

***XIV INTERNATIONAL SYMPOSIUM
ON
RETINAL DEGENERATION***

RD2010

July 13 - 17, 2010

Mont-Tremblant, Quebec, Canada

International Organizing Committee

**Matthew M. LaVail
Joe G. Hollyfield
Robert E. Anderson
Christian Grimm
John D. Ash**

Administrative Coordinator

Holly Whiteside

International Advisory Committee

**Nicolas G. Bazan, USA
Alan C. Bird, England
Alan M. Laties, USA
Eberhart Zrenner, Germany**

**Satellite Symposium of the
*XIX INTERNATIONAL CONGRESS OF EYE RESEARCH***

Young Investigator Travel Awards

The organizers of RD2010 congratulate the individuals listed below as recipients of RD2010 Young Investigator Travel Awards funded by the National Eye Institute, NIH, USA¹, the Foundation Fighting Blindness, USA², the Foundation Fighting Blindness-Canada/Institute of Genetics³, Novartis Pharma AG⁴, Alcon⁵, Genentech⁶, Inspire Pharmaceuticals⁷, and Pfizer Inc.⁸ Eligibility was restricted to graduate students, postdoctoral fellows, instructors and assistant professors actively involved in retinal degeneration research. These awards were based on the quality of the abstract submitted by each applicant. The organizers thank Professor Janet Sparrow of Columbia University in New York City, New York for chairing the Travel Awards Committee of eight senior retinal degeneration investigators.

Awardees

Barbara Maria Braunger⁴

University of Regensburg
Regensburg, Germany

Julien Bruban¹

INSERM
La Garenne Colombes, France

Nora Bianca Caberoy¹

Univ of Miami Miller School of Medicine
Miami, FL USA

Yingming (Amy) Chen³

University of Toronto
Vaughan, Ontario Canada

Therese Cronin¹

University of Pennsylvania
Philadelphia, PA USA

Stefanie Ebert¹

University Regensburg
Regensburg, Germany

Abigail Fahim⁸

Univ of Texas School of Public Health
Houston, TX USA

Michael Farkas¹

University of Pennsylvania
Philadelphia, PA USA

Wai Gin Fong³

Ottawa General Hospital
Ottawa, Ontario Canada

Ana Griciuc¹

Helmholtz Zentrum München
Neuherberg, Germany

Vivek Kumar Gupta¹

Univ of Oklahoma Health Sciences Center
Oklahoma City, OK USA

Finnian Hanrahan²

Trinity College Dublin
Dublin, Ireland

Hong Hao²

National Institutes of Health
Bethesda, MD USA

Xiaoqin He²

University of Bern
Bern, Switzerland

Severin Heynen⁴

University of Zurich
Zurich, Switzerland

Shun-Ping Huang⁵

Univ of Southern California
Alhambra, CA USA

Mark E. Kleinman¹

University of Kentucky
Lexington, KY USA

Elöd Kortvely⁴

University of Tübingen
Tübingen, Germany

Young Investigator Travel Awards

Tatyana Kuznetsova¹

University of Pennsylvania
Philadelphia, PA USA

Aparna Lakkaraju¹

University of Wisconsin-Madison
Madison, WI USA

Karin Littink²

Radboud Univ, Nymegen Medical Centre
Nymegen, The Netherlands

Vanda Sofia Lopes²

IBILI
Coimbra, Portugal

Ulrich Luhmann²

UCL Institute of Ophthalmology
London, United Kingdom

Dharia McGrew¹

Brandeis University
Waltham, MA USA

Calvin Mok^{3,6}

University of Toronto
Toronto, Ontario Canada

Anh Thi Hong Nguyen²

Trinity College Dublin
Dublin, Ireland

Francisco Javier Sancho-Pelluz¹

Columbia University Medical Center
New York, NY USA

Rosaysela Santos¹

University of California, Irvine
Costa Mesa, CA USA

Simone Schimpf-Linzenbold¹

University of Tuebingen
Tuebingen, Germany

Hilda Petrs Silva²

Instituto de Biofísica Carlos Chagas Filho
Rio de Janeiro, Brazil

George Wesley Smith¹

Florida Atlantic University
Boca Raton, FL USA

Chloe Stanton⁵

Western General Hospital
Edinburgh, United Kingdom

Masahiko Sugimoto¹

Cole Eye Institute
Cleveland, OH USA

Naoyuki Tanimoto⁷

University of Tuebingen
Tuebingen, Germany

Félix Vázquez-Chona¹

University of Utah
Salt Lake City, UT USA

Kirstan Vessey²

The University of Melbourne
Melbourne, VIC Australia

Ajoy Vincent³

Hospital for Sick Children, Toronto
Toronto, Ontario Canada

Yuquan Wen¹

Retina Foundation of the Southwest
Dallas, TX USA

Wai Wong²

National Eye Institute, NIH
Bethesda, MD USA

Rosanne Yetemian¹

University of Southern California
Diamond Bar, CA USA

Qi Zhang³

University of Manitoba
Winnipeg, Manitoba Canada

Sarah Zhang¹

Univ of Oklahoma Health Sciences Center
Oklahoma City, OK USA

Schedule & Platform Sessions

Tuesday, July 13, 2010

15:00-19:00 Registration Desk, delegates to pick up programs and name badges as well as set up posters

19:30-20:30 Welcome Reception

20:30-22:30 Welcome Dinner Buffet

Wednesday, July 14, 2010

6:30- 8:00 Breakfast

8:00-8:20 Welcoming Remarks

8:20-9:30 **Platform Session I: New Animal Models of Retinal degeneration**

Moderators: Eric Pierce and David Williams

8:20-8:50 **Translational vision research models**

W. Hicks, L.Y. Shi, J.P. Wang, J.K. Naggert, Patsy M. Nishina

8:50-9:10 **Analyses of three knockin mouse models of RNA splicing factor RP show degenerative changes in the RPE and alterations in mRNA splicing**

Michael H. Farkas, Kinga Bujakowska, Emeline Nandrot, Chris F. Inglehearn, Shomi Bhattacharya, Eric A. Pierce

9:10-9:30 **Reactive Müller Glia: Angels or Demons?**

Félix Vazquez-Chona, Drew Ferrell, Alex Swan, Robert Marc, Edward Levine

9:30-11:00 Poster viewing & coffee

11:00-12:20 **Platform Session II: RPE: Oxidative Stress and Defenses I**

Moderators: Cathy Bowes Rickman and Rosalie Crouch

11:00-11:30 **Novel regulation of the anti-oxidant transcription factor, nrf2, by the ubiquitin system**

Kendra S. Plafker, Linda Nguyen, Mark Barneche, Saima Mirza, Scott M. Plafker

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Schedule & Platform Sessions

11:30-12:00 **RPE epithelial to mesenchymal transition caused by postnatal loss of mitochondrial function**

Douglas Vollrath, Chen Zhao, Douglas Yasumura, Michael Matthes, Nils-Goran Larsson, Joshua L. Dunaief, Dean Bok, Matthew M. LaVail

12:00-12:20 **Transcriptional Regulation of Anti-Oxidant Genes in the RPE,**

Sarah X. Zhang, Yimin Zhong, Jingming Li, Yun-Zheng Le, Joshua J. Wang

12:20-14:00 Lunch

14:00-15:30 Platform Session III: Carotenoids and Oxidative Stress

Moderators: Steven Fliesler and Janet Sparrow

14:00-14:30 **Therapeutic potential of orally administered polyphenols**

Radha Ayyagari, Bhanuprakash Reddy Geereddy, Rajendra Kadam, Uday.B Kompella, Wolfgang Wrasidlo, Vidhyullatha Vasireddy

14:30-15:00 **Identification of StARD3 as the lutein-binding protein in human macula**

Paul S. Bernstein, Binxing Li, Preejith Vachali, Jeanne M. Frederick

15:00-15:30 **Photoreceptor cone defects in mice lacking the antioxidant gene MSRA**

Y. Dun, Emeline F. Nandrot, R. Elattal, Silvia C. Finnemann

15:30-16:40 Poster viewing & coffee

16:40-18:25 Platform Session IV: Cell Biology of Retinal Degeneration

Moderators: Jonathan Lin and Mabelle Pardue

16:40-17:10 **The retinitis pigmentosa protein RP2 links pericentriolar vesicle transport between the Golgi and the primary cilium**

Mike E. Cheetham, Nele Schwarz, Jane Evans, Kerstin Nagel-Wolfrum, Uwe Wolfrum, Alison J. Hardcastle

17:10-17:40 **Escort, a novel molecular chaperone for rhodopsin and TRP is required for photoreceptor survival**

Erica E. Rosenbaum, Kim S. Brehm, Eva Vasiljevic, Roger C. Hardie, Nansi J. Colley

17:40-18:25 Plenary Lecture I: Elise Heon

What Bardet-Biedl Syndrome Teaches us about Ciliopathies

19:30-21:30 Dinner Buffet

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Schedule & Platform Sessions

Thursday, July 15, 2010

6:30-8:00 Breakfast Buffet

8:00-10:00 Platform Session V: Gene Therapy

Moderators: Daniel Schorderet and Timothy Kraft

8:00-8:30 **Immune reaction to gene therapy in the first eye of RPE65 dogs does not prevent rescue in the second eye**

Simon M. Petersen-Jones, M.J. Annear, J.T. Bartoe, S.E. Barker, A.J. Smith, P.G. Curran, J.W. Bainbridge, R.R. Ali

8:30-9:00 **Knock-down of GCAP1 by RNA interference delays photoreceptor degeneration in GCAP-Y99C transgenic mice**

Wolfgang Baehr, Alexander Dizhoor, William W. Hauswirth, Li Jiang

9:00-9:30 **Light-activated channels targeted to retinal ganglion cells restore visual function in retinal degeneration**

John G. Flannery, D. Dalkara, R.R. Klimczak, N. Caporale, M. Visel, D.V. Schaffer

9:30-10:00 **Compacted DNA nanoparticles successfully restore vision in mice**

Muna I. Naash

10:00-11:10 Poster viewing & coffee

11:10-12:30 Platform Session VI: Drugs and Genes for Novel Protective Therapies I

Moderators: Krisztina Valter and Christian Grimm

11:10-11:30 **TAT-XIAP mediated protection of 661W from oxidative stress induced apoptosis**

Wai Gin Fong, Adam Baker, Catherine Tsilfidis

11:30-12:00 **Phenotypic characterization and effects of XIAP gene delivery in retinal degeneration 9 (rd9) mice**

Debra A. Thompson, Naheed W. Khan, Lin Jia, Jingyu Yao, Garrett Grahek, Hemant Khanna, John R. Heckenlively, William W. Hauswirth, David N. Zacks

12:00-12:30 **Inhibition of RPE65 by the spin-trap compound PBN suggests a possible therapy for Stargardt's macular dystrophy**

Michael Redmond, Eugenia Poliakov, Preethi Chander, Susan Gentleman

12:30-14:00 Lunch

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Schedule & Platform Sessions

14:00-15:20 Platform Session VII: Drugs and Genes for Novel Protective Therapies II

Moderators: Jeffrey Boatright and Peter Humphries

14:00-14:30 **Norrin mediates neuroprotective effects on retinal neurons via activation of the wnt/beta-catenin pathway and the induction of neurotrophic growth factors**

Ernst R. Tamm, Andreas Ohlmann, Roswitha Seitz, Thomas Seibuchner

14:30-15:00 **Manipulating cellular homeostasis in retinal degeneration models with hdac inhibitors: from bench to bedside**

Shalesh Kaushal, Radouil Tzekov, Mark P Krebs, Christine Clemson, Syed M Noorwez

15:00-15:20 **On further development of barrier modulation as a technique for systemic ocular drug delivery.**

Finnian Hanrahan and Matthew Campbell

15:20-16:30 Poster viewing & coffee

16:30-17:30 Platform Session VIII: Photoreceptor regeneration in Fish and Dogs?

