

TEAM TO PREVENT BLINDNESS RESEARCH DAY
TUESDAY, MAY 18, 2010
ABSTRACT PRESENTATIONS

PAPER PRESENTATIONS

Investigating the contribution of *Growth Differentiation Factor 6* to retinal dystrophies

M. Asai-Coakwell^{1,A}, *X. Dai*^{1,A}, *C. French*^{1,B}, *M. Ye*^{1,A}, *S. Kuny*^{1,C}, *E. DeBaere*², *P. Francis*³, *P. Sundaresan*⁴, *Y. Sawé*^{1,A,D}, *R. Koeneke*⁵, *A. Waskiewicz*^{1,C}, *O.J. Lehmann*^{1,A,D}

^AOphthalmology, ^BBiological Sciences, ^CPhysiology, and ^DMedical Genetics, ¹University of Alberta; ²Center for Medical Genetics Ghent (CMGG); ³Casey Eye Institute-OHSU; ⁴Aravind Eye Hospital; ⁵McGill University.

Meis1 integrates multiple signalling pathways to regulate formation of the retinotectal map

Timothy Erickson, Curtis French, and Andrew Waskiewicz

Department of Biological Sciences, University of Alberta

Impact of rod loss on the retinal cone population in the ELOVL4 mouse model of Stargardt-like dystrophy (STGD3).

*M.A. Filion*¹, *E. Brown*¹, *F. Gaillard*², *Y. Sawé*¹.

¹ Ophthalmology, University of Alberta; ² IPBC, Univ. Poitiers/CNRS.

Zinc Finger Nucleases in Zebrafish

Fleisch, Valerie Cl^{1,2}, *L. Reaume*², *G. Ritze*^{1,P}, *A.J. Waskiewicz*², *W.T. Allison*^{1,2,3}

¹ Centre for Prions & Protein Folding Disease, ² Department of Biological Sciences, ³ Department of Medical Genetics, University of Alberta.

Gdf6a regulates patterning and growth of the zebrafish eye

Curtis R. French, Timothy Erickson, Andrew J. Waskiewicz

Department of Biological Sciences, University of Alberta

Functional Studies of a Rare *ST11* Variant Confirms Its Association with *WDR36*-Linked Glaucoma

*Tim Footz*¹, *Stéphane Dubois*², *Vincent Raymond*², *Michael A Walter*^{1*}

¹ Department of Medical Genetics, University of Alberta, ²Laboratory of Ocular Genetics and Genomics, Laval University Hospital (CHUL) Research Center.

Using zebrafish to develop a precise model of cone photoreceptor ablation and regeneration

Brittany Fraser, Hao Wang, Darcy Kaiser, Malcolm Harvey & W. Ted Allison

Department of Biological Sciences, University of Alberta

Involvement of PITX2 in the ocular cellular stress response through regulation of SLC13A3

M. Hermina Strungaru, Tim Footz, Fred Berry, Elis Deilbes, Pascal Belleau, Vincent Raymond, Michael A Walter, Department of Medical Genetics, University of Alberta, Department of Surgery, University of Alberta, Department of Molecular Endocrinology and Oncology Research Centre, University of Laval.

Functional and Structural Insight into SLC4A11, a Protein Defective in Posterior Corneal Dystrophies

Gonzalo L. Vilas, Patricio E. Morgan, Sampath K. Loganathan, Anita Quon, and Joseph R. Casey

Department of Physiology, University of Alberta

Disparities in healthcare access rates for Aboriginal and non-Aboriginal Albertan residents, 1997-2006: a population database study

Helen Chung, Chris Hanson, Ordan J Lehmann

Department of Ophthalmology, University of Alberta

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POSTER PRESENTATIONS

Towards Characterization of the Role of a Novel Bone Morphogenetic Protein Antagonist in Ocular Disease

Helen Chung, O.J. Lehmann

Department of Ophthalmology, University of Alberta

Investigating the role of GDF6 in optic nerve disease

Xiaohua Dai, Mika Asai-Coakwell, Erin Strachan, Ming Ye, Ordan J. Lehmann

Departments of Ophthalmology and Medical Genetics, University of Alberta.

PRKC Apoptosis WT1 Regulator interacts with transcription factors involved in development of the eye

Moulinath Acharya¹, Ted Allison^{1,3}, Michael A. Walter^{1,2}

Departments of ¹Medical Genetics, ²Ophthalmology and ³Biological Sciences, University of Alberta.

To Characterize the Role of a Forkhead Transcription Factor in Ocular Disease.

Singh HP^a, Sauvé Y^b, Waskiewicz AJ^c, Lehmann OJ^a

Departments of Ophthalmology ^a, Physiology ^b, Biological Sciences ^c, University of Alberta.

Finding a novel locus for anophthalmia

Azam Khorshidi, Hardeep Pal Singh and Ordan Lehmann

Department of Medical Genetics, University of Alberta.

Analysis of FOXC1 direct target genes that are associated with cellular stress response

Y.Ito^{1,A}, F.Berry^{1,A}, M.A. Walter^{1,B}, ^AMedical Genetics, ^BMedical Genetics, Ophthalmology, ¹University of Alberta.

BMP Modulators are Required for Proper Eye Formation

Jennifer Wettmarshausen, Erin Beuker, Ordan Lehmann, Andrew Waskiewicz

Department of Biological Sciences, Department of Ophthalmology, University of Alberta; University Würzburg.

Expression of afadin in zebrafish retina and other sensory structures

Henrik Hülle, Hao Wang, Adina R. Bujold, W. Ted Allison

Department of Biological Sciences, University of Alberta.

The role of Nectin and Adafin in zebrafish cones

A.J. Webrfritz-Hanson, H. Wang, A.R. Bujold, V.C. Fleisch, W.T. Allison.

Department of Biological Sciences, University of Alberta.

Investigating the Contribution of GDF11 to Ocular Development & Disease

R.K. Mateo¹, A.J. Waskiewicz², O.J. Lehmann^{1,3}

¹Medical Genetics, ²Biological Sciences, ³Ophthalmology, University of Alberta.

Evidence for thyroid hormone signaling in cone photoreceptor subtype differentiation during development

Michele DuVal, Adina R. Bujold, Hao Wang, W. Ted Allison

Department of Biological Sciences, University of Alberta.

Elucidation and Characterization of Genetic Variants in BMP and Activin Membrane Bound Inhibitor (BAMBI) in Patients with Microphthalmia and Anophthalmia

Erin Strachan, O.J. Lehmann

Department of Ophthalmology, University of Alberta.

Wavelet analysis shows age-related changes of full field ERG oscillatory potentials in humans.

Dornständer B, Freund P, Gilmour G, Sauvé Y

Department of Ophthalmology, University of Alberta.