

**TECHNION – RUTH & BRUCE RAPPAPORT FACULTY OF MEDICINE**  
**Curriculum Vitae (for physicians only)****1. PERSONAL DETAILS**

Full Name: **Nitza Goldenberg-Cohen**  
Identity No: 022449516  
Date of birth: 7/9/1966  
Place of birth: Haifa, Israel  
Marital status: married  
Phone numbers: 0509795014  
E-mail: ncohen1@gmail.com  
Orcid Account: 0000-0002-5648-1873

**2. ACADEMIC DEGREES**

1998 MPH , Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel,  
1991 MD (Magna Cum laude), Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel,

**3. ACADEMIC APPOINTMENTS**

2017 - present Associate Professor, Faculty of Medicine, Technion-Israel Institute of  
Technology, Haifa, Israel  
2014 - 2016 Associate Professor, Faculty of Medicine, Tel-Aviv University, Tel-Aviv,  
Israel  
2010 - 2014 Assistant Professor, Faculty of Medicine, Tel-Aviv University, Tel-Aviv,  
Israel  
2006 - 2010 Lecturer, Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel  
1999 - 2006 Clinical Instructor, Faculty of Medicine, Tel-Aviv University, Tel-Aviv,  
Israel

**4. PROFESSIONAL EXPERIENCE (OUTSIDE ACADEMIA)**

2021 - present Hospital IRB committee member, Bnai Zion Medical Center  
2019 - present Head of Eye Research Laboratory, Faculty of Medicine, Technion  
2017 - 2017 Strabismus Surgeon in delegation to Kenya, Volunteer, Eye from Zion

2016 - present	Head, Department of Ophthalmology, Bnai Zion Medical Center, Haifa, Israel
2015 - 2015	Strabismus Surgeon in delegation to Russia, Volunteer, Schneider Children's Hospital, Petach Tikva, Israel
2014 - 2016	Head, Israel Neuro Ophthalmology Society, Israel Ophthalmology Society, IMA, Israel
2013 - 2013	Strabismus Surgeon in delegation to Russia, Volunteer, Schneider Children's Hospital, Petach Tikva, Israel
2013 - Present	Principal Investigator, International Clinical Studies
2012 - 2012	Business Delegation to Kazakhstan, Volunteer, Schneider Children's Hospital
2003 - 2018	Head of Krieger Eye Research Laboratory, FMRC, Tel Aviv University, Campus Rabin, Petach Tikva, Israel
2002 - 2003	Clinical/Research Fellowship, Pediatric-Ophthalmology, Wilmer Eye Institute, Johns Hopkins University, Maryland, USA
2001 - 2001	Business Delegation to Mozambique, Volunteer, Ministry of Foreign Affairs
2001 - 2002	Clinical/Research Fellowship, Neuro-Ophthalmology, Wilmer Eye Institute, Johns Hopkins University, Maryland, USA
2001 - 2003	Research Fellowship, Genetics and functional Genomics, neurobiology and Molecular Research laboratory, University of Maryland, Baltimore, Maryland, USA
1996 - 2001	Residency in Ophthalmology, Rabin Medical Center, Clalit Services, Petach Tikva, Israel
1992 - 1996	General Physician, Officer, Israel Defence Force (IDF), Israel
1992 - 1998	General Practitioner, Kfar Daniel, Clalit Health Services

## **5. RESEARCH INTERESTS**

- Optic nerve diseases, neuroprotection and neuro-regeneration
- Tumorigenesis and molecular studies of ocular, brain tumors and other tumors involving the visual pathway.
- Nanotechnology and advanced technology for translational research improving the diagnosis and treatment of eye diseases.
- Clinical research in the field of Pediatric and Neuro-Ophthalmology
- Molecular studies of hereditary, genetic, age-related and metabolic eye diseases

## **6. TEACHING EXPERIENCE**

2003 - 2016	Continous education Team/Project leader and supervisor (Manager) , Residents , Tel-Aviv University, Tel-Aviv
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2005 - 2007	Tutor (Supervisor) , Medical School Clinical , Tel-Aviv University, Tel-Aviv
2012 - 2014	Orthoptic education (Lecturer) , students MSc Orthoptics , Tel-Aviv University, Tel-Aviv
2012 - 2016	Lecturer and Head of program "Cutting edge in vision research" (Director) , Graduate student MSc, PHD , Tel-Aviv University, Tel-Aviv
2014 - 2014	Lecturer and organizer, Practical Neuro-Ophthalmology (Manager) , International Course , Hebrew University, Jerusalem
2016 - Present	Continuous Education (Lecturer) , Residents , Technion-Israel Institute of Technology, Haifa
2016 - Present	Head of Ophthalmology department (Director) , Residents , Bnai Zion Medical Center, Haifa
2016 - Present	coordinator and organizer of International meetings for pediatric and neuroophthalmological (Coordinator) , Residents , Bnai Zion Medical Center, Haifa
2019 - 2019	Orthoptic education (Lecturer) , Orthoptics students , Hebrew University, Jerusalem

## **7. ACTIVITIES**

2006 - Present	Member of Research committee, North American Neuro Ophthalmology Society (NANOS)
2016 - Present	Thesis advisor, Technion
2020 - Present	Head of Research laboratory of Eye Research, Faculty of Medicine, Technion

## **8. FACULTY ACTIVITIES**

2014 - present	Continuous education in Ophthalmology , Technion-Israel Institute of Technology, Haifa
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## **9. PUBLIC PROFESSIONAL ACTIVITIES**

2003 - Present	Review of MSc and PhD thesis, Reviewer Tel Aviv University, Hebrew university, Technion
2003 - Present	Reviewer for multiple peer review journals, Reviewer
2006 - 2016	Animal Experimentation Ethics Committee , Rabin Medical Center
2006 - 2016	MOR examiner, Tel-Aviv University, Tel-Aviv
2006 - Present	Scientific Board, Lirot Not-for-profit organization to prevent blindness
2007 - 2014	Claire and Amedee Maratier Institute for the study of visual disorders and blindness, scientific Board , Sheba Medical Center

2012 - 2016	Board Member , Israel Ophthalmology Society
2012 - 2017	Board Member , Israel Society for Vision and Eye Research
2012 - 2019	Research committee, North American Neuro-Ophthalmology Society (NANOS), International, NANOS
2012 - Present	Israeli Board Examination Stage A & B, for residents in Ophthalmology, examiner, Israel Medical association IMA
2012 - present	Editorial board, Frontier in Neuro Ophthalmology , International Editorial Board
2013 - 2018	Editorial board, Journal of Neuro Ophthalmology , International Editorial Board
2014 - 2016	Board Member, Academic committee of Baharab grant , Sheba Medical Center
2014 - 2016	Head, Neuro-Ophthalmology Society , Israel Ophthalmology Society
2014 - Present	Academic promotion advisory committee , Tel-Aviv University, Tel-Aviv
2015 - Present	Member, Grant Review Committees, Israel Scientific Foundation, Reviewer , Reviewer. Member, Grant Review Committees, ISF

## **10. MEMBERSHIP IN PROFESSIONAL SOCIETIES**

- AAPOS: American Association
- AAO: American Academy of Ophthalmology
- NANOS: North American Neuro-Ophthalmology Society (International Fellow)
- ARVO: the Association for Research in Vision and Ophthalmology
- INOS: International Neuro-Ophthalmology Society
- Israel Medical Association
- Israel Ophthalmologic Society (ILOS)
- Israel Neuro Ophthalmology Society
- Israel Pediatric Ophthalmology Society
- Israel Society for Vision and Eye Research
- Israel Society of Stem Cells
- ENOUS: European Neuro-Ophthalmology Society

## **11. AWARDS AND HONORS**

1987	Outstanding Award, Second Year Medical School , Sackler School of Medicine , Tel-Aviv University, Tel-Aviv
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- 1989 Outstanding Award, Fourth Year Medical School , Sackler School of Medicine , Tel-Aviv University, Tel-Aviv
- 1993 Magna Cum Laude, M.D. Degree , Sackler School of Medicine , Tel-Aviv University, Tel-Aviv
- 2002 Wilmer Research Award , Wilmer Eye Institute , Johns Hopkins University
- 2003 Excellent Lecturer , North American Neuro-Ophthalmology Society (NANOS) Resident/Fellow Award for the research entitled: “Defining the retinal and optic nerve response to anterior ischemic optic neuropathy (AION) using mouse model.”, NANOS
- 2006 Eldor- Metchner, Clinician Scientist Award , Chief Scientist , Ministry of Health, Israel
- 2007 Michaelson Travel Fellowship , Michaelson Fund , Michaelson Fund, Hadassah
- 2007 ARVO/Alcon Early Career Clinician Scientist Award , ARVO , ARVO
- 2012 Award for academic excellence , the institute for International scientific exchanges in medical science , Tel-Aviv University, Tel-Aviv

## **12. GRADUATE STUDENTS**

### **Completed MD Theses**

- 2007 Erez Dayan ,Laboratory work with mouse model,(**N. Goldenberg-Cohen**)
- 2007 Jordana Haber ,Long-Term Follow-up of Children with Parinaud Syndrome ,(N. **Goldenberg-Cohen**)
- 2007 Michael Savetzky ,PI3K/Akt pathway mutations in retinoblastoma ,(N. **Goldenberg-Cohen**)
- 2007 Nurit Assia ,Mutation analysis of the L-ferritin gene as the cause of age-related cataract ,(N. **Goldenberg-Cohen**)
- 2009 Tamar Goldstein ,The possible neuroprotective effect of roy pepetide ligation to membranal GRP78 in the ischemic retina ,(N. **Goldenberg-Cohen**)
- 2009 Yuval Turm ,Mutations analysis and copy number variation in BRAF oncogene in pediatric low-grade gliomas ,(N. **Goldenberg-Cohen**)
- 2011 Mark Vieyra ,Neuroprotective effect of intravitral injection of brimonidine to ischemic retinae ,(N. **Goldenberg-Cohen**)
- 2011 Tomm Caspi ,Possible neuroprotective effect on retinal damage induced by optic nerve crush in TLR-4 knock-out mice ,(N. **Goldenberg-Cohen**)
- 2015 Myles Brookman ,Histological evaluation of anti VEGF injection on diabetic retinopathy of non-obese diabetic (NOD) mice ,(N. **Goldenberg-Cohen**)
- 2016 Avi Ben Shabat ,Pediatic Horner Syndrome in neonates, infants and toddlers- diagnosis and evaluation needed ,(N. **Goldenberg-Cohen**)

- 2016 Geula Ben David ,Diabetes retinopathy in NOD transgenic mice (type 1) and Db/Db transgenic mice (type 2),(**N. Goldenberg-Cohen** )
- 2016 Maya Muhlbauer ,Associaiton between smell and seveirity of Idiopathic intracranial hypertension in children,(**N. Goldenberg-Cohen** Co-Supervisor with Prof R. Strausberg )
- 2018 Tal Sela ,Microbeads glaucoma model in mice,(**N. Goldenberg-Cohen** Co-Supervisor with Dr. A. Zahavi )