Moderators: William Beltran and N. Torben Bech-Hansen

16:30-17:00 **Tumor necrosis factor-alpha is required to induce müller glia proliferation in the light-damaged zebrafish retina**

Craig M. Nelson, Ryne Gorsuch, Kristin Ackerman, Francis Raycroft, David R. Hyde

17:00-17:30 **Photoreceptor cell death and proliferation is unique to the STK38L/erd canine retinal degeneration model**

Gustavo Aguirre, Ágnes Berta, Kathleen Boesze-Battaglia, William Beltran

17:30-18:15 Plenary Lecture II: Gregory Hageman

A New Era in Our Understanding of Age-related Macular Degeneration

19:30-21:30 Dinner Buffet

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Schedule & Platform Sessions

Friday, July 16, 2010

6:30-8:00 Breakfast Buffet

8:00-9:30 Platform Session IX: Inflammation and Macular Degenerations I

Moderators: John D. Ash and Olaf Strauß

8:00-8:30 **Mouse model for age-related macular degeneration: sustained outer retinal pathology during aging in response to immunization with an inflammatory signal present in drusen**

Joe G. Hollyfield

8:30-9:00 **Autoimmunity in age-related macular degeneration: a possible role player in disease development and progression**

Alessandro Iannaccone, Indira Neeli, Pratheebha Krishnamurthy, Nataliya Lenchik, Haibao Wan, Ivan C. Gerling, Dominic M. Desiderio, Marko Z. Radic

9:00-9:30 **ABCA4-dependent Complement System Dysregulation and Oxidative Stress**

Roxana A. Radu, Jane Hu, Quan Yuan, Darcy Welch, Jacob Makshanoff, Marcia Lloyd, Gabriel H. Travis, Dean Bok

9:30-10:50 Poster viewing & coffee

10:50-11:50 Platform Session IX: Inflammation and Macular Degenerations II

Moderators: Janet Blanks and Michael E. Boulton

10:50-11:20 **Mechanisms of sublytic membrane-attack-complex-induced VEGF expression and secretion in retinal pigment epithelium monolayers**

Bärbel Rohrer and Kannan Kunchithapautham

11:20-11:50 **Mechanism of induction of choroidal neovascularization in Sorsby Fundus Dystrophy**

Jian Hua Qi, Joe Hollyfield, Bernhard H.F. Weber, Heidi Stoehr, Bela Anand-Apte

11:50-12:50 Platform Session X: Cone Models and Therapy

Moderators: Neal Peachey and Muayyad Al-Ubaidi

11:50-12:20 **Generation and evaluation of the Nr1^{-/-}; Rpe65-R91W mouse, a new model to study cone cell death**

Marijana Samardzija, Naoyuki Tanimoto, Christina Lange, Severin Heynen, Mathias W. Seeliger, Christian Grimm

12:20-12:50 **Identification of potential susceptibility modifiers and signaling pathways contributing to cone dystrophy in arrestin1 knockout**

Cheryl M. Craft, Shun-Ping Huang, Rosanne M. Yetemian, Bruce M. Brown, Guey Shuang Wu, Margaret M. DeAngelis, Austin S. Jelcick, Neena B. Haider

Presenting authors are underlined. Travel Awardees are in **bold**

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Schedule & Platform Sessions

12:50-14:00 Lunch

14:00-15:00 Platform Session XI: CNTF Therapy

Moderators: John Nickerson and Cheryl Gregory-Evans

14:00-14:30 **CNTF induces regeneration of cone outer segments in a rat model of retinal degeneration**

Rong Wen, Weng Tao, Lingyu Luo, Deqiang Huang, Konrad Kauper, Paul Stabila, Matthew M. LaVail, Alan M. Laties, Yiwen Li

14:30-15:00 **High-resolution in vivo imaging of cone photoreceptors in retinal degeneration patients treated with ciliary neurotrophic factor**

Katherine E. Talcott, Kavitha Ratnam, Sanna M. Sundquist, Anna S. Lucero, Travis C. Porco, Brandon J. Lujan, Weng Tao, Austin Roorda, Jacque L. Duncan

15:00-16:00 Poster viewing & coffee

16:00-17:00 Platform Session XII RPE: Oxidative Stress and Defenses II

Moderators: Goldis Malek and Stephanie Hagstrom

16:00-16:30 **Generation of mouse model of atrophic retinal degeneration by induction of oxidative stress**

S. Gibson, Alfred. S. Lewin, J. W. Liu, Y. Le, W. W. Hauswirth

16:30-17:00 **Neuroprotectin D1 regulates phosphorylation status of Bcl-xL and Akt pathways for RPE cell survival**

Nicolas G. Bazan

17:00-17:45 Plenary Lecture III: Jayakrishna Ambati

Age-related macular degeneration and the other double helix

17:45-17:55 Welcome to RD2012 - Joe G. Hollyfield

19:00-23:30 Gala Dinner (Buffet at Summit)

Saturday, July 17, 2010

7:00-9:00 Breakfast and Departure

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Setup posters: All posters should be setup on Tuesday, July 13th or before 8:00 am on Wednesday, July 14th.

Take down posters: All posters should remain up until the end of the afternoon session on Friday, July 16th.

Poster presentation schedule: The Posters are numbered, as indicated below. You can present your poster anytime, but to give everyone ample time to view posters we will alternate odd versus even poster presentation times. The specific time you are assigned to be at your poster is shown in the schedule below.

Wednesday July 14th:

- Morning session, odd numbered posters will be presented.
- Afternoon session, even numbered posters will be presented.

Thursday July 15th:

- Morning session, even numbered posters will be presented.
- Afternoon session, odd numbered posters will be presented.

Friday July 16th:

- Morning session, odd numbered posters will be presented.
- Afternoon session, even numbered posters will be presented.

(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

RD2010 Poster Sessions

AMD: Basic Mechanisms

- A2E levels and lipofuscin fluorescence do not correlate in human RPE**
Rosalie Crouch, Patrice Goletz, Anne Hennaker, Zsolt Ablonczy
- An interactome for HTRA1**
Chloe M. Stanton, Elöd Kortvely, Kevin J. Chalmers, Karsten Boldt, Stefanie M. Hauck, Marius Ueffing, Alan F. Wright
- Analysis of the RPE sheet in retinal degenerations**
John M. Nickerson, Micah A. Chrenek, Nupur Dalal, Chris Gardner, Hans Grossniklaus, Yi Jiang, Jeffrey H. Boatright
- CD36 is involved in sub-retinal deposits in age-related retinal degeneration**
Emilie Picard, M. Houssier, F. Sennlaub, W. Lubell, H. Ong, S. Chemtob
- Endo-lysosome function in the retinal pigment epithelium in health and disease**
Aparna Lakkaraju and Enrique Rodriguez-Boulan

6. **Ex vivo transfection of mouse RPE: a tool for assessing targeted gene repair**
Vincent Ciavatta, Cristina Kendall, John Nickerson, Jeff Boatright
7. **Light evoked responses of the RPE in a mouse model of photoreceptor degeneration**
Neal S. Peachey, Ivy S. Samuels, Gwen M. Sturgill, Gregory H. Grossman, Mary E. Rayborn, Joe G. Hollyfield
8. **Molecular dissection of ARMS2 secretion**
Elöd Kortvely, Stefanie M. Hauck, Marcel Blindert, Elisabeth Kremmer, Marius Ueffing
9. **Oxidant activation of the transcription factor AhR effects mitochondrial function in human RPE cells**
Goldis Malek, Mary Dwyer, Scott Cousins, Peng Hu, Donald P. McDonnell
10. **Photooxidation and cleavage of RPE bisretinoids: Implications for disease processes**
Janet R. Sparrow, Yalin Wu, Jilin Zhou
11. **Quantitative morphometric analysis of RPE in human AMD and in the APOE4 mouse model of AMD**
Catherine Bowes Rickman, Sina Farsiu, Jindong Ding
12. **Using an allelic series to understand the cellular mechanisms of retinal degeneration in Col4a1 mutant mice**
Debbie S. Kuo, Cassandre Labelle-Dumais, Yi-Chinn Weng, Douglas B. Gould

Blood Vessels and Neovascularization

13. **CCR3: What is its role in choroidal neovascularization?**
Yiwen Li, Deqiang Huang, Xin Xia, Zhengying Wang, Lingyu Luo, Rong Wen
14. **Choroidal circulation and geographic atrophy**
Yun-Zheng Le, Lixin Zheng, Yanyan Bai, Meili Zhu
15. **Insulin-induced betacellulin cleavage regulates the blood-retinal barrier**
Masahiko Sugimoto, Alecia Cutler, Bela Anand-Apte
16. **The focal retinal degeneration in Ccl2/Cx3cr1 double knockout mice leads to an associated, age-related increase in low grade vascular inflammation**
Ulrich F.O. Luhmann, S. Robbie, P.M.G. Munro, V. Luong, J. Tuo, F.W. Fitzke, R.E. MacLaren, J.W.B. Bainbridge, C.C. Chan, R.R. Ali
17. **Topical application of PEDF peptide mimetics prevents vascular leakage in diabetic retinopathy**
Joyce Tombran-Tink, L. Lanfranco, Y. Liu, M. Farley-Sandage, A. Gvritshvili

18. Vasohibin and retinal pigment epithelium

Toshiaki Abe, Hideyuki Onami, Norihiro Kumasaka, Yumi Tokita-Ishikawa, Hikaru Sonoda, Tomoaki Takakura, Sasufumi Sato, Nobuhiro Nagai

Cell Signaling in Protection and Degeneration

19. Absence of the P2X7 receptor slows photoreceptor degeneration in the rd1 mouse

Kirstan A. Vessey and Erica L. Fletcher

20. Upregulation of intracellular calcium release channels in glaucoma

David Krizaj, Wei Xing, Claudio Punzo, Helen Huang

21. Ceramide signaling involved in mammalian retinal degenerations

Md. Nawajes A. Mandal, Julie-Thu A. Tran, Richard S. Brush, Anisse Saadi, Hui Chen, Abul K. Rahman, Douglas Yasumura, Michael T. Matthes, Kelly Ahern, Haidong Yang, Matthew M. LaVail.

