Personal Data and Curriculum Vitae Dott. Settimio Rossi

Settimio Rossi
born in Pompei-Italy in 30/06/1978
resident in Naples-Italy
Via Nardones 66.

Education and training

1996 – 2002. School of Medicine of the Second University of Naples, Naples, Italy. Graduate student
August 1999 - September 1999; August 2000 - September 2000; August 2001 - September 2001. Penn University Scheye Eye Institute Phladelphia, U.S.A. Clerkship
2002- 2006. Department of Ophthalmology of the School of Medicine of the Second University of Naples Naples, Italy. Ophthalmology Residency
2003 Order of physicians of Naples, number 41047

Employment and research experience

2002 – present works at Center for Retinal Desease of Department of Ophthalmology of Second University of Naples
2002 - present, works at Center for Retinal Degenerations of Department of Ophthalmology of Second University of Naples.
2006 – 2015 Research Scientist, Second University of Naples, Italy.
2015 – present Associate Professor Second University of Naples, Italy.

Research Support

Co-Investigator project: “A Phase I Safety Study in Subjects with Leber Congenital Amaurosis (LCA) using Adeno-Associated Viral Vector to deliver the gene for human RPE65 into the Retinal Pigment Epithelium (RPE) [AAV.RPE65-101]: Treatment and Follow up of 3 Italian Patients”. Funded by Fondazione Telethon. (185.400 €; 2007-2009; Grant n° GGP07180)

Co-Investigator project: “A Safety and Efficacy Study in Subjects with Leber Congenital Amaurosis (LCA) Using Adeno-Associated Viral Vector to Deliver the Gene for Human RPE65 to the Retinal Pigment Epithelium (RPE) [AAV2-hRPE65v2-301]: treatment and follow up of 3 Italian patients”. Funded by Fondazione Telethon. (230.000 €; 2010 -2014; Grant n° GGP10199)

Co-investigator "Therapeutic Approaches for ABCA4-Associated Disorders". Funded by National Eye Institute. ($ 1.502.680; 2010-2015; Grant 1R24EY019861-01A1).
Co-investigator "Clinical and Molecular Studies in Families with Corneal Dystrophy or Other Inherited Corneal Diseases" funded by National Eye Institute (NEI) (147.000 $; 2010-2013 - Grant project 04-EI-0008)

Co-investigator “Fighting blindness of Usher syndrome: diagnosis, pathogenesis and retinal treatment” (Treatrush) funded by European Commission FP7 (500.000 €; 2010-2014; Grant n° 242013)

Co-investigator "Define the clinical history of the disease for the future design of clinical trials.", funded by Telethon – SHIRE (213.500€, 2014 – 2017)
Co-investigator "Retinitis Pigmentosa: an integrated application of novel strategies towards diagnosis and treatment", funded by Fondazione ROMA (561.000 €, 2015-2018)

Co-investigator “A 12 months, open-label, interventional, multicentre study to investigate the current criteria driving re-treatment with ranibizumab upon relapse in patients with visual impairment due to choroidal neovascularization secondary to pathologic miopia” (CRFB002FIT01)

Co-investigator “An open-label, multicenter, expanded access program of ranibizumab in patients with visual impairment due to diabetic macular edema for whom no suitable therapeutic alternatives exist”. (EAP CRFB002DIT01)

Co-investigator “24 week phase Ib/II, multicenter, randomized, double-masked, vehicle controlled, parallel group, dose ranging study with a 24 week follow-up period to evaluate the safety and potential efficacy of two doses (60 and 180 µg/ml) of recombinant human nerve growth factor (rhNGF) eye drops solution versus vehicle in patients with typical retinitis pigmentosa (RP)”. (NGF0113 – Lumos)

Co-investigator SUN Site "Phase I/IIa Study of StarGen in Patients With Stargardt's Macular Degeneration" (Stargen, Sanofi)
Principal investigator SUN Site "Study of UshStat in Patients With Retinitis Pigmentosa Associated With Usher Syndrome Type 1B" (Ushstat, Sanofi)

Co-investigator “Clinical trial of gene therapy with dual AAV vectors for retinitis pigmentosa in patients with Usher syndrome type IB (USHTHER)” European Commission H2020 - GRANT # 754848, Telethon Institute of Genetics and Medicine.

Co-investigator “Efficacy and safety of transcriptional repressors as biotherapeutics for the treatment of autosomal dominant retinitis pigmentosa (ADRP)”- RetSwitches. Fondazione Telethon (07/2011-06/2014), Telethon Institute of Genetics and Medicine.

