Hood College
Department of Biology
401 Rosemont Avenue
Frederick, MD 21701
Phone: 301/696-3659
FAX: 301/694-7653
Email: rmorrison@nimue.hood.edu

Bryan P. Murphy, PhD

Clairol Research & Development Labs
2 Blachley Road
Stamford, CT 06922
Phone: 203/357-5025
FAX: 203/969-2577
Email: bryan-p.-murphy@ccmail.bms.com

Anthony J. Nappi, PhD

Loyola University of Chicago
Department of Biology
6525 North Sheridan Road
Chicago, IL 60626
Phone: 312/508-3632
FAX: 312/508-3648
Email: anappi@orion.it.luc.edu

John C. Naughten, PhD

Northern State University
12th and Jay Streets
Aberdeen, SD 57401-7198
Phone: 605/622-2456
FAX: 605/622-3022
Email: naughtej@wolf.northern.edu

Luiz Eduardo M. Nery
University de Sao Paulo

J. Michael Newton, BS
4 Bishop Lane
Menlo Park, CA 94025
Phone: 415/723-7017
Email: jnewton@cmgm.stanford.edu

Richard M. Niles, PhD
Marshall University School of Medicine
Department of Biochemistry & Molecular Biology
1542 Spring Valley Drive
Huntington, WV 25755
Phone: 304/696-7323
FAX: 304/696-7253

James J. Nordlund, MD
University of Cincinnati
Department of Dermatology
231 Bethesda Avenue, Mail #592
Cincinnati, OH 45267-0592
Phone: 513/558-6242
FAX: 513/558-0198
Email: nordlujj@uc.eduexternal

David A. Norris, MD
Department of Dermatology
University of Colorado Medical Center
4200 East 9th Avenue
Denver, CO 80262
Phone: 303/372-1142
FAX: 303/372-1159

Nuning Nurcahyani
Mississippi State University
Department of Biological Sciences
PO Box 3509
Mississippi State, MS 39762
Phone: 601/320-4158
Fax: 601/325-7939
E-mail: nn2@ra.msstate.edu

William S. Oetting, PhD
University of Minnesota
Box 485 UMHC
420 Delaware Street S.E.
Minneapolis, MN 55455
Phone: 612/624-1139
FAX: 612/624-6645
Email: bill@lenti.med.umn.edu

Milton R. Okun, MD
Dermatopathology Foundation
291 Turnpike Street
P.O. Box 377
Canton, MA 02021
Phone: 617/821-0648
FAX: 617/821-6586

Seth J. Orlow, MD, PhD
NYU Medical Center
Department of Dermatology
550 First Avenue, RM H-100
New York, NY 10016
Phone: 212/263-5070
FAX: 212/263-8752
Email: orlows01@mccr.med.nyu.edu

Jean Paul Ortonne, MD
Hopital Archet 2
B.P. 79
06202 Nice Cedex 3, France
Phone: +33 0492/03-64-88
FAX: +33 0492/03-65-60

David M. Parichy, BA
University of California at Davis
Section of Evolution and Ecology
The Center for Population Biology
Davis, CA 95616
Phone: 916/752-3634
FAX: 916/752-1449
Email: dmparichy@ucdavis.edu

Kyoung C. Park, MD, PhD
Seoul National University
College of Medicine
28 Yungun-dong, Chongno-gu
Seoul 110-744, South Korea
Phone: +82 2/760-3491
FAX: +82 2/747-7933

Nathan B. Parker, BS, BGS
Dept of Biochemistry, Cellular & Molecular Biology
University of Kansas
Lawrence, KS 66045
Phone:
Fax: 913-864-5321
Email: nparker@falcon.cc.ukans.edu

Madhu A. Pathak, MD, PhD
Harvard Medical School
Dermatology Department
Harvard Medical School
Massachusetts General Hospital
Bartlett Bldg 617
Boston, MA 02114
Phone: 617/726-3996
FAX: 617/726-1033

William J. Pavan, PhD
National Institutes of Health
Natl Center for Human Genome Res
LGDR, Building 49, Room 4A82
Bethesda, MD 20892
Phone: 301/402-2036
FAX: 301/402-2170
Email: bpavan@nchgr.nih.gov

John M. Pawelek, PhD

Yale Medical School
Department of Dermatology
333 Cedar Street
New Haven, CT 06510
Phone: 203/785-4963
FAX: 203/785-7637
Email: sodi@biomed.med.yale.edu

Sreekumar G. Pillai, MS

University of Massachusetts, Amherst
Department of Veterinary & Animal Sciences
#307 Stockbridge Hall
Amherst, MA 01003
Phone: 413/545-2137
Email: sree@vasci.umass.edu

