



PASPCR

Newsletter

Volume 5 Number 2

June, 1997

Introduction . . .

by the Publications Committee

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 the *PASPCR Newsletter*; help us to update the Job Listings, Calendar of Events, Meeting Reports, Abstracts in press and other items of general membership interest. If you attend a scientific meeting at which you heard about 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 any of the members of the Publications Committee.

NEW! WorldWideWeb Pages for the PASPCR. The PASPCR now has its own **WWW** home page. We plan this to be a major source of current information for the PASPCR membership. The address for the page is: <http://lenti.med.umn.edu/paspcr>. This site contains information on the goals of the society, future meetings, council information, past issues of the *PASPCR Newsletter* as well as links to other sites including the InterPig DataBase, the International Pigment Cell Conference in Nagoya and the International Federation of Pigment Cell Societies (IFPCS).

We have now included the membership directory on that page; please notify us if you wish any or all of your information to be deleted or modified on that site.

The PASPCR WWW page system is still under construction and we want to know if there is any other information you would like located on this site.

Please check out the PASPCR web site and send any comments and/or suggestions to either the PASPCR WebMaster Bill Oetting at bill@lenti.med.umn.edu or to Vince Hearing at hearingv@nih.gov.

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Calendar of Events :

Jun 10 - 14, 1997 4th World Conference on Melanoma to be held in Sydney, Australia (contact: The Melanoma Foundation, PO Box M123, Camperdown, NSW 2050 Australia; FAX: +61 2/550-6316)

Jun 15- 18, 1997 VIIth PASPCR Annual Meeting, to be held in Providence, RI (contact: Dr. Walter C Quevedo, Jr., Brown University, Division of Biology and Medicine, Providence, RI 02912; FAX: 401/863-1971)

Jun 22 - 24, 1997 International Meeting "Pigmentary Disorders from a Global Perspectives" to be held in Bali, Indonesia (contact: Bureau PAOG, Tafelbergweg 25, 1105 BC Amsterdam, The Netherlands; FAX: +31 20/696-3229)

Aug 24 - 29, 1997 International Congress of Biochem & Mol Biology with the Amer Soc for Biochem & Mol Biology, to be held in San Francisco, CA (contact: FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA; FAX: +1 301/530-7014)

Oct 9- 11, 1997 7th ESPCR Annual Meeting, to be held in Bordeaux, France (contact: 7th ESPCR Meeting Bordeaux, c/o Congres Seminaires Organisation, 81, Boulevard, Pierre 1^{er}, 33110 Le Bouscat, Bordeaux, France)

Dec 13 - 17, 1997 American Society for Cell Biology Annual Meeting, to be held in Washington DC (contact: FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA; FAX: +1 301/530-7014)

Oct 15 - 18, 1998 VIIIth PASPCR Annual Meeting, to be held in Snowmass, CO (contact: Dr. David Norris, Dermatology Dept, Univ of Colorado Medical Center, Denver, CO 80262 USA; FAX: +1 303/372-1159)

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)

Welcome to New Members

by James J Nordlund

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

James L. Christiansen	Donald B Galbraith	Thomas J Hornyak
Eric Jacobson	Eun-Jung Jim	Shinobu Kato
Jaskiran Kaur	Rivka Rachel	Seonghyang Sohn
Anjaiah Srirangam	Antonis Zeruos	Hua (Kelly) Zhang

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

Corporate Sponsors

by James J Nordlund

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

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VIIth Annual Meeting of the PASPCR

by Walter Quevedo / Hal Swartz

June 15th - 18th, 1997 The Westin Hotel Providence, RI

The Organizing Committee for the 7th Meeting of the PanAmerican Society for Pigment Cell Research enthusiastically invites you to attend the Society's annual meeting this June 15th - 18th in Providence. The Westin Hotel is attractive to the eye and brought to life by a staff that is friendly, professional and efficient. Alistair Cooke has said that Spring in New England is one of America's great attractions. Come and enjoy it with us! We have attempted to supplement Mother Nature's visceral pleasure by providing challenge for the intellect as entertainment and refreshment for periodic relaxation of the mind and body. To get things started, the keynote speakers will provide the foundations for four important themes of the meeting: 1) The molecular biology of melanosome synthesis and function, 2) Novel approaches to the development of anti-melanoma vaccines and other treatments, 3) The origin, distribution and functional significance of ocular melanin, and 4) The nature and significance of programmed death (apoptosis) of normal melanocytes and melanoma cells. Symposia, mini-symposia and workshops will reflect not only these themes but also those inclusive of the broadest interests of the Society's members. The Sunrise Teaching Sessions will permit individuals specialized in one approach to pigment cell research to gain basic access to the vocabulary, methods and concepts of fellow members taking other approaches. The Program Committee has emphasized the importance of providing opportunities for social interaction throughout the scientific sessions. Social activity beyond the Westin Hotel will include the Annual Reception/Banquet at the Brown Faculty Club noted for its architecture and kitchen. An optional outing to the Haffenreffer Grant of Mt. Hope for a "clambake" will provide an opportunity for a glimpse of the historic buildings of Providence and Bristol, Rhode Island. You might consider lingering in the area for a few days, for historic Newport, Rhode Island and Boston and Cape Cod, Massachusetts are within an hour's drive.

