

CURRICULUM VITAE

Benedetto Falsini, M.D.

EDUCATION

Universita Cattolica del S. Cuore, 1973-1979, M.D.

Universita Cattolica del S. Cuore, 1979 –1983, Residency in Ophthalmology

POSTDOCTORAL AND FELLOWSHIP TRAINING

Medical Intern: Institute of Cardiology and Internal Medicine, Universita Cattolica del S. Cuore , 1976–1977

Medical Intern: Institute of Ophthalmology, Universita Cattolica del S. Cuore , 1978–1979

Postdoctoral Training in Ophthalmology, Universita Cattolica del S. Cuore , 1979

Postdoctoral Fellowship in Inherited Retinal Degenerations, Department of Ophthalmology, Washington University School of Medicine, 1983

Postdoctoral Fellowship in Inherited Retinal Degenerations, Department of Ophthalmology, University of Pennsylvania, 1996-1997

ACADEMIC APPOINTMENTS

Clinical Fellow, Department of Ophthalmology, Universita Cattolica del S. Cuore, 1982-1988

Assistant Professor at the Institute of Ophthalmology Universita Cattolica del S. Cuore, 1989-2001

Associate Professor of Ophthalmology Universita Cattolica del S. Cuore, 2002-2021

Head of the Center for Retinal Degenerations Universita Cattolica del S. Cuore , 1998-2021

Head of Neuro-Ophthalmology and Visual Electrophysiology Center, Universita Cattolica del S. Cuore 2004-2021

Teaching Physiological Optics, Neuro-Ophthalmology and Retinal Degenerations in the Residency Program in Ophthalmology and in the School of Orthoptics, same University. Chair of Neurophthalmology in the Orthoptic Medical School.

Adjunct Investigator, National Eye Institute, National Institutes of Health , 2012-2018

CURRENT POSITIONS

Medical Researcher Children Hospital Bambin Gesù Rome Italy

LICENSURE

Medical Surgical License, 1979

Ophthalmology License, 1983

AWARDS AND HONORS

Graduated “With Highest Distinction,” Universita Cattolica del S. Cuore , 1979

Specialized “With Highest Distinction,” Universita Cattolica del S. Cuore , 1983

The J. William Fulbright Foreign Scholarship Award, 1996. *This award is conferred on a competitive basis to a small number of applicants based on their CV and a research project that is evaluated by a peer review process by a board of selected international scientists.*

Italian Society of Ophthalmology, member, 1981-1992
 Italian Society of Ophthalmology, honorary member, 1993-2004
 Research Associate, University of Sydney, 2010
 Consultant Ophthalmologist to the State of the Vatican, 2004-2012
Italian Society of Ophthalmology, Mario Zingirian SOI Medal lecture, 2015.
Abilitazione Scientifica Nazionale 2012 and 2018: full professor of Ophthalmology (Prima Fascia)
Scientific Production (see also below): 208 peer-reviewed indexed papers. H-index: Scopus 39.
Top Italian Scientist (VIA Academy)

DEPARTMENTAL AND COMMITTEE SERVICE

Faculty Committee for Evaluation and Enrollment of Students in the Medical Program and Residency in Ophthalmology Program, Università Cattolica del S. Cuore , 1989-2021
 Scientific Committee for the Annual Meeting of the Italian Society of Ophthalmology, Università Cattolica del S. Cuore , 2002-2004
 Scientific Committee of the Foundation for Pediatric Neurooncology, Università Cattolica del S. Cuore, 2010-2021
 Data Safety and Monitoring Committee, NEI-funded study, Italian-American Cataract and Anti-Oxidant Supplementation Study, University of Parma, Italy, 2002-2007
 Scientific Committee of the Italian Society of Perimetry, 1996-2010
 Scientific Committee: Regenerative Medicine research center, Università Cattolica, Fondazione Policlinico A. Gemelli, Roma

MEMBERSHIPS

Association for Research in Vision and Ophthalmology (ARVO), 1991-current
 Italian Society of Ophthalmology, 1981-2006
 Italian Society of Pediatric Ophthalmology, 1996-current
 Italian Excellence Research Group in Neuroscience, 2001-2006

GRANT AND PROGRAM SUPPORT

Università Cattolica del S. Cuore (continuous support as Principal Investigator, 1992-current)

Functional Imaging of the Optic Nerve and Retina
 National Research Council (CNR) 95 01715 CT04, 1995-1997 TDC: \$25,000
 PI: B. Falsini
 Neurovascular Coupling in the Human Retina
 CNR 96 00091 CT04, 1996-1998 TDC: \$50,000
 PI: B. Falsini
 Functional Imaging of the Optic Nerve in Neuro-Ophthalmic Disorders
 Ministry of University and Research, 2001 TDC: \$45,000
 PI: B. Falsini
 Functional Imaging of the Optic Nerve, Relationship between Neural and Functional Activity
 Ministry of University and Research, 2002 TDC: \$15,000
 PI: B. Falsini

Functional Imaging of the Optic Nerve and Systemic Disorders, Relationship with Kidney Pathology
Ministry of University and Research, 2003 TDC: \$15,000

PI: B. Falsini

Functional Imaging of the Optic Nerve in Inflammatory Optic Neuropathies

Ministry of University and Research, 2004 TDC: \$15,000

PI: B. Falsini

Functional Imaging of the Optic Nerve in Glaucoma, Influence of Neuroprotective Agents

Ministry of University and Research, 2006 TDC: \$15,000

PI: B. Falsini

Degeneration in Retinal Neurons in Human Retinitis Pigmentosa: Genotype to Phenotype
Relationship

Ministry of University and Research, National Grant, 2002-2006 TDC: \$80,000

PI: B. Falsini

A Novel Therapeutic Strategy Targeting Photoreceptor Oxidative Damage in ABCR-Related
Retinal Degenerations: an Experimental and Clinical Study

Telethon Grant, GGP 10149, 2010-current TDC: \$180,000

PI: B. Falsini

POST-DOCTORAL FELLOWS

Giuseppe Scalia, M.D., 1986–1988; Current position: Private practice of ophthalmology, Catania, Italy.

Luca Buzzonetti, M.D., 1986–1996; Current position: Assistant professor of ophthalmology, Università Cattolica del S. Cuore, Rome, Italy and head of Department of Ophthalmology, Pediatric Hospital, Bambin Gesù, Rome, Italy.

Giovanni Porrello, M.D., Ph.D., 1986–1998; Current position: Private practice of ophthalmology, Catania, Italy.

Marco Piccardi, M.D., 1988–current; Current position: Assistant professor of ophthalmology, Università Cattolica del S. Cuore, Rome, Italy.

Giancarlo Iarossi, M.D., 1988–2004; Current position: Consultant ophthalmologist Pediatric Hospital, Bambin Gesù, Rome, Italy.

Tommaso Salgarello, M.D., 1986–current; Current position: Assistant professor of ophthalmology, Università Cattolica del S. Cuore, Rome, Italy.

Silvano Cermola, M.D., 1986-1996; Current position: Private practice in Ophthalmology, Rome, Italy.

Doreana Canu, Orthoptist, 2000-2004; Current position, staff orthoptist, Vicenza General Hospital, Vicenza, Italy.

Lucia Ziccardi, M.D., Ph.D., 2002-current; Current position clinical researcher, Bietti Foundation for Research in Ophthalmology, Rome, Italy

Giovanna Stifano, M.D., 2002-2007; Current position staff ophthalmologist, General Eye Hospital, Rome, Italy.

Maria Teresa Trisciuzzi, M.D., 2002-2006, Current position, private ophthalmologist, Taranto, Italy.

Maria Christina Savastano, M.D., Ph.D., 2005-current; Current position, research fellow Università Cattolica del S. Cuore, Rome, Italy.

PERSONAL RESEARCH AREAS

Inherited Retinal Degenerations and Therapy Development for Human Retinal and Macular Dystrophies; Age-Related Macular Degeneration; Visual Electrophysiology.

Research Interests

Current research interests are as follows:

1. Abnormal Photopic Visual Processing in Human Retinitis Pigmentosa: Sites and Mechanisms Determined by Electrophysiology and Psychophysics
2. Retinal Dysfunction of the Cone System in Inherited Photoreceptor Degenerations: A Study of Disease Sequence and Assessment of Novel Therapeutic Strategies.
3. A Novel Therapeutic Strategy Targeting Photoreceptor Oxidative Damage in ABCR-related Retinal Degenerations
4. Determining the Optimal Timing and Efficacy of Neuro-Protectants in Stargardt Disease and ABCR gene-Related Retinal Degenerations: Electrophysiology, Psychophysics and Imaging

1,2) Retinitis pigmentosa (RP) is a group of inherited disorders of the retina that diminish visual function and generally lead to blindness. RP represents one of the major causes of blindness in the world and is the most common inherited form of severe retinal degeneration, with a frequency of about 1 in 3000 births. RP is a degenerative disease characterized initially by the development of night blindness, owing to the progressive death of the rod photoreceptor cells. Before the symptoms of RP develop, however, electrophysiological changes can be detectable in the retina. A test to detect such changes is the electroretinogram (ERG). It measures the electrical activity generated by the retina in response to flashes of light. It is now well established that the ERG show early abnormalities in RP patients, even in pre-symptomatic cases. The ERGs of rods are reduced in amplitude and can be also delayed in timing. The ERGs of cone photoreceptors may also be affected, waveforms being abnormal in amplitude, timing, or both. In advanced cases of the condition all responses are extinguished. This may be the case even when central vision is relatively preserved. The degeneration and death of rod cells is associated to more extensive retinal tissue degeneration. Cone cells begin to die off and the vessels supplying blood to the retina become attenuated. As a result, daytime vision becomes substantially affected. As the pathological changes develop, the retinal pigment epithelium becomes abnormal, and deposits of pigment often are spread, for cell migration, across the retinal surface. The latter phenomenon accounts for the name of the disease. The fields of vision become constricted, and the patients develop tunnel vision and often lose all effective sight.

Cone system degeneration in RP

A critical aspect of the retinal degenerative process taking place in RP is the degeneration and dysfunction of the photopic system. Although cone system degeneration is usually considered secondary in the disease sequence (Milam et al., 1998), it is because of this abnormality that patients lose their central vision (i.e. visual acuity, contrast sensitivity, and photopic peripheral visual field), develop severe visual handicap and become eventually blind. Understanding the mechanism(s) of cone system anatomic and functional loss is therefore a question of central importance for the development of effective treatments aimed at preserving vision in RP.

Although cone system degeneration is well documented in different genetic subtypes of disease (Li et al., 1994; Milam et al., 1996, 1998), little is known about the exact sites and sequence of mechanisms that characterize this process. Our current understanding of the problem indicate that a variety of pathologic processes may be involved, including primary degeneration of cone photoreceptors due to accumulation of toxic by-products of rod cell degeneration (Milam et al., 1998, “by-stander” hypothesis, 2000) and/or loss of trophic factors (Milam et al., 1998; Mohand-Said et al., 2001), and defective development of the cone post-receptoral pathway induced indirectly by early rod cell degeneration (Banin et al., 1999; Strettoi et al., 2002). Both animal and human studies indicate the presence of many cytological and biochemical abnormalities in the cone system of RP retinas. The axons of peripheral cones are abnormally elongated and branched, and may make ectopic synapses with rod bipolar cells (Milam et al., 1998; Peng et al 2000). Cone bipolar cells appear devoid of dendritic branches (Strettoi et al., 2000, 2002). Horizontal cells axons appear hypertrophic (Strettoi et al., 2002) and abnormally elongated. Muller cells show an upregulated expression of glial fibrillary acidic protein in areas where cones show loss of cytoplasmic proteins and ectopic nuclei (Milam et al., 1998; John et al., 2000). Some recent experimental studies on animal models of RP (a rhodopsin mutation-related disease in pigs, Banin et al., 1999, and the rd/rd mouse with a loss of function of the beta-subunit of phosphodiesterase, Strettoi et al., 2002) indicate that post-receptoral dysfunction involving the bipolar cell pathways may develop from the very beginning of retinal degeneration, in parallel with the progressive rod cell degeneration, and even before the onset of cone cell loss. Taken together, the above findings suggest that dysfunction of retinal elements proximal to photoreceptors as well as synaptic transmission between cone photoreceptors and second order neurons may play a central role in the sequence of pathological events affecting retinal cone system in RP. This suggestion is also reinforced by clinical findings showing that in some patients with rhodopsin-related degenerations (Milam et al., 1996; Hood and Birch, 1996), there is a cone system post-receptoral dysfunction which cannot be fully accounted for by cone cell loss or dysfunction. A similar conclusion has been recently reached by Alexander et al. (2003), by evaluating the temporal response changes of the sinusoidal flicker ERG in carriers of X-linked RP.

Developing a clinical protocol aimed at identifying cone post-synaptic dysfunction in RP patients could help to determine how common this pathophysiological mechanism is to different genetic sub-types of the disease. It may therefore provide a new framework for evaluating and test hypotheses of the disease sequence and develop new treatment strategies.

The specific achievements of this research are as follows:

Develop and apply a clinical electrophysiologic protocol aimed at evaluating the temporal frequency response function of the photopic sinusoidal flicker ERG as well as the ERG on- and off- components, and detecting changes that may be indicative of cone post-receptoral dysfunction. To compare the results of these ERG protocols between RP patients with different genetic subtypes of disease and specific gene mutations, and age-matched normal control subjects.

Determine the visual significance of post-receptoral abnormalities detected electrophysiologically by comparing psychophysical test results in these RP patients with those from patients without evidence of post-receptoral dysfunction.

Falsini B, Galli-Resta L, Fadda A, Ziccardi L, Piccardi M, Iarossi G, Resta G. Long-term decline of central cone function in retinitis pigmentosa evaluated by focal electroretinogram. *Invest Ophthalmol Vis Sci.* 2012 Nov 19;53(12):7701-9. doi: 10.1167/iovs.12-11017.