## Completed Basic Science Theses

- 2004 Maya Sherf , Plasma and Optic Nerve levels of IL-6, MIP-2 and TNF-? Following Induction of Ischemic Optic Neuropathy in Mice,(**N. Goldenberg-Cohen** )
- 2004 Gad Dotan , Increased Plasma and Optic Nerve Levels of IL-6, TNF-?, and MIP-2 Following Induction of Ischemic Optic Neuropathy in Mice,(**N. Goldenberg-Cohen** )
- 2005 Yonina Ron , Bone marrow stem cell incorporation in laser induced retinal damage ,( **N. Goldenberg-Cohen** )
- 2006 Dorina Chelles , Mutations analysis of lens DNA extracted from age-related cataract,( **N. Goldenberg-Cohen** )
- 2006 Ido Eldar , Effect of hyperbaric oxigen therapy on central artery occlusion in a mouse model ,( **N. Goldenberg-Cohen** )
- 2006 Irit Bahar , Characterization of central retinal artery occlusion in a mouse model,( **N. Goldenberg-Cohen** )
- 2007 Inbal Avisar , Therapeutic Effect of Subconjunctival and Intraocular Bevacizumab (Avastin) Injections in a Mouse Model of Corneal Neovascularization,(**N. Goldenberg-Cohen** )
- 2007 Tamilla Sadikov , Lamin A is not associated with age-related nuclear cataract,(**N. Goldenberg-Cohen** )
- 2008 Ehud Reich , Haptoglobin genotype does not affect early onset of type 2 diabetic retinopathy ,( **N. Goldenberg-Cohen** )
- 2008 Miriam Ehrenberg , Polymorphism in the WRN gene in patients with senile cataract,( **N. Goldenberg-Cohen** )
- 2008 Murat Hasanreisoglu , Characterizing progression of optic nerve damage in transgenic mice ,( **N. Goldenberg-Cohen** )
- 2008 Shir Hofstetter , Reducing Apoptosis in the Ischemic Retina Using Hyperbaric Oxygen Treatment in Tw Different Mouse Models,(**N. Goldenberg-Cohen** )
- 2009 David Ezrachi , Reducing Apoptosis in the Ischemic Retina Using Hyperbaric Oxygen Treatment in Two Different Mouse Models,(**N. Goldenberg-Cohen** )

- 2010 Yosi Laviv , BRAF mutations and copy number variations in low grade gliomas,(  
**N. Goldenberg-Cohen** )
- 2011 Adi Lifshitz , A model of corneal neovascularization in rabbits,(**N. Goldenberg-Cohen** Co-Supervisor with Prof. David Zadok )
- 2011 Cornelli Naser , The neuroprotective effect of Revatio injection on ischemic retina in models of optic neuropathy in mice ,(N. Goldenberg-Cohen )
- 2011 Denis Pushkov , Hyperbaric Oxygen Treatment for Stroke in Mice ,(N. Goldenberg-Cohen )
- 2012 Daniel Rappoport , Intraocular injection of avastin to mouse model of optic nerve crush,(  
**N. Goldenberg-Cohen** )
- 2013 Gilli Tessler , Role of genetics in the response to intraocular Avastin treatment of age related macular degeneration (AMD),(N. Goldenberg-Cohen )
- 2014 David Hazon , EGFR overexpression as a prognostic factor in Glioblastoma multiforme ,(N. Goldenberg-Cohen )
- 2014 Ivan Novitzky , Measureing Revatio (Viagra) effect on brain edema and perfusion in a mouse model of stroke,(N. Goldenberg-Cohen )
- 2015 Assaf Olshinka , Identifying the border of Cutaneous Squamous Cell Carcinoma by Targeted EGFR Antibodies Conjugated to Gold Nanoparticles,(N. Goldenberg-Cohen )
- 2015 Lea Alexander , Neuroprotection ,(N. Goldenberg-Cohen )
- 2015 Neelan Marianayagam , Novel method for early detection of pediatric brain tumor micrometastasis in cerebrospinal fluid ,(N. Goldenberg-Cohen )
- 2015 Orkun Muhsinoglu , Characterization of diabetic retinopathy in non obese diabetic (NOD) mouse model ,(N. Goldenberg-Cohen )
- 2016 Amir Sternfeld , Glaucoma model in mice ,(N. Goldenberg-Cohen )
- 2016 Emmanuelle Jornet , retinal changes in diabetic retina of mice ,(N. Goldenberg-Cohen )
- 2016 Gur Ben Yehuda , The SHH pathway in BCC resistant to biological therapy ,(N. Goldenberg-Cohen )
- 2016 Jeni Belenky , Stroke in children identified on imaging, and associated visual impairment ,(N. Goldenberg-Cohen )
- 2016 Julian Ayzman , retinal thickness in glaucoma model of mice ,(N. Goldenberg-Cohen )
- 2016 Lavina Cesareo , Induction glaucoma model in mice by intracameral injection of microspheres ,(N. Goldenberg-Cohen )
- 2017 Jawad abudbai , Search for candidate genes for proliferative diabetic retinopathy ,(N. Goldenberg-Cohen )
- 2017 Ofira Zloto , Azithromycin as a possible neuroprotective drug following optic nerve crush induction in mice ,(N. Goldenberg-Cohen )
- 2018 Dana Baxter , Immunohistochemistry of eye sections from mice ,(N. Goldenberg-Cohen )

- 2018 Jennifer Shatsky , Induction glaucoma model in mice by intracameral injection of microspheres,(**N. Goldenberg-Cohen** )
- 2018 Shihab Nassar , preoperative biometry and postoperative refractive outcome after cataract surgery,(**N. Goldenberg-Cohen** )
- 2019 Astrid Ilguisonis , Neuroprotection in Glaucoma model of Mice,(**N. Goldenberg-Cohen** )
- 2022 Muhammad Mansour , Gene expression levels of immunocompetent individuals with cutaneous squamous cell carcinomas in comparison to immunocompromised organ transplant recipients,(**N. Goldenberg-Cohen** )

## Completed MSc Theses

- 2007 Bat Chen Avraham , Repair of Optic Nerve Ischemic Injury in the Mouse by Bone Marrow Derived Stem Cells,(**N. Goldenberg-Cohen** )
- 2008 Efrat Shoham-Merhavi , Promoter Methylation Status of Multiple Genes in Uveal Melanoma,(**N. Goldenberg-Cohen** )
- 2008 Olga Dratviman-Storobinsky , Therapeutic Effect of Subconjunctival and Intraocular Bevacizumab (Avastin) Injections in a Mouse Model of Corneal Neovascularization,(**N. Goldenberg-Cohen** )
- 2008 Shimrit Dadon , Molecular Changes In The Mouse Retina Following Induction of Central Retinal Artery Occlusion,(**N. Goldenberg-Cohen** )
- 2010 Tamilla Sadikov , Adult bone marrow-derived stem cells incorporate in the developing retina,(**N. Goldenberg-Cohen** )
- 2010 Vera Gaydar , Reducing Apoptosis in the Ischemic Retina Using Hyperbaric Oxygen Treatment in Two Different Mouse Models,(**N. Goldenberg-Cohen** )
- 2016 Dana Morzaev , TLR4 knock-out mice are resistant to optic nerve crush damage ,( **N. Goldenberg-Cohen** )
- 2016 Moshe Ben Hemou , Clinical histological and molecular characterization of retinae from diabetic mice as a model to vascular repair by bone marrow derived stem cells,( **N. Goldenberg-Cohen** )
- 2016 Orit Barinfeld , Molecular analysis of brain low grade gliomas,(**N. Goldenberg-Cohen** )
- 2017 Moran Friedman , Lack of TNF receptors in mouse model of optic nerve crush might have a neuroprotective role,(**N. Goldenberg-Cohen** )
- 2017 Tamar Azrad-Lebovitz , Clinical, histological, optical and molecular characteristics of retinal vessels in type II diabetic mice as compared to type I,(**N. Goldenberg-Cohen** )

## Completed PhD Thesis



- 2012 Bat Chen Revital Avraham Lubin , The Potential Therapeutic Effect of Bone Marrow Derived Stem Cells In Ischemic Optic Neuropathy ,(N. **Goldenberg-Cohen** )
- 2015 James Nicholson, Post doc position , Matrix metalloproteinases (MMPs) as drug targets regulating progenitor cell penetration into damaged optic nerve ,(N. **Goldenberg-Cohen** )
- 2019 Shirel Weiss , Multigene amplification and massively parallel sequencing for mutation discovery in genes causing blindness ,(N. **Goldenberg-Cohen** )
- 2019 Sivan Gershanov , Novel methods for the detection of occult metastatic disease in the CSF of children with medulloblastoma ,(N. **Goldenberg-Cohen** Co-Supervisor with Mali Salmon-Divon )

### **MD Theses in Progress**

- 2021 - 2023 Mohamad Darawshe, Calcium levels in tears of patients with Nasolacrimal duct stenosis Vs healthy subjects, Technion ,(N. **Goldenberg-Cohen** Co-Supervisor with Y. Vardizer )
- 2021 - 2023 Tal Zobok, Change in the levels of trace elements in tears of athletes using mineral supplements, Hadassah Hebrew University ,(N. **Goldenberg-Cohen** Co-Supervisor with O. Girshevitz )
- 2022 - 2023 Leem Khuri, Documentation of optic disc appearance . Comparison between optical coherent tomography vs fundus photos ,(N. **Goldenberg-Cohen** )

### **Basic Science Theses in Progress**

- 2021 - 2022 Yulia Sheinfeld, Ophthalmology, Vitamin and mineral status in tears of athletes using mineral supplements ,(N. **Goldenberg-Cohen** )
- 2022 - 2022 Jawad Massalha, Severe Optic neuritis induced by systemic cobalt intoxication ,(N. **Goldenberg-Cohen** )
- 2022 - 2022 Sari Hadari, The contribution of fundus photos to accurate diagnosis of patients with headaches at the ER ,(N. **Goldenberg-Cohen** )

### **MSc Theses in Progress**

### **PhD Theses in Progress**

- 2020 - 2024 Stephen Richard, Post Doc, Technion, optic nerve ischemia and neuroprotection Using mouse model ,(N. **Goldenberg-Cohen** )
- 2022 - 2025 Basil Obied, Development of multimodal imaging of cobalt trace elements in mouse retina in association with mouse retinal toxicity ,(N. **Goldenberg-Cohen** )

## **13. FORMER TRAINEES AT KEY POSITIONS**

1. Bat Chen Avraham Lubin, PhD , 10 , Head of research laboratory , Eastern R&D center, Samaria and the Jordan Rift regional R&D Center
2. Shirel Weiss, PhD , 5 , Senior, Bioinformatics analysis, Variantyx, USA
3. Olga Dratviman-Storobinsky , 5 , Clinical Embryologist, Sheba, Tel Hashomer
4. Efrat Merhavi-Shoham , 3 , Ella Lemelbaum Institute for Immuno-Oncology
5. Shimrit Bar-El Dadon , 3 , Head of reserach group, The Robert H. Smith Faculty of Agriculture, Food and Environment, HUJI
6. Sivan Gershanov , 4 , Postdoctoral Fellow Sick Kids Hospital, Canada

## 14. RESEARCH GRANTS

### **Competitive**

- |             |   |
|-------------|---|
| 2000 - 2001 | Gothulf Fund, Tel Aviv University, Israel, Inflammatory reaction in acute retinal artery occlusion. Cytokines levels in aqueous humor and serum, 3,000 USD , <b>Nitza Goldenberg-Cohen</b> (CO)   |
| 2003 - 2019 | The Krieger Eye Research Laboratory, Zanvyl and Isabelle Krieger Fund, Ischemic optic neuropathy model in mice. Neuroprotection, stem cells and mechanism of diseases, 50,000year USD , <b>Nitza Goldenberg-Cohen</b> (PI)  |
| 2004 - 2005 | Schreiber Fund, Tel Aviv University, Identifying oncogenic BRAF mutations in conjunctival melanocytic lesions, 4,667 USD , <b>Nitza Goldenberg-Cohen</b> (PI)   |
| 2004 - 2005 | The Claire and Amedee Maratier Institute for the study of visual disorders and blindness, Tel Aviv University, Integration of bone marrow-derived stem cells in the retina in a murine model of ischemic optic neuropathy, 3,000 USD , <b>Nitza Goldenberg-Cohen</b> (PI) |
| 2004 - 2006 | Adams Super Center for Brain research, Tel Aviv University, Integration of bone marrow-derived stem cells in the retina, 31,430 NIS , <b>Nitza Goldenberg-Cohen</b> (PI)  |
| 2005 - 2006 | The Claire and Amedee Maratier Institute for the study of visual disorders and blindness. Tel Aviv University, Mutation analysis of lens DNA from congenital and age related cataract, 8,740 NIS , <b>Nitza Goldenberg-Cohen</b> (PI)                                     |
| 2006 - 2008 | Adams Super Center for Brain research, Tel Aviv University, The Role of Adult Bone Marrow Derived Stem Cells in Retinal Repair Following Ischemic Optic Neuropathy, 23,550 NIS , <b>Nitza Goldenberg-Cohen</b> (PI)   |
| 2006 - 2008 | Walter Friendliest and Herman Shaudder, Tel Aviv University, Incorporation of BMSC into laser treated retina, 43,300 NIS , <b>Nitza Goldenberg-Cohen</b> (CO)   |
| 2007 - 2009 | Cancer Biology Research Center of Tel Aviv University, The role of RASSF1A tumor suppressor gene in uveal melanoma tumorigenesis, 57,460 NIS , <b>Nitza Goldenberg-Cohen</b> (CO)   |