The weather should be pleasant, neither too warm or too cool. So help to make the annual meeting a success by attending and actively participating in all of its functions.

For the Organizing Committee, Best Regards /s/ *Walter Quevedo* and *Harold Swartz*

PROGRAM

SUNDAY, JUNE 15

- 12:00 - 7:00 pm **Registration** (Meeting Hall Foyer, Westin Hotel)
- 12:00 - 2:00 pm **PASPCR Council Meeting**
- 12:00 - 2:00 pm **Setup and First Formal Poster Viewing Session**
- 2:00 pm **Greetings** - Donald J. Marsh, Dean of Medicine and Biological Sciences, Brown University
- 2:05 - 5:45 pm Symposium I: MOLECULAR ASPECTS OF MALIGNANT MELANOMA (Harold J. Wanebo and Frank L. Meyskens, Jr., co-chairs)**
- 2:05 pm NEW BIOLOGIC STRATEGIES IN THE TREATMENT OF MELANOMA AN OVERVIEW - **Harold J. Wanebo**.
- 2:30 pm **Keynote Address:** IDENTIFICATION OF HUMAN MELANOMA ANTIGENS RECOGNIZED BY TUMOR INFILTRATING T LYMPHOCYTES - THEIR USE FOR IMMUNOTHERAPY - **Yutaka Kawakami**.
- 3:15 pm REDOX RESPONSES IN NORMAL HUMAN MELANOCYTES AND METASTATIC MELANOMA - **Frank L. Meyskens Jr.**, Julie A. Buckmeier, Nilou Tohidian and Hung V. Chau.
- 3:35 pm IMMUNE RESPONSE TO MELANOSOMAL DIFFERENTIATION ANTIGEN INDUCED BY ALTERED ANTIGEN - **Shirley M. Bartido**, Isao Hara, Clarissa Naftzger, Siqun Wang, Lawrence Weber, George Yang, Yiqing Xu, Vijayasradhi Setaluri, Jie Qin, Yoichi Moroi and Alan N. Houghton.
- 3:55 pm Break
- 4:10 pm MONITORING OF GENE EXPRESSION IN MELANOMA CELLS DURING THE EARLY STEPS OF METASTASIS - **Toshihiro Shioda**, Lance L. Munn, Martin H. Fenner, Rakesh K. Jain and Kurt J. Isselbacher.
- 4:25 pm PREVENTION OF PRIMARY MELANOMA TUMOR GROWTH AND LUNG METASTASES USING VACCINES AND LYMPHOKINES - **David P. Shryer**, Hendrick Bogaars, Vincent J. Hearing and Harold J. Wanebo.
- 4:40 pm PROMOTER ACTIVITY OF MELANOCYTE-SPECIFIC GENE 1 (MSG1) CORRELATES WITH PIGMENTATION IN MOUSE MELANOMA CELL LINES - **Martin H. Fenner**, Julia E. Parrish, David L. Nelson, Kurt J. Isselbacher and Toshihiro Shioda.
- 4:55 pm MSG1, A MELANOCYTE-SPECIFIC NUCLEAR PROTEIN, IS INDUCED BY PHORBOL ESTER AND ACTIVATES TRANSCRIPTION - **Toshihiro Shioda**, Martin H. Fenner and Kurt J. Isselbacher.
- 5:10 pm REGULATION OF FGF-2 EXPRESSION IN SK-MEL-2 MELANOMA CELLS BY THE c-MYB PROTO-ONCOPROTEIN - **Mark R. Miglarese**, Ruth Halaban and Neil W. Gibson.
- 5:25 pm ABERRANT RETENTION OF TYROSINASE IN THE ENDOPLASMIC RETICULUM MEDIATES ACCELERATED DEGRADATION OF THE ENZYME AND CONTRIBUTES TO THE DEDIFFERENTIATED PHENOTYPE OF AMELANOTIC MELANOMA CELLS - **Ruth Halaban**, Elain Cheng, Yuhua Zhang, Gisela Moellmann, Douglas Hanlon, Marek Michalak, Vijayasradhi Setaluri and Daniel N. Hebert.
- 5:45 - 6:15 pm **General Assembly**
- 6:15 - 7:30 pm **Reception** (light refreshments)
- 7:30 pm **Evening Free** (poster viewing)