- Falsini B, Ziccardi L, Stifano G, Iarossi G, Merendino E, Minnella AM, Fadda A, Balestrazzi E. Temporal response properties of the macular cone system: effect of normal aging and age-related maculopathy. *Invest Ophthalmol Vis Sci*. 2007 Oct;48(10):4811-7.
- Parisi V, Ziccardi L, Stifano G, Montrone L, Gallinaro G, Falsini B. Impact of regional retinal responses on cortical visually evoked responses: multifocal ERGs and VEPs in the retinitis pigmentosa model. *Clin Neurophysiol*. 2010 Mar;121(3):380-5. doi: 10.1016/j.clinph.2009.09.032. Epub 2010 Jan 13.
- Strettoi E, Pignatelli V, Rossi C, Porciatti V, Falsini B. **Remodeling of second-order neurons in the retina of rd/rd mutant mice**. *Vision Res*. 2003 Apr;43(8):867-77.
- Iarossi G, Falsini B, Piccardi M. **Regional cone dysfunction in retinitis pigmentosa evaluated by flicker ERGs: relationship with perimetric sensitivity losses**. *Invest Ophthalmol Vis Sci*. 2003 Feb;44(2):866-74.
- Falsini B, Iarossi G, Fadda A, Porrello G, Valentini P, Piccardi M, Scullica L. **The fundamental and second harmonic of the photopic flicker electroretinogram: temporal frequency-dependent abnormalities in retinitis pigmentosa**. *Clin Neurophysiol*. 1999 Sep;110(9):1554-62.
- Falsini B, Iarossi G, Porciatti V, Merendino E, Fadda A, Cermola S, Buzzonetti L. **Postreceptoral contribution to macular dysfunction in retinitis pigmentosa**. *Invest Ophthalmol Vis Sci*. 1994 Dec;35(13):4282-90.

3,4) The area of research in which this project has been designed is that of retinal degeneration related to mutations in the ABCR gene, responsible of Stargardt disease/fundus flavimaculatus retinal dystrophy (STD/FF). STD/FF is one of the major causes of vision impairment in the young age. STD/FF originates typically from the dysfunction and loss of cone and rod photoreceptors, developing through a photo-oxidative mechanism. The major disease locus is the central retina, i.e. the macula, whose neurons have the highest density and underlie critical functions such as visual acuity, color vision and contrast sensitivity. There is currently no cure for STD/FF. The aim of this research is to investigate the influence of short-term antioxidant supplementation on retinal function in STD/FF patients carrying ABCR mutations, as well as in a mouse model of STD/FF with a knock-out of the ABCR gene. In human patients, the macular cone-mediated electroretinogram (ERG) in response to high-frequency flicker (focal flicker ERG) will be employed as the main outcome variable. Secondary outcome variable will be the psychophysical cone system recovery after bleaching. In the mouse model, flash ERG measures of retinal function, including response recovery after bleaching, as well as the results of retinal histopathology will be the main outcome variables.

The general area of research in which this project has been designed is that of retinal degeneration related to mutations in the ABCR gene, responsible of Stargardt disease/fundus flavimaculatus retinal dystrophy (STD/FF). Recently, therapeutic approaches, based on retinal neuroprotection with inhibitors of retinoid recycling have been suggested and are being tested in animal models of disease. (Mata et al.). Other approaches, based on antioxidant treatments are currently under investigation (Falsini et al., 2010). An additional line of research is based on gene-therapy approaches (Auricchio et al). All these potential treatments assume that a significant number of viable photoreceptors can be rescued, by slowing down their degeneration rate and possibly restoring, at least in part, their function. The current project tests the hypothesis that there is an optimal time window for neuro-protective therapy, in which retinal photoreceptors (PhRs) are in a reversible state of damage, and that this time window can be identified by combined functional (electroretinogram, focal electroretinogram, psychophysical assessment of retinal cone and rod mediated function) and morphologic (optical coherence tomography) assessment of retina. STD/FF patients undergoing a therapeutic trial based on a novel antioxidant with a retinal neuro-protective effect, Saffron (*Crocus Sativus* extract), will be evaluated. If the therapeutic intervention is administered in an appropriate time-window, corresponding to the intermediate stage of disease, then a significant number of damaged, but alive photoreceptors will be rescued, and the size of treatment effect will be optimal, compared to either early or late disease stage. The macular cone-mediated electroretinogram (ERG) in response to high-frequency flicker (focal flicker ERG) will be employed as the main outcome variable. Secondary outcome variable will be the psychophysical cone system recovery after bleaching. The project will be carried on by a clinical unit in

Rome (Istituto di Oftalmologia, Università Cattolica) in close collaboration with the Technology and Health Department at the ISS and the NEI Laboratory of Translational Research in Macular Degenerations (Bethesda, MD, USA).

The specific achievements of this research are as follows:

Assessment of the efficacy of long-term antioxidant treatment in retinal degenerative disorders, clinical results.

Falsini B, Piccardi M, Iarossi G, Fadda A, Merendino E, Valentini P. Influence of short-term antioxidant supplementation on macular function in age-related maculopathy: a pilot study including electrophysiologic assessment. *Ophthalmology*. 2003 Jan;110(1):51-60; discussion 61.

Parisi V, Canu D, Iarossi G, Olzi D, Falsini B. **Altered recovery of macular function after bleaching in Stargardt's disease-fundus flavimaculatus: pattern VEP evidence.** *Invest Ophthalmol Vis Sci*. 2002 Aug;43(8):2741-8.

Falsini B, Piccardi M, Minnella A, Savastano C, Capoluongo E, Fadda A, Balestrazzi E, Maccarone R, Bisti S. **Influence of saffron supplementation on retinal flicker sensitivity in early age-related macular degeneration.** *Invest Ophthalmol Vis Sci*. 2010 Dec;51(12):6118-24. doi: 10.1167/iovs.09-4995. Epub 2010 Aug 4.

Piccardi M, Marangoni D, Minnella AM, Savastano MC, Valentini P, Ambrosio L, Capoluongo E, Maccarone R, Bisti S, Falsini B. **A longitudinal follow-up study of saffron supplementation in early age-related macular degeneration: sustained benefits to central retinal function.** *Evid Based Complement Alternat Med*. 2012;2012:429124. doi: 10.1155/2012/429124. Epub 2012 Jul 18.

UNIVERSITÀ CATTOLICA DEL S. CUORE, TEACHING APPOINTMENTS 1989-CURRENT:

Residency Program in Ophthalmology, Neuroophthalmology, 1998-2010

Ophthalmic and Physiological Optics, 1998-1999

Human Eye Physiology, 2006-2007

Clinical Ocular Examination, 1994-1996

Medical School Ophthalmology Course, 2006-current

School of Orthoptics, Neuroophthalmology, 1999-current

Pathophysiology of the Visual System, 199-current

School of Neuropathophysiology, Electrophysiology of the Visual System

Monthly lectures or seminars in different Italian universities on topics related to retinal degenerations or visual electrophysiology, 2001-2012

HUMAN AND LABORATORY RESEARCH PROTOCOLS

(Clinical trials conducted according to GCP)

Method and Apparatus for Controlling Sun-Clinical Laser Procedures with Intra-operative Monitoring of Electrophysiological Changes. (PI: Falsini B, 2002-2004)

A Novel Therapeutic Strategy Targeting Photoreceptor Oxidative Damage in ABCR-Related Retinal Degenerations: an Experimental and Clinical Study. (PI: Falsini B, 2010-current).

Degeneration in Retinal Neurons in Human Retinitis Pigmentosa: Genotype to Phenotype Relationship (PI: Falsini B, 2004-current).

INVITED INTERNATIONAL SEMINARS AND LECTURES

- 7th Euretina Congress, Invited Speaker, “Regional Retinal Dysfunction in Age-Related Macular Degeneration.” Montecarlo, Monaco, 5/17/2007
- Save Sight Institute, Sydney Eye Hospital, ARC Center of Excellence in Vision Science, Vision 2010: From Photoreceptors to Behaviour. Keynote Speaker. “Mechanisms of Cone Degeneration in Retinitis Pigmentosa,” Sydney, Australia, 1/26/2010
- 9th Congress of South East European Society of Ophthalmology and 9th Slovenian Congress of Ophthalmology. Keynote Speaker. “A Nerve Growth Factor for Optic nerve Neuroprotection in Childhood Optic Gliomas.” Portoroz, Slovenia, 6/28/2012

Metrics (Scopus)**METRICS OVERVIEW****218 PEER-REVIEWED ARTICLES****5000 CITATIONS BY 3240 DOCUMENTS****40 H-INDEX:****BIBLIOGRAPHY: JOURNAL ARTICLES****RECENT**

- 1: COLOMBO L, BONETTI G, MALTESE PE, IAROSSE G, ZICCARDI L, FOGAGNOLO P, DE RUVO V, MURRO V, GIORGIO D, FALSINI B, PLACIDI G, MARTELLA S, GALANTIN E, BERTELLI M, ROSSETTI L. GENOTYPIC AND PHENOTYPIC CHARACTERIZATION OF A COHORT OF PATIENTS AFFECTED BY ROD CNG CHANNEL-ASSOCIATED RETINITIS PIGMENTOSA. OPTHALMIC RES. 2024 MAY 4. DOI: 10.1159/000538746. EPUB AHEAD OF PRINT. PMID: 38705136.
- 2: PLACIDI G, D'AGOSTINO E, MALTESE PE, SAVASTANO MC, GAMBINI G, RIZZO S, BONETTI G, BERTELLI M, CHIURAZZI P, FALSINI B. A NOVEL HOMOZYGOUS SPLICE SITE VARIANT IN ARL2BP CAUSES A SYNDROMIC AUTOSOMAL RECESSIVE ROD-CONE DYSTROPHY WITH SITUS INVERSUS, ASTHENOZOOSPERMIA, UNILATERAL RENAL AGENESIS AND MICROCYSTS. BMC MED GENOMICS. 2024 APR 22;17(1):100. DOI: 10.1186/s12920-024-01868-w. PMID: 38649918; PMCID: PMC11036775.
- 3: TESTA F, BACCI G, FALSINI B, IAROSSE G, MELILLO P, MUCCIOLO DP, MURRO V, SALVETTI AP, SODI A, STAUENGHI G, SIMONELLI F. VORETIGENE NEPARVOVEC FOR INHERITED RETINAL DYSTROPHY DUE TO RPE65 MUTATIONS: A SCOPING REVIEW OF ELIGIBILITY AND TREATMENT CHALLENGES FROM CLINICAL TRIALS TO REAL PRACTICE. EYE (LOND). 2024 APR 16. DOI: 10.1038/s41433-024-03065-6. EPUB AHEAD OF PRINT. PMID: 38627549.
- 4: FADDA A, MARTELLI F, ZEIN WM, JEFFREY B, PLACIDI G, SIEVING PA, FALSINI B.

STATISTICAL EVALUATION OF ERG RESPONSES: A NEW METHOD TO VALIDATE CYCLE-BY-CYCLE RECORDINGS IN ADVANCED RETINAL DEGENERATIONS. *INVEST OPHTHALMOL VIS SCI*. 2024 APR 1;65(4):3. DOI: 10.1167/iovs.65.4.3. PMID: 38558093; PMCID: PMC10996996.

5: LOMBARDO M, CESAREO M, FALSINI B, CUSUMANO A. NON-INVASIVE HIGH-RESOLUTION IMAGING OF IN VIVO HUMAN MYELINATED AXONS. *DIAGNOSTICS (BASEL)*. 2024 JAN 24;14(3):253. DOI: 10.3390/diagnostics14030253. PMID: 38337769; PMCID: PMC10854769.

6: CECCARINI MR, MEDORI MC, DHULI K, TEZZELE S, BONETTI G, MICHELETTI C, MALTESE PE, CECCHIN S, DONATO K, COLOMBO L, ROSSETTI L, STAURENGHI G, SALVETTI AP, OLDANI M, ZICCARDI L, MARANGONI D, IAROSSE G, FALSINI B, PLACIDI G, D'ESPOSITO F, VIOLA F, NASSISI M, LEONE G, CIMINO L, DE SIMONE L, MASTROFILIPPO V, BECCARI T, BERTELLI M. AUTOANTIBODIES DETECTION IN PATIENTS AFFECTED BY AUTOIMMUNE RETINOPATHIES. *EUR REV MED PHARMACOL SCI*. 2023 DEC;27(6 SUPPL):57-63. DOI: 10.26355/EURREV_202312_34690. PMID: 38112948.

7: BONETTI G, COZZA W, BERNINI A, KAFTALLI J, MARESO C, CRISTOFOLI F, MEDORI MC, COLOMBO L, MARTELLA S, STAURENGHI G, SALVETTI AP, FALSINI B, PLACIDI G, ATTANASIO M, PERTILE G, BENGALA M, BOSELLO F, PETRACCA A, D'ESPOSITO F, TOSCHI B, LANZETTA P, RICCI F, VIOLA F, MARCEDDU G, BERTELLI M. TOWARDS A LONG-READ SEQUENCING APPROACH FOR THE MOLECULAR DIAGNOSIS OF RPGR^{ORF15} GENETIC VARIANTS. *INT J MOL SCI*. 2023 NOV 28;24(23):16881. DOI: 10.3390/ijms242316881. PMID: 38069202; PMCID: PMC10706286.

8: CUSUMANO A, FALSINI B, D'AMBROSIO M, D'APOLITO F, SEBASTIANI J, LEVIALDI GHIRON JH, GIARDINA E, CASCELLA R. LONG-TERM STRUCTURAL AND FUNCTIONAL ASSESSMENT OF DOYNE HONEYCOMB RETINAL DYSTROPHY FOLLOWING NANOSECOND 2RT LASER TREATMENT: A CASE SERIES. *CASE REP OPHTHALMOL*. 2023 NOV 23;14(1):626-639. DOI: 10.1159/000534579. PMID: 38023612; PMCID: PMC10666958.

9: TRINGALI G, PIZZOFEERRATO M, LISI L, MARINELLI S, BUCCARELLO L, FALSINI B, CATTANEO A, NAVARRA P. A VICIOUS NGF-p75^{NTR} POSITIVE FEEDBACK LOOP EXACERBATES THE TOXIC EFFECTS OF OXIDATIVE DAMAGE IN THE HUMAN RETINAL EPITHELIAL CELL LINE ARPE-19. *INT J MOL SCI*. 2023 NOV 12;24(22):16237. DOI: 10.3390/ijms242216237. PMID: 38003427; PMCID: PMC10671591.