22. Histone deacetylase (HDAC) inhibition prevents photoreceptor cell death in the rd1 mouse

Javier Sancho-Pelluz, Marcel V. Alavi, Ayse Sahaboglu, Stefan Kustermann, Pietro Farinelli, Seifolla Azadi, Theo van Veen, Francisco Javier Romero, Francois Paquet-Durand, Per Ekstrom

23. Impaired STAT3 signaling may play a role in age related macular degeneration

Piyush C Kothary and Monte. A. Del Monte

24. Increased expression of the transcription factor C/EBP delta facilitates photoreceptor (PR) cell death in inherited photoreceptor degenerations (IPD)

Dianna C. Martin, Michael J. Szego, Coco K Jiang, Roderick R McInnes

25. Mechanism of protein tyrosine phosphatase-1B inhibition by molecular adapter Grb14

Devaraj K. Basavarajappa, Vivek K. Gupta, Raju V. S. Rajala

26. The role of the JAK-Stat3 pathway in inherited photoreceptor (PR) degenerations (IPDs)

Coco K. Jiang, Michael J. Szego, Alexa N. Bramall, Laura R. Pacione, William W. Hauswirth, Roderick R. McInnes

27. STAT3 functions to protect photoreceptors from cell death during retinal degeneration

John D. Ash, JIANGANG Wang, Ana Chucair-Elliott, Yumi Ueki

Mechanisms of Shedding and Phagocytosis

28. Diurnal rhythm of outer segment shedding and phagocytosis: The photoreceptor side

Linda Ruggiero and Silvia Finnemann

29. Rab escort protein-1 depletion affects phagocytic and secretory pathways in peripheral cells of choroideremia patients

Natalia Strunnikova, W. Zein, C. Silvin, Y. Sergeev, J. Barb, P. Munson, I.M. MacDonald

30. Soluble MerTK is cleaved and released during phagocytosis by RPE cells in culture

Ah-Lai Law, Jose-Alain Sahel, Shomi S. Bhattacharya, Emeline F. Nandrot

31. Tubby and tubby-like protein1 are new ligands for MerTK

Nora B. Caberoy, Yiziong Zhou, Wei Li

Cone Models of Degeneration

32. Loss of G-protein coupled receptor kinase 1 (Grk1) in Nrl^{-/-} mice leads to retinal neovascularization, enhanced inflammatory response and age-related cone dystrophy

Rosanne Yetemian and Cheryl M. Craft

33. Mechanism of cone degeneration in CNG channel deficiency

Xi-Qin Ding, Jianhua Xu, Cynthia Harry, Stylianos Michalakis, Martin Biel

Drugs and Genes for Novel Protective Therapies

34. A novel extracellular matrix stabilizing molecule, purpurin protects injury-induced apoptosis and regenerate axons in rat retinal ganglion cells

Yoshiki Koriyama, Kayo Sugitani, Toru Matsukawa, Satoru Kato

35. Evaluating therapeutics for the treatment of retinal dystrophies

Matt Adamowicz, Antonius Song, Elizabeth DuFresne, Michael Lukason, Sam Wadsworth, Abraham Scaria, Catherine O'Riordan

36. Factor XIIIa induction of regenerating retina and axons in the fish ocular system

Kayo Sugitani, K. Oogai, H. Nakashima, T. Shintani, M. Noda, S. Kato

37. High throughput approaches to identify and optimize candidate therapeutic post-transcriptional gene silencing agents

Jack M. Sullivan, E.H. Yau, R.T. Taggart, M.C. Butler, T.A. Kolniak

38. Human transferrin overexpressed or IP injected prevents photoreceptor degeneration in rd10 mice

Emilie Picard, Jean-Claude Jeanny, Laurent Jonet, Marie-Claude Vesvres, Claire Sergeant, Florian Guilou, Francine Behar-Cohen, Yves Courtois

39. Molecular therapy of RP10: Systemic delivery and therapeutic benefit of 17-AAG

Anna-Sophia Kiang, Lawrence Tam, Matthew Campbell, Marian Humphries, Anh Thi Hong Nguyen, Peter Humphries

40. **Norgestrel : a synthetic progesterone is a potent inhibitor of photoreceptor death in retinal explants and several animal models of retinal degeneration**
Thomas G. Cotter, Francesca Doonan, P. Kenna, Carolyn O'Driscoll
41. **Overexpression of norrin in the RPE of transgenic mice protects against light-induced photoreceptor damage**
Barbara Braunger, Andreas Ohlmann, Susanne Beck, Gesine Huber, Naoyuki Tanimoto, Ying Yang, Michael Bösl, Ales Cvekl, Mathias Seeliger, Ernst R. Tamm
42. **Subconjunctival delivery of small molecule neuroprotectants using fibrin sealant**
Jeffrey H. Boatright, Sheree Starr Mosley, Esther Kim, Cecilia M P Rodrigues, Clifford J Steer, John M. Nickerson, Henry F. Edelhauser
43. **Therapeutic treatment of P23H rats with catalytic scavengers of reactive oxygen species**
James F. McGinnis, H. A. Moaty, Xue Cai, X. Yu, S. Hirst, Q. Pye, C.M. Reilly, S. Seal, Lily L. Wong
44. **VCP inactivation rescues blindness and retinal degeneration caused by misfolded rhodopsin**
Ana Griciuc, Liviu Aron, Michel Joseph Roux, Angela Giangrande, Marius Ueffing
- Gene Therapy**
45. **AAV mediated gene therapy for Usher Syndrome type 1B**
Vanda Sofia Lopes, S. E. Boye, S.L. Boye, William W. Hauswirth, D. S. Williams
46. **Activation of the unfolded protein response in a rat model of ADRP**
Marina S. Gorbatyuk, T. Knox, Matthew M. LaVail, O. Gorbatyuk, S.M. Noorwez, William W. Hauswirth, Jonathan H. Lin, N. Muzyczka, Alfred S. Lewin
47. **Blocking RPE transduction following sub-retinal injection of AAV to enhance photoreceptor targeted gene transfer**
Therese Cronin, D. Chung, Emeline F. Nandrot, A. Lyubarsky, J. Bennett
48. **CNTF mediated neuroprotection in a mouse model of retinitis pigmentosa**
Kun-Do Rhee, Dean Bok, Xian-Jie Yang
49. **Delivery of anti-apoptotic agents to the degenerating retina by AAV-mediated modulation of the inner blood-retina barrier**
Anh Thi Hong Nguyen, Matthew Campbell, P. Kenna, Matthew M. Humphries, Anna-Sophia Kiang, Peter Humphries
50. **Delivery of the wild-type rhodopsin gene rescues vision in mice carrying P23H rhodopsin**
Haoyu Mao, James Thomas, Alison Schwein, Arseniy E. Shabashvili, William W. Hauswirth, Marina S. Gorbatyuk, Alfred S. Lewin

- 51. Gene therapy restores missing cone-mediated vision in the CNGA3^{-/-} mouse model of achromatopsia**
Stylianos Michalakis, Regine Mühlfriedel, Naoyuki Tanimoto, Vidhyasankar Krishnamoorthy, Susanne Koch, M. Dominik Fischer, Elvir Becirovic, Lin Bai, Gesine Huber, Susanne C. Beck, Edda Fahl, Hildegard Büning, François Paquet- Durand, Xiangang Zong, Tim Gollisch, Martin Biel, Mathias W. Seeliger
- 52. Gene therapy restores visual function and behavior to a mouse model of Leber congenital amaurosis-1 (LCA1)**
Shannon E. Boye, Sanford L. Boye, Jijing Pang, Renee Ryals, Andy Neeley, Drew Everhart, Yumiko Umino, Joseph Besharse, Robert Barlow, William W. Hauswirth
- 53. Hypoxia regulated, tissue specific gene therapy reduces choroidal neovascularization in a mouse-model**
George Smith, E. Hernandez, H. Prentice, C. Dorey, M. Biswal, T. House, Janet Blanks
- 54. Optimization Of volvox-derived channel rhodopsin-1 expression In mammalian cells**
Eriko Sugano, Hiroshi Tomita, Hitomi Isago, Hongxia Wang, Teru Hiroi, Zhuo Wang, Makoto Tamai
- 55. Possible causes and cures for blindness in Usher Syndrome type 1b**
Vanda S. Lopes, Tanja Diemer, D. Gibbs, S. E. Boye, S.L. Boye, William W. Hauswirth, David S. Williams
- 56. rAAV5-mediated restoration of cone function in CNGB3-achromatopsia: Successful transgene expression is only part of the story**
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- 58. Suppression of rds expression by siRNA and gene replacement strategies for gene therapy using AAV vector**
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- 59. Targeting canine rods with rAAV2/5 vectors: efficiency and dose-related ocular complications**
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- 103. Modulation of calcium release from calcium stores in the ER by the presence of bestrophin-1**
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- 104. P23H rhodopsin and the unfolded protein response**
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- 105. Protein oxidation and dietary cholesterol supplementation in a rat model of Smith-Lemli-Opitz Syndrome**
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- 106. Retinal degeneration modulates intracellular localization of the small GTPase CDC42 in photoreceptors**
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- 107. Retinal isoforms of IMPDH associate with rhodopsin mRNA**
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- 108. Reversible adaptations in photoreceptors surviving retinal degeneration**
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- 109. Roles of retinoic acid signaling in neuritogenesis of retinal degenerative disease**
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- 110. Structure and function of human retinaldehyde-binding protein (CRALBP): Cause of Bothnia Dystrophy**
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113. Genome wide analysis of the retina after transcorneal electrical stimulation in wildtype brown Norway rats

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114. Mechanistic insights into the interaction of PEDF and its receptor PEDF-R for retinal cell survival

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115. Species differences with Mertk mutations in neuroprotective effects of subretinal electrical stimulation

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116. The earliest inducible molecule in the zebrafish retina for optic nerve regeneration

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117. The role of glucocorticoids in photoreceptor survival

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118. Treatment with 670nm red light protects photoreceptors from white light-induced degeneration

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119. Expression of the Usher Syndrome type 3 gene (Cln1) In zebrafish sensory cells

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120. In vitro analysis of VMD2 mutations responsible for cmr1 and BMD

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121. Arrestin domain-containing proteins are expressed in multiple regions of mammalian retina

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122. Circadian rhythmicity of autophagy in the retina

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- 123. Crx ChIP-Seq analysis reveals an in vivo photoreceptor regulatory network and defines novel candidate genes for inherited retinal diseases**
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- 124. Dlx transcription factors regulate the Brn3b homeobox gene during vertebrate retina development**
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- 125. Epigenetic changes during mouse retina development**
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- 126. Genome-wide analysis of transcriptional targets of photoreceptor-specific transcription factor NRL, and implications for retinal degenerative diseases**
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- 127. Growth factor receptor bound protein 14: A novel modulator of photoreceptor specific cyclic nucleotide gated channel**
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- 128. Interaction of arrestin with enolase1 In rod photoreceptors**
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- 129. Photoreceptor compartment-specific Tulp1 interactomes**
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- 132. Rod control of cone vision**
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- 133. Tulp1 is involved in specific photoreceptor protein transport pathways**
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- 134. Visual arrestin 1 is essential for photoreceptor synaptic regulation**
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Directory of Participants

A

Toshiaki Abe

Division of Clinical Cell Therapy
Tohoku University Graduate School of Medicine
1-1 Seiryō-Machi, Aoba-ku
Sendai, Miyagi 980-8574 Japan
Telephone: 81-22-717-8234
FAX: 81-22-717-8234
E-Mail: toshi@oph.med.tohoku.ac.jp

Martin-Paul Agbaga

Ophthalmology
University of Oklahoma Health Sciences Center
608 Stanton L. Young Blvd., DMEI 409
Oklahoma City, OK 73104 USA
Telephone: 405-313-4539
FAX: 405-271-8128
E-Mail: martin-paul-agbaga@ouhsc.edu

Gustavo Aguirre

University of Pennsylvania
3900 Delancey Street, Room 2050
Philadelphia, PA 19104 USA
Telephone: 215-898-4667
FAX: 2155736050
Email: gda@vet.upenn.edu