MONDAY, JUNE 16

- 7:00 - 8:15 am **Sunrise Session #1 (and continental breakfast)**
MOUSE GENETICS SYSTEMS: AN INTRODUCTION TO THE USE OF MOUSE GENETICS RESOURCES IN MOLECULAR AND DEVELOPMENTAL PIGMENT CELL RESEARCH - **Murray Brilliant and Greg Barsh**
- 8:30 - 11:15 am **Minisymposium I: PIGMENT CELL GENETICS AND MOLECULAR BIOLOGY (Murray Brilliant and Greg Barsh, co-chairs)**
- 8:30 am ROLE OF MITF IN MELANOCYTE DEVELOPMENT - Karin Opdecamp, Minh-Thanh Nguyen, Atsuo Nakayama and **Heinz Arnheiter**.
- 9:05 am THE MOUSE PALE EAR (*ep*) MUTATION IS A MODEL FOR HERMANSKY-PUDLAK SYNDROME (HPS) - **Murray H. Brilliant**, John M. Gardner, Scott C. Wildenberg, Edward K. Novak, Michael E. Rusiniak, Richard T. Swank, Natalie M. Keiper, Neelu Puri, Nobuko Hagiwara, Joshua N. Finger, Anne L. Lehman and Richard A. King.
- 9:25 am IDENTIFICATION OF A NOVEL cDNA ASSOCIATED WITH THE HERMANSKY-PUDLAK SYNDROME (HPS) - **Scott C. Wildenberg**, James P. Fryer, John M. Gardner, William S. Oetting, Richard T. Swank, Murray H. Brilliant and Richard A. King.
- 9:45 am GENETIC REGULATION OF MELANOCYTE PATTERNING - H. Rhim, M. Cheng, S. Tilghman and **William Pavan**.
- 10:00 am Break
- 10:30 am ALTERNATIVE SPLICING IN NORMAL HUMAN MELANOCYTES - James P. Fryer, Raymond E. Boissy, Richard A. King and **William S. Oetting**.
- 10:45 am ACTIVATION OF TRP-2 EXPRESSION: REGULATION BY CELL DENSITY IN CULTURE AND *IN VIVO* EXPRESSION IN TRANSGENIC MICE - **Thomas J. Hornyak** and Edward B. Ziff.
- 11:00 am THE USE OF cDNA MICROARRAYS TO ANALYZE MELANOCYTE DEVELOPMENT AND FUNCTION - **Ulrike Teichmann**, M. Bittner, J. Trent and W. Pavan.
- 11:15 - Noon & 1:15 - 3:15 pm **Symposium II: ROLE OF MELANOCYTE DEATH DURING DEVELOPMENT AND ADAPTIVE RESPONSES OF SKIN TO DAMAGING AGENTS (Raymond A. Boissy and William Pavan, co-chairs)**
- 11:15 am **Keynote Address: A MODEL SYSTEM FOR STUDYING CELL DEATH REGULATION - James H. Wyche**
- 12:00 - 1:15 pm **Poster Session #2 and Lunch (on your own)**
- 1:15 pm ELUCIDATION OF THE SIGNALING PATHWAY WHICH MEDIATES THE RESPONSES OF HUMAN MELANOCYTES TO UVB LIGHT - Sungbin Im, Osamu Moro and **Zalfa Abdel-Malek**.
- 1:30 pm THE EFFECTS OF TYROSINASE ACTIVITY AND COMMONLY USED MITOGENS ON THE CYTOTOXICITY OF 4-TERTIARY BUTYL PHENOL TO HUMAN MELANOCYTES - **Fan Yang** and Raymond Boissy.
- 1:45 pm MET-HGF SIGNALING IS CRITICAL FOR MELANOCYTE DEVELOPMENT: IMPLICATIONS FOR WAARDENBURG SYNDROME TYPE II - Lidia Kos, Carola Ponzetto, Glenn Merlino and **William Pavan**.
- 2:00 pm PHYSICAL MAPPING AND EMBRYOLOGICAL ANALYSIS OF *DOMINANT MEGACOLON*, A MOUSE MODEL OF HIRSCHSPRUNG'S DISEASE - **E. Michelle Southard-Smith**, Lidia Kos and William J. Pavan.
- 2:15 pm EFFECTS OF AGOUTI ALLELES, HAIR PLUCKING, AND AGING ON THIOL (CYS AND GSH) CONCENTRATIONS IN MOUSE LIVERS - J.T. Brunz, R.N. Reese and **N.H. Granholm**.