10: MEDORI MC, BONETTI G, DONATO K, DHULI K, HENEHAN G, BROWN R, SIEVING P, SYKORA P, MARKS R, FALSINI B, CAPODICASA N, MIERTUS S, LORUSSO L, DONDOSSOLA D, TARTAGLIA GM, TARTAGLIA GM, ERGOREN MC, DUNDAR M, MICHELINI S, MALACARNE D, BECCARI T, CONNELLY ST, MARTIN D, BACU A, HERBST KL, KAPUSTIN M, STUPPIA L, LUMER L, FARRONATO G, BERTELLI M. BIOETHICS ISSUES OF ARTIFICIAL PLACENTA AND ARTIFICIAL WOMB TECHNOLOGY. *CLIN TER*. 2023 NOV-DEC;174(SUPPL 2(6)):243-248. DOI: 10.7417/CT.2023.2494. PMID: 37994771.

11: BONETTI G, DONATO K, MEDORI MC, DHULI K, HENEHAN G, BROWN R, SIEVING P, SYKORA P, MARKS R, FALSINI B, CAPODICASA N, MIERTUS S, LORUSSO L, DONDOSSOLA D, TARTAGLIA GM, CERKEZ ERGOREN M, DUNDAR M, MICHELINI S, MALACARNE D, BECCARI T,

CONNELLY ST, MARTIN D, BACU A, HERBST KL, KAPUSTIN M, STUPPIA L, LUMER L, FARRONATO G, BERTELLI M. HUMAN CLONING: BIOLOGY, ETHICS, AND SOCIAL IMPLICATIONS. CLIN TER. 2023 NOV-DEC;174(SUPPL 2(6)):230-235. DOI: 10.7417/CT.2023.2492. PMID: 37994769.

PREVIOUS PUBLICATIONS

1: Zampatti S, Peconi C, Calvino G, Ferese R, Gambardella S, Cascella R, Sebastiani J, Falsini B, Cusumano A, Giardina E. A Splicing Variant in RDH8 Is Associated with Autosomal Recessive Stargardt Macular Dystrophy. Genes (Basel). 2023 Aug 21;14(8):1659. doi: 10.3390/genes14081659. PMID: 37628710; PMCID: PMC10454646.

2: Murro V, Banfi S, Testa F, Iarossi G, Falsini B, Sodi A, Signorini S, Iolascon A, Russo R, Mucciolo DP, Caputo R, Bacci GM, Bargiacchi S, Turco S, Fortini S, Simonelli F. A multidisciplinary approach to inherited retinal dystrophies from diagnosis to initial care: a narrative review with inputs from clinical practice. Orphanet J Rare Dis. 2023 Jul 31;18(1):223. doi: 10.1186/s13023-023-02798-z. PMID: 37525225; PMCID: PMC10388566.

3: Amato A, Imbimbo BP, Falsini B. Neurofibromatosis type 1-associated optic pathway gliomas: pathogenesis and emerging treatments. Eur Rev Med Pharmacol Sci. 2023 Jun;27(12):5636-5653. doi: 10.26355/eurev_202306_32804. PMID: 37401302.

4: Molle F, Savastano MC, Giannuzzi F, Fossataro C, Brando D, Molle A, Rebecchi MT, Falsini B, Mattei R, Mirisola G, Poretti E, Cestroni V, D'Agostino E, Bassi P, Scambia G, Rizzo S. 3D Da Vinci robotic surgery: is it a risk to the surgeon's eye health? J Robot Surg. 2023 Apr 27. doi: 10.1007/s11701-023-01604-z. Epub ahead of print. PMID: 37103772.

5: Maceroni M, Monforte M, Cariola R, Falsini B, Rizzo S, Savastano MC, Martelli F, Ricci E, Bortolani S, Tasca G, Minnella AM. Artificial Intelligence for Evaluation of Retinal Vasculopathy in Facioscapulohumeral Dystrophy Using OCT Angiography: A Case Series. Diagnostics (Basel). 2023 Mar 4;13(5):982. doi: 10.3390/diagnostics13050982. PMID: 36900126; PMCID: PMC10001401.

6: Placidi G, Maltese PE, Savastano MC, D'Agostino E, Cestroni V, Bertelli M, Chiurazzi P, Maceroni M, Minnella AM, Ziccardi L, Parisi V, Rizzo S, Falsini B. Retinitis Pigmentosa Associated with EYS Gene Mutations: Disease Severity Staging and Central Retina Atrophy. Diagnostics (Basel). 2023 Feb 23;13(5):850. doi: 10.3390/diagnostics13050850. PMID: 36899994; PMCID: PMC10000790.

7: Cusumano A, Falsini B, D'Apolito F, D'Ambrosio M, Sebastiani J, Cascella R, Barati S, Giardina E. Longitudinal Structure-Function Evaluation in a Patient with *CDHR1*-Associated Retinal Dystrophy: Progressive Visual Function Loss with Retinal Remodeling. Diagnostics (Basel). 2023 Jan 20;13(3):392. doi:

10.3390/diagnostics13030392. PMID: 36766497; PMCID: PMC9914892.

8: Maceroni M, Falsini B, Luigetti M, Romano A, Guglielmino V, Fasciani R, Placidi G, D'Agostino E, Sasso P, Rizzo S, Minnella AM. Ocular Morpho-Functional Evaluation in ATTRv Pre-Symptomatic Carriers: A Case Series. *Diagnostics* (Basel). 2023 Jan 18;13(3):359. doi: 10.3390/diagnostics13030359. PMID: 36766465; PMCID: PMC9914588.

9: Kiani AK, Pheby D, Henahan G, Brown R, Sieving P, Sykora P, Marks R, Falsini B, Capodicasa N, Miertus S, Lorusso L, Dondossola D, Tartaglia GM, Ergoren MC, Dundar M, Michelini S, Malacarne D, Bonetti G, Dautaj A, Donato K, Medori MC, Beccari T, Samaja M, Connelly ST, Martin D, Morresi A, Bacu A, Herbst KL, Kapustin M, Stuppia L, Lumer L, Farronato G, Bertelli M; INTERNATIONAL BIOETHICS STUDY GROUP. Ethical considerations regarding animal experimentation. *J Prev Med Hyg.* 2022 Oct 17;63(2 Suppl 3):E255-E266. doi: 10.15167/2421-4248/jpmh2022.63.2S3.2768. PMID: 36479489; PMCID: PMC9710398.

10: Kiani AK, Naureen Z, Pheby D, Henahan G, Brown R, Sieving P, Sykora P, Marks R, Falsini B, Capodicasa N, Miertus S, Lorusso L, Dondossola D, Tartaglia GM, Ergoren MC, Dundar M, Michelini S, Malacarne D, Bonetti G, Donato K, Medori MC, Beccari T, Samaja M, Connelly ST, Martin D, Morresi A, Bacu A, Herbst KL, Kapustin M, Stuppia L, Lumer L, Farronato G, Bertelli M; INTERNATIONAL BIOETHICS STUDY GROUP. Methodology for clinical research. *J Prev Med Hyg.* 2022 Oct 17;63(2 Suppl 3):E267-E278. doi: 10.15167/2421-4248/jpmh2022.63.2S3.2769. PMID: 36479476; PMCID: PMC9710407.

11: Medori MC, Naureen Z, Dhuli K, Placidi G, Falsini B, Bertelli M. Dietary supplements in retinal diseases, glaucoma, and other ocular conditions. *J Prev Med Hyg.* 2022 Oct 17;63(2 Suppl 3):E189-E199. doi: 10.15167/2421-4248/jpmh2022.63.2S3.2760. PMID: 36479474; PMCID: PMC9710404.

12: Minnella AM, Maceroni M, Zagami C, Quarato E, Rizzo S, Giarletti M, Placidi G, Falsini B. Intravitreal Fluocinolone Acetonide for Diabetic Macular Edema: Long-Term Effect and Structure/Function Correlation. *Diagnostics* (Basel). 2022 Oct 6;12(10):2415. doi: 10.3390/diagnostics12102415. PMID: 36292104; PMCID: PMC9600657.

13: Granata G, Falsini B. Preliminary Results of Transorbital Alternating Current Stimulation in Chronic Low Vision: Correlation of Clinical and Neurophysiological Results. *Neuromodulation.* 2023 Jun;26(4):892-894. doi: 10.1016/j.neurom.2022.09.002. Epub 2022 Oct 14. PMID: 36244928.

14: Iarossi G, Sinibaldi L, Passarelli C, Coppe' AM, Cappelli A, Petrocelli G, Catena G, Perrone C, Falsini B, Novelli A, Bartuli A, Buzzonetti L. A Novel Autosomal Recessive Variant of the *NRL* Gene Causing Enhanced S-Cone Syndrome: A Morpho-Functional Analysis of Two Unrelated Pediatric Patients. *Diagnostics* (Basel). 2022 Sep 9;12(9):2183. doi: 10.3390/diagnostics12092183. PMID: 36140584; PMCID: PMC9497687.

- 15: Simonelli F, Sodi A, Falsini B, Bacci G, Iarossi G, Di Iorio V, Giorgio D, Placidi G, Andrao A, Reale L, Fiorencis A, Aoun M; BIRDS Working Group. Narrative medicine to investigate the quality of life and emotional impact of inherited retinal disorders through the perspectives of patients, caregivers and clinicians: an Italian multicentre project. *BMJ Open*. 2022 Sep 19;12(9):e061080. doi: 10.1136/bmjopen-2022-061080. PMID: 36123082; PMCID: PMC9486281.

- 16: Fabrizio C, Termine A, Caputo V, Megalizzi D, Zampatti S, Falsini B, Cusumano A, Eandi CM, Ricci F, Giardina E, Strafella C, Cascella R. WARE: Wet AMD Risk-Evaluation Tool as a Clinical Decision-Support System Integrating Genetic and Non-Genetic Factors. *J Pers Med*. 2022 Jun 24;12(7):1034. doi: 10.3390/jpm12071034. PMID: 35887531; PMCID: PMC9321802.

- 17: Rizzo S, Savastano A, Lenkowicz J, Savastano MC, Boldrini L, Bacherini D, Falsini B, Valentini V. Correction: Rizzo et al. Artificial Intelligence and OCT Angiography in Full Thickness Macular Hole. *New Developments for Personalized Medicine. <i>Diagnostics</i> 2021, <i>11</i>, 2319. Diagnostics (Basel). 2022 Jun 30;12(7):1593. doi: 10.3390/diagnostics12071593. Erratum for: Diagnostics (Basel). 2021 Dec 09;11(12): PMID: 35885677; PMCID: PMC9322612.*

- 18: Maltese PE, Colombo L, Martella S, Rossetti L, El Shamieh S, Sinibaldi L, Passarelli C, Coppè AM, Buzzonetti L, Falsini B, Chiurazzi P, Placidi G, Tanzi B, Bertelli M, Iarossi G. Genetics of Inherited Retinal Diseases in Understudied Ethnic Groups in Italian Hospitals. *Front Genet*. 2022 Jun 28;13:914345. doi: 10.3389/fgene.2022.914345. PMID: 35836572; PMCID: PMC9274138.

- 19: Barbano L, Ziccardi L, Antonelli G, Nicoletti CG, Landi D, Mataluni G, Falsini B, Marfia GA, Centonze D, Parisi V. Multifocal Electroretinogram Photopic Negative Response: A Reliable Paradigm to Detect Localized Retinal Ganglion Cells' Impairment in Retrobulbar Optic Neuritis Due to Multiple Sclerosis as a Model of Retinal Neurodegeneration. *Diagnostics (Basel)*. 2022 May 6;12(5):1156. doi: 10.3390/diagnostics12051156. PMID: 35626311; PMCID: PMC9139610.

- 20: Minnella AM, Centini C, Gambini G, Savastano MC, Pagliei V, Falsini B, Rizzo S, Ciasca G, Maceroni M. Choroidal Thickness Changes After Intravitreal Aflibercept Injections in Treatment-Naïve Neovascular AMD. *Adv Ther*. 2022 Jul;39(7):3248-3261. doi: 10.1007/s12325-022-02129-x. Epub 2022 May 21. PMID: 35597837; PMCID: PMC9239952.

- 21: Falsini B, Placidi G, De Siena E, Chiurazzi P, Minnella AM, Savastano MC, Ziccardi L, Parisi V, Iarossi G, Percio M, Piteková B, Marceddu G, Maltese PE, Bertelli M. Genetic characteristics of 234 Italian patients with macular and cone/cone-rod dystrophy. *Sci Rep*. 2022 Mar 8;12(1):3774. doi: 10.1038/s41598-022-07618-1. PMID: 35260635; PMCID: PMC8904500.

- 22: Testa F, Murro V, Signorini S, Colombo L, Iarossi G, Parmeggiani F, Falsini

B, Salvetti AP, Brunetti-Pierri R, Aprile G, Bertone C, Suppiej A, Romano F, Karali M, Donati S, Melillo P, Sodi A, Quaranta L, Rossetti L, Buzzonetti L, Chizzolini M, Rizzo S, Staurenghi G, Banfi S, Azzolini C, Simonelli F. RPE65-Associated Retinopathies in the Italian Population: A Longitudinal Natural History Study. *Invest Ophthalmol Vis Sci*. 2022 Feb 1;63(2):13. doi: 10.1167/iovs.63.2.13. PMID: 35129589; PMCID: PMC8822366.

23: Savastano MC, Falsini B, Ferrara S, Scampoli A, Piccardi M, Savastano A, Rizzo S. Subretinal Pigment Epithelium Illumination Combined With Focal Electroretinogram and Visual Acuity for Early Diagnosis and Prognosis of Non-Exudative Age-Related Macular Degeneration: New Insights for Personalized Medicine. *Transl Vis Sci Technol*. 2022 Jan 3;11(1):35. doi: 10.1167/tvst.11.1.35. PMID: 35077530; PMCID: PMC8802010.

24: Rizzo S, Savastano A, Lenkowicz J, Savastano MC, Boldrini L, Bacherini D, Falsini B, Valentini V. Artificial Intelligence and OCT Angiography in Full Thickness Macular Hole. *New Developments for Personalized Medicine. Diagnostics (Basel)*. 2021 Dec 9;11(12):2319. doi: 10.3390/diagnostics11122319. Erratum in: *Diagnostics (Basel)*. 2022 Jun 30;12(7): PMID: 34943557; PMCID: PMC8700555.