- 2007 - 2009 Fogelnest and Globinsky, Tel Aviv University, Large scale analysis of polymorphism in genes regulating vascular endothelial function in eye diseases causing blindness to identify risk factors for disease progression and outcome, 40,000 NIS , **Nitza Goldenberg-Cohen (PI)**
- 2007 - 2009 The Claire and Amedee Maratier Institute for the study of visual disorders and blindness. Tel Aviv University, Enhanced Incorporation and Differentiation of Bone Marrow Derived Stem Cell in Ischemic Retina, 30,000 NIS , **Nitza Goldenberg-Cohen (CO)**
- 2007 - 2010 Eldor-Metzner Fund, Chief Scientist, Ministry of Health, Repair of ischemic retina using bone marrow derived stem cells, 70,000 USD , **Nitza Goldenberg-Cohen (PI)**
- 2008 - 2009 North American Neuro-Ophthalmology Society Pilot Research Grant Proposal (NANOS), Intraocular Injection of Growth Factors to Enhance Differentiation of Bone Marrow Derived Stem Cells Following Ischemic Injury, 25,000 USD , **Nitza Goldenberg-Cohen (PI)**
- 2008 - 2009 The Claire and Amedee Maratier Institute for the study of visual disorders and blindness, Tel Aviv University, Analysis of polymorphism in the WRN gene in patients with senile cataract, 18,000 NIS , **Nitza Goldenberg-Cohen (PI)**
- 2008 - 2011 Ministry of health, Chief scientist office, Intravitreal injection of adult bone marrow derived stem cells to developing retina of newborn mice, 300,000 NIS , **Nitza Goldenberg-Cohen (PI)**, Askenasy N (co –PI) (PI)
- 2008 - 2012 Israel Science Foundation (ISF), Repair of retinal injury using stem cells derived from the adult bone marrow, 175,000yr. NIS , **Nitza Goldenberg-Cohen (PI)**, Askenasy N (co-PI) (PI)
- 2010 - 2011 The Claire and Amedee Maratier Institute for the study of visual disorders and blindness, Tel Aviv University, Intravitreal injection of BMSC to neonates eyes, 12,000 NIS , **Nitza Goldenberg-Cohen (PI)**
- 2012 - 2016 Israel Science Foundation (ISF), Mobilization and Growth Factors Affect Homing and the Differentiation of Adult Bone Marrow Derived Stem Cells in Injured and Developing Retina., 193,500/yr NIS , **Nitza Goldenberg-Cohen (PI)**
- 2013 - 2015 The Israeli Cancer Association (ICA), Genetic characterization of brain tumors to improve detection of minimal-residual disease in children., 75,000/yr NIS , **Nitza Goldenberg-Cohen (PI)**
- 2014 - 2016 Foundation Fighting Blindness (and Lirot association), Mapping Inherited Retinal Degenerative Diseases (RDD) in the Israeli Population, 16,000 USD , **Nitza Goldenberg-Cohen (Site PI)**
- 2015 - 2015 Gassner Foundation, Tel Aviv University, Early identification of metastatic cells in pediatric cerebrospinal fluid with brain tumor medulloblastoma, 10000 USD , **Nitza Goldenberg-Cohen (PI)**, Fixler D.(co PI) (PI)

2015 - 2017	D-cure, The Israeli Ministry of Health, Clinical, histological, optical and molecular characteristics of retinal vessels in type II diabetic mice as compared to type I, 150,000 NIS , <b>Nitza Goldenberg-Cohen</b> (PI)
2015 - 2017	The Claire and Amedee Maratier Institute for the study of visual disorders and blindness, Tel Aviv University, Absence of TNFR1/2 alpha might improve resistance of retinal ganglion cells to optic nerve crush damage in a transgenic mouse model, 35,000 NIS , <b>Nitza Goldenberg-Cohen</b> (PI), Fridman M (co-PI) (PI)
2015 - present	Foundation Fighting Blindness FFB and Lirot, MOH 2017 Mapping Inherited Retinal Degenerative Diseases (RDD) in the Israeli Population, 300000 USD, <b>Nitza Goldenberg-Cohen</b> (Site PI)
2019 - 2022	neuroprotective effect of plant fraction, Ministry of Science and technology, 250,000 NIS , <b>Nitza Goldenberg-Cohen</b> ( ), Avraham- Lubin BC (PI) ( )
2020 - 2021	Rapaport Fund, Neurodegeneration caused by accumulation of metallic elements in the brain, 70,000 NIS , <b>Nitza Goldenberg-Cohen</b> (PI)
2020 - 2022	Sisenwein Fund, Technion, Trace elements in cataracts of healthy and diabetic humans and mice, and the effect of severe ocular ischemia on the elements' level., 50,000 USD , <b>Nitza Goldenberg-Cohen</b> (PI)
2020 - present	Israel Science Foundation (ISF), Development of multimodal imaging of trace elements in tissues, 270,000/yr NIS , <b>Nitza Goldenberg-Cohen</b> (PI)
2022 - present	Ministry of Health 3000018550, Early diagnose of Wilson disease according analysis of Copper level in tears by Particle Induced X-ray Emission (PIXE), 25000 NIS , <b>Nitza Goldenberg-Cohen</b> (PI)

## **Industrial**

### **15. PUBLICATIONS**

#### **15.1 Theses**

1. **Goldenberg-Cohen N** (1991) "Polycythemia vera – long term follow up" Supervised by O. Shpilberg, B. Modan, A. Shitrit, B. Ramot. Tel Aviv University.

#### **15.2 Refereed papers in professional journals**

##### **Published papers**

##### **Accepted (or in press) papers**

##### **Submitted papers**

## Basic research

1. Cohen Y, **Goldenberg-Cohen N**, Parrella P, Chowers I, Merbs SL, Pe'er J, Sidransky D. (Equal contribution) Lack of BRAF mutation in primary uveal melanoma. *Invest Ophthalmol Vis Sci*. 2003 Jul;44(7):2876-8.
2. **Goldenberg-Cohen N**, Guo Y, Margolis F, Cohen Y, Miller NR, Bernstein SL. Oligodendrocyte dysfunction after induction of experimental anterior optic nerve ischemia. *Invest Ophthalmol Vis Sci*. 2005 Aug;46(8):2716-25.
3. **Goldenberg-Cohen N**, Cohen Y, Rosenbaum E, Herscovici Z, Chowers I, Weinberger D, Pe'er J, Sidransky D. T1799A BRAF mutations in conjunctival melanocytic lesions. *Invest Ophthalmol Vis Sci*. 2005 Sep;46(9):3027-30. #Equal contribution
4. Kramer M, **Goldenberg-Cohen N**, Axer-Siegel R, Weinberger D, Cohen Y, Monselise Y. Inflammatory reaction in acute retinal artery occlusion: cytokine levels in aqueous humor and serum. *Ocul Immunol Inflamm*. 2005 Jul-Aug;13(4):305-10.
5. Merhavi E, Cohen Y, Avraham BC, Frenkel S, Chowers I, Pe'er J, **Goldenberg-Cohen N**. Promoter methylation status of multiple genes in uveal melanoma. *Invest Ophthalmol Vis Sci*. 2007 Oct;48(10):4403-6.
6. Cohen Y, Merhavi-Shoham E, Avraham RB, Frenkel S, Pe'er J, **Goldenberg-Cohen N**. Hypermethylation of CpG island loci of multiple tumor suppressor genes in retinoblastoma. *Exp Eye Res*. 2008 Feb;86(2):201-6.
7. Avraham BC, Dotan G, Hasanreisoglu M, Kramer M, Monselise Y, Cohen Y, Weinberger D, **Goldenberg-Cohen N** Increased plasma and optic nerve levels of IL-6, TNF-alpha, and MIP-2 following induction of ischemic optic neuropathy in mice. *Curr Eye Res*. 2008 Apr;33(4):395-401.
8. **Goldenberg-Cohen N**, Dadon S, Avraham BC, Kramer M, Hasanreisoglu M, Eldar I, Weinberger D, Bahar I. Molecular and histological changes following central retinal artery occlusion in a mouse model. *Exp Eye Res*. 2008 Oct;87(4):327-33.
9. Chowers I, Cohen Y, **Goldenberg-Cohen N**, Vicuna-Kojchen J, Lichtinger A, Weinstein O, Pollack A, Axer-Siegel R, Hemo I, Averbukh E, Banin E, Meir T, Lederman M. Association of complement factor H Y402H polymorphism with phenotype of neovascular age related macular degeneration in Israel. *Mol Vis*. 2008;14:1829-34.
10. Dratviman-Storobinsky O, Hasanreisoglu M, Offen D, Barhum Y, Weinberger D, **Goldenberg-Cohen N** Progressive damage along the optic nerve following induction of crush injury or rodent anterior ischemic optic neuropathy in transgenic mice. *Mol Vis*. 2008;14:2171-9.
11. Chowers I, Meir T, Lederman M, **Goldenberg-Cohen N**, Cohen Y, Banin E, Averbukh E, Hemo I, Pollack A, Axer-Siegel R, Weinstein O, Hoh J, Zack DJ, Galbinur T. Sequence variants in HTRA1 and LOC387715/ARMS2 and phenotype and response to photodynamic therapy in neovascular age-related macular degeneration in populations from Israel. *Mol Vis*. 2008;14:2263-71.
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41. Zahavi A, Gutkovich E, Man-Peles I, Tomkins-Netzer O, Borisovsky N, Bejar J, **Goldenberg-Cohen N**, Vardizer Y. The Management of Congenital Microphthalmia with Orbital Cyst: A Case Series. *J Pediatr Ophthalmol Strabismus*. 2022 May-Jun;59(3):192-199. doi: 10.3928/01913913-20210929-01. (PEDIATRICS, Q4, IF 1.330)
42. Cohen-Sinai N, Man-Peles I, Zahavi A, Luckman J, **Goldenberg-Cohen N**. Simplifying the diagnosis of optic tract lesions. *Front Med (Lausanne)*. 2022 Oct 25;9:1029829. doi: 10.3389/fmed.2022.1029829. PMID: 36388882; PMCID: PMC9642808

## Case reports

### CLINICAL

1. Cohen Y, **Goldenberg-Cohen N**, Kasis S, Shpilberg D, Oren M. [Primary breast lymphoma]. *Harefuah*. 1993 Jul;125(1-2):24-6, 63.
2. Katz Y, **Goldenberg-Cohen N**, Kivity S. Localized periorbital edema induced by aspirin. *Allergy*. 1993 Jul;48(5):366-9.
3. **Goldenberg-Cohen N**, Naftaliev E, Millmond SH, Segev Y, Reider-Groswasser I. Ophthalmic artery calcification in a patient with renal failure. *Neuroradiology*. 2001 Nov;43(11):1005-6.
4. **Goldenberg-Cohen N**, Miller NR. Noninvasive neuroimaging of basilar artery dolichoectasia in a patient with an isolated abducens nerve paresis. *Am J Ophthalmol*. 2004 Feb;137(2):365-7.
5. Berestizshevsky S, **Goldenberg-Cohen N**, Friling R, Weinberger D, Snir M. Ocular injury in children from exploding microwaved eggs. *Am J Ophthalmol*. 2005 Apr;139(4):718-9.
6. Cleper R, **Goldenberg-Cohen N**, Kornreich L, Krause I, Davidovits M. Neurologic and ophthalmologic complications of vascular access in a hemodialysis patient. *Pediatr Nephrol*. 2007 Sep;22(9):1377-82.
7. Cohen L, Tzur S, **Goldenberg-Cohen N**, Bormans C, Behar DM, Reinstein E. Exome sequencing identifies a novel de-novo OPA1 mutation in a highly consanguineous family presenting with optic atrophy. *Genet Res (Camb)*. 2016 Jun 6;98:e10. doi: 10.1017/S0016672316000070.

