

The Awardees

2013

Best experimental work (shared award)

- **Karl Farrow**
Farrow K, et al: Ambient illumination toggles a neuronal circuit switch in the retina and visual preception at cone threshold. Neuron 2013; 78:325-338
- **Sandra Siegert**
Siegert S, et al.: Transcriptional code and disease map for adult retinal cell types. Nature Neuroscience 2012;15: 487-495.

Highest clinical relevance

- **Pascal Knecht**
Knecht PB, et al. The ocular pulse amplitude as a noninvasive parameter for carotid artery stenosis screening. A test accuracy study. Ophthalmology 2012;119:1244-1249.

Best innovation

- **Konrad Weber**
Weber KP, et al. Single motor unit activity in human extraocular muscles during the vestibulo-ocular reflex. J Physiol 2012;13:3091-3101.

2014

Best experimental work

- **Corinne Kostic**
Kostic C, et al. Rapid Cohort Generation and Analysis of Disease Spectrum of Large Animal Model of Cone Dystrophy. PLoS One. 2013 Aug 19;8(8):e71363.

Highest clinical relevance (shared award)

- **Mathias Abegg**
Abegg M, et al. Microcystic Macular Edema Ophthalmology 2014.
- **Daniel Barthelmes**
Barthelmes D, et al. Diabetes impairs mobilization of mouse bone marrow-derived Lin⁻/VEGF-R2⁺ progenitor cells. Blood Cells Mol Dis 2013

Best innovation

- **Carlo Rivolta**
Nishiguchi KM, et al, Rivolta C: Whole genome sequencing in patients with retinitis pigmentosa reveals pathogenic DNA structural changes and NEK2 as a new disease gene. Proc Natl Acad Sci USA 10,2013



2015

Best experimental work

- **Sonja Kleinlogel**
Van Wyk M, et al., Kleinlogel S. Restoring the ON Switch in Blind Retinas: Opto-mGluR6, a Next-Generation, Cell-Tailored Optogenetic Tool. PLoS Biol 13(5): e1002143. doi:10.1371/journal.pbio.1002143 *

Highest clinical relevance

- **Alexandre Matet**
Matet A, et al. En Face Optical Coherence Tomography of Foveal Microstructure in Full-Thickness Macular Hole: A Model to Study Perifoveal Müller Cells. Am J Ophthalmol 2015;159(6):1142–1151

Jury's Choice

- **Muriel Dysli**
Dysli M, et al. Acute onset incomitant image disparity modifies saccadic and vergence eye movements. J Vision 2015;15:1-15

2016

Best experimental work (3 awardees)

- **Keisuke Yonehara, Michele Fiscella, Antonia Drinnenberg**
Yonehara K, Fiscella M, Drinnenberg A, et al. Congenital Nystagmus Gene FRMD7 Is Necessary for Establishing a Neuronal Circuit Asymmetry for Direction Selectivity. 2016, Neuron 89, 177–193

Highest clinical relevance

- **Yulia Valko**
Valko Y, et al. Ocular vestibular evoked myogenic potentials as a test for myasthenia gravis. Neurology@2016;86:660–668.

Jury's Choice

- **Cavit Agca**
Agca C, et al. Expression of leukemia inhibitory factor in Müller glia cells is regulated by a redox-dependent mRNA stability mechanism. BMC Biology (2015) 13:30



2017

Best experimental work (2 awardees)

- **Konstantinos Nikopoulos K, Pietro Farinelli**
Nikopoulos K, Farinelli P, et al. Mutations in CEP78 Cause Cone-Rod Dystrophy and Hearing Loss Associated with Primary-Cilia Defects. Am J Hum Genet. 2016 Sep 1;99(3):770-6

Highest clinical relevance

- **Ghislaine Traber**
Traber GL, et al.. Enhanced Depth Imaging Optical Coherence Tomography of Optic Nerve Head Drusen: A Comparison of Cases with and without Visual Field Loss. Ophthalmology 2017 Jan;124(1):66-73

Jury's Choice

- **Florentina Freiberg**
Freiberg FJ, et al. Low endophthalmitis rates after intravitreal anti-vascular endothelial growth factor injections in an operation room: A Retrospective Multicenter Study. Retina 2017 Jan 17

2018

Best experimental work

- **Maya Barben**
Barben M, et al. Hif1a inactivation rescues photoreceptor degeneration induced by a chronic hypoxia-like stress. Cell Death Differ, 2018.

Highest clinical relevance

- **Alexandre Matet**
Matet A, et al. Radiation Maculopathy After Proton Beam Therapy for Uveal Melanoma: Optical Coherence Tomography Angiography Alterations Influencing Visual Acuity. Invest Ophthalmol Vis Sci., 2017, 1;58(10), 3851-3861.

Jury's Choice

- Not awarded



2019

Best experimental work

- **Josephine Jüttner, MSc**
Targeting neuronal and glial cell types with synthetic promoter AAVs in mice, non-human primates, and humans | Nature Neuroscience, Oct 2018
Institute of Molecular and Clinical Ophthalmology, Basel
<https://www.ncbi.nlm.nih.gov/pubmed/31285614>

Highest clinical relevance

- **Dr. Christina Stathopoulos**
Intravitreal anti-vascular endothelial growth factor for the management of neovascularization in retinoblastoma after intravenous and/or intraarterial chemotherapy: Long-Term Outcomes in a Series of 35 Eyes | Retina, Oct 2018
Hôpital ophtalmique Jules-Gonin, Lausanne
<https://www.ncbi.nlm.nih.gov/pubmed/30312257>

Jury's Choice

- **Praveena Manogaran, MSc & Christine Walker-Egger, PhD**
Exploring experimental autoimmune optic neuritis using multimodal imaging | Neuroimage, July 2018, 175, 327- 339
UniversitätsSpital Zürich
<https://www.ncbi.nlm.nih.gov/pubmed/29627590>

2020

Best experimental work

- **Dasha Nelidova**
Nelidova D, Morikawa RK, Cowan CS, Raics Z, Goldblum D, Scholl H, Szikra T, Szabo A, Hillier D, Roska B. Restoring light sensitivity using tunable near-infrared sensors. Science 05 Jun 2020.

Highest clinical relevance

- **Sarah Chellappa**
Chellappa SL, Vivien Bromundt V, Frey S, Steinemann A, Schmidt C, Schlote T, Goldblum D, Cajochen C. Intraocular cataract lens replacement improves circadian rhythms, cognitive function, and sleep in older adults. JAMA Ophthalmol. 2019;137(8):878-885.

Jury's Choice

- Not awarded



2021

Best experimental work

- **Dr. Cameron Cowan & Dr. Magdalena Renner**
Cell Types of the Human Retina and Its Organoids at Single-Cell Resolution, September 2020

Highest clinical relevance

- **Benedetta Franceschiello & PhD Lorenzo Di Sopra**
3-Dimensional magnetic resonance imaging of the freely moving human eye
Neurobiol. November 2020

Jury's Choice

- **Florian Udry**
Lentiviral mediated RPE65 gene transfer in healthy hiPSCs-derived retinal pigment epithelial cells markedly increased RPE65 mRNA, but modestly protein level
Sci Rep. June 2020