25: Kiani AK, Paolacci S, Amato B, Mattassi RE, Tassi V, Falsini B, Di Renzo G, Guda T, Kallazi M, Dautaj A, Dhuli K, Morrone A, Bellinato F, Gisoni P, Bertelli M. In vitro cell culture of amniotic fluid keratinocytes on amniotic membrane: the ideal tissue for repairing skin ulcers. *Eur Rev Med Pharmacol Sci*. 2021 Dec;25(1 Suppl):49-55. doi: 10.26355/eurev_202112_27333. PMID: 34890034.

26: Simonelli F, Sodi A, Falsini B, Bacci G, Iarossi G, Di Iorio V, Giorgio D, Placidi G, Andrao A, Reale L, Fiorencis A, Aoun M. Care Pathway of RPE65-Related Inherited Retinal Disorders from Early Symptoms to Genetic Counseling: A Multicenter Narrative Medicine Project in Italy. *Clin Ophthalmol*. 2021 Dec 2;15:4591-4605. doi: 10.2147/OPHTH.S331218. PMID: 34880596; PMCID: PMC8648274.

27: Ziccardi L, Cioffi E, Barbano L, Gioiosa V, Falsini B, Casali C, Parisi V. Macular Morpho-Functional and Visual Pathways Functional Assessment in Patients with Spinocerebellar Type 1 Ataxia with or without Neurological Signs. *J Clin Med*. 2021 Nov 12;10(22):5271. doi: 10.3390/jcm10225271. PMID: 34830553; PMCID: PMC8625180.

28: Savastano MC, Rizzo C, Gambini G, Savastano A, Falsini B, Bacherini D, Caputo CG, Kilian R, Faraldi F, De Vico U, Rizzo S. Choriocapillaris Vascular Density Changes: Healthy vs. Advanced Exudative Age-Related Macular Degeneration Previously Treated with Multiple Anti-VEGF Intravitreal Injections. *Diagnostics (Basel)*. 2021 Oct 22;11(11):1958. doi: 10.3390/diagnostics11111958. PMID: 34829305; PMCID: PMC8621604.

29: Salgarello T, Cozzupoli GM, Giudiceandrea A, Fadda A, Placidi G, De Siena E, Amore F, Rizzo S, Falsini B. PERG adaptation for detection of retinal ganglion cell dysfunction in glaucoma: a pilot diagnostic accuracy study. *Sci Rep*. 2021

Nov 24;11(1):22879. doi: 10.1038/s41598-021-02048-x. PMID: 34819533; PMCID: PMC8613213.

30: Minnella AM, Rissotto R, Maceroni M, Romano A, Fasciani R, Luigetti M, Sabatelli M, Rizzo S, Falsini B. Ocular Involvement in Hereditary Transthyretin Amyloidosis: A Case Series Describing Novel Potential Biomarkers. *Genes (Basel)*. 2021 Jun 18;12(6):927. doi: 10.3390/genes12060927. PMID: 34207092; PMCID: PMC8234990.

31: Minnella AM, Rissotto R, Antoniazzi E, Di Girolamo M, Luigetti M, Maceroni M, Bacherini D, Falsini B, Rizzo S, Obici L. Ocular Involvement in Hereditary Amyloidosis. *Genes (Basel)*. 2021 Jun 22;12(7):955. doi: 10.3390/genes12070955. PMID: 34206500; PMCID: PMC8304974.

32: Barbano L, Ziccardi L, Landi D, Nicoletti CG, Mataluni G, Falsini B, Centonze D, Marfia GA, Quaranta L, Parisi V. Assessment of Macular Function by Multifocal Electoretinogram in Patients with Multiple Sclerosis Treated with Fingolimod. *Adv Ther*. 2021 Jul;38(7):3986-3996. doi: 10.1007/s12325-021-01728-4. Epub 2021 Jun 9. PMID: 34109558; PMCID: PMC8280030.

33: Minnella AM, Picardi SM, Maceroni M, Albanesi F, De Siena E, Placidi G, Caputo CG, De Vico U, Rizzo S, Falsini B. Retinal Morpho-Functional Changes Following 0.19 mg Fluocinolone Acetonide Intravitreal Implant for Chronic Diabetic Macular Edema. *Adv Ther*. 2021 Jun;38(6):3143-3153. doi: 10.1007/s12325-021-01751-5. Epub 2021 May 4. PMID: 33948926; PMCID: PMC8096132.

34: Marino V, Dal Cortivo G, Maltese PE, Placidi G, De Siena E, Falsini B, Bertelli M, Dell'Orco D. Impaired Ca^{2+} Sensitivity of a Novel GCAP1 Variant Causes Cone Dystrophy and Leads to Abnormal Synaptic Transmission Between Photoreceptors and Bipolar Cells. *Int J Mol Sci*. 2021 Apr 14;22(8):4030. doi: 10.3390/ijms22084030. PMID: 33919796; PMCID: PMC8070792.

35: Falsini B, Placidi G, De Siena E, Savastano MC, Minnella AM, Maceroni M, Midena G, Ziccardi L, Parisi V, Bertelli M, Maltese PE, Chiurazzi P, Rizzo S. *USH2A*-Related Retinitis Pigmentosa: Staging of Disease Severity and Morpho-Functional Studies. *Diagnostics (Basel)*. 2021 Feb 1;11(2):213. doi: 10.3390/diagnostics11020213. PMID: 33535592; PMCID: PMC7912870.

36: Savastano MC, Gambini G, Cozzupoli GM, Crincoli E, Savastano A, De Vico U, Culiersi C, Falsini B, Martelli F, Minnella AM, Landi F, Pagano FC, Rizzo S; Gemelli Against COVID-19 Post-Acute Care Study Group. Retinal capillary involvement in early post-COVID-19 patients: a healthy controlled study. *Graefes Arch Clin Exp Ophthalmol*. 2021 Aug;259(8):2157-2165. doi: 10.1007/s00417-020-05070-3. Epub 2021 Feb 1. PMID: 33523252; PMCID: PMC7848665.

37: Savastano MC, Gambini G, Savastano A, Falsini B, De Vico U, Sanguinetti M, Cattani P, Marchetti S, Larici AR, Franceschi F, Santoliquido A, Moroni R, Cambieri A, Bellantone R, Landi F, Scambia G, Rizzo S. Evidence-based of

conjunctival COVID-19 positivity: An Italian experience: Gemelli Against COVID Group. *Eur J Ophthalmol.* 2021 Nov;31(6):2886-2893. doi: 10.1177/1120672120976548. Epub 2020 Dec 23. PMID: 33356534; PMCID: PMC7768604.

38: Ziccardi L, Barbano L, Boffa L, Albanese M, Nicoletti CG, Landi D, Grzybowski A, Falsini B, Marfia GA, Centonze D, Parisi V. Functional Assessment of Outer and Middle Macular Layers in Multiple Sclerosis. *J Clin Med.* 2020 Nov 22;9(11):3766. doi: 10.3390/jcm9113766. PMID: 33266435; PMCID: PMC7700336.

39: Naureen Z, Beccari T, Marks RS, Brown R, Lorusso L, Pheby D, Miertus S, Herbst KL, Stuppia L, Henahan G, Falsini B, Lumer L, Dundar M, Bertelli M, Study Group IB. Ethics committees for clinical experimentation at international level with a focus on Italy. *Acta Biomed.* 2020 Nov 9;91(13-S):e2020016. doi: 10.23750/abm.v91i13-S.10643. PMID: 33170165; PMCID: PMC8023139.

40: Kiani AK, Falsini B, Ziccardi L, Gusson E, Mangialavori D, Allegrini F, Colao E, Bertelli M. Flavonoid supplements increase neurotrophin activity to modulate inflammation in retinal genetic diseases. *Acta Biomed.* 2020 Nov 9;91(13-S):e2020014. doi: 10.23750/abm.v91i13-S.10683. PMID: 33170164; PMCID: PMC8023125.

41: Minnella AM, Piccardi M, Placidi G, García-Layana A, Delcourt C, Valentini P, Falsini B. Macular Function in Early and Intermediate Age-related Macular Degeneration: Correlation with the Simplified Thea Risk Assessment Scale (STARS). *Transl Vis Sci Technol.* 2020 Sep 28;9(10):28. doi: 10.1167/tvst.9.10.28. PMID: 33062391; PMCID: PMC7533726.

42: Minnella AM, Maceroni M, Picardi SM, Placidi G, De Siena E, Rizzo S, Falsini B. Combined Intravitreal Dexamethasone Implant and Cataract Surgery in Patients with Diabetic Retinopathy: Effect on Retinal Morphology and Function. *Adv Ther.* 2020 Nov;37(11):4675-4684. doi: 10.1007/s12325-020-01506-8. Epub 2020 Sep 24. PMID: 32970316; PMCID: PMC7547947.

43: Savastano MC, Falsini B, Cozzupoli GM, Savastano A, Gambini G, De Vico U, Minnella AM, Placidi G, Piccardi M, Rizzo S. Retinal Pigment Epithelial and Outer Retinal Atrophy in Age-Related Macular Degeneration: Correlation with Macular Function. *J Clin Med.* 2020 Sep 15;9(9):2973. doi: 10.3390/jcm9092973. PMID: 32942540; PMCID: PMC7564054.

44: Cozzupoli GM, Savastano MC, Falsini B, Savastano A, Rizzo S. Possible Retinal Impairment Secondary to Ritonavir Use in SARS-CoV-2 Patients: A Narrative Systematic Review. *J Ophthalmol.* 2020 Aug 22;2020:5350494. doi: 10.1155/2020/5350494. PMID: 32908681; PMCID: PMC7458545.

45: Granata G, Iodice F, Falsini B, Rossini PM. The role of primary visual cortex after transorbital alternating current stimulation in low vision patients. *Clin Neurophysiol.* 2020 Sep;131(9):2327-2328. doi: 10.1016/j.clinph.2020.06.008. Epub 2020 Jun 25. PMID: 32682643.

- 46: Mazzini A, Palermo F, Pagliei V, Romanò S, Papi M, Zimatore G, Falsini B, Rizzo S, De Spirito M, Ciasca G, Minnella AM. A time-dependent study of nano-mechanical and ultrastructural properties of internal limiting membrane under ocriplasmin treatment. *J Mech Behav Biomed Mater*. 2020 Oct;110:103853. doi: 10.1016/j.jmbbm.2020.103853. Epub 2020 May 18. PMID: 32501223.
- 47: Primiano G, Abed E, Corbo G, Minnella AM, Servidei S, Vollono C, Savastano MC, Falsini B. Macular impairment in mitochondrial diseases: a potential biomarker of disease severity. *Sci Rep*. 2020 May 22;10(1):8554. doi: 10.1038/s41598-020-65482-3. PMID: 32444699; PMCID: PMC7244507.
- 48: Castaldi E, Cicchini GM, Falsini B, Binda P, Morrone MC. Residual Visual Responses in Patients With Retinitis Pigmentosa Revealed by Functional Magnetic Resonance Imaging. *Transl Vis Sci Technol*. 2019 Dec 18;8(6):44. doi: 10.1167/tvst.8.6.44. PMID: 31867144; PMCID: PMC6922275.
- 49: Piccardi M, Fadda A, Martelli F, Marangoni D, Magli A, Minnella AM, Bertelli M, Di Marco S, Bisti S, Falsini B. Antioxidant Saffron and Central Retinal Function in ABCA4-Related Stargardt Macular Dystrophy. *Nutrients*. 2019 Oct 15;11(10):2461. doi: 10.3390/nu11102461. PMID: 31618812; PMCID: PMC6835540.
- 50: Frecer V, Iarossi G, Salvetti AP, Maltese PE, Delledonne G, Oldani M, Staurengi G, Falsini B, Minnella AM, Ziccardi L, Magli A, Colombo L, D'Esposito F, Miertus J, Viola F, Attanasio M, Maggio E, Bertelli M. Pathogenicity of new BEST1 variants identified in Italian patients with best vitelliform macular dystrophy assessed by computational structural biology. *J Transl Med*. 2019 Oct 1;17(1):330. doi: 10.1186/s12967-019-2080-3. PMID: 31570112; PMCID: PMC6771118.
- 51: Di Marco S, Carnicelli V, Franceschini N, Di Paolo M, Piccardi M, Bisti S, Falsini B. Saffron: A Multitask Neuroprotective Agent for Retinal Degenerative Diseases. *Antioxidants (Basel)*. 2019 Jul 17;8(7):224. doi: 10.3390/antiox8070224. PMID: 31319529; PMCID: PMC6681062.
- 52: Lunghi C, Galli-Resta L, Binda P, Cicchini GM, Placidi G, Falsini B, Morrone MC. Visual Cortical Plasticity in Retinitis Pigmentosa. *Invest Ophthalmol Vis Sci*. 2019 Jun 3;60(7):2753-2763. doi: 10.1167/iovs.18-25750. PMID: 31247082; PMCID: PMC6746622.
- 53: Minnella AM, Barbano L, Verrecchia E, Martelli F, Pagliei V, Gambini G, Placidi G, Falsini B, Caporossi A, Manna R. Macular Impairment in Fabry Disease: A Morpho-functional Assessment by Swept-Source OCT Angiography and Focal Electroretinography. *Invest Ophthalmol Vis Sci*. 2019 Jun 3;60(7):2667-2675. doi: 10.1167/iovs.18-26052. PMID: 31242288.
- 54: Manara E, Paolacci S, D'Esposito F, Abeshi A, Ziccardi L, Falsini B, Colombo L, Iarossi G, Pilotta A, Boccone L, Guerri G, Monica M, Marta B, Maltese PE, Buzzonetti L, Rossetti L, Bertelli M. Mutation profile of BBS genes in patients

with Bardet-Biedl syndrome: an Italian study. *Ital J Pediatr.* 2019 Jun 13;45(1):72. doi: 10.1186/s13052-019-0659-1. PMID: 31196119; PMCID: PMC6567512.