8. Weiss S, Bazak L, Ehrenberg M, Straussberg R, **Goldenberg-Cohen N**. Blue Cone Monochromacy Causes Deterioration in Visual Acuity and Color Vision in a Boy. *Journal of Pediatric Neurology and Medicine*. 2016 Apr, *J Pediatr Neurol Med* 1:111. doi:10.4172/jpnm.1000111
9. Vardizer Y, Shamaly S, Raveh D, Shamir D, Borisovsky N, Man-Peles I, **Goldenberg-Cohen N**. Dental implant causing lateral rectus muscle traumatic laceration. *Clin Exp Vis Eye Res J* 2019;2(1):45-48.(No IF)
10. Herscu K, Cohen R, Man-Peles I, Michowiz S, **Goldenberg-Cohen N**. Retinal hamartomas respond to everolimus treatment for tuberous sclerosis: A case report. *Clin Exp Vis Eye Res J* 2019;2(1):52-54. (photoassay)(No IF)
11. **Goldenberg-Cohen N**, Man-Peles I, Borisovsky N. Incidental findings of multiple air emboli in the brain and orbit. *Clinical and Experimental Vision and Eye Research J* 202: 3(1): 48-49. (No IF)

## Review papers

1. **Goldenberg-Cohen N**, Avraham RB, Weinberger D. Applications of stem cells in the eye. *Medicine/Ophthalmology*. 2007;(2).
2. **Goldenberg-Cohen N**, Leiba H. Perioperative visual loss. *Medicine/Ophthalmology*. 2008 Apr;(5).
3. Sadikov T, Avraham-Lubin BR, **Goldenberg-Cohen N**. Stem cells to the eye. *Medicine/Ophthalmology*. 2011 Jan.
4. Leiba H, **Goldenberg-Cohen N**. [Animal models to better understanding optic nerve ischemia]. *Eye Update*. 2013 Dec;21:26-30.
5. **Goldenberg-Cohen N**. [Contact lens to amblyopia]. *Eye Optic*. 2013;10-6.
6. Nicholson JD, Leiba H, **Goldenberg-Cohen N**. Translational Preclinical Research may Lead to Improved Medical Management of Non-Arteritic Anterior Ischemic Optic Neuropathy. *Front Neurol*. 2014 Jul 11;5:122.
7. Aharony I, Michowiz S, **Goldenberg-Cohen N** (2017) The promise of stem cell-based therapeutics in ophthalmology. *Neural Regen Res* 12(0):000
8. Sharon D, Ben-Yosef T, Pras E, **Goldenberg-Cohen N**, Gradstein L, Shomron N, Birk O, Ehrenberg M, Levy J, Mezer E, Soudry S, Rotenstreich Y, Newman H, Leibur R, Banin E, Perlman I. [The Israeli inherited retinal diseases consortium (iirdc)- clinical-genetic mapping and future perspectives]. *Harefuah*. 2019 Feb;158(2):91-95. Hebrew. PubMed PMID: 30779484.
9. **Goldenberg-Cohen N** [anisometropia, Preferring the wrong eye]. *Eye Optic* 2019

## 15.3 Books

### Monographs and textbooks

### Edited Books

## 15.4 Book chapters

1. **Goldenberg-Cohen N**. Haptoglobin Genotype and Diabetic Retinopathy Handbook of Nutrition, Diet, and the Eye, Chapter 55, page 543

- Editor; V. Preedy. Elsevier. 2014 1st edition. 704 pages.DOI: 10.1016/b978-0-12-401717-7.00055-1.
- 2.Zloto A.O., Borissovsy N., Luckman J., **Goldenberg-Cohen N.** (2021) Intrinsic and Extrinsic Etiologies of Optic Nerve Damage. In: Ben Simon G., Greenberg G., Prat D. (eds) Atlas of Orbital Imaging. Springer, Cham. [https://doi.org/10.1007/978-3-030-41927-1\\_114-1](https://doi.org/10.1007/978-3-030-41927-1_114-1)
- 3.Fundamentals of Pediatric Neuro-ophthalmology (Springer). A Zahavi, H Toledano, **N Goldenberg-Cohen.** Malignant infiltration of the optic nerves in pediatric patient.Pediatric Neuro-Ophthalmology. In Press Springer.
- 4.Zahavi A, Toledano H, Cohen R, Sella S, Luckman J, Michowiz S and **Goldenberg-Cohen N** Use of Optical Coherence Tomography to Detect Retinal Nerve Fiber Loss in Children with Optic Pathway Glioma Prime archives in neuroscience, first edition, Vide Leaf, ISBN: 978-93-90014-30-9 . Editor: Jose Fernando Maya-Vetencourt. Categories: Healthcare, Life Science, Medicine

## 15.5 Letters to the Editor

## 15.6 Refereed papers in conference proceedings

1. Yahav G, Fixler D, Gershanov S, **Goldenberg-Cohen N.** , A novel method for sensing metastatic cells in the CSF of pediatric population with medulloblastoma by frequency domain FLIM system, Proc. SPIE 9721, Nanoscale Imaging, Sensing, and Actuation for Biomedical Applications XIII, 97210T (22 April 2016); <https://doi.org/10.1117/12.2208014>
2. Yahav G, Gershanov S., Salmon-Divon M., Ben-Zvi H., Mircus G., **Goldenberg-Cohen N.**, Fixler D.Frequency domain fluorescence lifetime imaging microscopy system for detecting inflammatory cells, Proc. SPIE 10506, Nanoscale Imaging, Sensing, and Actuation for Biomedical Applications XV, 1050619 (20 February 2018); <https://doi.org/10.1117/12.2288220>

## 15.7 Patents (granted)

## 15.8 Other publications

## 16. CONFERENCES

### 16.1 Plenary, keynote or invited talks

#### International

1. **N. Goldenberg-Cohen**, Experimental ischemic optic neuropathy, International Neuro Ophthalmology Society (INOS), France, 2010. (Invited Talk)
2. **N. Goldenberg-Cohen**, B-raf mutation in conjunctival melanoma: implication for targeted therapy, The Association for Research in Vision and Ophthalmology (ARVO), USA, 2012. (Invited Talk)

3. **N. Goldenberg-Cohen**, New horizons in the treatment of optic gliomas, The international symposium on ocular pharmacology and therapeutics ISOPT, Germany, 2015. (Invited Talk)
4. **N. Goldenberg-Cohen**, Phosphodiesterase 5 inhibition- Optic nerve erection without neuroprotection , The international symposium on ocular pharmacology and therapeutics, (ISOPT), Germany, 2015. (Invited Talk)
5. **N. Goldenberg-Cohen**, Stem cells therapy to anterior ischemic optic neuropathy, The international symposium on ocular pharmacology and therapeutics, (ISOPT), Italy, 2016. (Invited Talk)
6. **N. Goldenberg-Cohen**, New treatment in Glioma, 3rd world congress of pediatric ophthalmology and strabismus (WSPOS), India, 2017. (Invited Talk)
7. **N. Goldenberg-Cohen**, Review literature on optic nerve and ganglion cell loss, NANOS, USA, 2018. (Invited Talk)
8. **N. Goldenberg-Cohen**, When to image 6th nerve palsy, Neurology Neurophysiology, Israel, 2019. (Invited Talk)
9. **N. Goldenberg-Cohen**, Microsurgery of the eye, Trick or Treat, Israel, January 20. (Invited Talk)
10. **N. Goldenberg-Cohen**, NeuroForum, Neuroscience and brain disorder forum, Neurology and neuroscience (Future), United Kingdom, March 2023. (Keynote)

## **National**

1. **N. Goldenberg-Cohen**, experimental optic neuropathies, The Institute for International Scientific Exchanges in Medical Sciences, Israel, 2012. (Invited Talk)
2. **N. Goldenberg-Cohen**, Inovations in pediatric ophthalmology, Israel ophthalmology society, Israel, 2017. (Invited Talk)
3. **N. Goldenberg-Cohen**, New treatments in strabismus, ocular microsurgery, Israel, 2017. (Invited Talk)
4. **N. Goldenberg-Cohen**, difficult cases in neuroophthalmology, The 5th national conference for residents in ophthalmology, Hirshberg family, Israel, 2017. (Invited Talk)
5. **N. Goldenberg-Cohen**, 2018 Controversy in neuroophthaomology 6 cnp , Sorasky Medical Center, Israel, 2018. (Invited Talk)
6. **N. Goldenberg-Cohen**, New treatments in Neuroophthalmology Microsurgery, ocular microsurgery , Israel, 2018. (Invited Talk)
7. **N. Goldenberg-Cohen**, Wrong eye preference in children with anisometropia, Johnson and Johnson optometric annual conference, Israel, 2018. (Invited Talk)
8. **N. Goldenberg-Cohen**, Neuroophthalmology cases, Continous studies, Ophthalmology, Technion, Israel, 2019. (Invited Talk)
9. **N. Goldenberg-Cohen**, New horizons in treatment of optic pathway gliomas . The role of new molecular markers, ocular microsurgery, Israel, 2019. (Invited Talk)



10. **N. Goldenberg-Cohen**, Vertical diplopia, Orthoptic Course, Israel, 2019. (Invited Talk)
11. **N. Goldenberg-Cohen**, discussion of cases in pediatric and strabismus, The 6th national conference for residents in ophthalmology, Hirshberg family, Israel, 2019. (Invited Talk)
12. **N. Goldenberg-Cohen**, The dark side of strabismus, The 8th annual congress of the Israeli Ophthalmology Society, Israel, 2021. (Invited Talk)
13. **N. Goldenberg-Cohen**, Moderator, ISVER- Israel Society for Vision and Eye Research, Israel, 2022. (Other)
14. **N. Goldenberg-Cohen**, Moderator, JOIN2022- joint conference in uveitis and neuroophthalmology, Israel, 2022. (Other)
15. **N. Goldenberg-Cohen**, Moderator, Panel discussion, A case of swollen disc- MWS, Israel, 2022. (Other)
16. **N. Goldenberg-Cohen**, Moderator, Pediatric NeuroOphthalmology cases, Continuous studies in Ophthalmology, TAU, Israel, 2022. (Other)
17. **N. Goldenberg-Cohen**, Moderator, Pediatric session, The Joint Conference in Uveitis and Neuro - Ophthalmology, Israel, 2022. (Other)
18. **N. Goldenberg-Cohen**, Pediatric tutorial for residents, Hirshberg conference for residents in Jerusalem, Israel, 2022. (Invited Talk)
19. **N. Goldenberg-Cohen**, Thyroid eye disease-Tepezza trick or surgical treat, ocular microsurgery (postponed), Israel, 2022. (Invited Talk)
20. **N. Goldenberg-Cohen**, Moderator Idebene for all join2023, the Joint Conference in Uveitis and Neuro -Ophthalmology, Israel, 2023. (Invited Talk)
21. **N. Goldenberg-Cohen**, Rotated Strabismus, annual meeting in optometry, Israel, 2023. (Invited Talk)
22. **N. Goldenberg-Cohen**, Trick or Treat for TED, ocular microsurgery Eilat, Israel, 2023. (Invited Talk)
23. **N. Goldenberg-Cohen**, complicated strabismus, Continuous Education, Technion, Israel, 2023. (Invited Talk)

## **16.2 Contributed Talks and Posters**

### **International Oral**

1. **N. Goldenberg-Cohen**, N.R. Miller, S.L. Bernstein, Defining the retinal and optic nerve response to anterior ischemic optic neuropathy in a mouse model, North American Neuro-Ophthalmology Society (NANOS), USA. 02-2003 .
2. **N. Goldenberg-Cohen**, N.R. Miller, M.X. Repka, Traumatic optic neuropathy in the pediatric group, American Association for Pediatric Ophthalmology and Strabismus (AAPOS), USA. 03-2003 .