Seymour H. Pomerantz, PhD

5717 Ridgedale Road
Baltimore, MD 21209
Phone: 410/367-7281

Susan Porter, PhD

Department of Pathology and Laboratory Medicine
University of British Columbia
2211 Westbrook Mall
Vancouver, B C V6T 2B5 Canada
Phone: 604/833-7096
FAX: 604/822-7635
Email:
susan_porter@academic.pathology.ubc.can

S. Brian Potterf, MS

National Institutes of Health, NCI
Laboratory of Cell Biology
Building 37, Room 1B22
Bethesda, MD 20892
Phone: 301/402-0003
FAX: 301/402-8787
Email: sbpchika@erols.com

Neelu Puri, PhD

Fox Chase Cancer Center
7701 Burholme Avenue
Philadelphia, PA 19111

Walter C. Quevedo, Jr., PhD

Brown University
Division of Biology & Medicine
Box G-B599
Providence, RI 02912
Phone: 401/863-2758
FAX: 401/863-1971
Email: walter_quevedo_jr@brown.edu

Rivka A. Rachel, MD

Columbia University
Center for Neurobiology & Behavior
630 W. 168th St., P&S 14-509
New York, NY 10032
Phone: 212/305-5882
FAX: 212/305-5498
Email: rar30@columbia.edu

Michael L. Rachkovsky, PhD

Yale University School of Medicine
Department of Dermatology
333 Cedar Street
New Haven, CT 06510
Phone: 203/785-3078
FAX: 203/785-7637

Parthasarathy Ramasastry, MS

South Dakota State University
Department of Biology & Microbiology
Brookings, SD 57007
Phone: 605/688-4554
FAX: 605/688-5624

Mark V. Reedy, BS, BA

University of California - Davis
Department of Molecular and Cellular Biology
Storer Hall
Davis, CA 95616
Phone: 916/752-3634
FAX: 916/752-1449
Email: mvreedy@ucdavis.edu

Arthur R. Rhodes, MD, MPH

University of Pittsburgh Medical Center
Department of Dermatology
3601 Fifth Avenue
Pittsburgh, PA 15213
Phone: 412/648-3266
FAX: 412/648-8117

Manuel Rieber, PhD

I.V.I.C. (Tumor Cell Biology)
BAMCO CCS-199-00
P.O. Box 025322
Miami, FL 3102-5322
Phone: +582/501-1494
FAX: +582/501-1382
Email: mrieber@pasteur.ivic.ve

Carolyn D. Roberson

Mississippi State University
Department of Biological Sciences
PO Box 3034
Mississippi State, MS 39762
Phone: 601/323-3139
Fax: 601/325-7939
E-mail: cdr6@ra.msstate.edu

Mark D. Rollag, PhD

Uniformed Services University
Department of Anatomy
4301 Jones Bridge Road
Bethesda, MD 20814-4799
Phone: 301/295-3212
FAX: 301/295-1715
Email: rollag@usuhs.usuhs.mil

Susana Rosemblat, MD

New York University Medical Center
Department of Dermatology
562 First Avenue, Room H-313
New York, NY 10016
Phone: 212/263-5070
FAX: 212/263-8752

Deepa Rungta, PhD

Galderma Research, Inc
3099 Science Park Road
Suite 250
San Diego, CA 92121
Email: rungta@inetworld.net

Ryan J. Saetveit, BS

South Dakota State University
Department of Biology and Microbiology
802 11th Avenue
Brookings, SD 57006
Phone: 605/697-5260
Email: w9as@sdsu.sdstate.edu

Chie Sakai, MD

Laboratory of Cell Biology
Bldg 37 Room 1B25
National Institutes of Health
Bethesda, MD 20892
Phone: 301/402-0003
FAX: 301/402-8787

Rangaprasad Sarangarajan, PhD

Department of Dermatology
University of Cincinnati
PO Box 670592
Cincinnati, OH 45267-0592
Phone: 513/558-6242
Fax: 513/558-0198

Stefan Schmitz, MD

Free University of Berlin
Department of Dermatology
Clinical Medical Centre Steglitz
Hindenburgdamm 30
12200 Berlin, Germany
Phone: +49 30/378-2770
FAX: +49 30/789-4141

Glynis A. Scott, MD

University of Rochester School of Medicine
Department of Dermatology
301 Elmwood Avenue
Rochester, NY 14642
Phone
FAX: 716-271-4715
Email: gatt@db3.cc.rochester.edu

Ian R. Scott, PhD

Unilever Research U.S.
45 River Road
Edgewater, NJ 07020
Phone: 201/963-7100 ext. 2919
FAX: 201/963-5332