55: Cozzupoli GM, Gui D, Cozza V, Lodoli C, Pennisi MA, Caporossi A, Falsini B. Necrotizing Fasciitis Following Herpes Zoster Ophthalmicus in an Immunocompromised Patient. *Case Rep Ophthalmol Med.* 2019 Jan 20;2019:4534153. doi: 10.1155/2019/4534153. PMID: 30805235; PMCID: PMC6360555.

56: Precone V, Beccari T, Stuppia L, Baglivo M, Paolacci S, Manara E, Miggiano GAD, Falsini B, Trifirò A, Zanlari A, Herbst KL, Unfer V, Bertelli M; Geneob Project. Taste, olfactory and texture related genes and food choices: implications on health status. *Eur Rev Med Pharmacol Sci.* 2019 Feb;23(3):1305-1321. doi: 10.26355/eurev_201902_17026. PMID: 30779105.

57: Granata G, Iodice F, Romanello R, Placidi G, Gasparini G, Falsini B, Rossini PM. Neurophysiological effect of transorbital electrical stimulation: Early results in advanced optic atrophy. *Brain Stimul.* 2019 May-Jun;12(3):800-802. doi: 10.1016/j.brs.2019.02.002. Epub 2019 Feb 7. PMID: 30777642.

58: Stone J, Mitrofanis J, Johnstone DM, Falsini B, Bisti S, Adam P, Nuevo AB, George-Weinstein M, Mason R, Eells J. Acquired Resilience: An Evolved System of Tissue Protection in Mammals. *Dose Response.* 2018 Dec 27;16(4):1559325818803428. doi: 10.1177/1559325818803428. PMID: 30627064; PMCID: PMC6311597.

59: Cusumano A, Falsini B, Giardina E, Cascella R, Sebastiani J, Marshall J. Doyne honeycomb retinal dystrophy - functional improvement following subthreshold nanopulse laser treatment: a case report. *J Med Case Rep.* 2019 Jan 10;13(1):5. doi: 10.1186/s13256-018-1935-1. PMID: 30626431; PMCID: PMC6327555.

60: Minnella AM, Federici M, Pagliei V, Lanza A, Gambini G, Caputo CG, Falsini B, Caporossi A. Short-Term Assessment of Intravitreal Dexamethasone Implant Using Enhanced-Depth Image Optical Coherence Tomography and Optical Coherence Tomography Angiography in Patients with Retinal Vascular Diseases. *Adv Ther.* 2019 Feb;36(2):416-425. doi: 10.1007/s12325-018-0848-0. Epub 2018 Dec 18. PMID: 30565180; PMCID: PMC6824342.

61: Minnella AM, Pagliei V, Savastano MC, Federici M, Bertelli M, Maltese PE, Placidi G, Corbo G, Falsini B, Caporossi A. Swept source optical coherence tomography and optical coherence tomography angiography in pediatric enhanced S-cone syndrome: a case report. *J Med Case Rep.* 2018 Oct 3;12(1):287. doi: 10.1186/s13256-018-1819-4. PMID: 30285900; PMCID: PMC6169104.

62: Salgarello T, Giudiceandrea A, Calandriello L, Marangoni D, Colotto A, Caporossi A, Falsini B. Pattern Electroretinogram Detects Localized Glaucoma Defects. *Transl Vis Sci Technol.* 2018 Sep 13;7(5):6. doi: 10.1167/tvst.7.5.6. PMID: 30221072; PMCID: PMC6136848.

63: Marino V, Dal Cortivo G, Oppici E, Maltese PE, D'Esposito F, Manara E,

Ziccardi L, Falsini B, Magli A, Bertelli M, Dell'Orco D. A novel p.(Glu111Val) missense mutation in GUC1A1 associated with cone-rod dystrophy leads to impaired calcium sensing and perturbed second messenger homeostasis in photoreceptors. *Hum Mol Genet.* 2018 Dec 15;27(24):4204-4217. doi: 10.1093/hmg/ddy311. PMID: 30184081.

64: Galli-Resta L, Placidi G, Campagna F, Ziccardi L, Piccardi M, Minnella A, Abed E, Iovine S, Maltese P, Bertelli M, Falsini B. Central Retina Functional Damage in Usher Syndrome Type 2: 22 Years of Focal Macular ERG Analysis in a Patient Population From Central and Southern Italy. *Invest Ophthalmol Vis Sci.* 2018 Aug 1;59(10):3827-3835. doi: 10.1167/iovs.17-23703. PMID: 30073356.

65: Abed E, Placidi G, Campagna F, Federici M, Minnella A, Guerri G, Bertelli M, Piccardi M, Galli-Resta L, Falsini B. Early impairment of the full-field photopic negative response in patients with Stargardt disease and pathogenic variants of the ABCA4 gene. *Clin Exp Ophthalmol.* 2018 Jul;46(5):519-530. doi: 10.1111/ceo.13115. Epub 2017 Dec 28. PMID: 29178665.

66: Khan NW, Falsini B, Kondo M, Robson AG. Inherited Retinal Degeneration: Genetics, Disease Characterization, and Outcome Measures. *J Ophthalmol.* 2017;2017:2109014. doi: 10.1155/2017/2109014. Epub 2017 Sep 25. PMID: 29098082; PMCID: PMC5642450.

67: Chiaretti A, Conti G, Falsini B, Buonsenso D, Crasti M, Manni L, Soligo M, Fantacci C, Genovese O, Calcagni ML, Di Giuda D, Mattoli MV, Cocciolillo F, Ferrara P, Ruggiero A, Staccioli S, Colafati GS, Riccardi R. Intranasal Nerve Growth Factor administration improves cerebral functions in a child with severe traumatic brain injury: A case report. *Brain Inj.* 2017;31(11):1538-1547. doi: 10.1080/02699052.2017.1376760. Epub 2017 Oct 3. PMID: 28972396.

68: Abed E, Placidi G, Calandriello L, Piccardi M, Campagna F, Bertelli M, Minnella AM, Savastano MC, Falsini B. Correlation of Macular Focal Electroretinogram with Ellipsoid Zone Extension in Stargardt Disease. *J Ophthalmol.* 2017;2017:3643495. doi: 10.1155/2017/3643495. Epub 2017 Aug 20. PMID: 28912967; PMCID: PMC5585538.

69: Esposito Veneruso P, Ziccardi L, Magli G, Parisi V, Falsini B, Magli A. Developmental visual deprivation: long term effects on human cone driven retinal function. *Graefes Arch Clin Exp Ophthalmol.* 2017 Dec;255(12):2481-2486. doi: 10.1007/s00417-017-3780-0. Epub 2017 Aug 22. PMID: 28831547.

70: Coppola G, Corso L, Di Renzo A, Fadda A, Martelli F, Di Lorenzo C, Parisi V, Schoenen J, Falsini B, Pierelli F. O026. An abnormal transduction of the chromatic stimuli from the outer to the inner retinal layers may contribute to cause photophobia in migraine. *J Headache Pain.* 2015 Dec;16(Suppl 1):A54. doi: 10.1186/1129-2377-16-S1-A54. Erratum in: *J Headache Pain.* 2017 Dec;18(1):11. PMID: 28132334; PMCID: PMC4759276.

71: Nicoletti A, Ziccardi L, Maltese PE, Benedetti S, Palumbo O, Rendina M, D'Agruma L, Falsini B, Wang X, Bertelli M. Design and Validation of a New MLPA-Based Assay for the Detection of RS1 Gene Deletions and Application in a Large Family with X-Linked Juvenile Retinoschisis. *Genet Test Mol Biomarkers*. 2017 Feb;21(2):116-121. doi: 10.1089/gtmb.2016.0257. Epub 2016 Dec 20. PMID: 27997221; PMCID: PMC5335781.

72: Minnella AM, Savastano MC, Federici M, Falsini B, Caporossi A. Superficial and deep vascular structure of the retina in diabetic macular ischaemia: OCT angiography. *Acta Ophthalmol*. 2018 Aug;96(5):e647-e648. doi: 10.1111/aos.13099. Epub 2016 Sep 19. PMID: 27641955.

73: Esposito Veneruso P, Ziccardi L, Magli G, Parisi V, Falsini B, Magli A. Early light deprivation effects on human cone-driven retinal function. *Acta Ophthalmol*. 2017 Mar;95(2):133-139. doi: 10.1111/aos.13191. Epub 2016 Aug 18. PMID: 27535202.

74: Savastano MC, Federici M, Falsini B, Caporossi A, Minnella AM. Detecting papillary neovascularization in proliferative diabetic retinopathy using optical coherence tomography angiography. *Acta Ophthalmol*. 2018 May;96(3):321-323. doi: 10.1111/aos.13166. Epub 2016 Aug 6. PMID: 27495781.

75: Galli-Resta L, Falsini B, Rossi G, Piccardi M, Ziccardi L, Fadda A, Minnella A, Marangoni D, Placidi G, Campagna F, Abed E, Bertelli M, Zuntini M, Resta G. Bilateral Symmetry of Visual Function Loss in Cone-Rod Dystrophies. *Invest Ophthalmol Vis Sci*. 2016 Jul 1;57(8):3759-68. doi: 10.1167/iovs.15-18313. PMID: 27415794.

76: Cerri E, Origlia N, Falsini B, Barloscio D, Fabiani C, Sansò M, Ottino S, Giovannini L, Domenici L. Conjunctivally Applied BDNF Protects Photoreceptors from Light-Induced Damage. *Transl Vis Sci Technol*. 2015 Nov 2;4(6):1. doi: 10.1167/tvst.4.6.1. PMID: 27190697; PMCID: PMC4867954.

77: Minnella AM, Federici M, Falsini B, Barbano L, Gambini G, Lanza A, Caporossi A, Savastano MC. Choroidal Thickness Changes After Intravitreal Ranibizumab for Exudative Age-Related Macular Degeneration. *BioDrugs*. 2016 Aug;30(4):353-9. doi: 10.1007/s40259-016-0179-0. PMID: 27189458.

78: Falsini B, Iarossi G, Chiaretti A, Ruggiero A, Manni L, Galli-Resta L, Corbo G, Abed E. Erratum to: NGF eye-drops topical administration in patients with retinitis pigmentosa, a pilot study. *J Transl Med*. 2016 Feb 8;14:43. doi: 10.1186/s12967-016-0800-5. Erratum for: *J Transl Med*. 2016;14:8. Luigi, Manni [corrected to Manni, Luigi]. PMID: 26856536; PMCID: PMC4746797.

79: Falsini B, Chiaretti A, Rizzo D, Piccardi M, Ruggiero A, Manni L, Soligo M, Dickmann A, Federici M, Salerni A, Timelli L, Guglielmi G, Lazzareschi I, Caldarelli M, Galli-Resta L, Colosimo C, Riccardi R. Nerve growth factor improves visual loss in childhood optic gliomas: a randomized, double-blind,

phase II clinical trial. *Brain*. 2016 Feb;139(Pt 2):404-14. doi: 10.1093/brain/awv366. Epub 2016 Jan 14. PMID: 26767384.

80: Falsini B, Iarossi G, Chiaretti A, Ruggiero A, Manni L, Galli-Resta L, Corbo G, Abed E. NGF eye-drops topical administration in patients with retinitis pigmentosa, a pilot study. *J Transl Med*. 2016 Jan 9;14:8. doi: 10.1186/s12967-015-0750-3. Erratum in: *J Transl Med*. 2016;14:43. Luigi, Manni [corrected to Manni, Luigi]. PMID: 26748988; PMCID: PMC4707001.

81: Rigante D, Verrecchia E, Falsini B, Manna R. Switch from anakinra to canakinumab in a severe case of CINCA syndrome. *Int J Rheum Dis*. 2016 Dec;19(12):1354-1356. doi: 10.1111/1756-185X.12800. Epub 2015 Nov 20. PMID: 26585548.

82: Ambrosio L, Ambrosio G, Nicoletti G, de Crecchio G, Falsini B. The value of multifocal electroretinography to predict progressive visual acuity loss in early AMD. *Doc Ophthalmol*. 2015 Oct;131(2):125-35. doi: 10.1007/s10633-015-9507-9. Epub 2015 Jul 2. PMID: 26135127.

83: Thompson DA, Ali RR, Banin E, Branham KE, Flannery JG, Gamm DM, Hauswirth WW, Heckenlively JR, Iannaccone A, Jayasundera KT, Khan NW, Molday RS, Pennesi ME, Reh TA, Weleber RG, Zacks DN; Monaciano Consortium. Advancing therapeutic strategies for inherited retinal degeneration: recommendations from the Monaciano Symposium. *Invest Ophthalmol Vis Sci*. 2015 Feb 9;56(2):918-31. doi: 10.1167/iovs.14-16049. PMID: 25667399; PMCID: PMC4554258.

84: Abed E, Piccardi M, Rizzo D, Chiaretti A, Ambrosio L, Petroni S, Parrilla R, Dickmann A, Riccardi R, Falsini B. Functional Loss of the Inner Retina in Childhood Optic Gliomas Detected by Photopic Negative Response. *Invest Ophthalmol Vis Sci*. 2015 Apr;56(4):2469-74. doi: 10.1167/iovs.14-16235. PMID: 25634980.

85: Domenici L, Origlia N, Falsini B, Cerri E, Barloscio D, Fabiani C, Sansò M, Giovannini L. Rescue of retinal function by BDNF in a mouse model of glaucoma. *PLoS One*. 2014 Dec 23;9(12):e115579. doi: 10.1371/journal.pone.0115579. PMID: 25536045; PMCID: PMC4275209.

86: Savastano MC, Minnella AM, Zinzanella G, Falsini B, Caporossi A. Successful long-term management of choroidal neovascularization secondary to angioid streaks in a patient with pseudoxanthoma elasticum: a case report. *J Med Case Rep*. 2014 Dec 22;8:458. doi: 10.1186/1752-1947-8-458. PMID: 25529762; PMCID: PMC4308002.

87: Zein WM, Falsini B, Tsilou ET, Turriff AE, Schultz JM, Friedman TB, Brewer CC, Zalewski CK, King KA, Muskett JA, Rehman AU, Morell RJ, Griffith AJ, Sieving PA. Cone responses in Usher syndrome types 1 and 2 by microvolt electroretinography. *Invest Ophthalmol Vis Sci*. 2014 Nov 25;56(1):107-14. doi: 10.1167/iovs.14-15355. PMID: 25425308; PMCID: PMC4288141.