- 2:30 pm DO VIRUSES AND/OR GROWING ENVIRONMENT AFFECT THE EXPRESSION OF AUTOIMMUNE VITILIGO IN THE SMYTH LINE CHICKEN? - **J. Robert Smyth Jr.**, Gisela F. Erf and G. P. Sreekumar.
- 2:45 pm PIGMENT SYNTHESIS AND MOLECULAR MECHANISMS OF COLOR PATTERN FORMATION IN BUTTERFLY WINGS - **P. Bernhardt Koch**.
- 3:00 pm FURTHER ANALYSIS OF GENETIC SENSITIVITY CAUSING PREMATURE CELL DEATH IN VITILIGINOUS AVIAN MELANOCYTES: LOW ANTIOXIDANT PROTECTION - **Roger R. Bowers**, Bao Nguyen and Sherri Buckner.
- 3:15 pm Break
- 3:35 - 5:50 pm** **Minisymposium II: SIGNALING PATHWAYS IN PIGMENT REGULATION**
(**Zalfa Abdel-Malek and Ana Maria Castrucci, co-chairs**)
- 3:35 pm SIGNAL TRANSDUCTION IN NON-MAMMALIAN PIGMENT CELLS - **Ana Maria de Lauro Castrucci**, Alice Reis de Oliveira and Luiz Eduardo Maia Nery.
- 3:55 pm ECTOPIC EXPRESSION OF DOMINANT-NEGATIVE E2F1 IN MELANOCYTES CONFERS TPA-INDEPENDENT GROWTH - **Ruth Halaban**, Elaine Cheng, Yuhua Zhang and Christopher Mandigo.
- 4:15 pm INTRACELLULAR SIGNALLING PATHWAYS REGULATING MELANOGENESIS - **Hee-Young Park**.
- 4:35 pm THE EXTRACELLULAR MATRIX AND GROWTH FACTORS AS COMPLIMENTARY SIGNALING MOLECULES IN MELANOCYTE BIOLOGY: FROM APOPTOSIS TO THE CYTOSKELETON - **Glynis A. Scott** and Linda Cassidy.
- 4:55 pm ROLE OF THE CDK-INHIBITORS p27^{KIP-1}, AND p16^{INK4} AND THE TRANSCRIPTION FACTOR E2F-1 IN MELANOCYTE TERMINAL DIFFERENTIATION - Maher Haddad, Fu Liao, Weidong Xu and **Estela E. Medrano**.
- 5:15 pm SIGNALING PATHWAYS ACTIVATED BY α -MSH AND ENDOTHELIN-1: IMPLICATIONS ON THE REGULATION OF HUMAN MELANOCYTE PROLIFERATION AND MELANOGENESIS - Akihiro Tada and **Zalfa Abdel-Malek**.
- 5:35 pm IDENTIFICATION OF NOVEL GENES MODULATED DURING PHEOMELANOGENESIS BY DIFFERENTIAL DISPLAY AND SUBTRACTIVE HYBRIDIZATION - **Minao Furumura**, Chie Sakai, Michael Ollmann, S. Brian Potterf, Wilfred Vieira, Gregory S. Barsh and Vincent J. Hearing.
- 7:00 - 10:00 pm "Clambake/Steak fry" (optional)

TUESDAY, JUNE 17

8:00 am - 5:00 pm Registration (Ballroom Foyer)

7:00 - 8:15 am Sunrise Session #2 (and continental breakfast)

MELANOCYTE MELANOGENESIS AND POPULATIONS IN THE GENERATION OF CONSTITUTIVE AND FACULTATIVE SKIN COLOR - **James J. Nordlund**

8:30 - 11:45 am Symposium III: MELANOSOMES: BIOGENESIS AND STRUCTURE (Vincent J. Hearing and John Hammer, co-chairs)

8:30 am BIOGENESIS OF MELANOSOMES AND THE PINKEYED DILUTION GENE PRODUCT - **Seth J. Orlow**, S. Rosemlat, E. Sviderskaya, D.J. Easty, A. Wilson and D.C. Bennett.