3. **N. Goldenberg-Cohen**, S.L. Bernstein, N.R. Miller, Oligodendrocytes dysfunction is an early event following induction of ischemic optic neuropathy, Wilmer Resident Award, USA. 04-2003 .
4. **D. Weinberger**, Y. Ron, **N. Goldenberg-Cohen**, Intravitreal injection of bone marrow derived stem cells after laser treatment to central retina, Macula Society, USA. 02-2006 .
5. **N. Goldenberg-Cohen**, B.R. Avraham, D. Weinberger, Repair of optic nerve ischemic injury in the mouse by bone marrow derived stem cells, North American Neuro-Ophthalmology Society (NANOS), USA. 02-2006 .
6. **N. Goldenberg-Cohen**, B.R. Avraham, D. Weinberger, In situ differentiation of bone marrow derived stem cells in ischemic retina, Michaelson Club, 9th Michaelson Symposium, USA. 05-2007 .
7. **N. Goldenberg-Cohen**, B.R. Avraham, D. Weinberger, Mobilization of bone marrow cells by GM-CSF impairs incorporation and differentiation in the ischemic retina, North American Neuro-Ophthalmology Society (NANOS), USA. 03-2008 .
8. **I. Avisar**, O. Dratviman, I. Kramer, D. Weinberger, **N. Goldenberg-Cohen**, Therapeutic effect of subconjunctival and intraocular bevacizumab (avastin) injections in a mouse model of corneal neovascularization, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2008 .
9. **N. Goldenberg-Cohen**, B.R. Avraham-Lubin, N. Askenasy, Enhanced neuronal differentiation of bone marrow derived stem cells in a mouse model of ischemic optic neuropathy, North American Neuro-Ophthalmology Society (NANOS), USA. 03-2010 .
10. **D. Rappoport**, D. Morzaev, S. Weiss, M. Vieyra, H. Leiba, **N. Goldenberg-Cohen**, Intravitreal injection of bevacizumab may be neuroprotective in a mouse model of optic nerve crush, North American Neuro-Ophthalmology Society (NANOS), USA. 02-2013 .
11. **D. Sharon**, T. Ben-Yosef, **N. Goldenberg-Cohen**, L. Gradstein, E. Pras, A. Abbasi, N. Shomron , E. Mezer, M. Ehrenberg , S. Zayit-Soudry, H. Newman , R. Leibur , Y. Rotenstreich, H. Levy, E. Banin, I. Perlman., The Israeli Inherited Retinal Diseases Consortium (IIRDC): Mapping Inherited Retinal Diseases in the Israeli Population, The Association for Research in Vision and Ophthalmology (ARVO) , USA. 05-2017 .
12. **N. Goldenberg-Cohen**, Literature Relevant to Optic Nerve and Retinal Ganglion Cells, Neuro-Ophthalmology Society (NANOS), USA. 02-2018 .
13. **N. Goldenberg-Cohen**, When to Image 6CN palsy, . The 15th annual update conference on neurology and clinical neurophysiology, Israel. 02-2019 .

## **International Poster**

1. **M. Muhlbauer-Avni**, N. Yosha-Orpaz, O. Konen, **N. Goldenberg-Cohen**, R. Straussberg, Assessment of the association between pediatric Idiopathic Intracranial Hypertension and olfactory function, International Child Neurology Congress (ICNC), India

2. N. Loya, H. Lichter, D. Barash, **N. Goldenberg-Cohen**, L. Mutzmacher, Y. Yassur, D. Weinberger, Ultrasonic biomicroscopy study of PC IOL following posterior capsule rupture during ECCE. , European Society of Cataract and Refractive Surgeons, France. 09-1998 .
3. R. Axer-Siegal, **N. Goldenberg-Cohen**, M. Snir, D. Weinberger, Posttraumatic endophthalmitis, Trauma Conference, Canada. 07-2000 .
4. **N. Goldenberg-Cohen**, M. Kramer, Y. Monselise, D. Weinberger, Serum C-reactive protein in patients with retinal artery occlusion, The Association for Research in Vision and Ophthalmology (ARVO), USA. 04-2001 .
5. M. Kramer,**N. Goldenberg-Cohen**, D. Weinberger, Y. Monselise, Cytokines in serum and aqueous humor in patients with retinal artery occlusion, The Association for Research in Vision and Ophthalmology (ARVO), USA. 07-2001 .
6. **N. Goldenberg-Cohen**, F. Margolis, N.R. Miller, S.L. Bernstein, Functional changes in a mouse model of anterior ischemic optic neuropathy, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2002 .
7. D.L. Guyton, M. Bazemore, **N. Goldenberg-Cohen**, D.F. Klink, K. Tarczy- Hornoch, Advances in adjustable suture techniques for strabismus surgery, Wilmer Resident Award, USA. 04-2003 .
8. **N. Goldenberg-Cohen**, F. Margolis, Y. Guo, N.R. Miller, S.L. Bernstein, Anterior ischemic optic neuropathy alters RGC and oligodendrocyte function., the Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2003 .
9. C. Curry, **N. Goldenberg-Cohen**, N.R. Miller, R. Tamargo, K. Murphy, Cavernous sinus aneurysm (CCA): A long-term follow-up, American Association of Ophthalmology (AAO), USA. 11-2003 .
10. **N. Goldenberg-Cohen**, Y. Cohen, E. Rosenbaum, Z. Hershkovich, I. Chowers , J. Pe'er, D. Weinberger, D. Sidransky, Detection of genetic alterations in the BRAF oncogene among different melanocytic lesions of the conjunctiva, XI International Congress of Ocular Oncology (ICOO), India. 01-2004 .
11. P. Subraminani, **N. Goldenberg-Cohen**, S. Shukla, L.J. Cheskin, N.R. Miller, Plasma ghrelin levels are normal in obese patients with idiopathic intracranial hypertension (pseudotumor cerebri). , North American Neuro-Ophthalmology Society (NANOS), USA. 03-2004 .
12. **N. Goldenberg-Cohen**, Y. Cohen, E. Rosenbaum, Z. Herscovici, I. Chowers, J. Pe'er, D. Weinberger, D. Sidransky, High frequency of oncogenic BRAF mutations in juvenile conjunctival nevi, American Association of Pediatric Ophthalmology and Strabismus, USA. 03-2004 .
13. **N. Goldenberg-Cohen**, I.H. Maumenee, D.P. Judge, R. Green, H.C. Dietz, Ocular pathology in a mouse model of Marfan syndrome, the Association for Research in Vision and Ophthalmology (ARVO) , USA. 05-2005 .
14. **N. Goldenberg-Cohen**, B.R. Avraham, D. Weinberger, Repair of optic nerve ischemic injury in the mouse by bone marrow derived stem cells, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2006 .

15. Y. Ron, D. Weinberger, **N. Goldenberg-Cohen**, Intravitreal Injection of bone marrow derived stem cells after laser treatment to central retina, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2006 .
16. M. Hasanreisoglu, B.R. Avraham, S. Dadon, Y. Cohen, D. Weinberger , **N. Goldenberg-Cohen**, Neuroprotective effect of brimonidine in a mouse model of ischemic optic neuropathy., The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2006 .
17. **N. Goldenberg-Cohen**, M. Ehrenberg, I. Cohen, E. Priel, D. Weinberger, Use of optical coherence tomography to measure retinal nerve fiber layer thickness in children with visual field defects, North American Neuro-Ophthalmology Society (NANOS), USA. 02-2007 .
18. **N. Goldenberg-Cohen**, B.R. Avraham, D. Weinberger, Enhanced neuronal differentiation of bone marrow derived stem cells in ischemic retina, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2007 .
19. E. Merhavi, B.R. Avraham, Y. Cohen, S. Frenkel, I. Chowers, J. Pe'er, **N. Goldenberg-Cohen**., Promoter methylation status of multiple genes in uveal melanoma, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2007 .
20. R.B. Avraham, E. Merhavi, Y. Cohen, S. Frenkel, J. Pe'er, **N. Goldenberg-Cohen**, DNA hypermethylation status of multiple genes in retinoblastoma, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2007 .
21. D. Weinberger, B.R. Avraham, **N. Goldenberg-Cohen**, Enhanced marrow-derived stem cells differentiate in the injured retina, Macula Society, United Kingdom. 06-2007 .
22. S. Dadon, M. Hasanreisoglu, D. Weinberger, **N. Goldenberg-Cohen**, The neuroprotective role of hyperbaric oxygen chamber therapy in ischemic optic neuropathy in a murine model, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2008 .
23. **N. Goldenberg-Cohen**, O. Dratviman, M. Hasanreisoglu, D. Weinberger, Progressive damage following induction of ischemic or mechanical optic nerve injury in two transgenic mice models, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2008 .
24. **N. Goldenberg-Cohen**, B.R. Avraham, D. Weinberger, N. Askenasy, Developmental plasticity of adult bone marrow-derived stem cells in the injured retina, International Society for Stem Cell Research , USA. 06-2008 .
25. B.R. Avraham, D. Weinberger, N. Askenasy, **N. Goldenberg-Cohen**, Mobilization of bone marrow cells by GM-CSF impairs incorporation and differentiation in the ischemic retina, International Society for Stem Cell Research, USA. 06-2008 .
26. D. Ezrachi, V. Gaydar, S. Hofstetter, B.R. Avraham-Lubin, O. Dratviman-Storobinsky, **N. Goldenberg-Cohen**, Reducing apoptosis in the ischemic retina using hyperbaric oxygen treatment in two different mouse models, The Association for Research in Vision and Ophthalmology (ARVO), USA . 05-2009 .

27. M. Ehrenberg, O. Dratviman, B.R. Avraham-Lubin, **N. Goldenberg-Cohen**, Polymorphism in the WRN gene in patients with senile cataract, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2009 .
28. V. Gaydar, O. Dratviman-Storobinsky, T. Goldstein, A. Raiter, B. Hardy, **N. Goldenberg-Cohen**, The possible neuroprotective effect of RoY peptide ligation to membranal GRP78 in the ischemic retina , The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2010 .
29. O. Dratviman-Storobinsky, Y. Cohen, N. Binkovsky, S. Frenkel, J. Pe'er, **N. Goldenberg-Cohen**, The role of RASSF1A in uveal melanoma, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2010 .
30. **N. Goldenberg-Cohen**, T. Sadikov, B.R. Avaraham-Lubin, N. Askenasy, Intravitreal injection of adult bone marrow derived stem cells to developing retina of newborn mice, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2011 .
31. O. Bialer, M. Snir, H. Toledano, S. Michowiz, **N. Goldenberg-Cohen**, Nerve fiber loss in children with craniopharyngioma is in correlation with visual fields defects, North American Neuro-Ophthalmology Society (NANOS), USA. 02-2012 .
32. **N. Goldenberg-Cohen**, S. Michowiz, J. Luckman, H. Leiba, Hyperbaric oxygen treatment for ischemia of the visual pathways, even beyond the acute phase, North American Neuro-Ophthalmology Society (NANOS), USA. 02-2012 .
33. B.R. Avraham-Lubin, T. Sadikov, N. Askenasy, **N. Goldenberg-Cohen**, VEGF induces neural and astrocytic differentiation and angiogenesis in bone marrow-derived stem cells and promotes microglia conversion following mobilization with GM-CSF, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2012 .
34. **N. Goldenberg-Cohen**, O.Y. Bialer, M. Snir, H. Toledano, S. Michowiz, Nerve fiber loss in children with craniopharyngioma is in correlation with visual fields defects, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2012 .
35. **N. Goldenberg-Cohen**, E. Banin, B. Cohen, Y.I Zalstein, L. Rizel, L. Basel-Vanagaite, T. Ben-Yosef, Exome sequencing identifies mutations of both MYO7A and PDE6B in three siblings with retinitis pigmentosa, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2013 .
36. **N. Goldenberg-Cohen**, D. Morzaev, S. Weiss, M. Vieyra, E. Hochhauser, TLR4 knock-out mice are resistant to optic nerve crush damage, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2013 .
37. S. Weiss, D. Morzaev, M. Salmon, E. Eyal, Y. Cohen, **N. Goldenberg-Cohen**, Carriers of degenerative retinal diseases can be easily identified using target capture next generation sequencing, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2013 .
38. **N. Goldenberg-Cohen**, O. Muhsinoglu, H. Toledano, J. Luckman, S. Michowiz, Acquired monocular nystagmus is a common initial presenting sign of a chiasmal glioma in young children , North American Neuro-Ophthalmology Society (NANOS), Puerto Rico. 03-2014 .