88: Abed E, Corbo G, Falsini B. Neurotrophin family members as neuroprotectants in retinal degenerations. *BioDrugs*. 2015 Feb;29(1):1-13. doi: 10.1007/s40259-014-0110-5. PMID: 25408174.

89: Savastano MC, Ziccardi L, Zinzanella G, Falsini B, Minnella AM. Sequential spectral domain optical coherence tomography imaging of an eye after successful removal of subfoveal perfluorocarbon liquid collection. *Retin Cases Brief Rep*. 2014 Summer;8(3):215-8. doi: 10.1097/ICB.0000000000000046. PMID: 25372442.

90: Esposito Veneruso P, Ziccardi L, Magli G, Falsini B, Magli A. Short-term effects of vision trainer rehabilitation in patients affected by anisometropic amblyopia: electrofunctional evaluation. *Doc Ophthalmol*. 2014 Dec;129(3):177-89. doi: 10.1007/s10633-014-9462-x. Epub 2014 Oct 8. PMID: 25294024.

91: Parisi V, Centofanti M, Gandolfi S, Marangoni D, Rossetti L, Tanga L, Tardini M, Traina S, Ungaro N, Vetrugno M, Falsini B. Effects of coenzyme Q10 in conjunction with vitamin E on retinal-evoked and cortical-evoked responses in patients with open-angle glaucoma. *J Glaucoma*. 2014 Aug;23(6):391-404. doi: 10.1097/IJG.0b013e318279b836. PMID: 25079307.

92: Bisti S, Maccarone R, Falsini B. Saffron and retina: neuroprotection and pharmacokinetics. *Vis Neurosci*. 2014 Sep;31(4-5):355-61. doi: 10.1017/S0952523814000108. Epub 2014 May 12. PMID: 24819927.

93: Savastano MC, Minnella AM, Tamburrino A, Giovinco G, Ventre S, Falsini B. Differential vulnerability of retinal layers to early age-related macular degeneration: evidence by SD-OCT segmentation analysis. *Invest Ophthalmol Vis Sci*. 2014 Jan 29;55(1):560-6. doi: 10.1167/iovs.13-12172. PMID: 24408984.

94: Marangoni D, Falsini B, Piccardi M, Ambrosio L, Minnella AM, Savastano MC, Bisti S, Maccarone R, Fadda A, Mello E, Concolino P, Capoluongo E. Functional effect of Saffron supplementation and risk genotypes in early age-related macular degeneration: a preliminary report. *J Transl Med*. 2013 Sep 25;11:228. doi: 10.1186/1479-5876-11-228. PMID: 24067115; PMCID: PMC3850693.

95: Galli-Resta L, Piccardi M, Ziccardi L, Fadda A, Minnella A, Marangoni D, Placidi G, Resta G, Falsini B. Early detection of central visual function decline in cone-rod dystrophy by the use of macular focal cone electroretinogram. *Invest Ophthalmol Vis Sci*. 2013 Oct 9;54(10):6560-9. doi: 10.1167/iovs.13-12676. PMID: 24008410.

96: Giuffrè I, Falsini B, Gari MA, Balestrazzi E. Pattern electroretinogram assessment during ibopamine test in ocular hypertension. *Eur J Ophthalmol*. 2013 Nov-Dec;23(6):819-22. doi: 10.5301/ejo.5000334. Epub 2013 Jun 24. PMID: 23813108.

97: Scupola A, Mastrocola A, Sasso P, Fasciani R, Montrone L, Falsini B, Abed E.

Assessment of retinal function before and after idiopathic macular hole surgery. *Am J Ophthalmol*. 2013 Jul;156(1):132-139.e1. doi: 10.1016/j.ajo.2013.02.007. Epub 2013 May 8. PMID: 23664151.

98: Fadda A, Di Renzo A, Martelli F, Marangoni D, Batocchi AP, Giannini D, Parisi V, Falsini B. Reduced habituation of the retinal ganglion cell response to sustained pattern stimulation in multiple sclerosis patients. *Clin Neurophysiol*. 2013 Aug;124(8):1652-8. doi: 10.1016/j.clinph.2013.03.001. Epub 2013 Apr 6. PMID: 23571090.

99: Falsini B, Galli-Resta L, Fadda A, Ziccardi L, Piccardi M, Iarossi G, Resta G. Long-term decline of central cone function in retinitis pigmentosa evaluated by focal electroretinogram. *Invest Ophthalmol Vis Sci*. 2012 Nov 19;53(12):7701-9. doi: 10.1167/iovs.12-11017. PMID: 23111612.

100: Parisi V, Ziccardi L, Centofanti M, Tanga L, Gallinaro G, Falsini B, Bucci MG. Macular function in eyes with open-angle glaucoma evaluated by multifocal electroretinogram. *Invest Ophthalmol Vis Sci*. 2012 Oct 9;53(11):6973-80. doi: 10.1167/iovs.12-10256. PMID: 22969069.

101: Piccardi M, Marangoni D, Minnella AM, Savastano MC, Valentini P, Ambrosio L, Capoluongo E, Maccarone R, Bisti S, Falsini B. A longitudinal follow-up study of saffron supplementation in early age-related macular degeneration: sustained benefits to central retinal function. *Evid Based Complement Alternat Med*. 2012;2012:429124. doi: 10.1155/2012/429124. Epub 2012 Jul 18. PMID: 22852021; PMCID: PMC3407634.

102: Mello E, Falsini B, Zuppi C, Giardina B, Concolino P, Capoluongo E. Rapid detection of CFH (p.Y402H) and ARMS2 (p.A69S) polymorphisms in age-related macular degeneration using high-resolution melting analysis. *Clin Chem Lab Med*. 2012 Jan 13;50(6):1031-4. doi: 10.1515/cclm-2011-0859. PMID: 22706242.

103: Falsini B, Bisti S. Embryonic stem-cell-derived retinal pigment epithelial cells for macular degeneration. *Lancet*. 2012 Jun 2;379(9831):2050; author reply 2050-1. doi: 10.1016/S0140-6736(12)60890-3. PMID: 22656882.

104: Capoluongo E, Concolino P, Piccardi M, Marangoni D, Mello E, Minnella AM, Savastano C, Fadda A, Zuppi C, Bisti S, Falsini B. Retinal function and CFH-ARMS2 polymorphisms analysis: a pilot study in Italian AMD patients. *Neurobiol Aging*. 2012 Aug;33(8):1852.e5-12. doi: 10.1016/j.neurobiolaging.2012.03.008. Epub 2012 May 1. PMID: 22552255.

105: Marangoni D, Falsini B, Colotto A, Salgarello T, Anselmi G, Fadda A, Di Renzo A, Campos EC, Riva CE. Subfoveal choroidal blood flow and central retinal function in early glaucoma. *Acta Ophthalmol*. 2012 Jun;90(4):e288-94. doi: 10.1111/j.1755-3768.2011.02340.x. Epub 2012 Jan 23. PMID: 22268459.

106: Minnella AM, Savastano MC, Zinzanella G, Mazzone G, Federici M, Gari M,

Falsini B, Balestrazzi E. Spectral-domain optical coherence tomography in Irvine-Gass syndrome. *Retina*. 2012 Mar;32(3):581-7. doi: 10.1097/IAE.0b013e31821e2225. PMID: 21963486.

107: Chiaretti A, Falsini B, Aloe L, Pierri F, Fantacci C, Riccardi R. Neuroprotective role of nerve growth factor in hypoxicischemic injury. From brain to skin. *Arch Ital Biol*. 2011 Jun;149(2):275-82. doi: 10.4449/aib.v149i2.1364. PMID: 21702000.

108: Riva CE, Falsini B, Anselmi G, Gari M. Impiego clinico del Laser Doppler Flussometria (LDF) nello studio della circolazione coroideale sottofoveale [Clinic use of Laser Doppler Flowmetry (LDF) in the study of subfoveal choroidal circulation]. *Clin Ter*. 2011;162(1):61-4. Italian. PMID: 21448548.

109: Falsini B, Chiaretti A, Barone G, Piccardi M, Pierri F, Colosimo C, Lazzareschi I, Ruggiero A, Parisi V, Fadda A, Balestrazzi E, Riccardi R. Topical nerve growth factor as a visual rescue strategy in pediatric optic gliomas: a pilot study including electrophysiology. *Neurorehabil Neural Repair*. 2011 Jul-Aug;25(6):512-20. doi: 10.1177/1545968310397201. Epub 2011 Mar 26. PMID: 21444653.

110: Chiaretti A, Falsini B, Servidei S, Marangoni D, Pierri F, Riccardi R. Nerve growth factor eye drop administration improves visual function in a patient with optic glioma. *Neurorehabil Neural Repair*. 2011 May;25(4):386-90. doi: 10.1177/1545968310395601. Epub 2011 Feb 22. PMID: 21343523.

111: Rigante D, Savastano MC, Leone A, Falsini B, Baldascino A, La Torraca I, Lepore D, De Nisco A, Sacco E, Minnella AM. Occipital porencephaly in a child with gyrate atrophy of the choroid and retina. *J AAPOS*. 2010 Oct;14(5):462-4. doi: 10.1016/j.jaapos.2010.07.011. PMID: 21035079.

112: Falsini B, Anselmi GM, Marangoni D, D'Esposito F, Fadda A, Di Renzo A, Campos EC, Riva CE. Subfoveal choroidal blood flow and central retinal function in retinitis pigmentosa. *Invest Ophthalmol Vis Sci*. 2011 Feb 22;52(2):1064-9. doi: 10.1167/iovs.10-5964. PMID: 20861481.

113: Falsini B, Piccardi M, Minnella A, Savastano C, Capoluongo E, Fadda A, Balestrazzi E, Maccarone R, Bisti S. Influence of saffron supplementation on retinal flicker sensitivity in early age-related macular degeneration. *Invest Ophthalmol Vis Sci*. 2010 Dec;51(12):6118-24. doi: 10.1167/iovs.09-4995. Epub 2010 Aug 4. PMID: 20688744.

114: Parisi V, Ziccardi L, Stifano G, Montrone L, Gallinaro G, Falsini B. Impact of regional retinal responses on cortical visually evoked responses: multifocal ERGs and VEPs in the retinitis pigmentosa model. *Clin Neurophysiol*. 2010 Mar;121(3):380-5. doi: 10.1016/j.clinph.2009.09.032. Epub 2010 Jan 13. PMID: 20071230.

115: Scupola A, Tiberti AC, Sasso P, Savastano MC, Mastrocola A, Marangoni D, Minnella AM, Falsini B, Balestrazzi E. Macular functional changes evaluated with MP-1 microperimetry after intravitreal bevacizumab for subfoveal myopic choroidal neovascularization: one-year results. *Retina*. 2010 May;30(5):739-47. doi: 10.1097/IAE.0b013e3181c59725. PMID: 20038860.

116: Fadda A, Di Renzo A, Parisi V, Stifano G, Balestrazzi E, Riva CE, Falsini B. Lack of habituation in the light adapted flicker electroretinogram of normal subjects: a comparison with pattern electroretinogram. *Clin Neurophysiol*. 2009 Oct;120(10):1828-34. doi: 10.1016/j.clinph.2009.06.011. Epub 2009 Sep 15. PMID: 19758842.

117: Lochhead J, Movaffaghy A, Falsini B, Harding S, Riva C, Molyneux M. The effects of hypoxia on the ERG in paediatric cerebral malaria. *Eye (Lond)*. 2010 Feb;24(2):259-64. doi: 10.1038/eye.2009.162. Epub 2009 Jun 26. PMID: 19557018.

118: Piccardi M, Ziccardi L, Stifano G, Montrone L, Iarossi G, Minnella A, Fadda A, Balestrazzi E, Falsini B. Regional cone-mediated dysfunction in age-related maculopathy evaluated by focal electroretinograms: relationship with retinal morphology and perimetric sensitivity. *Ophthalmic Res*. 2009;41(4):194-202. doi: 10.1159/000217723. Epub 2009 May 15. PMID: 19451732.

119: Rigante D, Stabile A, Minnella A, Avallone L, Ziccardi L, Bersani G, Stifano G, Compagnone A, Falsini B. Post-inflammatory retinal dystrophy in CINCA syndrome. *Rheumatol Int*. 2010 Jan;30(3):389-93. doi: 10.1007/s00296-009-0939-y. Epub 2009 May 8. PMID: 19424698.

120: Falsini B, Marangoni D, Salgarello T, Stifano G, Montrone L, Di Landro S, Guccione L, Balestrazzi E, Colotto A. Effect of epigallocatechin-gallate on inner retinal function in ocular hypertension and glaucoma: a short-term study by pattern electroretinogram. *Graefes Arch Clin Exp Ophthalmol*. 2009 Sep;247(9):1223-33. doi: 10.1007/s00417-009-1064-z. Epub 2009 Mar 17. PMID: 19290537.

121: Riva CE, Falsini B. Functional laser Doppler flowmetry of the optic nerve: physiological aspects and clinical applications. *Prog Brain Res*. 2008;173:149-63. doi: 10.1016/S0079-6123(08)01111-4. PMID: 18929107.

122: Salgarello T, Falsini B, Stifano G, Montrone L, Iarossi G, Balestrazzi E, Colotto A. Morpho-functional follow-up of the optic nerve in treated ocular hypertension: disc morphometry and steady-state pattern electroretinogram. *Curr Eye Res*. 2008 Aug;33(8):709-21. doi: 10.1080/02713680802277692. PMID: 18696347.

123: Clinical Trial of Nutritional Supplements and Age-Related Cataract Study Group; Maraini G, Williams SL, Sperduto RD, Ferris F, Milton RC, Clemons TE, Rosmini F, Ferrigno L. A randomized, double-masked, placebo-controlled clinical trial of multivitamin supplementation for age-related lens opacities. *Clinical trial of nutritional supplements and age-related cataract report no. 3*.

Ophthalmology. 2008 Apr;115(4):599-607.e1. doi: 10.1016/j.ophtha.2008.01.005. PMID: 18387406.

