





OUR VISION

# TO RESTORE HOPE AND SIGHT

OUR MISSION

TO LEAD THE FIGHT AGAINST BLINDNESS BY ADVANCING RETINAL DISEASE RESEARCH, EDUCATION AND PUBLIC AWARENESS

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# MESSAGE FROM THE PRESIDENT & CEO and BOARD CHAIR





Dear Friends,

For the Foundation Fighting Blindness, 2015 was a break-through year. Committed supporters like you funded the very first gene-therapy clinical trial for an eye disease in Canada. Over four decades of dedication and research led to this critical turning point.

This clinical trial is just one of the many shining examples of incredible milestones that demonstrate the accelerating pace of vision research. We will be able to go further, faster, thanks to you.

In 2015 alone, your generosity supported a total of 28 ongoing research projects across Canada for a total investment of \$1.64 million. Thank you!

Finding treatments and cures for blinding eye diseases is now possible, and the impact of these discoveries for Canadians living with vision loss will be life changing. As we move forward, we must intensify our efforts, and lean in to the fight against blindness. It's up to us, together, to turn our tremendous hope into reality.

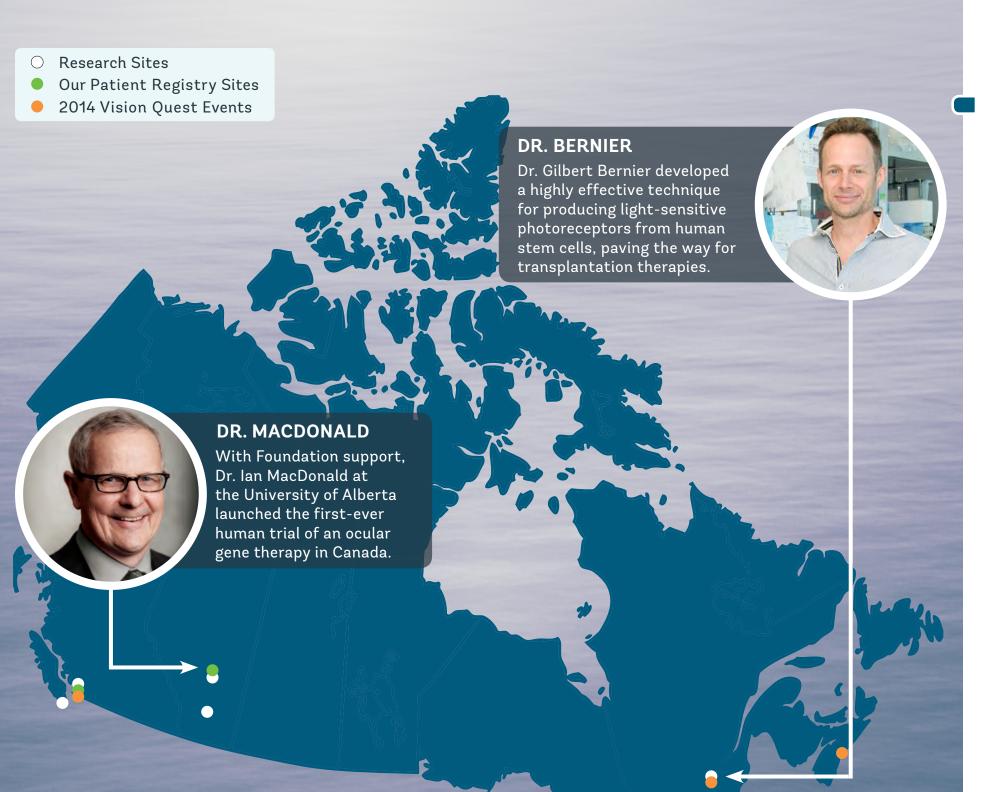
Sincerely,

Sharon Colle President & CEO

Sharon Colls

Andrew Burke Board Chair

Adu Ba



# DR. NAGY

Dr. Andras Nagy's team engineered stem cells to secrete a sight-saving drug that they are testing as a onetime treatment for age-related macular degeneration.