8:50 am TRAFFICKING OF MELANOSOMAL PROTEINS - **Vijayasradhi Setaluri**.

9:10 am **Keynote Address (Gelb Lecture):** STRUCTURAL AND ENZYMATIC COMPONENTS OF EU-AND PHEOMELANOSOMES - **Vincent J. Hearing**.

- 9:45 am THE ROLE OF MYOSIN V IN THE MOVEMENT OF MELANOSOMES IN MURINE MELANOCYTES - Xufeng Wu, Qin Wei, Blair Bowers, Bob Kocher and **John A. Hammer III**.
- 10:05 am TRANSFER OF MELANOSOMES TO KERATINOCYTES - **Jag Bhawan**.
- 10:25 am Break
- 10:45 am IDENTIFICATION AND CHARACTERIZATION OF A NOVEL 65kDa MELANOSOMAL PERIPHERAL MEMBRANE PROTEIN- **Preminda Samaraweera**, P. Donatien, V.J. Hearing, T. Kobayashi, J.J. Panthier and S.J. Orlow.
- 11:00 am MUTATIONAL ANALYSIS OF THE MODULATION OF TYROSINASE ACTIVITY BY TRP-1 - **Kiyoshi Sato**, F. Beermann, L. Lamoreux and S.J. Orlow.
- 11:15 pm REGULATION OF MELANIN PRECURSOR RATIOS: MELANOSOMAL TRANSPORT OF CYSTEINE AND GLUTATHIONE - **S. Brian Potterf**, Messod Benathan, Chie Sakai, Minao Furumura and Vincent J. Hearing.
- 11:30 am CYTOSOLIC COMPONENTS ALTER TYROSINE UPTAKE BY MELANOSOMES *IN VITRO* - **Mary K. Cullen**, Maria I. Colombo and Philip D. Stahl.
- 11:45 - 1:00 pm **Poster Session #3 and Lunch** (on your own)
- 1:00- 4:15 pm** **Minisymposium III: COMPARATIVE ASPECTS OF VERTEBRATE PIGMENTATION** (**Joseph T. Bagnara and Sally Frost-Mason, co-chairs**)
- 1:00 pm COMPARATIVE ASPECTS OF NON-MAMMALIAN PIGMENTATION - **Joseph T. Bagnara**.
- 1:20 pm THE COMPARATIVE MOLECULAR BIOLOGY, GENETICS AND EVOLUTION OF AXOLOTL PIGMENT CELLS - **Kenneth A. Mason**.
- 1:40 pm COMPARATIVE ASPECTS OF NON-MAMMALIAN PIGMENTATION: REGULATION OF PIGMENT CELLS - **Mac E. Hadley**.
- 2:00 pm THE MELANOGENIC POTENTIAL OF EARLY- VERSUS LATE-EMIGRATING NEURAL CREST CELLS DICTATES THEIR MORPHOGENETIC BEHAVIOR - **Mark V. Reedy**, Cloris D. Faraco and Carol A. Erickson.
- 2:15 pm DEVELOPMENTALLY REGULATED EXPRESSION OF TYROSINASE RELATED PROTEIN-1 IN *AMBYSTOMA MEXICANUM*- **Mark W. Moody** and Giselle Thibaudeau.
- 2:30 pm REGION-SPECIFIC INFLUENCES AND DEVELOPMENTAL REGULATION OF XANTHOPHORE DIFFERENTIATION - **Susan Holder** and Giselle Thibaudeau.
- 2:45 pm CLONING AND MOLECULAR CHARACTERIZATION OF TWO GENES INVOLVED IN THE REGULATION OF PHEOMELANOGENESIS FROM THE DOMESTICATED DOG - **J M. Newton** and Gregory S. Barsh.
- 3:00 pm GENETIC AND MOLECULAR LINKAGE ANALYSIS OF THE SMYTH LINE CHICKEN MODEL FOR AUTOIMMUNE HUMAN VITILIGO - **G.P. Sreekumar**, J.R. Smyth, Jr. and F. Abel Ponce de Leon.
- 3:15 pm Break
- 3:45 pm COMPARATIVE PHYSIOLOGY OF FISH CHROMATOPHORES - **Ana Maria de Lauro Castrucci** and Maria Aparecida Visconti.
- 4:00 pm PHOTOTRANSDUCTION IN *XENOPUS* MELANOPHORES - **Mark D. Rollag**, Ignacio Provencio and Guisen Jiang.
- 4:15 - 6:00 pm** **Minisymposium IV: PHOTOBIOLOGY AND BIOPHYSICS OF MELANIN AND MELANOCYTES** (**Helene Z. Hill and Harold M. Swartz, co-chairs**)