39. H. Leiba, H. Toledano, J. Luckman, D. Rappoport, S. Michowiz, **N. Goldenberg-Cohen**, Management dilemmas for optic nerve glioma with proptosis and visual loss in children , North American Neuro-Ophthalmology Society (NANOS), Puerto Rico. 03-2014 .
40. D. Rappoport, H. Leiba, J. Luckman, S. Michowiz, **N. Goldenberg-Cohen**, Ophthalmological Symptoms, Signs and Outcome in Arterial and Venous Stroke in Children, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2014 .
41. J.D. Nicholson, D. Morzaev, S. Weiss, E. Hochhauser, **N. Goldenberg-Cohen**, Fluorescent vascular imaging shows that TLR4 knockout reduces neovascularization and corneal scar after mouse corneal burn injury, The Association for Research in Vision and Ophthalmology (ARVO), USA. 05-2014 .
42. A.Hilely, **N. Goldenberg Cohen**, H. Leiba, Long term follow-up of PTC: children Vs adults, North American Neuro-Ophthalmology Society (NANOS), USA. 03-2015 .
43. **N. Goldenberg-Cohen** M, Vieyra, O. Muhsinoglu, S. Weiss, D. Zadok, J D. Nicholson, Possible Revatio (Sildenafil) Induced Optic Neuropathy in Mice, North American Neuro-Ophthalmology Society (NANOS), USA. 03-2015 .
44. A. Zahavi, J. Luckman, I. Yassur, **N. Goldenberg-Cohen**, Neuropathies In Children Involving Vision Caused By A Fall From Height, North American Neuro-Ophthalmology Society (NANOS), USA . 03-2015 .
45. S. Weiss, M. Azab, M. Salmon-Divon, G. Tessler-Betzalel, Y. Cohen, **N. Goldenberg-Cohen**, BRCA1/2 mutations are not associated with risk of exudative age-related macular degeneration in Ashkenazi Jews, 5th International Conference on Clinical & Experimental Ophthalmology, Spain. 08-2015 .
46. **N. Goldenberg-Cohen**, H. Toledano, O. Muhsinoglu, J. Luckman, S. Michowiz, Acquired nystagmus as the initial presenting sign of a chiasmal glioma in young children, 3rd World Congress of Paediatric Ophthalmology and Strabismus (WSPOS), Spain. 09-2015 .
47. S. Weiss, L. Bazak , M. Ehrenberg, R. Strausberg, **N. Goldenberg-Cohen**, Blue cone monochromacy causes deterioration in visual acuity and color vision in a boy, 3rd World Congress of Paediatric Ophthalmology and Strabismus (WSPOS), Spain. 09-2015 .
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33. E. Merhavi, B.R. Avraham, Y. Cohen, S. Frenkel, I. Chowers, J. Pe'er, **N. Goldenberg-Cohen**, Epigenetic silencing status of multiple genes in uveal melanoma, Israel Society for Eye and Vision Research, Israel. 03-2007 .
34. M. Snir, R. Axer-Siegel, D. Ben-Amitai, **N. Goldenberg-Cohen**, D. Weinberger, R. Friling, Combined steroid administration via intralesional injection and sub-tenon's infusion for the treatment of periorbital and orbital capillary hemangioma, Israel Society for Eye and Vision Research, Israel. 03-2007 .
35. M. Kramer, S. Dadon, M. Hasangrigulosu, D. Weinberger, **N. Goldenberg-Cohen**, Expression of pro-inflammatory cytokines in a mouse model of central retinal artery occlusion, Israel Society for Eye and Vision Research, Israel. 03-2007 .
36. B.R. Avraham, D. Weinberger, **N. Goldenberg-Cohen**, Bone marrow derived stem cells differentiation in ischemic retina, Israel Society for Eye and Vision Research, Israel. 03-2007 .

37. E. Merhavi, B.R. Avraham, Y. Cohen, S. Frenkel, J. Pe'er, **N. Goldenberg-Cohen**, Hypermethylation of CPG island loci of multiple tumor suppressor genes in retinoblastoma, Israel Society for Eye and Vision Research, Israel. 03-2007 .
38. S. Dadon, M. Kramer I. Bahar, B.R. Avraham, M. Hasangrilu, I. Eldar, D. Weinberger. **N. Goldenberg-Cohen**, Molecular changes in the mouse retina following induction of central retinal artery occlusion, Israel Society for Eye and Vision Research, Israel. 03-2007 .
39. I. Chowers, M. Lederman, O. Weinstein, S. Abu Asleh Saleh, **N. Goldenberg-Cohen**, A. Lahad, A. Pollack, I. Avisar, R. Axer-Siegel, D. Hauser, E. Banin, Assessment of correlation among single nucleotide polymorphisms in chromosome 10q26, Htra1 gene expression levels, and clinical characteristics of neovascular age-related macular degeneration, Israel Society for Eye and Vision Research, Israel. 03-2007 .
40. O. Dratviman, M. Hasanrisoglu, S. Dadon, BR. Avraham, D. Weinberger, **N. Goldenberg-Cohen**, Axonal damage and demyelination in the optic nerve following crush injury of transgenic mice, Israel Society for Eye and Vision Research, Israel. 03-2007 .
41. B.R. Avraham, D. Weinberger, N. Askenasy, R.S. Goldstein, **N. Goldenberg-Cohen**, Systemically injected bone marrow-derived stem cells engraft and differentiate in the injured retina, International Stem Cell Conference, Israel. 06-2007 .
42. I. Mahrshak, **N. Goldenberg-Cohen**, M. Snir, R. Frilling, Bilateral visual loss in a 12-year-old boy, Pediatric Ophthalmology Association, Israel. 09-2007 .
43. M. Ehrenberg, **N. Goldenberg-Cohen**, D. Weinberger, Peripapillary RNFL thickness in children with severe visual field defects, Pediatric Ophthalmology Association, Israel. 09-2007 .
44. S. Dadon, O. Dratviman , D. Weinberger, E. Hochhauser, **N. Goldenberg-Cohen**, Bax ablation protects against retinal ischemia/reperfusion injury in transgenic mice, Rabin Research Day, Israel. 12-2007 .
45. O. Dratviman, I. Avisar, I. Kremer, D. Weinberger, **N. Goldenberg-Cohen**, Ranibizumab Vs bevacizumab treatment of corneal neovascularization in mice, Israel Society for Eye and Vision Research, Israel. 03-2008 .
46. I. Avisar, O. Dratviman, I. Kramer, D. Weinberger, **N. Goldenberg-Cohen**, Therapeutic effect of subconjunctival and intraocular bevacizumab (avastin) injections in a mouse model of corneal neovascularization, Israel Society for Eye and Vision Research, Israel. 03-2008 .
47. **N. Goldenberg-Cohen**, O. Dratviman., M. Hasanreisoglu, D. Weinberger, Characterizing progression of optic nerve damage in transgenic mice, Israel Society for Eye and Vision Research, Israel . 03-2008 .
48. M. Kramer, S. Dadon, M. Hasanreisoglu, Y. Monselise, B.R. Avraham, I. Eldar, D. Weinberger, **N. Goldenberg-Cohen**, Proinflammatory cytokines in a mouse model of central retinal artery occlusion , I-18. Tel Aviv, Israel, Research Day, Israel. 04-2008 .
49. N. Assia, **N. Goldenberg-Cohen**, G. Rechavi, Y. Cohen, Mutation analysis of the l-ferritin gene in agerelated cataract, I-8. Tel Aviv Research Day, Israel. 04-2008 .



50. B.R. Avraham, D. Weinberger, **N. Goldenberg-Cohen**, Differentiation of bone marrow derived stem cells in ischemic retina following injections of growth factors, I-6. Tel Aviv Research Day, Israel. 04-2008 .
51. **N. Goldenberg-Cohen**, O. Dratviman, M. Hasanreisoglu, D. Weinberger, Characterizing progression of optic nerve damage in transgenic mice, -5. Tel Aviv Research Day, Israel. 04-2008 .
52. B.R. Avraham, D. Weinberger, N. Askenasy, **N. Goldenberg-Cohen**, GM-CSF mobilization induces the development of microglia from bone marrow progenitors in the ischemic retina., The 2nd International Stem Cell Meeting, Israel. 06-2008 .
53. **N. Goldenberg-Cohen**, H. Toledano, I.J. Cohen, S. Michowiz, M. Snir, Irreversible visual loss in children with acquired optic neuropathy, Schneider Research Day, Israel. 02-2009 .
54. D. Ezrachi, V. Gaydar, S. Hofstetter, B.R. Avraham-Lubin, O. Dratviman-Storobinsky, **N. Goldenberg-Cohen**, Reducing apoptosis in the ischemic retina using hyperbaric oxygen treatment in two different mouse models, Israel Society for Eye and Vision Research, Israel. 03-2009 .
55. M. Ehrenberg, O. Dratviman, B.R. Avraham-Lubin, **N. Goldenberg-Cohen**, Polymorphism in the WRN gene in patients with senile cataract, Israel Society for Eye and Vision Research, Israel. 03-2009 .
56. O. Dratviman, S. Dadon- Bar El, B.R. Avraham-Lubin, E. Hochhauser, **N. Goldenberg-Cohen**, Bax ablation protects against retinal ischemia/reperfusion injury in transgenic mice, Israel Society for Eye and Vision Research, Israel. 03-2009 .
57. T. Sadikov, Y. Cohen, B.R. Avraham-Lubin, A. Simon, **N. Goldenberg-Cohen**, Lamin A is not associated with age-related nuclear cataract, Israel Society for Eye and Vision Research, Israel. 03-2009 .
58. B.R. Avraham-Lubin, D. Weinberger, N. Askenasy, **N. Goldenberg-Cohen**, Intravitreal injection of ciliary neurotrophic factor to enhance in situ differentiation of stem-cell-factor mobilized bone-marrow-derived stem cells, Israel Society for Eye and Vision Research, Israel. 03-2009 .
59. **N. Goldenberg-Cohen**, B.R. Avraham, Lubin, D. Weinberger, N. Askenas, Mobilization of endogenous bone marrow progenitors with GM-CSF and SCF contributes differentially to retinal remodeling after ischemic injury. , Biomed09- The 3rd International Stem Cell Meeting, Israel. 06-2009 .
60. B.R. Avraham-Lubin, N. Askenasy, **N. Goldenberg-Cohen**, Enhanced neuronal differentiation of adult bone marrow derived stem cells in ischemic murine retina, The 2nd Young Investigators Stem Cell meeting, Israel. 03-2010 .
61. B.R. Avraham-Lubin, N. Askenasy, **N. Goldenberg-Cohen**, Growth factors enhance the differentiation of adult bone marrow derived stem cells in ischemic murine retina, Israel Society for Eye and Vision Research, Israel. 03-2010 .
62. V. Gaydar, O. Dratviman-Storobinsky, T. Goldstein, A. Raiter, B. Hardy, **N. Goldenberg-Cohen**, The possible neuroprotective effect of RoY peptide ligation to membranal GRP78 in the ischemic retina , Israel Society for Eye and Vision Research, Israel. 03-2010 .