# RESEARCH

Your support funded 28 ongoing research projects across the country in 2015 – over \$1.64 million in sight-saving research to restore hope and sight.

Dr. Gautam Awatramani University of Victoria Uses light-sensing molecules to manipulate vision cells

Dr. Jean-Sébastian Joyal CHU Sainte-Justine Studies sugars/lipids in the eye to develop drug therapies potential treatment of RP

Dr. Orson Moritz University of British Columbia Studies valproic acid and its

Dr. Gilbert Bernier Hôpital Masionneuve-Rosemont Developing photoreceptors for transplantation

Dr. Rod Bremner Mount Sinai Hospital Harnessing the eye's ability to regenerate

Dr. Michel Cayouette Institut de recherches cliniques de Montréal Examines the fundamental mechanics of photoreceptors

Dr. Mahyer Etminan University of British Columbia Examining how prescription drugs may influence AMD risk

Dr. Cheryl Gregory-Evans University of British Columbia Developing an eye drop to repair damaged retinal cells

Dr. Robert Koenekoop Montreal Children's Hospital Identifying gene mutations causing childhood blindness

Dr. Bruno Larrivée Université de Montréal Developing more effective AMD treatments

Dr. Ian MacDonald University of Alberta Leading the first human clinical trial of a treatment for choroideremia in Canada

Dr. Sarah McFarlane University of Calgary Tracking the movements of damaged eye cells

Dr. Philippe Monnier Toronto Western Hospital Developing new drugs to stop damaged cells from duing

Dr. Andras Nagy Mount Sinai Hospital

Combining gene and stem cell therapies to treat AMD Dr. Stéphanie Proulx

Developing mechanisms to transplant retinal cells Dr. Christian Salesse

Université Laval

Université Laval Studies an eye protein necessary for vision

Dr. Mike Sapieha Hôpital Masionneuve-Rosemont Studies compounds that could protect nerve cells

Dr. Valerie Wallace University Health Network Funded for photoreceptor transplantation studies

Nine Foundation-funded research projects concluded in 2015.

Dr. Belinda Chang University of Toronto

Dr. Robert Devenyi Toronto Western Hospital

Dr. Robert Gendron Memorial University Dr. Kevin Gregory-Evans University of British Columbia

Dr. Perry Howard University of Victoria

Dr. Saeed Khalili University of Toronto **Dr. David Picketts** Ottawa Hospital Research Institute

Dr. Uri Saragovi Lady Davis Institute for Medical Research

Dr. Catherine Tsilfidis Ottawa Health Research Institute

Four Patient Registry Enrollment were funded at:

IWK Children's Hospital (NS), SickKids (ON), University of Alberta (AB), Vancouver General Hospital (BC)

# MOVING VISION SCIENCE FORWARD

#### 2015 RESEARCH HIGHLIGHTS & THE ROAD TO TREATMENTS

Your support in 2015 helped move important research along the path from the laboratory toward the clinic. This path of four overlapping stages starts with *Discovery Research*, progresses to *Pre-Clinical Research* and then into the *Clinical Trial* phase, where potential

treatments are evaluated for their safety and efficacy in people. If successful, we are rewarded with new sight-saving treatments. Below you'll find the notable projects we funded in 2015 in each of these stages, as well as how our education and advocacy efforts are contributing to moving sight-saving science forward - all thanks to you!

# DISCOVERY RESEARCH —

Discovery Research underpins all new treatments by generating knowledge required for therapeutic intervention.

42 New Discoveries

Our funded scientists made 42 new discoveries in 2015.

#### 2015 Highlights:



#### DR. AWATRAMANI

Discovered how motion and spacial information are stored in the vision pathway.



# DRS. KOENEKOOP & CAYOUETTE

Discovered a new blindness-causing gene that will be essential for developing new treatments.

# PRE-CLINICAL RESEARCH

Pre-clinical Research is directly focused on collecting information to enable a specific treatment approach to be tested in people.

New Research
Tools Designed

Our funded scientists created 23 new tools to fuel research.