- 4:15 pm ROLE OF INTRACELLULAR PIGMENT IN RESPONSES TO SOLAR RADIATION: ARE WE BARKING UP THE WRONG TREE? - Helene Z. Hill, Weixiong Li and **Jaskiran Kaur**.
- 4:35 pm CHEMICAL REGULATION OF EU-AND PHEO-MELANOGENESIS - **Shosuke Ito**, Kazumasa Wakamatsu and Hiroyuki Ozeki.
- 4:55 pm IDENTIFICATION OF FREE RADICALS IN MELANINS: STUDY OF FREE RADICAL MODELS FOR EUMELANIN AND PHEOMELANIN - **Mark J. Nilges**, Tadeusz Sarna, Barbara Pilas and Harold M. Swartz.
- 5:15 pm THE REACTION BETWEEN FERRITIN AND L-DOPA: A MODEL FOR NEUROMELANIN BIOSYNTHESIS - **Jeffrey M. Tosk**, Anita K. Go, Gerardo Perez, Traci J. Winters, Tomasz Panz and Harold M. Swartz.
- 5:30 pm XAFS STUDIES OF Fe SITES IN SYNTHETIC AND NATURAL NEUROMELANIN - **M. Eisner**, S.C. Moss, A.J. Kropf, B.A. Bunker, L. Zecca, A. Struppolo and R. Crippa.
- 5:45 pm REDOX BUFFERING BY FUNGAL MELANIN AND FE(II) - **Eric S. Jacobson** and Joann D. Hong.
- 7:00 - 10:00 pm **Reception and Banquet**, Brown Faculty Club

WEDNESDAY, JUNE 18

- 7:00 - 8:15 am Sunrise Session #3 (and continental breakfast)**
CHEMISTRY AND BIOCHEMISTRY OF MELANOGENESIS - **Vincent J. Hearing and Shosuke Ito**
- 8:30 - 12:05 pm Symposium IV: OCULAR MELANOCYTES AND RPE - ROLE OF TRANSCRIPTION FACTORS IN PIGMENT CELL BIOLOGY (Seth J. Orlow and James Nordlund, co-chairs)**
- 8:30 am **Keynote Address: EFFECTS OF MICROPHTHALMIA TRANSCRIPTION FACTOR AND KIT GENES ON PIGMENT CELLS OF EYE AND SKIN IN THE VITILIGO MUTANT MOUSE - Richard L. Sidman**
- 9:15 am ANALYSIS OF TYROSINASE AND TYROSINASE RELATED PROTEINS IN THE RPE/CHOROID OF VITILIGO (mi^{-vit}/mi^{-vit}) MICE - **Sylvia B. Smith**, B.K. Zhou and Seth J. Orlow.
- 9:35 am ISOLATION AND CHARACTERIZATION OF A MICROPHTHALMIA INTERACTING PROTEIN THAT INHIBITS TYROSINASE EXPRESSION IN HUMAN MELANOCYTES - Hirofumi Aokil, Ohji Ifuku and **Antonis S. Zervos**.
- 9:55 am Break
- 10:25 am RELATIONSHIP BETWEEN TYROSINASE/MELANIN LEVELS AT BIRTH AND RETINAL PATHWAYS IN DARK-EYED ALBINO MICE - **Rivka A. Rachel** and Carol A. Mason.
- 10:45 am REGULATION OF GROWTH AND MELANOGENESIS OF UVEAL MELANOCYTES *IN VITRO* - **Dan-Ning Hu** and Steve A. McCormick.
- 11:05 am OCULAR MELANOCYTES EXPRESS β -ADRENERGIC RECEPTOR AND RESPOND TO AUTONOMIC NEUROTRANSMITTERS - Huiquan Zhao, Li Li, **Raymond E. Boissy** and James J. Nordlund.
- 11:25 am MODULATION OF TYROSINE TRANSPORT INTO MELANOSOMES MAY REGULATE RESPONSES TO MELANOGENIC STIMULANTS - **S. Brian Potterf** and Vincent J. Hearing.
- 11:45 pm PROTEIN GLYCOSYLATION IN THE REGULATION OF MELANOGENESIS - **S.A. Sodi**, **A.K. Chakraborty**, Y. Avissar, S.J. Orlow, M. Rachkovsky, S. Rosemblat, A. Keh-Yen, J. L. Bolognia and J. M. Pawelek.
- 12:05- 1:00 pm **Business Meeting and Presentation of Awards**