Co-investigator “Towards clinical trials for AAV-mediated eye and liver-direct gene therapy translation AAV”. Fondazione Telethon (07/2011-06/2014), Telethon Institute of Genetics and Medicine.

Co-investigator “DNA binding proteins for treatment of gain of function mutations- AlleleChoker ”. European Research Council (ERC) 02/2012-02/2018), Telethon Institute of Genetics and Medicine.

Principal Investigator of the Unit: PRIN 2015- “ Early neuroprotective and anti-inflammatory treatment to prevent the development of diabetic retinopathy ” Prot. 2015JXE7E8

Principal Investigator of the Unit: PON03PE_00060_7 - 2016 - “sviluppo preclinico di nuove terapie e di strategie innovative per la produzione di molecole ad azione farmacologica”

Principal Investigator of the Unit: PON03PE_00060_8 – 2016 - “sviluppo e valutazione preclinica e clinica di fase 0 e fase 1 di molecole ad azione nutraceutica, cosmeceutica, farmaceutica e nuove indicazioni terapeutiche per molecole già approvate”.

Awards:
Foundation Fighting Blindness award for gene therapy in Leber Congenital Amaurosis (23/03/2009)

Collaborations:

Department of Ophthalmology of the University of Pennsylvania
Department of Ophthalmology of the Columbia University

Publications:

1. Testa F, Melillo P, **Rossi S**, Marcelli V, de Benedictis A, Colucci R, Gallo B, Brunetti-Pierri R, Donati S, Azzolini C, Marciano E, Simonelli F. Prevalence of macular abnormalities assessed by optical coherence tomography in patients with Usher syndrome. Ophthalmic Genet. 2017 Jul 13:1-5.

2. Melillo P, Riccio D, Di Perna L, Sanniti Di Baja G, De Nino M, **Rossi** S, Testa F, Simonelli F, Frucci M. Wearable Improved Vision System for Color Vision Deficiency Correction. IEEE J Transl Eng Health Med. 2017 May 2;5:3800107.
Melillo P, Orrico A, Chirico F, Pecchia L, Rossi S, Testa F, Simonelli F. Identifying fallers among ophthalmic patients using classification tree methodology. PLoS One. 2017 Mar 23;12(3):e0174083.

3. Maisto R, Gesualdo C, Trotta MC, Grieco P, Testa F, Simonelli F, Barcia JM, D'Amico M, Di Filippo C, **Rossi S**. Melanocortin receptor agonists MCR(1-5) protect photoreceptors from high-glucose damage and restore antioxidant enzymes inprimary retinal cell culture.J Cell Mol Med. 2017 May;21(5):968-974.

4. Melillo P, Orrico A, Chirico F, Pecchia L, Rossi S, Testa F, Simonelli F. Identifying fallers among ophthalmic patients using classification tree methodology. PLoS One. 2017 Mar 23;12(3):e0174083.

5. **Rossi S**, Gesualdo C, Maisto R, Trotta MC, Di Carluccio N, Brigida A, Di Iorio V, Testa F, Simonelli F, D'Amico M, Di Filippo C. High Levels of Serum Ubiquitin and Proteasome in a Case of HLA-B27 Uveitis. Int J Mol Sci. 2017 Feb 26;18(3).pii: E505. doi: 10.3390/ijms18030505. PubMed PMID: 28245629.

6. Esposito G, Testa F, Zacchia M, Crispo AA, Di Iorio V, Capolongo G, Rinaldi L, D'Antonio M, Fioretti T, Iadicicco P, Rossi S, Franzè A, Marciano E, Capasso G, Simonelli F, Salvatore F. Genetic characterization of Italian patients with Bardet-Biedl syndrome and correlation to ocular, renal and audio-vestibular phenotype: identification of eleven novel pathogenic sequence variants. BMC Med Genet. 2017 Feb 1;18(1):10. doi: 10.1186/s12881-017-0372-0. PubMed PMID: 28143435; PubMed Central PMCID: PMC5286791.

7. Testa F, Melillo P, Bonnet C, Marcelli V, de Benedictis A, Colucci R, Gallo B, Kurtenbach A, Rossi S, Marciano E, Auricchio A, Petit C, Zrenner E, Simonelli F. Clinical presentation and disease course of Usher Syndrome because of mutations in MYO7A or USH2A. Retina. 2016 Nov 8.