#### 2015 Highlights:



#### DR. BERNIER

Developed a new tool for massproducing human photoreceptors from stem cells for transplantation.



#### DR. SARAGOVI

Developed tools to show that two new proteins slow the progression of retinitis pigmentosa, glaucoma and diabetic retinopathy.

# CLINICAL TRIALS

Clinical Research involves testing a new therapy on people to analyze its efficacy and safety.

2 Exciting Clinical Research Trials

These two projects are our first funded clinical trials.

#### 2015 Highlights:



#### DR. MACDONALD

Commenced Canada's first-ever human gene therapy trial for a blinding eye disease. This study used our Patient Registry to select trial participants.



#### **ARGUS II**

Ongoing observational trial of 'bionic eye' doubles number of participants.

# SIGHT-SAVING TREATMENTS

If successful in the clinical stage, treatments have the opportunity to become publicly available.



# **EDUCATION / ADVOCACY**



#### PATIENT EVIDENCE

We submitted patient feedback to government agencies and advocated for access to treatments.



#### VISION QUEST

Our annual education conference visited five Canadian cities, involving 1100+ participants.

YOU CAN CONTINUE TO HELP INCREASE THE PACE OF RESEARCH. **DONATE TODAY** AT **FFB.CA** OR CALL **1.800.461.3331** EXT. **262**.

# 66 RESEARCH HAS THE POWER TO DELIVER LIFE-CHANGING RESULTS.

# A CANADIAN FIRST

#### PIONEERING GENE THERAPY TRIAL FOR INHERITED BLINDNESS

Will gene therapy be an effective treatment for blinding eye diseases? Many people who live with vision loss are waiting for an answer while scientists and clinicians test different approaches to gene therapy that aim to replace damaged genes with new, functional copies.

In 2015, Foundation Fighting Blindness donors supported Canada's first gene therapy clinical trial for choroideremia, a rare blinding eye condition that travels through families on the X chromosome. An affected man has a 50 percent chance of passing the damaged gene to his sons, and his daughters will be carriers of the disease.

In the 1980s, scientists did not know what caused choroideremia, but there was a clear inheritance pattern. Dr. Ian MacDonald was inspired to study the disease by Barbara Owens, whose family was affected. A family tree enthusiast, Ms. Owens identified an affected ancestor who had arrived in Ontario in 1849. Building on her information, Dr. MacDonald was able to trace the genetic inheritance of the disease by identifying 1,800 family members.

Moving research from the laboratory into the clinic takes time, dedication, patience, planning, and a broad network of supporters. In 1985, the Foundation began funding Dr. MacDonald's choroideremia research. He localized the gene to a particular portion of the X chromosome and helped to develop the first predictive test. In 2015, with support from the Foundation, Dr. MacDonald launched Canada's first gene therapy clinical trial for choroideremia at Edmonton's Royal Alexandra Hospital. The trial aims to preserve and potentially restore vision for people

with this genetic disorder. Dr. MacDonald says he's "absolutely impressed" by the eye's ability to heal itself and reattach the retina within hours of surgery. "The human body is doing its work. We're just helping it."

The first clinical trials for choroideremia took place at the University of Oxford. In 2014, early results in The Lancet Medical Journal reported that six months after treatment, the first six patients showed improvement in their vision in dim light; and two of the six were able to read more lines on an eye chart. The ongoing Oxford trial, led by ophthalmologist Dr. Robert MacLaren, continues to deliver promising long-term results. To ensure that the Canadian trial learns from the Oxford study, Dr. MacDonald is collaborating closely with Dr. MacLaren, who traveled to Alberta to help with the Canadian clinical trial.

"This new step forward is extremely meaningful," says Sharon Colle, FFB President & CEO. "From the beginning, we believed in Dr. MacDonald's research. This trial affirms the Foundation's long-term commitment to research because it shows that research has the power to deliver lifechanging results."

This pioneering clinical trial paves the way for the future of gene therapy in Canada, which is vital because of the tremendous potential for gene therapy to treat a variety of blinding eye diseases. Thanks to the Foundation's donors, we expect to see many more applications of gene therapy to treat vision loss in the coming years, including creative approaches that combine the latest innovations in gene therapy with stem cell science and gene editing.