POSTERS

SPACIAL & TEMPORAL DIFFERENCES IN MELANOCYTIC MIGRATORY PATHWAYS OF EMBRYONIC MICE - **Karen J. Dunn** and William J. Pavan

STRAIN-SPECIFIC WHITE-SPOTTING PATTERNS IN LABORATORY MICE - **Dong Fang**, William J. Pavan and M. Lynn Lamoreux.

EFFECT OF CELL-CELL INTERACTION ON THE PRODUCTION OF PROOPIOMELANOCORTIN PEPTIDES *IN VITRO* AND *IN VIVO* - **Jamal Farooqui**, Gong Can, Steve Boyce, Glenn Warden and James Nordlund.

THE CHANGES IN THE PROLIFERATION AND DIFFERENTIATION OF PRIMARY CULTURED EPIDERMAL MELANOCYTES DURING THE DEVELOPMENT OF PIGMENTED SPOTS INDUCED BY UVB IRRADIATION - **Rikako Furuya**, Satoru Akiu, Masako Naganuma, Minoru Fukuda and Tomohisa Hirobe.

MELANOTROPIN PEPTIDES, RECEPTORS, AND ANTAGONISTS - **Mac E. Hadley** and Victor J. Hruby.

CELL SIGNALING DURING DEVELOPMENT OF THE MELANOPHORE IN ZEBRAFISH - **Eun-Jung Jin** and Giselle Thibaudeau.

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TYPE 2 OCULOCUTANEOUS ALBINISM (OCA2) IN ZIMBABWE AND CAMEROON: DISTRIBUTION OF THE 2.7 KB DELETION ALLELE OF THE P GENE - **Neelu Puri**, Donna Durham-Pierre, Robert Aquaron, Patricia M. Lund, Richard A. King and Murray Brilliant.

MODELING FOR MELANOCYTE LIFE AND DEATH IN *LIGHT* AND *SILVER* MICE: THE COMPLEXITY OF GENE INTERACTIONS - Walter C. Quevedo, Jr., **Thomas J. Holstein**, Jacob Dyckman and Charles J. McDonald.

ADDED AT THE PRESS:

THE INVOLVEMENT OF LDH INHIBITION AND THE KREBS CYCLE IN PIGMENT INHIBITION IN THE B16 MOUSE MELANOMA CELL LINE BY AHAS AND OTHER METABOLIC INTERMEDIATES - **Alan D. Heath**.

PRELIMINARY OBSERVATIONS ON THE PARTICIPATION OF TAIL EPIDERMIS IN DORSAL SPOT PATTERN FORMATION IN THE LARVAE OF THE LEOPARD FROG, *Rana pipiens* - **John C. Naughten**.

Pigment Cell Research Wants YOU!

by James J Nordlund

THE PRICE OF THE JOURNAL *PIGMENT CELL RESEARCH* COMES TUMBLING DOWN

Hope that the stock markets don't crash like the cost of our pigment journal. Your subscription to ***Pigment Cell Research*** will be about 45% less than in previous years. The real price was over \$200 but most were getting it at discount for about \$160. At the recent meeting in Anaheim, Munksgaard agreed to revise its pricing schedule for the journal ***Pigment Cell Research*** for Society members only. For an annual fee of \$95 total you can have your own copy of ***Pigment Cell Research***, the official journal of the International Federation of Pigment Cell Societies.

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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.

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 Nagoya

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

Positions - Wanted and Available :

Summer Internship - Johnson & Johnson Consumer Products Worldwide is located in Skillman, NJ. Its primary business are baby care, wound care and skin care. Its Drug Development group is responsible for research leading to new prescriptions (Ortho Dermatology) and consumer skin care products. Project Description: Pigmentation project, looking into molecular and cellular events that regulate melanogenesis. Qualifications: Ph.D. student or post-doctoral fellow in molecular biology with strong interest in skin biology desired. Start Date: Spring/Summer 1997 (up to 12 weeks) Salary: We offer a competitive salary of \$2,600/month and relocation assistance. Interns also have use of our on-site fitness centers. Mentor: Miri Seiber, Ph.D. (908) 874-2325 Contact/Send Resumes to: Nancy Warrick (INT-1), Johnson & Johnson, Corporate College Relations, 501 George Street, New Brunswick, NJ 08901, Tel: (908) 524-3229, FAX: (908) 524-3141.