Rizalyn Sarda Albarracín

Research School of Biology
The Australian National University
Room 1103, RN Robertson Building
Anu Campus Acton
Canberra, ACT 0200 Australia
Telephone: 614-2472-2449
Email: u4497285@anu.edu.au

Muayyad R. Al-Ubaidi

Department of Cell Biology
University of Oklahoma Health Sciences Center
940 Stanton L. Young Blvd., BMSB 553
Oklahoma City, OK 73104 USA
Telephone: 405-271-8001 ext. 47979
FAX: 405-271-3548
Email: Muayyad-Al-ubaidi@ouhsc.edu

Jayakrishna Ambati

E300 KY Clinic 740 S. Limestone Street
Lexington, KY 40536-0284 USA
Telephone: 859-323-0686
FAX: 859-323-1122
Email: jamba2@email.uky.edu

Bela Anand-Apte

Cole Eye Institute
I3-161 Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, OH 44195 USA
Telephone: 216-445-9739
FAX: 2164453670
Email: anandab@ccf.org

Robert E. Anderson

Department of Ophthalmology
University of Oklahoma Health Sciences Center
Dean A. McGee Institute
608 Stanton L. Young Blvd.
Oklahoma City, OK 73104 USA
Telephone: 405-271-8250
FAX: 405-271-8128
Email: robert-anderson@ouhsc.edu

David Arthur

Allergan, Inc.
2625 Dupont Drive, RD3-3A
Irvine, CA 92612 USA
Telephone: 714-246-6787
FAX: 714-246-4374
Email: arthur_david@allergan.com

John Ash

Department of Ophthalmology
Univ. of Oklahoma Health Sciences Center
608 Stanton L. Young, Room L131
Oklahoma City, OK 73104 USA
Telephone: 405-271-3642
FAX: 405-271-3721
Email: john-ash@ouhsc.edu

Radha Ayyagari

University of California - San Diego
9415 Campus Point Drive, JRC RM-206
La Jolla, CA 92037 USA
Telephone: 858-534-9029
FAX: 858-246-0568
Email: RAYYAGARI@UCSD.EDU

B

Franz Badura

Pro Retina Foundation
Mühlgasse 1a
Amberg 92224 Germany
Telephone: 499621602551
Fax: 499621602551
Email: franz.badura@t-online.de

Wolfgang Baehr

University of Utah
65 M. Capecchi Dr.
Salt Lake City, UT 84132 USA
Telephone: 801-585-6643
FAX: 801-585-1515
Email: wolfgang.baehr@hsc.utah.edu

Adam Baker

Ottawa Eye Institute
Ottawa General Hospital
501 Smyth Road
Ottawa, Ontario K1H8L6 Canada,
Telephone: 613-737-8447
Email: wfong@ohri.ca

Directory of Participants

Peter Barabas

John Moran Eye Center
University of Utah School of Medicine
RM# S4140, 65 N. Mario Capecchi Dr.
Salt Lake City, UT 84132 USA
Telephone: 801-671-8558
Email: peter.barabas@utah.edu

Colin J. Barnstable

Dept of Neural and Behavioral Sciences
Penn State University, College of Medicine
500 University Drive
Hershey, PA 17033 USA
Telephone: 717-531-3631
FAX: 717-531-5184
Email: cbarnstable@psu.edu

Haydee E.P. Bazan

Neuroscience Center
Louisiana State University
2020 Gravier St., Suite D
New Orleans, LA 70112 USA
Telephone: 504-599-0877
FAX: 504-568-5801
Email: hbazan1@lsuhsc.edu

Nicolas G. Bazan

Neuroscience Center of Excellence
Louisiana State University
2020 Gravier St., Suite D
New Orleans, LA 70112 USA
Telephone: 504-599-0832
FAX: 504-568-5801
Email: nbazan@lsuhsc.edu

S. Patricia Becerra

National Institutes of Health/NEI
7 Memorial Drive
MSC0706, Bldg. 7, Room 304
Bethesda, MD 20892-0706 USA
Telephone: 301-496-6514
Fax 301-451-5420
Email: becerrap@nei.nih.gov

N. Torben Bech-Hansen

Department of Medical Genetics
Faculty of Medicine, University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta T2N 4N1 Canada
Telephone: 403-220-8387
FAX: 403-210-8119
Email: ntbech@ucalgary.ca

William Beltran

School of Veterinary Medicine
University of Pennsylvania
3900 Delancey Street, Ryan-VHUP Room #2050
Philadelphia, PA 19104-6010 USA
Telephone: 215-898-4913
FAX: 215-573-2162
Email: wbeltran@vet.upenn.edu

Paul S. Bernstein

Moran Eye Center
University of Utah
65 Mario Capecchi Drive
Salt Lake City, UT 84132 USA
Telephone: 801-581-6078
FAX: 801-581-3357
Email: paul.bernstein@hsc.utah.edu

Janet C. Blanks

Biomed Dept (BC71)
Florida Atlantic University
777 Glades Road BS-12
Boca Raton, FL 33431-0991 USA
Telephone: 561-297-4310
FAX: 561-297-3634
Email: blanks@fau.edu

Jeffrey H. Boatright

Department of Ophthalmology
Emory University School of Medicine, Rm B-5511
Emory Eye Center, 1365-B Clifton Road
Atlanta, GA 30322 USA
Telephone: 404-778-4113
FAX: 404-778-2231
Email: jboatri@emory.edu

Dean Bok

Jules Stein Eye Institute
University of California
100 Stein Plaza
Los Angeles, CA 90095-7065 USA
Telephone: 310-825-6737
FAX: 310-794-2144
Email: bok@jsei.ucla.edu

Vera L. Bonilha

The Cole Eye Institute
Cleveland Clinic Foundation
9500 Euclid Avenue, i31
Cleveland, OH 44195 USA
Telephone: 216-445-7690
FAX: 216-445-3670
Email: bonilhav@ccf.org

Michael E. Boulton

Dept. of Anatomy and Cell Biology
University of Florida
1600 SW Archer Road
PO Box 100235
Gainesville, FL 32610-0235 USA
Telephone: 352-273-8546
FAX: 352-846-1248
Email: meboulton@ufl.edu

Cathy Bowes Rickman

Ophthalmology and Cell Biology
Duke University Medical Center
Box 3802, AERI 5010 Erwin Road
Durham, NC 27710 USA
Telephone: 919-668-0648
FAX: 919-684-3687
Email: bowes007@duke.edu

Kristen Bowles

National Eye Institute
10 Center Drive, RM10N226
Bethesda, MD 20892-1863 USA
Telephone: 972-754-1576
FAX: 301-402-1214
Email: kristen.bowles@nih.gov

Ragnheidur Bragadottir

Ophthalmology (Oyeyardelingen)
Oslo University Hospital, Kirkeveien 166
Oslo 0407 Norway
Telephone: 004722118546
FAX: 004722119989
Email: Ragnheib@medisin.uio.no

Directory of Participants

Barbara Maria Braunger
Human Anatomy and Embryology
Universitätsstrasse 31
Regensburg 93053 Germany
Telephone: 499419432880
Email: Barbara.Braunger@vkl.uni-regensburg.de

David Brint
Foundation Fighting Blindness
1985 Daze Ave
Highland Park, IL 60035 USA
Telephone: 847-562-9410
FAX: 847-562-9401
Email: davidb@brinshore.com

Julien Bruban
INSERM, 23
rue de l'arrivee La Garenne
Colombes 92250 France
Telephone: 33661968557
Email: julien_bruban@hotmail.com

Eric Buckland
Bioptigen, Inc.
P.O. Box 13569
Durham, NC 27709 USA
Telephone: 919-314-5500
FAX: 919-314-5501
Email: ebuckland@bioptigen.com

Marie S.I. Burstedt
Clinical Sciences/Ophthalmology
Umea University, Aspvagen 7
Umea 903 54 Sweden
Telephone: 4690133234
Fax: 4690145997
Email: Marie.Burstedt@ophthal.umu.se

C

Nora Bianca Caberoy
Bascom Palmer Eye Institute
University of Miami Miller School of Medicine
1638 NW 10th Ave
Miami, FL 33136 USA
Telephone: 305-547-3667
FAX: 305-547-3658
Email: ncaberoy@med.miami.edu

Vijayarathy Camasudram
National Eye Institute
National Institutes of Health
50 South Drive, Room 4339, MSC8021
Bethesda, MD 20892-8021 USA
Telephone: 301-451-4621
FAX: 301-480-4799
Email: CamasudramV@nidcd.nih.gov

Joseph Carroll
The Eye Institute
Medical College of Wisconsin
925 N. 87th Street
Milwaukee, WI 53226 USA
Telephone: 414-456-2052
FAX: 414-456-6690
Email: jcarroll@mcw.edu

John W. (Jack) Chandler
ACUCELA INC
21720 23rd Drive SE
Suite 120
Bothell, WA 98021 USA
Telephone: 425-527-0650
FAX: 425-527-3156
Email: jchandler@acucela.com

Michael Cheetham
UCL, Institute of Ophthalmology
11-43 Bath Street
London EC1V 9EL UK
Telephone: 4476086944
FAX: 442076086862
Email: michael.cheetham@ucl.ac.uk

Yingming (Amy) Chen
University of Toronto
540 Summeridge Drive Vaughan
Ontario L4J9J1 Canada
Telephone: 416-904-2692
Email: aychen86@yahoo.com

Itay Chowers
Department of Ophthalmology
Hadassah-Hebrew University Medical Center
PO Box 12000
Jerusalem, Israel
Telephone: 972508573361
FAX: 97226777228
Email: chowers@md.huji.ac.il

Daniel C. Chung
FM Kirby Center for Molecular Ophthalmology
Scheie Eye Institute
Univ. of Pennsylvania
422 Curie Blvd., #310
Philadelphia, PA 19104 USA
Telephone: 610-505-0550
FAX: 215-573-7155
Email: dcc2@mail.med.upenn.edu

Vincent Ciavatta
US Department of Veteran Affairs
Emory University
1670 Clairmont Road
Decatur, GA 30033 USA,
Telephone: 404-642-1213
FAX: 404-417-2971
Email: vciavatt@emory.edu

Nansi Jo Colley
Dept. of Ophthalmology & Visual Sciences
University of Wisconsin
Madison, K6-460 CSC 600 Highland Ave
Madison, WI 53792 USA
Telephone: 608-265-5398
FAX: 608-265-6021
Email: njcolley@wisc.edu

Rob Collin
Department of Human Genetics
310 Vassar Avenue
Swarthmore, PA 19081 USA
Telephone: 610-544-2381
FAX: 215-573-7155
Email: r.collin@antrg.umcn.nl

Directory of Participants

Shannon M. Conley

Dept. Cell Biology
University of Oklahoma Health Sciences Center
940 Stanton L. Young Blvd., BMSB 781
Oklahoma City, OK 73104 USA
Telephone: 405-271-2402
FAX: 405-271-3548
Email: shannon-conley@ouhsc.edu

Tom Cotter

Dept. of Biochemistry
University College
Cork, College Road
Cork, Ireland
Telephone: 353214901321
FAX: 353214901382
Email: t.cotter@ucc.ie

Sandra Cottet

Institute for Research in Ophthalmology (IRO)
Gd Champsec 64
Sion 1950 Switzerland
Telephone: 41272057906
FAX: 41272057901
Email: sandra.cottet@irovision.ch