# **2015 FUNDRAISING EVENTS**

RIDE FOR SIGHT • COMIC VISION • CYCLE FOR SIGHT



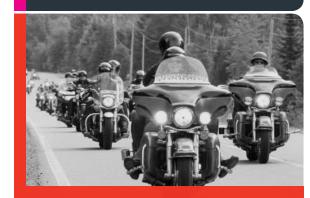
**CYCLE FOR SIGHT** 

cycleforsight.ca



**COMIC VISION** 

comicvision.ca



**RIDE FOR SIGHT** 

rideforsight.com

Every year, people across Canada join the fight against blindness by participating in our signature fundraising events: Ride for Sight, Comic Vision and Cycle for Sight. Thousands of motorcyclists, comedy fans and cyclists coast-to-coast fundraise for vision research, helping to restore hope and sight.

\$2,057,390

RAISED ACROSS CANADA

3409

PARTICIPANTS

17

EVENTS NATIONWIDE

352

EVENT VOLUNTEERS 58

CORPORATE SPONSORS

13,000

EVENT DONORS 12.1 MILLION

MEDIA IMPRESSIONS

# VISION QUEST 2015

#### **IMAGINING A BRIGHTER FUTURE**

Our annual education event brought together scientists, clinicians, and individuals and families living with vision loss, to imagine a brighter future. We visited five great Canadian cities:

## VANCOUVER | LONDON | TORONTO | MONTREAL | HALIFAX





To help build a better future, we asked our attendees to take action. Here's how **530 attendees** want to contribute to the fight against blindness:

- Share their story
- Volunteer
- Raise awareness
- Join the *Patient Registry*
- Mentor a young person with vision loss

## 2015 LEADERSHIP DONORS

Thank you to our generous Leadership Donors: individuals, corporations and foundations who made philanthropic gifts of \$5,000 or more in 2015. Your loyal support funded vital research to preserve and restore sight.

#### \$250,000+

Anonymous (1)
Estate of Joyce Conn
Krembil Foundation

#### \$100,000+

Donna Green

#### \$25,000 - \$49,999

Alcon Canada Inc.

Mark and Shelagh Anson Estate of Earnest Bradshaw Deeley Harley-Davidson Canada

Renate Greenwood

**Ledcor Group of Companies** 

Estate of Gurli Harriet Louw Nielsen

Estate of Doreen Powles
Estate of Donald Julian Scott
Dr. Bill and Kathie Stell

**Bruce Wise** 

#### \$5,000 - \$24,999

Estate of Jeanne Eunice Adams
Allergan International Foundation

Anonymous (2)
Anonymous (3)
Anonymous (4)
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Christine and Andrew Burke Arthur J.E. Child Foundation

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Shorcan Brokers Limited Sick Kids Foundation Robert Simmons

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Dr. Raymond Stein and Nancy Viner

David and Donna Sweeny
David and Deborah Tennant
Trev Deeley Foundation
Clayton and Linda Woitas

## 2015 EVENT SPONSORS

Fundraising and educational event sponsors are integral partners of the Foundation and essential to our success. Your commitment, generosity, and participation at each of our events is staggering. We are grateful to all of our sponsors but have only listed \$5,000+ sponsors here.

#### \$50,000+

Accessible Media Inc.

Bayer Inc.

#### \$25,000 - \$49,999

**BMO Financial Group** 

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Deeley Harley-Davidson Canada

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TD Securities Inc.

#### \$10,000 - \$24,999

Allergan Inc.

Peller Estates

Echelon General Insurance Company

Essilor

IBM

Ledcor Group of Companies

#### \$5,000 - \$9,999

Brown Foreman

eSight

**Expedia Canada Corporation** 

GAMMA Sales Inc.