124: Falsini B, Marangoni D, Salgarello T, Stifano G, Montrone L, Campagna F, Aliberti S, Balestrazzi E, Colotto A. Structure-function relationship in ocular hypertension and glaucoma: interindividual and interocular analysis by OCT and pattern ERG. *Graefes Arch Clin Exp Ophthalmol*. 2008 Aug;246(8):1153-62. doi: 10.1007/s00417-008-0808-5. Epub 2008 Apr 2. PMID: 18386035.

125: Parisi V, Coppola G, Ziccardi L, Gallinaro G, Falsini B. Cytidine-5'-diphosphocholine (Citicoline): a pilot study in patients with non-arteritic ischaemic optic neuropathy. *Eur J Neurol*. 2008 May;15(5):465-74. doi: 10.1111/j.1468-1331.2008.02099.x. Epub 2008 Mar 5. PMID: 18325025.

126: Falsini B, Ziccardi L, Lazzareschi I, Ruggiero A, Placentino L, Dickmann A, Liotti L, Piccardi M, Balestrazzi E, Colosimo C, Di Rocco C, Riccardi R. Longitudinal assessment of childhood optic gliomas: relationship between flicker visual evoked potentials and magnetic resonance imaging findings. *J Neurooncol*. 2008 May;88(1):87-96. doi: 10.1007/s11060-008-9537-1. Epub 2008 Feb 2. PMID: 18246407.

127: Minnella AM, Savastano CM, Ziccardi L, Scupola A, Falsini B, Balestrazzi E. Intravitreal bevacizumab (Avastin) in proliferative diabetic retinopathy. *Acta Ophthalmol*. 2008 Sep;86(6):683-7. doi: 10.1111/j.1600-0420.2007.01042.x. PMID: 17995986.

128: Falsini B, Ziccardi L, Stifano G, Iarossi G, Merendino E, Minnella AM, Fadda A, Balestrazzi E. Temporal response properties of the macular cone system: effect of normal aging and age-related maculopathy. *Invest Ophthalmol Vis Sci*. 2007 Oct;48(10):4811-7. doi: 10.1167/iovs.07-0306. PMID: 17898308.

129: Minnella AM, Falsini B, Petroni S, Montrone L, Zinzanella G, Bamonte G, Balestrazzi E. Ptosis after intravitreal injection of triamcinolone acetonide: a retrospective case series. *Ophthalmologica*. 2007;221(5):363. doi: 10.1159/000104769. PMID: 17728561.

130: Minnella AM, Falsini B, Bamonte G, Montrone L, Petroni S, Zinzanella G, Balestrazzi E. Optical coherence tomography and focal electroretinogram evaluation of cystoid macular edema secondary to retinitis pigmentosa treated with intravitreal triamcinolone: case report. *Eur J Ophthalmol*. 2006 Nov-Dec;16(6):883-6. doi: 10.1177/112067210601600620. PMID: 17191201.

131: Masciullo M, Modoni A, Pomponi MG, Tartaglione T, Falsini B, Tonali P, Silvestri G. Evidence of white matter involvement in SCA 7. *J Neurol*. 2007 Apr;254(4):536-8. doi: 10.1007/s00415-006-0274-0. Epub 2006 Sep 19. PMID: 16988791.

132: Pirozzi E, Manganelli C, Piccardi M, Minnella A, Fadda A, Ziccardi L,

Coccimiglio F, Falsini B. Retinal function following transpupillary thermotherapy for occult choroidal neovascularization in age-related macular degeneration: a short-term study by focal electroretinography. *Acta Ophthalmol Scand.* 2006 Feb;84(1):27-35. doi: 10.1111/j.1600-0420.2005.00529.x. PMID: 16445436.

133: Montrone L, Ziccardi L, Stifano G, Piccardi M, Molle F, Focosi F, Fadda A, Falsini B. Regional assessment of cone system function following uncomplicated retinal detachment surgery. *Doc Ophthalmol.* 2005 Jan;110(1):103-10. doi: 10.1007/s10633-005-7554-3. PMID: 16249961.

134: Falcinelli G, Falsini B, Taloni M, Colliardo P, Falcinelli G. Modified osteo-odonto-keratoprosthesis for treatment of corneal blindness: long-term anatomical and functional outcomes in 181 cases. *Arch Ophthalmol.* 2005 Oct;123(10):1319-29. doi: 10.1001/archophth.123.10.1319. PMID: 16219722.

135: Salgarello T, Colotto A, Valente P, Petrocelli G, Galan ME, Scullica L, Falsini B. Posterior pole retinal thickness in ocular hypertension and glaucoma: early changes detected by hemispheric asymmetries. *J Glaucoma.* 2005 Oct;14(5):375-83. doi: 10.1097/01.ijg.0000176933.14229.fc. PMID: 16148586.

136: Ziviello C, Simonelli F, Testa F, Anastasi M, Marzoli SB, Falsini B, Ghiglione D, Macaluso C, Manitto MP, Garrè C, Ciccodicola A, Rinaldi E, Banfi S. Molecular genetics of autosomal dominant retinitis pigmentosa (ADRP): a comprehensive study of 43 Italian families. *J Med Genet.* 2005 Jul;42(7):e47. doi: 10.1136/jmg.2005.031682. PMID: 15994872; PMCID: PMC1736108.

137: Riva CE, Logean E, Falsini B. Visually evoked hemodynamical response and assessment of neurovascular coupling in the optic nerve and retina. *Prog Retin Eye Res.* 2005 Mar;24(2):183-215. doi: 10.1016/j.preteyeres.2004.07.002. Epub 2004 Oct 22. PMID: 15610973.

138: Miggiano GA, Falsini B. Dieta e Vitamina A nel trattamento di forme "sensibili" di retinite pigmentosa [Diet and management of degenerative diseases of the retina (retinitis pigmentosa)]. *Clin Ter.* 2004 Jul-Aug;155(7-8):347-51. Italian. PMID: 15553263.

139: Riva CE, Salgarello T, Logean E, Colotto A, Galan EM, Falsini B. Flicker-evoked response measured at the optic disc rim is reduced in ocular hypertension and early glaucoma. *Invest Ophthalmol Vis Sci.* 2004 Oct;45(10):3662-8. doi: 10.1167/iovs.04-0100. PMID: 15452074.

140: Riva CE, Logean E, Falsini B. Temporal dynamics and magnitude of the blood flow response at the optic disk in normal subjects during functional retinal flicker-stimulation. *Neurosci Lett.* 2004 Feb 12;356(2):75-8. doi: 10.1016/j.neulet.2003.08.069. PMID: 14746867.

141: Trisciuzzi MT, Riccardi R, Piccardi M, Iarossi G, Buzzonetti L, Dickmann A,

Colosimo C Jr, Ruggiero A, Di Rocco C, Falsini B. A fast visual evoked potential method for functional assessment and follow-up of childhood optic gliomas. *Clin Neurophysiol.* 2004 Jan;115(1):217-26. doi: 10.1016/s1388-2457(03)00282-7. PMID: 14706491.

142: Falsini B, Focosi F, Molle F, Manganelli C, Iarossi G, Fadda A, Dorin G, Mainster MA. Monitoring retinal function during transpupillary thermotherapy for occult choroidal neovascularization in age-related macular degeneration. *Invest Ophthalmol Vis Sci.* 2003 May;44(5):2133-40. doi: 10.1167/iovs.02-0716. PMID: 12714653.

143: Lochhead J, Movaffaghy A, Falsini B, Winstanley PA, Mberu EK, Riva CE, Molyneux ME, Taylor TE, Harding SP. The effect of quinine on the electroretinograms of children with pediatric cerebral malaria. *J Infect Dis.* 2003 Apr 15;187(8):1342-5. doi: 10.1086/374058. Epub 2003 Apr 2. PMID: 12696018.

144: Strettoi E, Pignatelli V, Rossi C, Porciatti V, Falsini B. Remodeling of second-order neurons in the retina of rd/rd mutant mice. *Vision Res.* 2003 Apr;43(8):867-77. doi: 10.1016/s0042-6989(02)00594-1. PMID: 12668056.

145: Iarossi G, Falsini B, Piccardi M. Regional cone dysfunction in retinitis pigmentosa evaluated by flicker ERGs: relationship with perimetric sensitivity losses. *Invest Ophthalmol Vis Sci.* 2003 Feb;44(2):866-74. doi: 10.1167/iovs.01-1256. PMID: 12556423.

146: Falsini B, Piccardi M, Iarossi G, Fadda A, Merendino E, Valentini P. Influence of short-term antioxidant supplementation on macular function in age-related maculopathy: a pilot study including electrophysiologic assessment. *Ophthalmology.* 2003 Jan;110(1):51-60; discussion 61. doi: 10.1016/s0161-6420(02)01547-6. PMID: 12511345.

147: Scullica L, Falsini B, Salgarello T, Colotto A, Scullica MG. Pattern electroretinogram losses underlying perimetric losses in early glaucoma. *Acta Ophthalmol Scand Suppl.* 2002;236:27-8. doi: 10.1034/j.1600-0420.80.s236.17.x. PMID: 12390123.

148: Parisi V, Canu D, Iarossi G, Olzi D, Falsini B. Altered recovery of macular function after bleaching in Stargardt's disease-fundus flavimaculatus: pattern VEP evidence. *Invest Ophthalmol Vis Sci.* 2002 Aug;43(8):2741-8. PMID: 12147611.

149: Strettoi E, Porciatti V, Falsini B, Pignatelli V, Rossi C. Morphological and functional abnormalities in the inner retina of the rd/rd mouse. *J Neurosci.* 2002 Jul 1;22(13):5492-504. doi: 10.1523/JNEUROSCI.22-13-05492.2002. PMID: 12097501; PMCID: PMC6758223.

150: Falsini B, Riva CE, Logean E. Flicker-evoked changes in human optic nerve blood flow: relationship with retinal neural activity. *Invest Ophthalmol Vis Sci.* 2002 Jul;43(7):2309-16. PMID: 12091432.

151: Falsini B, Riva CE, Logean E. Relationship of blood flow changes of the human optic nerve with neural retinal activity: a new approach to the study of neuro-ophthalmic disorders. *Klin Monbl Augenheilkd*. 2002 Apr;219(4):296-8. doi: 10.1055/s-2002-30657. PMID: 12022022.

152: Lyubarsky AL, Lem J, Chen J, Falsini B, Iannaccone A, Pugh EN Jr. Functionally rodless mice: transgenic models for the investigation of cone function in retinal disease and therapy. *Vision Res*. 2002 Feb;42(4):401-15. doi: 10.1016/s0042-6989(01)00214-0. PMID: 11853756.

153: Scullica L, Falsini B. Diagnosis and classification of macular degenerations: an approach based on retinal function testing. *Doc Ophthalmol*. 2001 May;102(3):237-50. doi: 10.1023/a:1017562532731. PMID: 11556487.

154: Logean E, Falsini B, Riva CE. Effet du papillotement chromatique sur la circulation du nerf optique [Effect of chromatic flicker on circulation of the optic nerve]. *Klin Monbl Augenheilkd*. 2001 May;218(5):345-7. French. doi: 10.1055/s-2001-15896. PMID: 11417332.

155: Salgarello T, Falsini B, Tedesco S, Galan ME, Colotto A, Scullica L. Correlation of optic nerve head tomography with visual field sensitivity in papilledema. *Invest Ophthalmol Vis Sci*. 2001 Jun;42(7):1487-94. PMID: 11381051.

156: Colotto A, Salgarello T, Falsini B, Galan ME, Giudiceandrea A, Piccardi M, Scullica L. Discriminating between early glaucoma and ocular hypertension: diagnostic accuracy of pattern electroretinogram and confocal scanning laser optic disc morphometry. *Acta Ophthalmol Scand Suppl*. 2000;(232):40-1. doi: 10.1111/j.1600-0420.2000.tb01096.x. PMID: 11235529.

157: Riva CE, Falsini B, Logean E. Flicker-evoked responses of human optic nerve head blood flow: luminance versus chromatic modulation. *Invest Ophthalmol Vis Sci*. 2001 Mar;42(3):756-62. PMID: 11222538.

158: Colotto A, Falsini B, Salgarello T, Iarossi G, Galan ME, Scullica L. Photopic negative response of the human ERG: losses associated with glaucomatous damage. *Invest Ophthalmol Vis Sci*. 2000 Jul;41(8):2205-11. PMID: 10892864.

159: Riva CE, Logean E, Petrig BL, Falsini B. Effet de l'adaptation à l'obscurité sur le flux rétinien [Effect of dark adaptation on retinal blood flow]. *Klin Monbl Augenheilkd*. 2000 May;216(5):309-10. French. doi: 10.1055/s-2000-10990. PMID: 10863700.

160: Falsini B, Fadda A, Iarossi G, Piccardi M, Canu D, Minnella A, Serrao S, Scullica L. Retinal sensitivity to flicker modulation: reduced by early age-related maculopathy. *Invest Ophthalmol Vis Sci*. 2000 May;41(6):1498-506. PMID: 10798669.