Miri Seiberg, PhD

Skin Research Center
J&J CPWW
199 Grandview Road
Skillman, NJ 08558
Phone: 908/874-2325
FAX: 908/874-2323
Email: mseiber@cpius.jnj.com

Anupma Mohan Sharma

Department of Biochemistry
Hindustan Lever Research Centre
I.C.T. Link Road, Chakala
Andheri (East)
Mumbai - Maharashtra - 400099 India
Phone:
Fax: +91-22-838-5013

Wade C. Sherbrooke, PhD

American Museum of Natural History
Southwestern Research Station
Portal, AZ 85632
Phone: 602/558-2396
FAX: 602/558-2396

Youichi Shimatani

Shiseido Company Ltd.
R & D Planning Division
R & D Headquarters
Tokyo 104-10 Japan
Phone: +81 3/3571-9477
FAX: +81 3/3572-2675

Toshihiro Shioda, MD, PhD

MGH Cancer Center
Department of Tumor Biology
Building 149, 7th Floor, 13th Street
Charlestown, MA 02129
Phone:
FAX: 617/726-5637
Email: shioda@helix.mgh.harvard.edu

Willys K. Silvers, PhD

University of Pennsylvania
School of Medicine
Department of Genetics
Philadelphia, PA 19104-6145
Phone: 215/898-5174
FAX: 215/573-5892

Andrzej T. Slominski, MD, PhD

Albany Medical College
Dept. of Pathology & Lab Medicine
47 New Scotland Avenue
Albany, NY 12208
Phone: 518/262-5454
FAX: 518/262-3663
Email: andrzej-slominski@ccgateway.amc.edu

J. Robert Smyth, Jr., PhD

University of Massachusetts
Department of Veterinary & Animal Science
307A Stockbridge Hall
Amherst, MA 01003
Phone: 413/545-2137
FAX: 413/545-6326
Email: wgraves@coopest.umass.edu

Arthur J. Sober, MD

Massachusetts General Hospital
Department of Dermatology
Boston, MA 02114
Phone: 617/726-7989
FAX: 617/724-2745

Stefano A. Sodi, PhD

Yale University School of Medicine
Department of Dermatology
333 Cedar Street
New Haven, CT 06520
Phone: 203/785-3067
FAX: 203/785-7637

Seonghyang Sohn, PhD

Institute for Medical Science, Ajou University
Laboratory of Cell Biology
Paldal-gu, Wonchon-dong
Suwon, Korea 442-749
Phone: +82 331/219-4510
FAX: +82 331/219-4503

Arturo Solis-Herrera, MD

Autonomal University of Aguascalientes
Department of Ophthalmology
Lopez Velarde 108 Centro
Aguascalientes, Aguascalientes 20000
Phone: +49-15-79-847726-5625
Fax: +49-16-29-01
E-mail: svdadmda@ags.ciateq.mx

Anjaiah Srirangam, PhD

Indiana University Medical Center
Department of Microbiology and Immunology
635 North Barnhill Drive, MS #255
Indianapolis, IN 46202
Phone: 317/274-3965
Fax: 317/274-4090
Email: asrirang@indyvax.iupui.edu

Manickam Sugumaran, PhD

University of Massachusetts at Boston
Department of Biology
100 Marrissey Boulevard
Boston, MA 02125
Phone: 617/287-6600
FAX: 617/287-6650

Jamal Sumayah

Department of Biochemistry
NYU Medical Center
555 First Ave.
New York, NY 10016

Itaru Suzuki

POLA Chemical Industries, Inc.
Fundamental Technology Laboratories
560 Kashio-cho, Totsuka-ku
Yokohama, 244-0812 JAPAN
Phone: +81-45-826-7232
Fax: +81-45-826-7249
E-mail: itaru@pola.co.jp

Richard T. Swank, PhD

Roswell Park Cancer Institute
Department of Molecular & Cell Biology
Elm and Carlton Streets
Buffalo, NY 14263
Phone: 716/845-3429
FAX: 716/845-8169
Email: rswank@mcbio.med.buffalo.edu

Harold M. Swartz, MD, PhD

Dartmouth Medical School
7785 Renssen, Room 600D
Hanover, NH 03755
Phone: 603/650-1955
FAX: 603/650-1130
Email: harold.swartz@dartmouth.edu

Masayoshi Tachibana, MD, PhD

Natl Inst of Deafness & Other Communications Disorders
Laboratory of Molecular Genetics
Section on Gene Expression and Function
5 Research Court
Rockville, MD 20850
Phone: 301/402-3033
FAX: 301/402-4987
Email: mtachiba@pop.nidcd.nih.gov

Takako Takakuwa

University of Cincinnati
Department of Dermatology
231 Bethesda Avenue
PO Box 670592
Cincinnati, OH 45267-0592
Phone: 513/558-6242
Fax: 513/558-0198
E-mail: cyl02351@niftyserve.or.jp