Cheryl M. Craft

Department of Cell and Neurobiology
Keck School of Medicine
University of Southern California, 1355 San Pablo
CVRC 408, Doheny Eye Inst
Los Angeles, CA 90033 USA
Telephone: 323-442-6692
FAX: 323-442-6744
Email: ccraft@usc.edu

Therese Cronin

FM Kirby Molecular Ophthalmology
University of Pennsylvania
310C Stellar Chance Labs, 422 Curie bd.
Philadelphia, PA 19104 USA
Telephone: 215-898-0163
FAX: 215-573-7155
Email: therese@med.upenn.edu

Rosalie K. Crouch

Dept of Ophthalmology
Medical Univ. of South Carolina
167 Ashley Ave
Charleston, SC 29425 USA
Telephone: 843-792-2814
FAX: 843-792-1723
Email: crouchrk@musc.edu

Catherine Cukras

National Institutes of Health
10 Center Drive, Room 10C442
Bethesda, MD 20892 USA
Telephone: 301-435-5061
FAX: 301-402-1214
Email: cukrasc@nei.nih.gov

D

Stephen P. Daiger

Human Genetics Ctr/Sch of PH
The University of Texas Health Science
Ctr, 1200 Herman Pressler Dr.
Houston, TX 77030 USA
Telephone: 713-500-9829
FAX: 713-500-0900
Email: stephen.p.daiger@uth.tmc.edu

Eduardo Diez

Lady Davis Research Institute
McGill University
3755 Côte Ste-Catherine Road, Room 628
Montreal, Quebec H3T 1E2 Canada
Telephone: 514-340-8222 ext. 6155
FAX: 514-340-7945
Email: eduardo.diez@mail.mcgill.ca

Xi-Qin Ding

Dept. of Cell Biology
University of Oklahoma Health Sciences Center
940 Stanton L. Young Blvd., BMSB 553
Oklahoma City, OK 73104 USA
Telephone: 405-271-8001 x47959
FAX: 405-271-3548
Email: xi-qin-ding@ouhsc.edu

Alexander M. Dizhoor

Salus University
Pennsylvania College of Optometry
8360 Old York Road
Elkins Park, PA 19027 USA
Telephone: 215-780-1468
FAX: 215-780-1484
Email: ADIZHOOR@SALUS.EDU

Maryanne Donovan

Cell Development & Disease, Biochemistry Dept.
Biosciences Institute, University College Cork
Cork, Ireland
Telephone: 353214901344
FAX: 353214901382
Email: ma.donovan@ucc.ie

Jacque L. Duncan

University of California, San Francisco
10 Koret Way, #K129
San Francisco, CA 94143-0730 USA
Telephone: 415-514-4241
FAX: 415-476-0709
Email: duncanj@vision.ucsf.edu

Keith G. Duncan

University of California, San Francisco
Box 0730
San Francisco, CA 94143-0730 USA
Telephone: 415-514-0241
FAX: 415-476-0730
Email: kgduncan@pacbell.net

Kamla Dutt

Department of Pathology
Morehouse School of Medicine
720 Westview Drive, S.W.
Atlanta, GA 30310-1495 USA
Telephone: 404-752-1769
FAX: 404-752-1108
Email: duttk@msm.edu

Directory of Participants

E

Stefanie Ebert

Institute of Human Genetics
University Regensburg,
Franz-Josef-Strauss-Allee 11
Regensburg 93053 Germany
Telephone: 499419445443
FAX: 499419445402
Email: stefanie.ebert@klinik.uni-regensburg.de

F

Abigail Fahim

University of Texas School of Public Health
1809 Staffordshire Crescent
Houston, TX 77030 USA
Telephone: 832-216-3842
FAX: 713-500-0900
Email: abigail.t.fahim@uth.tmc.edu

Michael Farkas

University of Pennsylvania
422 Curie Blvd
305 Stellar Chance Laboratories
Philadelphia, PA 19104 USA
Telephone: 215-573-7866
Email: mfarkas@mail.med.upenn.edu

Christina Fasser

Retina International
Ausstellungsstrasse 36
Zurich CH-8005 Switzerland
Telephone: 4114441077
FAX: 4114441070
Email: cfasser@e-link.ch

Silvia C. Finnemann

Department of Biological Sciences
Fordham University
441 E. Fordham Road, Larkin Hall
Bronx, NY 10458 USA
Telephone: 718-817-3630
FAX: 718-817-3654
Email: finnemann@fordham.edu

M. Dominik Fischer

Dept. for Ophthalmology
Institute for Ophthalmic Research
University of Tuebingen, Schleichstr.4/3
Tuebingen 72076 Germany
Telephone: 4970712984789
FAX: 497071294789
Email: Dominik.Fischer@med.uni-tuebingen.de

John Flannery

School of Optometry
University of California, Berkeley
596 Minor Hall
Berkeley, CA 94720-2020 USA
Telephone: 510-642-0178
FAX: 510-643-5109
Email: flannery@berkeley.edu

Erica Fletcher

Dept of Anatomy and Cell Biology
University of Melbourne, Grattan St.
Parkville, Victoria 3010 Australia
Telephone: 61383443218
FAX: 61393475219
Email: elf@unimelb.edu.au

Steven J. Fliesler

Ophthalmology, SUNY-Buffalo and
VA Western NY Healthcare System
3495 Bailey Avenue- Bldg 20, Mail Stop 151
Buffalo, NY 14215 USA
Telephone: 716-862-6538
FAX: 716-862-6526
Email: fliesler@buffalo.edu

Wai Gin Fong

Ottawa Eye Institute, Ottawa General Hospital
501 Smyth Road
Ottawa, Ontario K1H8L6 Canada
Telephone: 613-737-8447
Email: wfong@ohri.ca

Jeanne Frederick

Dept. of Ophthalmology & Visual Sciences
University of Utah
65 Mario Capecocchi Drive
Salt Lake City, UT 84132 USA
Telephone: 801-585-6508
FAX: 801-585-7845
Email: jeanne.frederick@hsc.utah.edu

Chieko Fujikawa

Division of Health Sciences
University of Kanazawa
13-1 Takaramachi Kanazawa
Ishikawa Japan
Telephone: 810762652450
FAX: 810762344235
Email: orange@stu.kanazawa-u.ac.jp

G

Scott Geller

Spiral Genomics LLC
10343 Pinecastle St.
San Diego, 92131 USA
Telephone: 510-847-6424
Email: geller@spiralgenomics.com

Sem Genini

School of Veterinary Medicine
University of Pennsylvania
3900 Delancey St., Ryan #2050
Philadelphia, PA 19104 USA
Telephone: 215-573-9586
FAX: 215-573-6050
Email: geninis@vet.upenn.edu

Edward Gollob

Foundation Fighting Blindness
6 Notch Hill Drive
Livingston, NJ 07039 USA
Telephone: 973-817-5600
FAX: 973-344-5368
Email: edward.gollob@macproducts.net

Directory of Participants

Irina Golovleva

Clinical Genetics
University Hospital
University of Umea, By 6M
Umea 901 85 Sweden
Telephone: 46907856820
FAX: 4690128163
Email: Irina.Golovleva@vll.se

Roser Gonzalez-Duarte

Genetica, Fac. Biologia
University of Barcelona
AVDA. Diagonal, 645 Dept. Genetica
Barcelona, Spain
Telephone: 34934021034
FAX: 34934034420
Email: rgonzalez@ub.edu

Marina Gorbatyuk

Department of Molecular Genetics and Microbiology
University of Florida, College of Medicine
1600 SW Archer Road, P.O. Box 100266
Gainesville, FL 32610 USA
Telephone: 352-392-0673
FAX: 352-392-3233
Email: mari653@ufl.edu

Doug Gould

Dept. of Ophthalmology
UCSF School of Medicine
10 Korat Way, RM K235
San Francisco, CA 94143 USA
Telephone: 415-476-3592
Email: gouldd@vision.ucsf.edu

Cheryl Y. Gregory-Evans

Department of Molecular and Cellular Medicine
Imperial College London
Exhibition Road, SAF Building
London SW7 2AZ UK
Telephone: 442075943007
FAX: 442075943100
Email: c.gregory-evans@imperial.ac.uk

Kevin Gregory-Evans

Dept. of Clinical Sciences
Imperial College London
Lab Block, St. Dunstan's Road
London W6 8RP UK
Telephone: 442083833633
FAX: 442075943100
Email: k.gregory-evans@imperial.ac.uk

Ana Griciu

Dept of Protein Science
Helmholtz Zentrum München
Build 35/8125 Ingolstaedter Landstr 1
Neuherberg 85764 Germany
Telephone: 498931873565
FAX: 498931874426
Email: ana.griciu@helmholtz-muenchen.de

Christian Grimm

Lab for Retinal Cell Biology
Ophthalmology, University of Zurich
Frauenklinikstrasse 24,
Lab for Retinal Cell Biology
Zurich CH-8091 Switzerland
Telephone: 41442553905
FAX: 41442558345
Email: cgrimm@opht.uzh.ch

Ryan P. Gross

Dept. of Ophthalmology
University of Florida
1600 SW Archer Rd
PO Box 100284
Gainesville, FL 32610-0284 USA
Telephone: 352-392-0739
FAX: 352-392-0573
Email: rpgross.1315@ufl.edu

Gregory H. Grossman

Cleveland Clinic
Cole Eye Institute, i-31
9500 Euclid Ave.
Cleveland, OH 44195 USA
Telephone: 216-444-5663
FAX: 216-445-3670
Email: grossmg@ccf.org

Vivek Kumar Gupta

Dept of Ophthalmology
Univ of Oklahoma Health Sciences Center
608 Stanton L. Young Blvd. DMEI 409
Oklahoma City, OK 73104 USA
Telephone: 405-271-8255
FAX: 405-271-8128
Email: Vivek-Gupta@ouhsc.edu

Karina Guzewicz

School of Veterinary Medicine
University of Pennsylvania
3900 Delancey St., Ryan #2050
Philadelphia, PA 19104 USA
Telephone: 215-898-7479
FAX: 215-573-6050
Email: karinag@vet.upenn.edu

H

Gregory S. Hageman

John Moran Eye Center
65 Mario Capecchi Dr
Salt Lake City, UT 84132 USA
Telephone: 801-213-2424
FAX: 801-581-5335
Email: gregory-hageman@hsc.utah.edu

Stephanie A. Hagstrom

Cole Eye Institute
Cleveland Clinic Foundation
9500 Euclid Ave.
Cleveland, OH 44195 USA
Telephone: 216-445-4133
FAX: 216-445-3670
Email: hagstrs@ccf.org

Finnian Hanrahan

Genetics Department
Trinity College Dublin
College Green
Dublin 2, Ireland
Telephone: 355854133211
Email: hanrahfe@tcd.ie

Directory of Participants

Hong Hao

National Eye Institute
National Institutes of Health
9000 Rockville Pike
Bldg 6, Rm 309, MSC 0610
Bethesda, MD 20892 USA
Telephone: 301-451-6439
FAX: 301-443-7415
Email: haoh@mail.nih.gov

Alison Hardcastle

Division of Molecular Genetics
Institute of Ophthalmology, UCL
11-43 Bath Street
London EC1V 9EL UK
Telephone: 4476086945
FAX: 4476084002
Email: a.hardcastle@ucl.ac.uk

William W. Hauswirth

Department of Ophthalmology
University of Florida College of Medicine
Box 100284 JHMHSC
Gainesville, FL 32610-0284 USA
Telephone: 352-392-0679
FAX: 352-392-3062
Email: hauswrth@eye.ufl.edu