L'Occitane

Independent Financial Concepts Group

TELUS Tridel

# In Kind Event Sponsorship (\$5000+)

Air Canada Foundation
Bochner Eye Institute
Kernals Popcorn Limited

Knar Jewellery

**Four Seasons Hotels** 

Dave Lede Family Charibtale Foundation

Brian and Marion MacDonald

**Onward Manufacturing** 

Dr. Raymond Stein and Nancy Viner

Robin and David Young

# 2015 MONTHLY DONORS

We are so grateful to all of our Monthly Donors who generously provide critical and stable funding for sight saving research every month. In 2015, our dedicated monthly donors contributed enough to fund a research project for 18 months.

136

NEW MONTHLY DONORS 673

TOTAL MONTHLY DONORS \$1000

LARGEST MONTHLY DONATION \$165,400

2015 TOTAL REVENUE

# **2015 FINANCIALS**

The Foundation Fighting Blindness continues to be Canada's largest health charity funding breakthrough vision research, thanks to the ongoing commitment of our donors, volunteers, researchers and families living with blinding eye diseases.

In 2015, the generosity of our 21,762 donors and the commitment of our 482 volunteers generated a gross revenue of over \$4.7 million.

In total, over \$2.1 million was allocated to achieve our mission, including more than \$1.74 million to the funding and oversight of 28 vision research projects across the country.

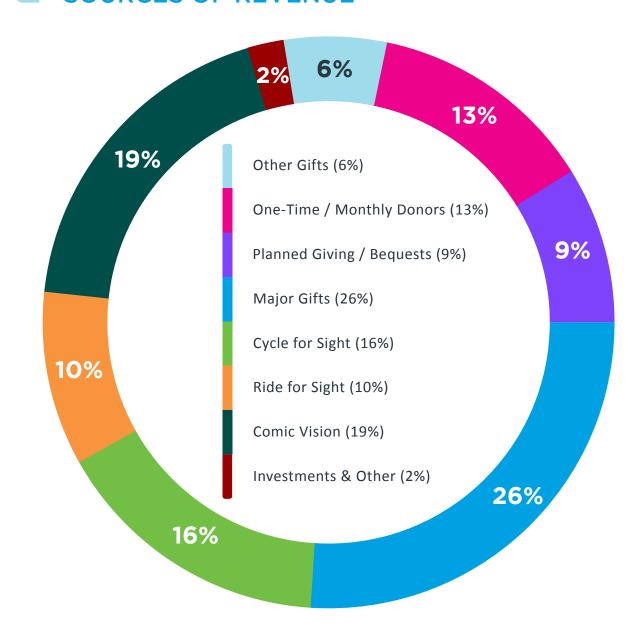
REVENUES	2015	2014
Fundraising Events	\$2,339,193	\$2,325,289
Gifts & Bequests	\$2,301,550	\$2,008,327
Investment / Interest	\$90,721	\$233,648
TOTAL	\$4,731,464	\$4,567,264

MISSION SPENDING	2015	2014	
Research	\$1,741,614	\$2,063,017	
Education	\$359,529	\$348,598	
TOTAL	\$2,101,143	\$2,411,615	

By 2011, the Foundation Fighting Blindness had accumulated a significant surplus due to a number of unexpected large gifts in prior years. In keeping with the wishes of our donors, the Foundation used the surplus to invest more heavily in research from 2012 to 2014. In 2015, the Foundation resumed balanced budgeting, resulting in a lower mission expenditure compared to 2014.

FUNDRAISING & ADMINISTRATION EXPENSES	2015	2014
Administration	\$698,461	\$702,319
Fundraising - Events	\$1,176,960	\$1,322,796
Fundraising - Gifts & Bequests	\$684,815	\$678,062
TOTAL	\$2,560,236	\$2,703,177

# I SOURCES OF REVENUE



# COMPARISON OF REVENUE TO MISSION SPENDING

REVENUES	2015	2014	
Total Revenue	\$4,731,464	\$4,567,264	
Net Revenue of Event / Fundraising Costs	\$2,869,689	\$2,566,406	
Total Mission Spending	\$2,101,143	\$2,411,615	

# **BOARD OF DIRECTORS**

The Foundation Fighting Blindness Board of Directors is comprised of extraordinary and dedicated individuals who generously volunteer their time to guide the Foundation in its mission.