Siak-Kim Tan, MBBS

35 Keris Drive
Singapore 456998 Malaysia
Phone: +65 241-2691
Fax: +65 443-6642
E-mail: sktan69@hotmail.com

John D. Taylor, PhD

Wayne State University
Dept. of Biological Sci & Radiation Oncol
Detroit, MI 48202
Phone: 313/577-2877
FAX: 313/577-0798

Masayuki Tejima, MSc

Shiseido America Technocenter
100 Tokeneke Road
Darien, CT 06820
Phone: 203/656-7999
FAX: 203/656-7995
Email: turtleyuki@aol.com

Giselle Thibaudeau, PhD

Mississippi State University
Department of Biological Sciences
Harned Hall
Mississippi State, MS 39762
Phone: 601/325-7572
FAX: 601/325-7939
Email: Giselle@ra.msstate.edu

Kenneth J. Tomecki, MD

Cleveland Clinic Foundation
Department of Dermatology - A61
9500 Euclid Avenue
Cleveland, Ohio 44195
Phone: 216/444-2651
FAX: 216/445-6365

Jeffrey M. Tosk, PhD

La Sierra University
Department of Biology
4700 Pierce Street
Riverside, CA 92515
Phone: 909/785-2216
FAX: 909/785-2111
Email: jtosk@lasierra.edu

DeWayne Townsend, PhD

University of Minnesota
16-133 Moos Tower
515 Delaware Street S.E
Minneapolis, MN 55455
Phone: 612/625-7467
FAX: 612/624-6645
Email: d-town@maroon.tc.umn.edu

Ronald Trancik, PhD

Upjohn Company
Department of Clinical Dermatology
7000 Portage Road, 9157-298-224
Kalamazoo, MI 49001
Phone: 616/329-8459
FAX: 616/328-5291

Ram K. Tripathi, PhD

University of Cincinnati
Department of Dermatology, Mail #592
231 Bethesda Avenue
Cincinnati, OH 45267-0592
Phone: 513/558-6242
FAX: 513/558-0198
Email: tripatrk@ucbeh.san.uc.edu

Maria C. Tuma, PhD

U.I.U.C. - Cell & Structural Biology
601 S. Goodwin Avenue
Urbana, IL 61801
Phone: 217/333-6007
FAX: 217/333-5982
Email: ctuma@pop.jife.uiuc.edu

Setaluri Vijayasaradhi, PhD

Department of Dermatology
Bowman Gray School of Medicine
Wake Forest University
Winston-Salem, NC 27157
Phone:
FAX: 910/ 716-7732
Email: setaluri@bgsm.edu

Maria A. Visconti, PhD

Universite de Sao Paulo-Biociências
R. Do Matao - Travessa 14
Cidade Universitaria CP 11176.
Sao Paulo, SP 05422-970 , Brazil
Phone: +55 11/818-7610
FAX: +55 11/817-7422
Email: maviscon@cce.usp.br

Michael M. Wick, MD, PhD

1180 Beacon Street, Suite 6A
Brookline, MA 02146
Phone: 617/232-2637
FAX: 617/735-9068

Scott Wildenberg, BS

University of Minnesota
Department of Medicine
16-262 Moos Tower
Minneapolis, MD 55455
Phone: 612/625-5628
FAX: 612/624-6645
Email: wilden@lenti.med.umn.edu

Weidong Xu, Ph.D.

Department of Cell Biology
Huffington Center on Aging
Baylor College of Medicine
One Baylor Plaza, M320
Houston, TX 77054
Phone:
FAX: 713-794-7938
Email: weidongx@bcm.tmc.edu

713-791-1414 (ext. 4167)

Yiqing Xu, MD, PhD

Email: xuy@mskmail.mskcc.org

Lisa Zeise, PhD

MEL-CO
4255 Count Road MM
Orland, CA 95963
Phone: 916/865-9033
FAX: 916/865-4092

Antonis Zervos, PhD

Massachusetts General Hospital
Harvard Medical School
Cutaneous Biology Research Center
Building 149, 13th Street
Charlestown, MA 02129
Phone: 617/726-4443
FAX: 617/726-4453
Email: zervos@frodo.mgh.harvard.edu

Hua (Kelly) Zhang, PhD

Unilever Research, US
SKN Laboratory
45 River Road
Edgewater, NJ 07020
Phone: 201/840-2320
FAX: 201/840-8291
Email: kelly.zhang@unilever.com

Huiquan Zhao, PhD

University of Cincinnati
Department of Dermatology
231 Bethesda Avenue
Cincinnati, OH 45267
Phone: 513/558-6242
FAX: 513/558-0198