Assistant Professor - The Department of Physiology at the University of Sao Paulo has an open position for assistant professor. Applications will be received until June 1st. A Ph.D. is required and post-doctoral experience is desirable. The selection will be held during the first week of July with the candidates' presence. The curriculum vitae including copies of the publications, the Ph.D. certificate and a research project on Human or Animal Physiology (including biochemical and biomolecular approaches) should accompany the application. A lecture (undergraduate level) on a picked out subject of one of three areas (Neurosensorial and Muscle Physiology; Cardiorespiratory and Excretory Physiology; Nutrition, Metabolism and Endocrine Physiology) chosen by the candidate should be given to the Selection Committee, that will also interview the candidates. Please contact: Ana Maria de L. Castrucci, Dep. Physiology, Inst. Biosciences, University of Sao Paulo, CP11176, CEP 05422-970, Sao Paulo, Brasil; Fax 5511 818-7422 phone 5511 818-7610 Email AMDLCAST@USP.BR

Predoctoral and Postdoctoral Positions - available for molecular biologists in the areas of drug discovery and metabolism research. Requires experience in gene cloning, DNA sequencing, recombinant protein expression and cell culture methods. Prior experience in dermatology research is desirable. Southern Research Institute is a diversified research and development organization. Our Life Sciences Division provides comprehensive preclinical drug development and testing capabilities as well as basic research in drug design and synthesis, pharmaceutical formulations, toxicology, virology, microbiology, and pharmacology. To apply, send resume or curriculum vitae to: Southern Research Institute, Attention: Suzann Allen, Human Resources, Department 118, P.O. Box 55305, Birmingham, AL, 35255-5305.

Faculty Position - Massachusetts General Hospital, Harvard Medical School, Cutaneous Biology Research Center. The Cutaneous Biology Research Center (CBRC) seeks a molecular, cellular or developmental biologist to establish a program in fundamental research relevant to skin pigmentation. Areas of research can include but are not limited to pigment synthesis and transfer in melanocytes, genetics of mouse coat color and development/migration of neural crest cells. Applicants must have a Ph.D. and/or M.D. degree and relevant postdoctoral experience. Only applicants with a strong research record and the potential to develop extramurally supported research programs will be considered. Individuals with a demonstrated ability to develop imaginative approaches to important biological questions are particularly encouraged to apply. Rank/salary/start-up funds and space are negotiable depending on experience and qualifications. The CBRC occupies 45,000 square feet of fully equipped laboratory space in a new multidisciplinary research facility. Interested individuals should send curriculum vitae, reprints, a statement of research and future directions, along with the names, addresses and telephone numbers of three references to: Dr. Paul F. Goetinck, Chair, Faculty Search Committee, Cutaneous Biology Research Center, Massachusetts General Hospital - East, Building 149, 13th Street, Charlestown, MA 02129

INTERPIG DataBase

by Vincent Hearing

The INTERPIG database is on the InterNet! You can now access the InterPig DataBase at the following address: <http://lenti.med.umn.edu/paspcr/interpig.html>. Please note that as of this time, I estimate that less than 5% of the various IFPCS members have contributed entries. Think of how useful and complete this list would be if everyone took the time to supply their own information.

Please take a moment to fill out the database data entry form (either online through the Web page or via Email) and send it back to Dr. Hearing. Please contact Vince Hearing or Bill Oetting if you need more information about these mechanisms of submission.

Check out the New Table on Pigment Genes & Associated Diseases !!!

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The Bibliography published in this issue covers the period February, 1996 through April, 1996. 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*).

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Demographics of the PASPCR

Degree	Type of Member	North America	South / Central America	Europe	Japan	Other	Total
Predoctoral	Commercial	2	0	0	2	0	4
	Institutional	18	0	0	0	0	18
PhD or DVM	Commercial	14	0	1	1	0	16
	Institutional	66	4	0	2	2	74
MD	Commercial	0	0	0	0	0	0
	Institutional	24	0	4	1	2	31
MD and PhD	Commercial	0	0	0	0	0	0
	Institutional	16	0	0	2	4	22
Totals		139	4	5	8	8	165
	Commercial	20	12 %				
	Institutional	145	88 %				
	Male	123	75 %				
	Female	42	25 %				