- 161: Falsini B, Iarossi G, Fadda A, Porrello G, Valentini P, Piccardi M, Scullica L. The fundamental and second harmonic of the photopic flicker electroretinogram: temporal frequency-dependent abnormalities in retinitis pigmentosa. *Clin Neurophysiol.* 1999 Sep;110(9):1554-62. doi: 10.1016/s1388-2457(99)00106-6. PMID: 10479022.
- 162: Salgarello T, Colotto A, Falsini B, Buzzonetti L, Cesari L, Iarossi G, Scullica L. Correlation of pattern electroretinogram with optic disc cup shape in ocular hypertension. *Invest Ophthalmol Vis Sci.* 1999 Aug;40(9):1989-97. PMID: 10440253.
- 163: Porrello G, Falsini B. Retinal ganglion cell dysfunction in humans following post-geniculate lesions: specific spatio-temporal losses revealed by pattern ERG. *Vision Res.* 1999 May;39(9):1739-45. doi: 10.1016/s0042-6989(98)00272-7. PMID: 10343865.
- 164: Falsini B, Serrao S, Fadda A, Iarossi G, Porrello G, Cocco F, Merendino E. Focal electroretinograms and fundus appearance in nonexudative age-related macular degeneration. Quantitative relationship between retinal morphology and function. *Graefes Arch Clin Exp Ophthalmol.* 1999 Mar;237(3):193-200. doi: 10.1007/s004170050218. PMID: 10090581.
- 165: Falsini B, Porrello G, Porciatti V, Fadda A, Salgarello T, Piccardi M. The spatial tuning of steady state pattern electroretinogram in multiple sclerosis. *Eur J Neurol.* 1999 Mar;6(2):151-62. doi: 10.1111/j.1468-1331.1999.tb00008.x. PMID: 10053227.
- 166: Colotto A, Salgarello T, Falsini B, Buzzonetti L, Cesari L, Errico D, Scullica L. Pattern electroretinogram and optic nerve topography in ocular hypertension. *Acta Ophthalmol Scand Suppl.* 1998;(227):27-9. doi: 10.1111/j.1600-0420.1998.tb00871.x. PMID: 9972333.
- 167: Parisi V, Falsini B. Electrophysiological evaluation of the macular cone system: focal electroretinography and visual evoked potentials after photostress. *Semin Ophthalmol.* 1998 Dec;13(4):178-88. doi: 10.3109/08820539809056051. PMID: 9878668.
- 168: Lyubarsky AL, Falsini B, Pennesi ME, Valentini P, Pugh EN Jr. UV- and midwave-sensitive cone-driven retinal responses of the mouse: a possible phenotype for coexpression of cone photopigments. *J Neurosci.* 1999 Jan 1;19(1):442-55. doi: 10.1523/JNEUROSCI.19-01-00442.1999. PMID: 9870972; PMCID: PMC6782392.
- 169: Fadda A, Falsini B. Precision LED-based stimulator for focal electroretinography. *Med Biol Eng Comput.* 1997 Jul;35(4):441-4. doi: 10.1007/BF02534106. PMID: 9327628.
- 170: Ciavarella P, Moretti G, Falsini B, Porciatti V. The pattern

electroretinogram (PERG) after laser treatment of the peripheral or central retina. *Curr Eye Res.* 1997 Feb;16(2):111-5. doi: 10.1076/ceyr.16.2.111.5094. PMID: 9068941.

171: Colotto A, Falsini B, Cesari L, Cermola S, Iarossi G, Salgarello T, Scullica L. Antimetabolites in glaucoma surgery: our experiences and results. *Acta Ophthalmol Scand Suppl.* 1997;(224):58-9. doi: 10.1111/j.1600-0420.1997.tb00484.x. PMID: 9589743.

172: Ripandelli G, Coppé AM, Falsini B, Fedeli R, Stirpe M. Complications in the removal of the posterior vitreous cortex. *Dev Ophthalmol.* 1997;29:55-60. doi: 10.1159/000060727. PMID: 9413694.

173: Colotto A, Falsini B, Salgarello T, Buzzonetti L, Cermola S, Porrello G. Transiently raised intraocular pressure reveals pattern electroretinogram losses in ocular hypertension. *Invest Ophthalmol Vis Sci.* 1996 Dec;37(13):2663-70. PMID: 8977480.

174: Falsini B, Porciatti V. The temporal frequency response function of pattern ERG and VEP: changes in optic neuritis. *Electroencephalogr Clin Neurophysiol.* 1996 Sep;100(5):428-35. PMID: 8893660.

175: Salgarello T, Tamburrelli C, Falsini B, Giudiceandrea A, Colotto A. Optic nerve diameters and perimetric thresholds in idiopathic intracranial hypertension. *Br J Ophthalmol.* 1996 Jun;80(6):509-14. doi: 10.1136/bjo.80.6.509. PMID: 8759260; PMCID: PMC505521.

176: Falsini B, Porciatti V, Porrello G, Merendino E, Minnella A, Cermola S, Buzzonetti L. Macular flicker electroretinograms in Best vitelliform dystrophy. *Curr Eye Res.* 1996 Jun;15(6):638-46. doi: 10.3109/02713689609008904. PMID: 8670767.

177: Marietti G, Bizzarri C, Perrone F, Zampino G, Conti G, Falsini B, Ricci B. La sindrome di Wolfram. Presentazione di un caso clinico particolare [Wolfram syndrome. Personal experience]. *Minerva Pediatr.* 1995 Apr;47(4):127-30. Italian. PMID: 7643810.

178: Falcinelli GC, Falsini B, Taloni M, Piccardi M, Falcinelli G. Detection of glaucomatous damage in patients with osteo-odontokeratoprosthesis. *Br J Ophthalmol.* 1995 Feb;79(2):129-34. doi: 10.1136/bjo.79.2.129. PMID: 7696231; PMCID: PMC505042.

179: Colotto A, Salgarello T, Giudiceandrea A, De Luca LA, Coppé A, Buzzonetti L, Falsini B. Pattern electroretinogram in treated ocular hypertension: a cross-sectional study after timolol maleate therapy. *Ophthalmic Res.* 1995;27(3):168-77. doi: 10.1159/000267663. PMID: 8538995.

180: Padovano S, Falsini B, Ciavarella P, Moretti G, Porciatti V. Spatial-

temporal interactions in the steady-state pattern electroretinogram. *Doc Ophthalmol.* 1995;90(2):169-76. doi: 10.1007/BF01203336. PMID: 7497888.

181: Falsini B, Porciatti V, Fadda A, Merendino E, Iarossi G, Cermola S. The first and second harmonics of the macular flicker electroretinogram: differential effects of retinal diseases. *Doc Ophthalmol.* 1995;90(2):157-67. doi: 10.1007/BF01203335. PMID: 7497887.

182: Falsini B, Iarossi G, Porciatti V, Merendino E, Fadda A, Cermola S, Buzzonetti L. Postreceptoral contribution to macular dysfunction in retinitis pigmentosa. *Invest Ophthalmol Vis Sci.* 1994 Dec;35(13):4282-90. PMID: 8002248.

183: Bagolini B, Falsini B, Cermola S, Porciatti V. Binocular interactions and steady-state VEPs. A study in normal and defective binocular vision (Part II). *Graefes Arch Clin Exp Ophthalmol.* 1994 Dec;32(12):737-44. doi: 10.1007/BF00184277. PMID: 7890188.

184: Di Leo MA, Caputo S, Falsini B, Porciatti V, Greco AV, Ghirlanda G. Presence and further development of retinal dysfunction after 3-year follow up in IDDM patients without angiographically documented vasculopathy. *Diabetologia.* 1994 Sep;37(9):911-6. doi: 10.1007/BF00400947. PMID: 7806021.

185: Greco AV, Di Leo MA, Caputo S, Falsini B, Porciatti V, Marietti G, Ghirlanda G. Early selective neuroretinal disorder in prepubertal type 1 (insulin-dependent) diabetic children without microvascular abnormalities. *Acta Diabetol.* 1994 Jun;31(2):98-102. doi: 10.1007/BF00570544. PMID: 7949230.

186: Porciatti V, Moretti G, Ciavarella P, Falsini B. The second harmonic of the electroretinogram to sinusoidal flicker: spatiotemporal properties and clinical application. *Doc Ophthalmol.* 1993;84(1):39-46. doi: 10.1007/BF01203281. PMID: 8223109.

187: Di Leo MA, Caputo S, Falsini B, Porciatti V, Minnella A, Greco AV, Ghirlanda G. Nonselective loss of contrast sensitivity in visual system testing in early type I diabetes. *Diabetes Care.* 1992 May;15(5):620-5. doi: 10.2337/diacare.15.5.620. PMID: 1516480.

188: Falsini B, Bardocci A, Cermola S, Porciatti V, Porrello G. Pattern electroretinogram as a function of spatial frequency after retrobulbar optic neuritis. *Doc Ophthalmol.* 1992;79(4):325-36. doi: 10.1007/BF00160947. PMID: 1633744.

189: Falsini B, Minnella A, Buzzonetti L, Merendino E, Porciatti V. Macular electroretinograms to flicker and pattern stimulation in lamellar macular holes. *Doc Ophthalmol.* 1992;79(2):99-108. doi: 10.1007/BF00156569. PMID: 1591973.

190: Falsini B, Tamburrelli C, Porciatti V, Anile C, Porrello G, Mangiola N. Pattern electroretinograms and visual evoked potentials in idiopathic

intracranial hypertension. *Ophthalmologica*. 1992;205(4):194-203. doi: 10.1159/000310341. PMID: 1484689.

191: Falsini B, Bardocci A, Porciatti V, Bolzani R, Piccardi M. Macular dysfunction in multiple sclerosis revealed by steady-state flicker and pattern ERGs. *Electroencephalogr Clin Neurophysiol*. 1992 Jan;82(1):53-9. doi: 10.1016/0013-4694(92)90182-h. PMID: 1370144.

192: Ghirlanda G, Di Leo MA, Caputo S, Falsini B, Porciatti V, Marietti G, Greco AV. Detection of inner retina dysfunction by steady-state focal electroretinogram pattern and flicker in early IDDM. *Diabetes*. 1991 Sep;40(9):1122-7. doi: 10.2337/diab.40.9.1122. PMID: 1936619.

193: Falsini B, Porciatti V, Bolzani R, Marchionni A. Spatial-frequency-dependent changes in the human pattern electroretinogram after acute acetyl-L-carnitine administration. *Graefes Arch Clin Exp Ophthalmol*. 1991;229(3):262-6. doi: 10.1007/BF00167881. PMID: 1869064.

194: Di Leo MA, Falsini B, Caputo S, Ghirlanda G, Porciatti V, Greco AV. Spatial frequency-selective losses with pattern electroretinogram in type 1 (insulin-dependent) diabetic patients without retinopathy. *Diabetologia*. 1990 Dec;33(12):726-30. doi: 10.1007/BF00400342. PMID: 2073985.

195: Marietti G, Pantanella P, Chiaretti A, Parenti D, Stabile A, Falsini B. Morbo di Wilson. Segnalazione di un caso con particolare riferimento allo studio di potenziali evocati visivi [Wilson's disease. Presentation of a case with special reference to the study of evoked visual potentials]. *Minerva Pediatr*. 1990 Nov;42(11):489-93. Italian. PMID: 2082176.

196: Errico P, Falsini B, Porciatti V, Cefalá FM. The human focal electroretinogram as a function of stimulus area. *Doc Ophthalmol*. 1990 Aug;75(1):41-8. doi: 10.1007/BF00142592. PMID: 2265575.

197: Caputo S, Di Leo MA, Falsini B, Ghirlanda G, Porciatti V, Minella A, Greco AV. Evidence for early impairment of macular function with pattern ERG in type I diabetic patients. *Diabetes Care*. 1990 Apr;13(4):412-8. doi: 10.2337/diacare.13.4.412. PMID: 2318101.

198: Falsini B, Porciatti V, Scalia G, Caputo S, Minnella A, Di Leo MA, Ghirlanda G. Steady-state pattern electroretinogram in insulin-dependent diabetics with no or minimal retinopathy. *Doc Ophthalmol*. 1989 Oct;73(2):193-200. doi: 10.1007/BF00155037. PMID: 2638628.

199: Bagolini B, Porciatti V, Falsini B, Neroni M, Fadda A, Merendino E, Moretti G. Simultaneous foveal and parafoveal electroretinograms in hereditary degeneration of the central retina. *Doc Ophthalmol*. 1989 Apr;71(4):435-43. doi: 10.1007/BF00152772. PMID: 2791851.

200: Fadda A, Falsini B, Neroni M, Porciatti V. Development of personal computer software for a visual electrophysiology laboratory. *Comput Methods Programs Biomed.* 1989 Jan;28(1):45-50. doi: 10.1016/0169-2607(89)90180-6. PMID: 2924551.

201: Porciatti V, Falsini B, Fadda A, Neroni M, Minnella A, Scalia G. Changes in spatial tuning of the pattern electroretinogram with age. *Metab Pediatr Syst Ophthalmol* (1985). 1989;12(1-3):74-5. PMID: 2770526.

202: Bagolini B, Porciatti V, Falsini B, Scalia G, Neroni M, Moretti G. Macular electroretinogram as a function of age of subjects. *Doc Ophthalmol.* 1988 Sep;70(1):37-43. doi: 10.1007/BF00154734. PMID: 3229292.

203: Porciatti V, Falsini B, Scalia G, Fadda A, Fontanesi G. The pattern electroretinogram by skin electrodes: effect of spatial frequency and age. *Doc Ophthalmol.* 1988 Sep;70(1):117-22. doi: 10.1007/BF00154742. PMID: 3229289.

204: Bagolini B, Porciatti V, Falsini B, Scalia G, Merendino E. Simultaneously recorded macular and paramacular ERGs in diseases affecting the central retina. *Doc Ophthalmol.* 1988 Mar-Apr;68(3-4):273-82. doi: 10.1007/BF00156433. PMID: 3402316.

205: Bagolini B, Porciatti V, Falsini B. Binocular interaction and steady-state visual evoked potentials. I. A study in normal subjects and in subjects with defective binocular vision. *Graefes Arch Clin Exp Ophthalmol.* 1988;226(5):401-6. doi: 10.1007/BF02169996. PMID: 3192086.

206: Porciatti V, Falsini B, Brunori S, Colotto A, Moretti G. Pattern electroretinogram as a function of spatial frequency in ocular hypertension and early glaucoma. *Doc Ophthalmol.* 1987 Mar;65(3):349-55. doi: 10.1007/BF00149941. PMID: 3678006.

207: Bagolini B, Porciatti V, Falsini B, Neroni M, Moretti G. Simultaneous macular and paramacular ERGs recorded by standard techniques. *Doc Ophthalmol.* 1987 Mar;65(3):343-8. doi: 10.1007/BF00149940. PMID: 3678005.

208: Ricci B, Molle F, Falsini B, Lacerra F. Fluorescein angiography in retinoblastoma. *Am J Ophthalmol.* 1982 Dec;94(6):824-5. doi: 10.1016/0002-9394(82)90322-1. PMID: 7180924.

BIBLIOGRAPHY: BOOK CHAPTERS

1998 - Pugh EN, Falsini B, Lyubarski AL (1998). Origin of the Major rod and cone-driven components of the rodent electroretinogram and the effect of age and light-rearing history on the magnitude of these components. In: Williams TP and Thistle AB. *Photostasis and Related Phenomena*. NEW YORK: Plenum Press, ISBN: 0306458063

2013 - Falsini B, Bush R, Sieving PA. Neuroprotection. In: *Retina* (ed: S Ryan).

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