### **EXECUTIVE COMMITTEE**

Andrew Burke (Chair)

Joe Grech (Vice-Chair)

Rahn Dodick (Treasurer)

Malcolm Hunter (Corporate Secretary)

John Breen (Executive Officer)

Catherine Tillmann (Executive Officer)

Donna Green (Past Chair)

#### **BOARD MEMBERS**

Michel Cayouette, PhD

David Drury

Sherif El-Defrawy, MD, PhD, FRCSC

Peter Farmer

Jane Humphreys

Peter J. Kertes, MD, CM, FRCSC

Gary Mandel

Michael Ovens

Lorna L. Rosenstein

George Sheen

Raymond M. Stein, MD, FRCSC

David D. Sweeny Deborah Tennant

# SCIENTIFIC ADVISORY BOARD

The Foundation Fighting Blindness Scientific Advisory Board is comprised of exceptional scientists actively engaged in sight-saving research. They volunteer their time and scientific leadership to evaluate research grant applications and support our education programs.

Michel Cayouette, PhD (Chair)
Institut de recherches cliniques
de Montréal (IRCM)

Seth Blackshaw, PhD

John Hopkins University School of Medicine

Rod Bremner, PhD

Lunenefeld-Tanenbaum Research Institute, Mount Sinai Hospital Sylvain Chemtob, PhD

Maisonneuve-Rosemont Hospital Research Centre

Ordan Lehmann, PhD

University of Alberta

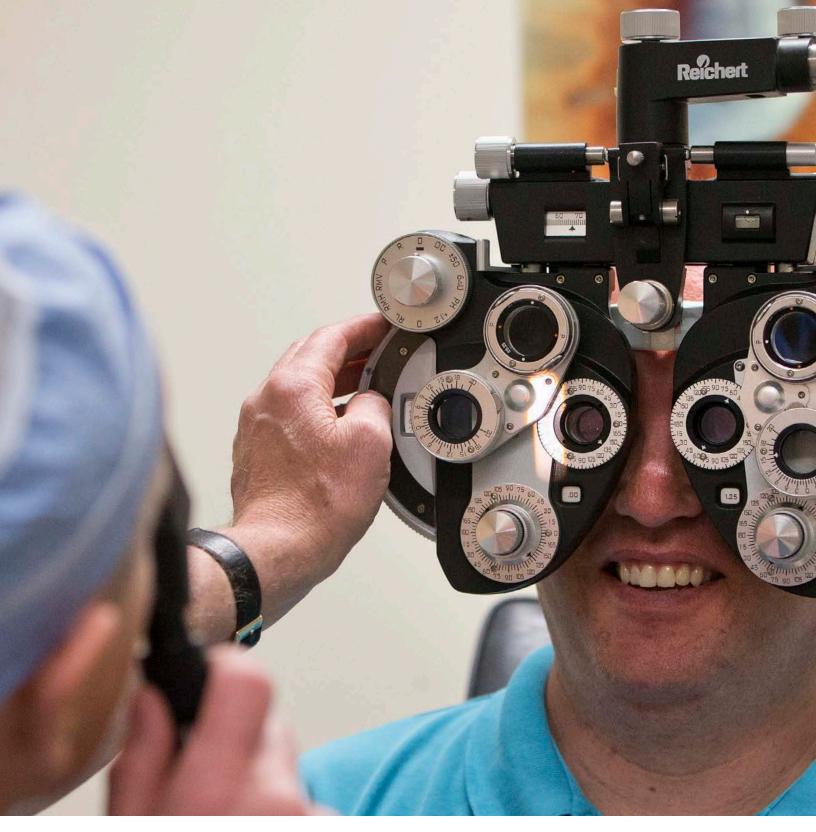
Brian Link, PhD

Medical College of Wisconsin

Orson Moritz, PhD

University of British Columbia







The FOUNDATION : 890 Yonge St. 12<sup>th</sup> floor : fb.cα

FIGHTING BLINDNESS : Toronto ON M4W 3P4 : ffb.cα