Xiaoqin He

Institute of Chemistry and Biochemistry
University of Bern, Freiestrasse 3
Bern CH-3012 Switzerland
Telephone: 41316314336
FAX: 41316313993
Email: xiaoqin.he@ibc.unibe.ch

Liz Hedstrom

Brandeis University
MS 009, 415 South St.
Waltham, MA 02454 USA
Telephone: 781-736-2333
FAX: 781-736-2349
Email: hedstrom@brandeis.edu

Elise Heon

Dept. of Ophthalmology
Hospital for Sick Children
555 University Ave.
Toronto, Ontario M5G 1X8 Canada
Telephone: 416-813-8606
FAX: 416-813-8266
Email: elise.heon@sickkids.ca

Severin Heynen

Dept Ophthalmology
University of Zurich, Sternwartstrasse 14
Zurich 8091 Switzerland
Telephone: 41442553872
FAX: 41442554385
Email: Severin.Heynen@usz.ch

Joe G. Hollyfield

Cole Eye Institute (i31)
The Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, OH 44195 USA
Telephone: 216-445-3252
FAX: 216-445-3670
Email: hollyfj@ccf.org

Shun-Ping Huang

University of Southern California
212 S. Marengo Avenue, Apt D
Alhambra, CA 91801 USA
Telephone: 314-488-3233
Email: shunpinh@usc.edu

Marian Humphries

Ocular Genetics
Trinity College
Dublin 2, Ireland
Telephone: 35316082484
FAX: 35316798558
Email: mhumphri@tcd.ie

Peter Humphries

Department of Genetics
Trinity College
Dublin, Lincoln Gate
Dublin 2, Ireland
Telephone: 35316082484
FAX: 35318963848
Email: Pete.Humphries@tcd.ie

David Hyde

Department of Biological Science
University of Notre Dame
264 Galvin Life Sciences Building
Notre Dame, IN 46556-0369 USA
Telephone: 574-631-8054
FAX: 574-631-7413
Email: dhyde@nd.edu

I

Alessandro Iannaccone

Department of Ophthalmology
Univ of Tennessee HSC at Memphis
930 Madison Avenue, Suite 731
Memphis, TN 38163 USA
Telephone: 901-448-7831
FAX: 901-448-5028
Email: iannacca@utm.edu

J

Ke Coco Jiang

Programs in Genetics and Developmental
Biology
The Hospital for Sick Children
15-401-I TMDT Tower, 101 College Street
Toronto, Ontario M5G 1L7 Canada
Telephone: 416-813-4997
FAX: 416-813-4931
Email: coco.jiang@utoronto.ca

Lincoln Johnson

Neuroscience Research Institute
University of California, Santa Barbara
NRI, BIO SCI 2 RM 6129
Santa Barbara, CA 93106-5060 USA
Telephone: 805-893-2965
FAX: 805-893-2005
Email: l_johnso@lifesci.ucsb.edu

Directory of Participants

K

Devaraj Kamsagara Basavarajappa

Ophthalmology
Univ of Oklahoma Health Sciences Center
608 Stanton L. Young Blvd., DMEI 409
Oklahoma City, OK 73104 USA
Telephone: 405-271-8316
FAX: 405-271-8128
Email: devaraj-basavarajappa@ouhsc.edu

Marcus Karlstetter

Institute of Human Genetics
University of Regensburg
Franz-Josef-Strauss-Allee 11
Regensburg 3053, Germany
Telephone: 4909419445425
FAX: 4909419445402
Email: marcus.karlstetter@klinik.uni-regensburg.de

Jeffrey U. Karpen

Oregon Health & Science University
3181 SW Sam Jackson Park Rd., Mailstop L334
Portland, OR 97239 USA
Telephone: 503-494-7463
FAX: 503-494-4352
Email: karpenj@ohsu.edu

Shalesh Kaushal

Dept. of Ophthalmology
University of Massachusetts
281 Lincoln Street
UMass Memorial Eye Center
Worcester, MA 01504 USA
Telephone: 508-334-4653
Email: Shalesh.Kaushal@umassmemorial.org

Breandan Kennedy

UCD Conway Institute
University College Dublin
Dublin 4, Ireland
Telephone: 35317166740
FAX: 35317166456
Email: brendan.kennedy@ucd.ie

Anna-Sophie Kiang

Ocular Genetics Unit
Trinity College Dublin
Dublin 2, Ireland
Telephone: 35316082486
FAX: 35316083848
Email: skiang@tcd.ie

Mark E. Kleinman

University of Kentucky
740 S. Limestone St., Ste C-300
Lexington, KY 40536 USA
Telephone: 917-825-5836
FAX: 859-257-2317
Email: mark.kleinman@uky.edu

Susanne Kohl

Molecular Genetics Laboratory
Institute for Ophthalmic Research
University Tuebingen, Roentgenweg 11
Tuebingen D-72076 Germany
Telephone: 4970712980702
FAX: 497071295725
Email: susanne.kohl@uni-tuebingen.de

Andras Komaromy

Clinical Studies
University of Pennsylvania
School of Veterinary Medicine
3900 Delancey Street
Philadelphia, PA 19104-6010 USA
Telephone: 215-573-2695
FAX: 215-573-2162
Email: komaromy@vet.upenn.edu

Elöd Kortvely

Institute for Ophthalmic Research
University of Tuebingen, Rontgenweg 11
Tuebingen 72076 Germany
Telephone: 498931873568
FAX: 498931874426
Email: elod72@freemail.hu

Plyush C. Kothary

Department of Ophthalmology
University of Michigan
521 KEC, 1000 Wall Street
Ann Arbor, MI 48105-0714 USA
Telephone: 734-936-9254
FAX: 734-647-0228
Email: kotha@umich.edu

Timothy Kraft

University of Alabama at Birmingham, UAB
1530 3rd Ave south
Birmingham, AL 35294-4390 USA
Telephone: 205-975-2855
FAX: 205-934-5725
Email: twkraft@uab.edu

David Krizaj

University of Utah School of Medicine
65 N. Medical Dr.
Salt Lake City, UT 84132 USA
Telephone: 801-213-2777
FAX: 801-587-8314
Email: david.krizaj@hsc.utah.edu

Debbie Kuo

10 Koret Way, Room K226
San Francisco, CA 94143 USA
Telephone: 415-476-3594
FAX: 415-476-0336
Email: debbie.kuo@ucsf.edu

Tatyana Kuznetsova

School of Veterinary Medicine
University of Pennsylvania
3900 Delancey St. Ryan #2050
Philadelphia, PA 19104 USA
Telephone: 215-573-9586
FAX: 215-573-6050
Email: tatanak@vet.upenn.edu

L

Aparna Lakkaraju

University of Wisconsin-Madison
2108 Rowley Ave
Madison, WI 53726 USA
Telephone: 718-216-6979
Email: aparna.lakkaraju@gmail.com

Directory of Participants

Byron Lam

Bascom Palmer Eye Institute
University of Miami Miller School of Medicine
900 NW 17 Street
Miami, FL 33136 USA
Telephone: 305-326-6021
FAX: 305-547-3641
Email: blam@med.miami.edu

Tina Lamey

Dept. of Medical Technology and Physics
Sir Charles Gairdner Hospital, Internal mailbox 83
Hospital Avenue
Nedlands, WA 6009 Australia
Telephone: 610893463586
FAX: 610893463466
Email: Tina.Lamey@health.wa.gov.au

Thomas Langmann

Institute of Human Genetics, University of Regensburg
Franz Josef Strauss Allee 11
Regensburg D-93053 Germany
Telephone: 499419445423
FAX: 499419445402
Email: thomas.langmann@klinik.uni-regensburg.de

Alan M. Laties

Richards Bldg D-603
University of Pennsylvania Medical School
3700 Hamilton Walk
Philadelphia, PA 19104-6075 USA
Telephone: 215-898-6508
FAX: 215-898-0528
Email: laties@mail.med.upenn.edu

Matthew M. LaVail

Beckman Vision Center
UCSF School of Medicine
10 Kirkham Street
San Francisco, CA 94143-0730 USA
Telephone: 415-476-4234
FAX: 415-476-0709
Email: matthew.lavail@ucsf.edu

Ah-Lai Law

Institut de la Vision
17 rue Moreau
Paris 75012 France
Telephone: 33153462543
FAX: 33153462602
Email: ah-lai.law@inserm.fr

Yun Zheng Le

University of Oklahoma Health Sciences Center
941 Stanton L. Young Blvd., BSEB 302G
Oklahoma City, OK 73104 USA
Telephone: 405-271-1087
FAX: 405-271-3973
Email: Yun-Le@ouhsc.edu

Alfred S. Lewin

Molecular Genetics & Microbiology
University of Florida
P.O. Box 100266
Gainesville, FL 32610-0266 USA
Telephone: 352-392-0676
FAX: 352-392-3133
Email: lewin@ufl.edu

Yiwen Li

Bascom Palmer Eye Institute
University of Miami
Miller School of Medicine
506 McKnight Building
3700 Hamilton Walk
1638 NW 10th Ave.
Miami, FL 33136 USA
Telephone: 305-482-4874
FAX: 305-482-4979
Email: yli2@med.miami.edu

Jonathan H. Lin

School of Medicine
University of California San Diego
MC 0612, 9500 Gilman Dr.
La Jolla, CA 92093-0612 USA
Telephone: 858-534-2743
FAX: 858-534-4715
Email: JLIN@ucsd.edu

Yanhua Lin

John A. Moran Eye Center
University of Utah
65 Mario Capecchi, Rm S3861A
Salt Lake City, UT 84132 USA
Telephone: 801-213-3451
FAX: 801-587-7724
Email: Yanhua.Lin@hsc.utah.edu

Karin Littink

Radboud University Nymegen Medical Centre
Van Goorstraat 87 Nymegen 6512 EC
The Netherlands
Telephone: 31243614017
FAX: 31243668752
Email: k.littink@antrg.umcn.nl

Vanda Sofia Lopes

Rua Julio Dinis No 21 1o No3
Coimbra 3030-319 Portugal
Telephone: 351962736329
Email: vslopes@ucla.edu

Ulrich Luhmann

UCL Institute of Ophthalmology
11-43 Bath Street
London EC1V9EL UK
Telephone: 442076087982
FAX: 442076086991
Email: u.luhmann@ucl.ac.uk

M

Goldis Malek

Duke University Medical Center
DUMC, Erwin Road, P.O. Box 3802
Durham, NC 27710 USA
Telephone: 919-684-0820
FAX: 919-684-8983
Email: gmalek@duke.edu

Directory of Participants

Nawajes Mandal

Ophthalmology
University of Oklahoma Health Sciences Center
608 S.L. Young Blvd., DMEI 409
Oklahoma City, OK 73104 USA
Telephone: 405-271-8001ext. 30009
FAX: 405-271-8128
Email: mmandal@ouhsc.edu

Dianna Martin

Program in Developmental and Stem Cell Biology
The Hospital for Sick Children
15-401I TMDT, 101 College St.
Toronto, Ontario M5G 1L7 Canada
Telephone: 416-813-4997
FAX: 416-813-4931
Email: dianna.martin@utoronto.ca

James F. McGinnis

Dean A. McGee Eye Institute
University of Oklahoma Health Sciences Center
608 Stanton L. Young Blvd.
Oklahoma City, OK 73104 USA
Telephone: 405-271-3695
FAX: 405-271-3721
Email: james-mcginnis@ouhsc.edu