63. O. Dratviman-Storobinsky, Y. Cohen, N. Binkovsky, S. Frenkel, J. Pe'er, **N. Goldenberg-Cohen**, The role of RASSF1A in uveal melanoma, Israel Society For Eye And Vision Research, Israel. 03-2010 .
64. T. Sadikov, B.R. Avraham-Lubin, N. Askenasy, **N. Goldenberg-Cohen**, Intravitreal injection of adult bone marrow derived stem cells to developing retina of newborn mice, Israel Society For Eye and Vision Research, Israel. 03-2010 .
65. E. Reich, M. Gabbay, O. Dratviman-Storobinsky, D. Weinberger, **N. Goldenberg-Cohen**, U. Gabbay, The haptoglobin genotype does not affect early onset of type 2 diabetic retinopathy, Israel Society for Eye and Vision Research, Israel. 03-2010 .
66. T. Sadikov, B.R. Avraham-Lubin, N. Askenasy, **N. Goldenberg-Cohen**, Adult bone marrow-derived stem cells incorporate in the developing retina, 7th Annual Conference of the Israel Society of Gene and Cell Therapy (ISGCT), Israel. 05-2010 .
67. T. Sadikov, B.R. Avraham-Lubin, N. Askenasy, **N. Goldenberg-Cohen**, Characterization of the gene expression profile of subpopulations of bone marrow cells, 3rd Young investigator, Israel. 12-2010 .
68. B.R. Avraham-Lubin, T. Sadikov, N. Binkovsky, N. Askenasy, **N. Goldenberg-Cohen**, Incorporation of BMSC into the optic nerve in two mouse models of optic neuropathy, Israel Society for Eye and Vision Research, Israel. 03-2011 .
69. Y. Laviv, O. Dratviman-Storobinsky, S. Michowiz, H. Toledano, N. Binkovsky, **N. Goldenberg-Cohen**, Mutations analysis and copy number variation in BRAF oncogene in pediatric low-grade gliomas, Israel Society for Eye and Vision Research, Israel. 03-2011 .
70. O. Dratviman-Storobinsky, Y. Cohen, S. Frenkel, J. Pe'er, **N. Goldenberg-Cohen**, Lack of oncogenic GNAQ mutations in melanocytic lesions of the conjunctiva as compared to uveal melanoma, Israel Society for Eye and Vision Research, Israel. 03-2011 .
71. **N. Goldenberg-Cohen**, H. Toledano, M. Ehrenberg, M. Snir, L. Kornreich, S. Michowiz, Perioperative visual loss is the main cause of irreversible poor vision in children with a brain tumor, Pediatric Neuroophthalmology day, Israel. 07-2011 .
72. O. Bialer, **N. Goldenberg-Cohen**, Dilated pupils after biological treatment for neuroblastoma. Two cases, Pediatric Neuroophthalmology day, Israel. 07-2011 .
73. Y. Nachum, **N. Goldenberg-Cohen**, Six weeks old with anisocoria, Pediatric Neuroophthalmology Day, Israel. 07-2011 .
74. O. Bialer, S. Michowiz, M. Snir, L. Kornreich, **N. Goldenberg-Cohen**, Ocular coherence tomography (OCT) as a follow-up tool in children with craniopharyngioma, The Israel Ophthalmology Association- The neuroophthalmology Meeting, Israel. 11-2011 .
75. S. Weiss, E. Eyal, M. Salmon-Divon, **N. Goldenberg-Cohen**, Y. Cohen, Revealing degenerative retinal disease carriers using next generation sequencing, Israel Society for Eye and Vision Research, Israel. 03-2012 .

76. D. Morzaev, S. Weiss, BR. Avraham-Lubin, E. Hochhauser, **N. Goldenberg-Cohen**, TLR4 knock-out mice are resistant to optic nerve crush damage, Israel Society for Eye and Vision Research, Israel. 03-2012 .
77. C. Nasser, BR. Avraham-Lubin, M. Vieyra, D. Morzaev, S. Weiss, D. Zadok, **N. Goldenberg-Cohen**, The effect of intraocular or systemic injection of Revatio (Sildenafil) on mouse ocular blood vessels and neurons, Israel Society for Eye and Vision Research, Israel. 03-2012 .
78. M. Atamney, O. Dratviman-Storobinsky, R. Axer-Siegel, M. Gabbay, U. Gabbay, Y. Cohen, **N. Goldenberg-Cohen**, Genetic variations in diabetic patients with proliferated and non-proliferated retinopathy, Israel Society for Eye and Vision Research, Israel. 03-2012 .
79. B.R. Avraham-Lubin, T. Sadikov, N. Askenasy, **N. Goldenberg-Cohen**, VEGF induces neural and astrocytic differentiation and angiogenesis in bone marrow-derived stem cells and promotes microglia conversion following mobilization with GM-CSF, Israel Society for Eye and Vision Research, Israel. 03-2012 .
80. S. Weiss, E. Eyal, M. Salmon-Divon, **N. Goldenberg-Cohen**, Y. Cohen, Revealing degenerative retinal disease carriers using next generation sequencing, Research Fair, Tel Aviv University, Israel. 04-2012 .
81. S. Weiss, E. Eyal, M. Salmon-Divon, **N. Goldenberg-Cohen**, Y. Cohen, Revealing degenerative retinal disease carriers using next generation sequencing, Schneider Childrens' Medical Center Research Day, Israel. 04-2012 .
82. D. Morzaev, S. Weiss, BR. Avraham-Lubin, E. Hochhauser, **N. Goldenberg-Cohen**, TLR4 knock-out mice are resistant to optic nerve crush damage, Tel Aviv Research Fair, Israel. 04-2012 .
83. C. Nasser, BR. Avraham-Lubin, M. Vieyra, D. Morzaev, S. Weiss, D. Zadok, **N. Goldenberg-Cohen**, The effect of intraocular or systemic injection of Revatio (Sildenafil) on mouse ocular blood vessels and neurons, Research Fair, Tel Aviv University, Israel. 04-2012 .
84. **N. Goldenberg-Cohen**, J. Luckman, M. Snir, S. Michowiz, Hyperbaric oxygen treatment for a 3-year-old child with bilateral occipital stroke, Schneider Children's Medical Center Research Day, Israel. 04-2012 .
85. D. Pushkov, **N. Goldenberg-Cohen**, D. Morzeav, S. Weiss, S. Michowiz, Middle cerebral artery occlusion model in mice., Tel Aviv Research Fair, Israel. 04-2012 .
86. O. Bialer, M. Snir, H. Toledano, S. Michowiz, **N. Goldenberg-Cohen**, Nerve fiber loss in children with craniopharyngioma is in correlation with visual fields defects. , Tel Aviv Research Fair, Israel. 04-2012 .
87. O. Bialer, M. Snir, H. Toledano, S. Michowiz, **N. Goldenberg-Cohen**, Nerve fiber loss in children with craniopharyngioma is in correlation with visual fields defects. , Schneider Childrens' Medical Center Research Day, Israel. 04-2012 .
88. S. Weiss, E. Eyal, M. Salmon-Divon, **N. Goldenberg-Cohen**, Y. Cohen, Revealing degenerative retinal disease carriers using next generation sequencing, Israel Ophthalmology Association- The Pediatric Meeting, Israel. 07-2012 .

89. S. Weiss, D. Morzaev, O. Dratviman- Storobinsky, M. Vieyra, **N. Goldenberg-Cohen**, Intraocular injection of Brimonidine did not show any protective or toxic effect on mouse injured retina, Israel Society for Eye and Vision Research, Israel. 03-2013 .
90. M. Vieyra, D. Morzaev, S. Weiss, D. Zadok, **N. Goldenberg-Cohen**, The effect of intraocular or systemic injection of Revatio (Sildenafil) on mouse ocular blood vessels and neurons, Israel Society for Eye and Vision Research, Israel. 03-2013 .
91. M. Snir, A. Dotan, R. Friling, Y. Ron-Kella, **N. Goldenberg-Cohen**, H. Stiebel-Kalish, Contralateral lateral rectus muscle recession in patients with duane retraction syndrome type 3, Israel Society for Eye and Vision Research, Israel. 03-2013 .
92. M. Kramer, S. Weiss, M. Shaap-Fogler, Y. Molad, **N. Goldenberg-Cohen**, Yoram Cohen, Single nucleotide polymorphism signature in Behcet's uveitis, Israel Society for Eye and Vision Research, Israel. 03-2013 .
93. D. Morzaev, S. Weiss, M. Vieyra, E. Hochhauser, **N. Goldenberg-Cohen**, The protective effect of TLR4 KO knock out mice against corneal chemical burn, Israel Society for Eye and Vision Research, Israel. 03-2013 .
94. **N. Goldenberg-Cohen**, E. Banin, B. Cohen, Y.I Zalzstein, L. Rizel, L. Basel-Vanagaite, T. Ben-Yosef, Exome sequencing identifies mutations of both MYO7A and PDE6B in three siblings with retinitis pigmentosa., Israel Society for Eye and Vision Research, Israel. 03-2013 .
95. D. Rappoport, H. Leiba, J. Luckman, S. Michowiz, **N. Goldenberg-Cohen**, Ophthalmological Symptoms, Signs and Outcome in Arterial and Venous Stroke in Children, The Israel Ophthalmology Association- The Neuro-Ophthalmology Meeting, Israel. 07-2013 .
96. J.D. Nicholson, O. Muhsinoglu, **N. Goldenberg-Cohen**, Combination of staining techniques to differentiate venous endothelial cells in mouse optic nerve, Israel Society for Eye and Vision Research, Israel. 03-2014 .
97. M. Ben Hamou, J.D. Nicholson, O. Barinfeld, O. Muhsinoglu, **N. Goldenberg-Cohen**, Demonstration of retinal vasculature in diabetic mice, Israel Society for Eye and Vision Research, Israel . 03-2014 .
98. O. Barinfeld, J.D. Nicholson, H. Toledano, S. Michowiz, M. Salmon-Divon, **N. Goldenberg-Cohen** , Mutation analysis of MYB, MYBL1 and FGFR1 in grade I and diffuse pediatric glioma., Israel Society for Eye and Vision Research, Israel. 03-2014 .
99. J.D. Nicholson, D. Pushkov, S. Michowiz, S. Weiss, D. Morzaev, **N. Goldenberg-Cohen**, Hyperbaric oxygen treatment reduced stroke damage and improved vision in a child and perfusion after middle cerebral artery occlusion in mice, Israel Society for Eye and Vision Research, Israel. 03-2014 .
100. J.D. Nicholson, D. Pushkov, S. Michowiz, S. Weiss, D. Morzaev, **N. Goldenberg-Cohen**, Hyperbaric oxygen treatment reduced stroke damage and improved vision in a child and perfusion after middle cerebral artery occlusion in mice, The annual meeting of neurosurgery, Israel. 03-2014 .