Dharia McGrew

Brandeis University
415 South St.
Waltham, MA 02452 USA
Telephone: 781-736-2334
Email: dharia@brandeis.edu

Rachel McMillan

Ottawa Hospital Research Institute
501 Smyth Road
Ottawa, Ontario K1H8L6 Canada
Telephone: 613-737-8447
FAX: 613-739-6070
Email: rachel.m.39@gmail.com

Alan J. Mears

Ophthalmology
Ottawa Hospital Research Institute
501 Smyth Rd
Ottawa, Ontario K1H 8L6 Canada
Telephone: 613-737-8899 ext. 73358
FAX: 613-739-6070
Email: amears@ohri.ca

Karen Meerovitch

Mimetogen Pharmaceuticals
7484 Chemin Spring Cote St. Luc
Quebec H4W 1K3 Canada
Telephone: 514-924-7484
Email: karen.meerovitch@mimetogen.com

Calvin Mok

University of Toronto
101 College Street West, TMDT East Tower
15th floor room 15-601B
Toronto, Ontario M5G 1L7 Canada
Telephone: 416-786-7413
FAX: 416-813-4931
Email: calvin.mok@utoronto.ca

N

Muna I. Naash

Department of Cell Biology
University of Oklahoma Health Sciences Center
940 Stanton L. Young Blvd.
Oklahoma City, OK, 73104, USA
Telephone: 405-271-2388
FAX: 405-271-3548
Email: muna-naash@ouhsc.edu

Juergen Naggert

The Jackson Laboratory
600 Main Street
Bar Harbor, ME 04609 USA
Telephone: 207-288-6382
FAX: 207-288-6079
Email: jkn@jax.org

Emeline Nandrot

Department of Genetics
Institut de la Vision
17 rue Moreau
Paris 75012 France
Telephone: 33153462541
FAX: 33153462502
Email: emeline.nandrot@inserm.fr

Kristina Narfstrom

Vision Science Group
Dept. of Vet. Med and Surg
University of Missouri-Columbia
A 379 Clydesdale Hall
Columbia, MO 65211 USA
Telephone: 573-882-2095
FAX: 573-884-5444
Email: NarfstromK@missouri.edu

Anh Thi Hong Nguyen

Smurfit Institute of Genetics
Trinity College Dublin
Dublin 2, Ireland
Telephone: 35318962486
FAX: 35318963848
Email: nguyenat@tcd.ie

John M. Nickerson

Department of Ophthalmology
Emory Eye Center Emory University
B5602 1365B Clifton Road NE
Atlanta, GA 30322 USA
Telephone: 404-778-4411
FAX: 404-778-2231
Email: litjn@emory.edu

Patsy Nishina

Research, The Jackson Laboratory
600 Main Street
Bar Harbor, ME 04609 USA
Telephone: 207-288-6383
FAX: 207-288-6079
Email: patsy.nishina@jax.org

Directory of Participants

O

Catherine O'Riordan

Genzyme Corporation
49 New York Avenue
Framingham, MA 01701 USA
Telephone: 508-270-2448
FAX: 508-661-8841
Email: catherine.oriordan@genzyme.com

P

Machelle T. Pardue

Atlanta VA Medical Center
Emory University School of Medicine
Research Service (151), 1670 Clairmont Rd.
Decatur, GA 30033 USA
Telephone: 404-321-6111 ext. 7342
FAX: 404-417-2971
Email: pardue@emory.edu

Neal S. Peachey

Cole Eye Institute
Cleveland Clinic Fnd.
9500 Euclid Ave, I-31
Cleveland, OH 44195 USA
Telephone: 216-445-1942
FAX: 216-445-3670
Email: peachen@ccf.org

Simon Petersen-Jones

Michigan State University
D-208 VMC East
Lansing, MI 48824 USA
Telephone: 517-353-3278
FAX: 517-355-5164
Email: peter315@cvm.msu.edu

Emilie Picard

Sainte Justine Research Center
3175 chemin de la cote sante catherine
Montreal H3T 1C5 Canada
Telephone: 514-345-4931
FAX: 514-345-4801
Email: picardemilie@gmail.com

Eric Pierce

F.M. Kirby Center for Molecular Ophthalmology
Univ of Pennsylvania School of Medicine
305 Stellar Chance Labs, 422 Curie Blvd
Philadelphia, PA 19104 USA
Telephone: 215-573-3919
Email: epierce@mail.med.upenn.edu

Kendra S. Plafker

Cell Biology
University of Oklahoma Health Sciences Center
940 Stanton L. Young Blvd., BMSB 538
Oklahoma City, OK 73104 USA
Telephone: 405-271-8007 ext. 45513
FAX: 405-271-3548
Email: kendra-plafker@ouhsc.edu

Scott M. Plafker

Cell Biology
University of Oklahoma Health Sciences Center
940 Stanton L. Young Blvd., BMSB 538
Oklahoma City, OK 73104 USA
Telephone: 405-271-8001 ext. 45512
FAX: 405-271-3548
Email: scott-plafker@ouhsc.edu

Eugenia Poliakov

NEI, NIH, 6 Center Drive, Rm 111D
Bethesda, MD 20892 USA
Telephone: 301-402-5327
Email: poliakove@nei.nih.gov

Seshidhar Reddy Police

Novartis Institute for Biomedical Research
500 Technology Square
Cambridge, MA 02139 USA
Telephone: 617-871-5751
FAX: 617-871-4063
Email: seshidhar.police@novartis.com

Q

Suofu Qin

Department of Biological Sciences
Allergan, Inc.
RD3-2D, 2525 Dupont Drive
Irvine, CA 92612-1599 USA
Telephone: 714-246-4132
FAX: 714-246-2118
Email: Qin_suofu@allergan.com

R

David Rabin

Albany Medical College
283 Hudson Avenue, Apt. 1
Albany, NY 12210 USA
Telephone: 415-686-2323
Email: rabind@mail.amc.edu

Julie Racine

Ophthalmology
Montreal Children's Hospital
2300 Tupper Street, Room D-164
Montreal, Quebec, H3H 1P3, Canada
Telephone: 514-412-4402 ext. 2890
FAX: 514-412-4443
Email: julie.racine@mail.mcgill.ca

Roxana A. Radu

Jules Stein Eye Institute, UCLA
100 Stein Plaza, Rm. BH-667/JSEI
Los Angeles, CA 90095 USA
Telephone: 310-267-2664
FAX: 310-794-2144
Email: radu@jsei.ucla.edu

Kavitha Ratnam

University of California, San Francisco
1808 Nakoma Court
Fremont, CA 94539 USA
Telephone: 510-552-9261
Email: ratnamk@vision.ucsf.edu

Directory of Participants

Mary E. Rayborn

Cole Eye Institute (i31)
The Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, OH 44195 USA
Telephone: 216-444-5837
FAX: 216-445-3670
Email: rayborn@ccf.org

T. Michael Redmond

Building 6, Room 117A, LRCMB
National Eye Institute, 6 Center Dr.
Bethesda, MD 20892-0608 USA
Telephone: 301-496-0439
FAX: 301-402-1883
Email: redmond@helix.nih.gov

Kun Do Rhee

UCLA
100 Stein Plaza B118
Los Angeles, CA 90095 USA,
Telephone: 310-696-6712
Email: kdrhee@ucla.edu

Marina Riera Gibernau

Dept. Genetica, University of Barcelona
AV. Diagonal, 645
Barcelona 08028 Spain
Telephone: 34934035529
FAX: 34934034420
Email: marinariera@ub.edu

Raphael Roduit

Institute for Research in Ophthalmology (IRO)
Gd Champsec 64
Sion 1950 Switzerland
Telephone: 41272057902
FAX: 41272057901
Email: raphael.rodut@irovision.ch

Baerbel Rohrer

Medical University of South Carolina
167 Ashley Ave, Rm 707
Charleston, SC 29425 USA
Telephone: 843-792-5086
Email: rohrer@musc.edu

Stephen Rose

Foundation Fighting Blindness
11435 Cronhill Drive
Owings Mills, MD 21117 USA
Telephone: 410-468-0150
Email: srose@fightblindness.org

Erica E. Rosenbaum

University of Wisconsin, Madison
K6/460 CSC, 600 Highland Ave
Madison, WI 53792 USA
Telephone: 608-265-5986
FAX: 608-265-6021
Email: eerosenbaum@wisc.edu

Linda Ruggiero

Dept. of Biology
Fordham University
441 E. Fordham Rd.
Bronx, NY 10458 USA
Telephone: 516-429-0094
FAX: 718-817-3514
Email: lruggiero@fordham.edu

S

Marijana Samardzija

Dept Ophthalmology
University Hospital Zurich
Frauenklinik Strasse 24
Zurich 8091 Switzerland
Telephone: 141442553719
FAX: 141442554385
Email: samam@usz.uzh.ch

Francisco Javier Sancho Pelluz

Dept. of Ophthalmology
Columbia University Medical Center
160 Fort Washington Ave
Harkness Eye Inst, Research Annex Rm 513
New York, NY, 10032, USA
Telephone: 212-342-1186
FAX: 212-305-4987
Email: fjs2115@columbia.edu

Rosaysela Santos

University of California, Irvine
2374 Harbor Blvd #201
Costa Mesa, CA 92626 USA
Telephone: 562-714-5712
FAX: 949-824-1104
Email: santosr@uci.edu

Simone Schimpf-Linzenbold

Molecular Genetics Laboratory
Institute for Ophthalmic Research
University of Tuebingen, Roentgenweg 11
Tuebingen 72076 Germany
Telephone: 4970712987619
FAX: 497071295725
Email: Simone.Schimpf-Linzenbold@uni-tuebingen.de

Hendrick Scholl

Wilmer Eye Institute
Johns Hopkins University
Maumenee Building Suite 748
600 N. Wolfe Street
Baltimore, MD 21287 USA
Telephone: 410-614-6908
FAX: 410-614-2186
Email: hscholl1@jhmi.edu

Daniel Schorderet

Ophthalmology
Institut de Recherche, Av Grandchampsec 64,
1950
Sion 1950 Switzerland
Telephone: 41272057900
FAX: 41272057901
Email: daniel.schorderet@irovision.ch

Mathias Seeliger

Division of Ocular Neurodegeneration
Centre for Ophthalmology
Institute for Ophthalmic Research
Eberhard-Karls University, Schleichstr. 4/3
Tuebingen D – 72076 Germany
Telephone: 4970712980718
FAX: 497071294789
Email: see@iee.org

Directory of Participants

Fu Shang

Tufts University
711 Washington Street
Boston, MA 02111 USA
Telephone: 617-556-3158
FAX: 617-556-3132
Email: fu.shang@tufts.edu

Christian Sheline

Neuroscience Center
LSU Health sciences Center
2020 Gravier Street, Suite D
New Orleans, LA 70112 USA
Telephone: 504-599-0880
FAX: 504-599-0891
Email: csheli@lsuhsc.edu

Paul A. Sieving

NEI / NIH, Bldg 31 - Rm 6A-03
31 Center Dr. MSC 2510
Bethesda, MD 20892 USA
Telephone: 301-496-2234
FAX: 301-496-9970
Email: paul.sieving@nih.gov