101. S. Rossnewasser-Weiss, M. Azab, S. Gershanov ,M. Salmon-Divon, Y. Cohen, **N. Goldenberg-Cohen**, BRCA1/2 mutations may play a role in developing neovascular AMD in Ashkenazi Jews, Israel Society for Eye and Vision Research, Israel. 03-2014 .
102. S. Rossnewasser-Weiss, M. Azab, S. Gershanov ,M. Salmon-Divon, Y. Cohen, **N. Goldenberg-Cohen**, BRCA1/2 mutations may play a role in developing neovascular AMD in Ashkenazi Jews, Tel Aviv University Research Fair, Israel. 04-2014 .
103. H. Leiba, H. Toledano, J. Luckman, D. Rappoport, S. Michowiz, **N. Goldenberg-Cohen**, Management dilemmas for optic nerve glioma with proptosis and visual loss in children , Israel Ophthalmology Association, Israel. 05-2014 .
104. S. Gershanov, M. Salmon-Divon, H. Toledano, S. Michowiz, **N. Goldenberg-Cohen**, Genetic Characterization of Brain Tumors May Help to Improve Detection of Minimal-Residual Disease in Children, Research Day, Technion, Israel. 09-2014 .
105. S. Gershanov, M. Salmon-Divon, H. Toledano, S. Michowiz, **N. Goldenberg-Cohen**, Genetic Characterization of Brain Tumors May Help to Improve Detection of Minimal-Residual Disease in Children, The First Assuta-Maccabi Scientific Meeting, Israel. 12-2014 .
106. S. Gershanov, S. Michowiz, H. Toledano, D. Fixler, G. Yahav, O. Barinfeld, M. Salmon-Divon, **N. Goldenberg-Cohen**, Novel methods for the detection of occult metastatic disease in the CSF of children with medulloblastoma , Israel Society for Eye and Vision Research, Israel. 03-2015 .
107. O. Barinfeld, D. Hazon, S Michowiz, H. Toledano, S. Fichman-Horn, R. Ankri, A. Ashkenazy, D. Fixler, **N. Goldenberg-Cohen**, EGFR overexpression as a prognostic factor in glioblastoma multiforme , Israel Society for Eye and Vision Research, Israel. 03-2015 .
108. S. Weiss, M. Salmon-Divon, L.Basel, R Strausberg, **N Goldenberg-Cohen**, A single nucleotide polymorphism in ATXN7 gene can cause non-syndromic cone rod dystrophy, Israel Society for Eye and Vision Research, Israel. 03-2015 .
109. M. Fridman, M. Brookman, **N Goldenberg-Cohen**, Lack of TNF-alpha receptors in mouse model of optic nerve crush might have a neuroprotective role. , Israel Society for Eye and Vision Research, Israel. 03-2015 .
110. M. Ben Hamou, M. Brookman O, Muhsinoglu,O. Barinfeld, T. Azrad-Leibovich, **N. Goldenberg-Cohen**, Histological evaluation of anti VEGF injection on diabetic retinopathy of non-obese diabetic (NOD) mice , mice Israel Society for Eye and Vision Research, Israel. 03-2015 .
111. S. Gershanov, S. Michowiz, H. Toledano, O. Barinfeld, **N. Goldenberg-Cohen**, M. Salmon-Divon, MicroRNA expression as potential biomarkers for medulloblastoma subgroup Characterization , 7th Annual Meeting of the Israeli Society for Cancer Research (ISCR), Israel. 06-2015 .
112. S. Gershanov, S. Michowiz, H. Toledano, D. Fixler, G. Yahav, O. Barinfeld, M. Salmon-Divon, **N. Goldenberg-Cohen**, Novel methods for the detection of occult metastatic disease in the CSF of children with medulloblastoma, 7th Annual Meeting of the Israeli Society for Cancer Research (ISCR), Israel. 06-2015 .

113. S. Gershanov, S. Michowiz, H. Toledano, O. Barinfeld, **N. Goldenberg-Cohen**, M. Salmon-Divon, Subgrouping of pediatric medulloblastoma using an integrated analysis of MicroRNA-mRNA expression profile, The 8th ISCR Meeting on Breakthroughs in Cancer Research, Israel. 05-2016 .
114. S. Gershanov, H. Toledano, S. Michowiz, G. Yahav, O. Barinfeld, A. Hirshberg, M. Salmon-Divon, D. Fixler, **N. Goldenberg-Cohen**, . A novel detection method of metastatic cells in the cerebrospinal fluid of pediatric population with medulloblastoma using fluorescence lifetime imaging microscopy, . Israel Cancer Association day, Israel. 09-2016 .
115. S. Gershanov, S. Michowiz, O. Barinfeld, M. Salmon-Divon, **N. Goldenberg-Cohen**, H. Toledano, . MicroRNA expression is highly subgroup specific in medulloblastoma as validated by RNA seq and nanostring next generation sequencing technologies in clinical diagnostics, Federation of the Israel Societies for experimental biology (FISEB), Israel. 02-2017 .
116. A. Sternfeld, Y. Barkana, R. Ofri, **N. Goldenberg-Cohen**, Intra ocular injection of plastic microsphere induces glaucoma in mice, . Israel Society for Eye and Vision Research, Israel. 03-2017 .
117. A. Sternfeld, G. Ben-Yehuda, I. Yassur, G. Tauber, Y. Vardizer, D. Adel, **N. Goldenberg-Cohen**, Use of Sonic Hedgehog pathway gene expression to predict response to Vismodegib in advanced BCC of eyelid, Israel Society for Eye and Vision Research, Israel. 03-2017 .
118. J. Abudbai, S. Rossenwasser-Weiss, O. Tomkins, A. Shalata, **N. Goldenberg-Cohen**, Detection of genes associated with proliferative diabetic retinopathy using nanostring technique, Israel Society for Eye and Vision Research, Israel. 03-2018 .
119. S. Gershanov, T. Nehushtan, H. Toledano, A. Pinhasov, **N. Goldenberg-Cohen**, M. Salmon-Divon, Classification of Medulloblastoma Subgroups Based on Gene Expression Data., Israel Society for Eye and Vision Research, Israel. 03-2018 .
120. M. Friedman, S. Weiss, **N. Goldenberg-Cohen**, Blocking TNF- $\alpha$  receptors or intravitreal injection of TNF- $\alpha$  can lead to retinal ganglion cells preservation, . Israel Society for Eye and Vision Research, Israel. 03-2018 .
121. K. Herscu, I. Man Peles, **N. Goldenberg-Cohen**, Vertical diplopia in young man led to an unexpected diagnosis, The 6th annual congress of the Israeli Ophthalmology Society, Israel. 06-2018 .
122. E. Arnon, A. Shternfeld, I. Yassur, T. Tadmor, O. Tomkins, **N. Goldenberg-Cohen**, Y. Vardizer., Orbital lymphoma- comparison between Rituximab treatment to Radiotherapy. Unexpected diagnosis, The 6th annual congress of the Israeli Ophthalmology Society, Israel. 06-2018 .
123. Y. Sheinfeld, Y. Vardizer, I. Man Peles, N. Borissofsky, T. Tadmor, **N. Goldenberg-Cohen**, Ophthalmic Manifestations In Patients With Multiple Myeloma. unexpected diagnosis, The 6th annual congress of the Israeli Ophthalmology Society, Israel. 06-2018 .
124. E. Arnon-Katz, G. Tessler, M. Naftli, **N. Goldenberg-Cohen**, ZEPTO for Capsulorhexis in Cataract Surgery, The 6th annual congress of the Israeli Ophthalmology Society, Israel. 06-2018 .

125. S. Gershanov, H. Toledano, S. Michowiz, O Barinfeld, A Pinhasov, **N Goldenberg-Cohen**, M Salmon-Divon., MICRORNA–mRNA expression profiles can distinguish medulloblastoma subgroup 3 from 4, The 46th Annual Meeting of the International Society for Pediatric Neurosurgery (ISPN), Israel. 10-2018 .
126. S. Gershanov, S. Michowiz, H. Toledano, G Yahav, O Barinfeld, A Hirshberg, H Ben-Zvi, G Mircus, M Salmon-Divon, D Fixler & **N Goldenberg-Cohen**, . FLIM- a novel detection method of metastatic cells in the cerebrospinal fluid of pediatric population with medulloblastoma , The 46th Annual Meeting of the International Society for Pediatric Neurosurgery (ISPN ), Israel. 10-2018 .
127. A. Zahavi, S Weiss , M Fridman , T Sela , Y Barkana , R Ofri , **N Goldenberg-Cohen**, Evaluation of the neuroprotective effect of Azithromycin in a mouse glaucoma model, Israel Society for Eye and Vision Research, Israel. 03-2019 .
128. I. Man Peles, **N. Goldenberg-Cohen**, Acute Vision Loss Associated With Hypereosiniphilic Syndrome. Case Report and Discussion, The 7th annual congress of the Israeli Ophthalmology Society, Israel. 06-2019 .
129. Y. Sheinfeld, Y. Vardizer, M. naftaly, M. Fainer, **N. Goldenberg Cohen**, Hide and Seek, The 7th annual congress of the Israeli Ophthalmology Society, Israel. 06-2019 .

### 16.3 Participation in organizing conferences

1. The Israel Ophthalmology Association, The Neuro-ophthalmology Meeting, Israel, 05-2009, Organizer .
2. Cutting Ages in Neuro Ophthalmology, Prof. N. Miller, Wilmer Eye Institue, Johns Hopkins, MD, USA, Israel, 05-2009, Organizer .
3. Israel Neuroactive course in neuroophthalmology, Prof. J. Trobe, MI, US, Israel, 05-2014, Organizer, Moderator .
4. Cutting edges in Neuroophthalmology, Prof. L. Levin, McGill University, Canada, Israel, 05-2015, Organizer .
5. Israel Society for Eye and Vision Research, Israel, 05-2015, Presenting, Moderator, Co-Organizer, Scientific Board .
6. Israel Eye Ophthalmology Society, Israel, 05-2015, Organizer, Head of the Neuro- Ophthamology society, Israel Ophthalmology Society, presenting .
7. The international symposium on ocular pharmacology and therapeutics, Germany, 05-2015, Presentation, Co- moderator .
8. 3rd World Congress of Paediatric Ophthalmology and Strabismus, Spain, 05-2015, Poster, Moderator .
9. Israel Society for Eye and Vision Research, Israel, 03-2016, Presentation, Moderator, Sientific Board, Organizer .

10. Cutting edges in Neuroophthalmology, Dr. S. Kelman, MD and Dr. B. Skarf, MI, USA., Israel, 05-2016, Organizer, Tel Aviv University .
11. Israel Eye Ophthalmology Society, Israel, 05-2016, Organizer, Head of Neuro Ophthalmology Society, IOS Presentation .
12. Updates for Ophthalmologist in the community – 4 annual meetings, Israel, 07-2016, Organizer Bnai Zion Medical Center .
13. Updates for Ophthalmologist in the community – 4 annual meetings, Israel, 02-2018, Organizer Bnai Zion Medical Center .
14. Updates for Ophthalmologist in the community – 4 annual meetings, Israel, 05-2018, Organizer Bnai Zion Medical Center .
15. Pediatric day for residents – Last Minute Optics, and Pediatric Ophth. Updates. David Hunter, Director, Ophthalmology Dep., Harvard, Boston, MA, USA, Israel, 10-2018, Organizer, Bnai Zion Medical Center and Tel Aviv University .
16. Skew- whats new? – Dr. S. Kelman, Neuro-Ophthalmology, MA, USA, Israel, 01-2019, Organizer, Bnai Zion Medical Center .
17. International Interactive Uveitis Course for residents, S. Lightman , England, P. Mckalssky, Australia, D. Goldstein, USA, Israel, 02-2019, Organizer, Bnai Zion Medical Center (Collaboration with Dr. O. Tomkins .
18. Updates for Ophthalmologist in the community – 4 annual meetings, Israel, 07-2019, Organizer Bnai Zion Medical Center .
19. Updates in NeuroOphthalmology, Prof. N. Newman, Prof. V. Biouse, GA, USA, Israel, 02-2020, Organizer, Bnai Zion Medical Center .
20. Cutting edge in Neuro-Ophthalmology, Prof. L. Levin, McGill, Canada, Israel, 07-2022, Organizer, Bnai Zion Medical Center .

## **17. SIGNIFICANT PROJECTS**

2003 - 2016	Head of pediatric Neuro-Ophthalmology outpatient clinic, Pediatric NeuroOphthalmology, Schneider Children Medical Center, <b>Nitza Goldenberg-Cohen</b>
2003 - 2018	Establishing basic science research laboratory and Head of the Krieger Eye Research Laboratory, Basic Science in Ophthalmology, FMRC Building Rabin Campus, Tel Aviv University, <b>Nitza Goldenberg-Cohen</b>
2015 - Present	PI of site in multicenter genetic consortium, Mapping inherited eye diseases in Israel, 11 centers of consortium, Prof. Ido Perelman
2016 - Present	Head of Ophthalmology department, Head of Ophthalmology department, Bnai Zion Medical Center, <b>Nitza Goldenberg-Cohen</b>



- 2018 - Present Re-Establishing basic science reserach laboratory and Head of the Krieger Eye Research Laboratory, Basic Science in Ophthalmology, Faculty of Medicine, Technion, **Nitza Goldenberg-Cohen**
- 2020 - 2021 Chair, Committee of establishing Optometry school in Zefat, Official council committee for the feasbility of new Optometry school, Council for Higher Education, Ministry of Education

## **18. NOTES**