Hilda Petrs Silva

Instituto de Biofísica Carlos Chagas Filho
Rua Pompeu Loureiro, 120 apt.302-Copacabana
Rio de Janeiro 22061-000 Brazil
Telephone: 552136499238
FAX: 552122808193
Email: hilda.ufl@gmail.com

Ieva Sliesoraityte

Centre for Ophthalmology
Institute for Ophthalmic Research
University of Tuebingen, Burgholzweg 147
Tuebingen 72070 Germany
Telephone: 491738459671
Email: sliesoraityte@yahoo.com

George Wesley Smith

Complex Systems
Florida Atlantic University
BS-12, RM 516, 777 Glades Rd
Boca Raton, FL 33431 USA
Telephone: 561-297-2465
FAX: 561-297-3634
Email: gsmith61@fau.edu

W. Clay Smith

University of Florida
Box 100284 JHMHC
Gainesville, FL 32610-0284 USA
Telephone: 352-392-0476
FAX: 352-392-0573
Email: wclsmith@ufl.edu

Janet R. Sparrow

Ophthalmology
Columbia University
630 W. 168th St.
New York, NY 10032 USA
Telephone: 212-305-9944
FAX: 212-305-9638
Email: jrs88@columbia.edu

Chloe Stanton

Medical Research Council Human Genetics Unit
Western General Hospital
Crewe Road
Edinburgh EH4 2XU UK
Telephone: 441313322471
FAX: 441314678456
Email: Chloe.Stanton@hgu.mrc.ac.uk

William Stell

University of Calgary-
Foundation Fighting Blindness (Canada)
128 Waldron Avenue
Okotoks, Alberta T1S 1C8 Canada
Telephone: 403-220-7501
FAX: 403-210-8802
Email: wstell@ucalgary.ca

Heidi Stöhr

Institute for Human Genetics
University Regensburg
Franz-Josef-Strauss-Allee 11
Regensburg 93053 Germany
Telephone: 499419445428
FAX: 499419445402
Email: heidi.stoehr@klinik.uni-regensburg.de

Olaf Strauß

Experimental Ophthalmology, Eye Hospital
University Medical Center Regensburg
Franz-Josef-Strauss 11
Regensburg 93053 Germany
Telephone: 499419449228
FAX: 499419449202
Email: strauss@eye-regensburg.de

Natalia V. Strunnikova

National Institute of Health
10 Center Drive, Room 10N226
Bethesda, MD 20892 USA
Telephone: 301-451-5977
FAX: 301-402-1214
Email: strunnikovan@nei.nih.gov

Preeti Subramanian

National Eye Institute - NIH
Bldg. 6 Rm. 131F, Center Drive
MSC 0608
Bethesda, MD 20892-0608 USA
Telephone: 301-451-1970
FAX: 301-402-1883
Email: subramanianp@nei.nih.gov

Angela M. Suburo

Facultad de Ciencias Biomedicas
Universidad Austral, peron 1500 Pilar
Buenos Aires B1629AHJ Argentina
Telephone: 542322482945
FAX: 542322482205
Email: amsuburo@cas.austral.edu.ar

Eriko Sugano

Tohoku University
4-1 Seiryu-machi, Aobe-ku
Sendai, Miyagi 980-8575 Japan
Telephone: 81227178207
FAX: 81227178207
Email: eriko-sugano@llare.tohoku.ac.jp

Directory of Participants

Masahiko Sugimoto
Cleveland Clinic
Cole Eye Institute
27060 Cedar Rd #617
Beachwood, OH 44122 USA
Telephone: 216-342-4194
FAX: 216-342-4194
Email: sugimom@ccf.org

Kayo Sugitani
Kanazawa University
13-1 Takara-machi Kanazawa
Ishikawa 920-8640 Japan
Telephone: 81762652450
FAX: 81762344235
Email: sugitani@kenroku.kanazawa-u.ac.jp

Jack M. Sullivan
SUNY-Buffalo and
VA Western NY Healthcare System
175 Kenton Place
Hamburg, NY 14075 USA
Telephone: 315-491-4723
FAX: 716-862-6526
Email: jackmsullivanmdphd@yahoo.com

T

Katherine Talcott
School of Medicine
University of California, San Francisco
525 Nelson Rising Lane, Apt 907
San Francisco, CA 94158 USA
Telephone: 617-216-0602
Email: katherine.talcott@ucsf.edu

Ernst Tamm
Institute of Human Anatomy and Embryology
University of Regensburg, Universitätsstr. 31
Regensburg D-93053 Germany
Telephone: 499419432839
FAX: 499419432840
Email: ernst.tamm@vkl.uni-regensburg.de

Naoyuki Tanimoto
Division of Ocular Neurodegeneration
Institute for Ophthalmic Research
Univ of Tuebingen, Schleichstr. 4/3
Tuebingen D-72076 Germany
Telephone: 4970712987778
FAX: 497071294503
Email: naoyuki.tanimoto@med.uni-tuebingen.de

Debra A. Thompson
Ophthalmology and Visual Sciences
University of Michigan, Kellogg Eye Center
1000 Wall Street
Ann Arbor, MI 48105-0714 USA
Telephone: 734-615-2246
FAX: 734-936-7661
Email: dathom@umich.edu

Joyce Tombran-Tink
Neural and Behavioral Sciences &
Ophthalmology
Penn State University College of Medicine
500 University Drive
Hershey, PA 17033 USA
Telephone: 717-531-7475
FAX: 717-531-5184
Email: jttink@aol.com

Hiroshi Tomita
Interdisciplinary Research
Tohoku University Institute for International
Advanced
4-1 Seiryō-machi Aoba-Ku
SENDAI Miyagi 980-8575 Japan
Telephone: 81227178207
FAX: 81227178208
Email: hiroshi-tomita@iiare.tohoku.ac.jp

Gabriel H. Travis
Jules Stein Eye Institution
Univ of California Los Angeles School of
Medicine
100 Stein Plaza, Bldg: JSEI Room: GH-667
Los Angeles, CA 90095 USA
Telephone: 310-267-2673
FAX: 310-794-2144
Email: travis@jsei.ucla.edu

Catherine Tsilfidis
Ottawa Hospital Research Institute
501 Smyth Road
Ottawa, Ontario K1H 8L6 Canada
Telephone: 613-737-8233
FAX: 613-739-6070
Email: ctsilfidis@ohri.ca

James Tucker
Moran Eye Center
University of Utah
65 N. Mario Capecchi Dr.
Salt Lake City, UT 84132 USA
Telephone: 801-574-4463
FAX: 801-587-7724
Email: james.tucker@hsc.utah.edu

V

Krisztina Valter
Research School of Biological Sciences
Australian National University, GPO Box 475
Canberra City ACT 0200 Australia
Telephone: 61261251095
FAX: 61261250758
Email: valter@rsbs.anu.edu.au

Joseph Vance
Bioptigen, Inc.
P.O. Box 13569
Durham, NC 27709 USA
Telephone: 919-314-5505
FAX: 919-314-5501
Email: jvance@bioptigen.com

Directory of Participants

Hanna Vastinsalo

Folkhalsan Institute of Genetics
Biomedicum Helsinki, University of Helsinki
PO Box 63
Helsinki 00014 Finland
Telephone: 358919125076
FAX: 358919125073
Email: hanna.vastinsalo@helsinki.fi

Félix Vázquez-Chona

Moran Eye Center
University of Utah
65 N. Mario Capecchi Dr., Suite #S3230
Salt Lake City, UT 84132 USA
Telephone: 801-618-8743
FAX: 801-587-7724
Email: felix.vazquez@utah.edu

Kirstan Vessey

The University of Melbourne
Level 7, Medical building, Grattan St.
Melbourne VIC 3155 Australia
Telephone: 61383445789
FAX: 61393475219
Email: k.vessey@unimelb.edu.au

Ajoy Vincent

Ophthalmology, Hospital for Sick Children
77 Elm Street, Apt 308
Toronto, Ontario M5G 1H4 Canada
Telephone: 647-281-4339
FAX: 416-813-8266
Email: ajoytvincent@rediffmail.com

Douglas Vollrath

Dept. of Genetics
Stanford University School of Medicine
Stanford, CA 94305-5120 USA
Telephone: 650-723-3290
FAX: 650-723-7016
Email: vollrath@stanford.edu

Katherine Voss

Acucela Inc.
21720 23rd Drive SE
Bothell, WA 98021 USA
Telephone: 425-527-0649
FAX: 425-527-3156
Email: kvoss@acucela.com

W

Valerie Wallace

Ottawa Hospital Research Institute
The Ottawa Hospital - General Campus – ORCC
501 Smyth Rd, Box 411
Ottawa, Ontario K1H 8L6 Canada
Telephone: 613-737-8234
FAX: 613-737-8803
Email: vwallace@ohri.ca

Bernhard Weber

Institute for Human Genetics
University Regensburg
Franz-Josef-Strauss-Allee 11
Regensburg 93053 Germany
Telephone: 499419445400
FAX: 499419445402
Email: bweb@klinik.uni-regensburg.de

Ellen R. Weiss

Dept of Cell & Developmental Biology
University of North Carolina
CB# 7090, 108 Taylor Hall
Chapel Hill, NC 27599 USA
Telephone: 919-966-7583
FAX: 919-966-1856
Email: erweiss@med.unc.edu

Rong Wen

Bascom Palmer Eye Institute
Univ of Miami, Miller School of Medicine
506 McKnight Building, 1638 NW 10th Ave
Miami, FL 33136 USA
Telephone: 305-482-4874
FAX: 305-482-4979
Email: rwen@med.miami.edu

Yuquan Wen

Retina Foundation of the Southwest
9900 N. Central Expressway, Suite 400
Dallas, TX 75231 USA
Telephone: 214-363-3911 ext. 108
FAX: 214-363-4538
Email: ywen@retinafoundation.org

David S. Williams

Jules Stein Eye Institute
UCLA School of Medicine
100 Stein Plaza
Los Angeles, CA 90095 USA
Telephone: 858-229-6234
Email: dswilliams@ucla.edu

Gabriel Willmann

Centre for Ophthalmology
Schleichstr 12-16
Tuebingen 72076 Germany
Telephone: 4917662245750
FAX: 497071295038
Email: gabriel.willman@med.uni-tuebingen.de

Wai Wong

National Eye Institute, NIH
7502 Westlake Terrace
Bethesda, MD 20817 USA
Telephone: 301-496-1758
FAX: 301-496-1759
Email: wongw@nei.nih.gov

Y

Xian-Jie Yang

Jules Stein Eye Institute
Univ of California School of Medicine
100 Stein Plaza
Los Angeles, CA 90095 USA
Telephone: 310-825-7020
FAX: 310-794-2144
Email: yang@jsei.ucla.edu

Rosanne Yetemian

University of Southern California
531 Julian Court
Diamond Bar, CA 91765 USA
Telephone: 909-896-4951
Email: yetemian@usc.edu

Directory of Participants

Z

Qi Zhang

5015-MICB Cancer Care Manitoba
675 McDermot Ave
Winnipeg, Manitoba R3E0V9 Canada
Telephone: 204-787-4171
FAX: 204-787-2190
Email: umzha287@cc.umanitoba.ca

Sarah Zhang

Univ of Oklahoma Health Sciences Center
941 Stanton L. Young Blvd., BSEB 331A
Oklahoma City, OK 73104 USA
Telephone: 405-271-5896 ext. 47790
FAX: 405-271-3973
Email: xin-zhang@ouhsc.edu