8. Rossi S, Testa F, Melillo P, Orrico A, Della Corte M, Simonelli F. Functional improvement assessed by multifocal electroretinogram after Ocriplasmin treatment for vitreomacular traction. BMC Ophthalmol. 2016 Jul 18;16:110.

doi:10.1186/s12886-016-0284-3. PubMed PMID: 27430356; PubMed Central PMCID:PMC4949888.

9. Melillo P, Testa F, Rossi S, Di Iorio V, Orrico A, Auricchio A, Simonelli F. En Face Spectral-Domain Optical Coherence Tomography for the Monitoring of Lesion Area Progression in Stargardt Disease. Invest Ophthalmol Vis Sci. 2016 Jul 1;57(9):OCT247-52.

10. Rossi S, De Rosa G, D'Alterio FM, Orrico A, Banfi S, Testa F, Simonelli F. Intrafamilial heterogeneity of congenital optic disc pit maculopathy. Ophthalmic Genet. 2016 Jun 8:1-6. [Epub ahead of print] PubMed PMID: 27268460.

11. Botta S, Marrocco E, de Prisco N, Curion F, Renda M, Sofia M, Lupo M, Carissimo A, Bacci ML, Gesualdo C, Rossi S, Simonelli F, Surace EM. Rhodopsin targeted transcriptional silencing by DNA-binding. Elife. 2016 Mar 14;5:e12242. doi: 10.7554/eLife.12242. PubMed PMID: 26974343; PubMed Central PMCID: PMC4805542.

12. Rossi S, Maisto R, Gesualdo C, Trotta MC, Ferraraccio F, Kaneva MK, Getting SJ, Surace E, Testa F, Simonelli F, Grieco P, Merlino F, Perretti M, D'Amico M, Di Filippo C. Activation of Melanocortin Receptors MC 1 and MC 5 Attenuates Retinal Damage in Experimental Diabetic Retinopathy. Mediators Inflamm. 2016;2016:7368389. doi: 10.1155/2016/7368389. PubMed PMID: 26949291; PubMed Central PMCID: PMC4753692.

13. Rossi S, Orrico A, Melillo P, Testa F, Simonelli F, Della Corte M. Ocriplasmin use in a selected case with preserved visual acuity. BMC Ophthalmol. 2015 Oct 29;15:146. doi: 10.1186/s12886-015-0141-9. PubMed PMID: 26511080; PubMed Central PMCID: PMC4625444.

14. Trapani I, Toriello E, de Simone S, Colella P, Iodice C, Polishchuk EV, Sommella A, Colecchi L, Rossi S, Simonelli F, Giunti M, Bacci ML, Polishchuk RS, Auricchio A. Improved dual AAV vectors with reduced expression of truncated proteins are safe and effective in the retina of a mouse model of Stargardt disease. Hum Mol Genet. 2015 Dec 1;24(23):6811-25.

15. Melillo P, Orrico A, Attanasio M, Rossi S, Pecchia L, Chirico F, Testa F, Simonelli F. A pilot study for development of a novel tool for clinical decision making to identify fallers among ophthalmic patients. BMC Med Inform Decis Mak. 2015;15 Suppl 3:S6. doi: 10.1186/1472-6947-15-S3-S6. PubMed PMID: 26391731; PubMed Central PMCID: PMC4705496.

16. Rossi S, Di Filippo C, Gesualdo C, Testa F, Trotta MC, Maisto R, Ferraro B, Ferraraccio F, Accardo M, Simonelli F, D'Amico M. Interplay between Intravitreal RvD1 and Local Endogenous Sirtuin-1 in the Protection from Endotoxin-Induced Uveitis in Rats. Mediators Inflamm. 2015;2015:126408. doi: 10.1155/2015/126408. PubMed PMID: 26180376; PubMed Central PMCID: PMC4477183.

17. Rossi S, Orrico A, Santamaria C, Romano V, De Rosa L, Simonelli F, De Rosa G. Standard versus trans-epithelial collagen cross-linking in keratoconus patients suitable for standard collagen cross-linking. Clin Ophthalmol. 2015 Mar 18;9:503-9. doi: 10.2147/OPTH.S73991. PubMed PMID: 25834386; PubMed Central PMCID: PMC4370945.

18. Rossi S, Di Filippo C, Gesualdo C, Potenza N, Russo A, Trotta MC, Zippo MV, Maisto R, Ferraraccio F, Simonelli F, D'Amico M. Protection from endotoxic uveitis by intravitreal Resolvin D1: involvement of lymphocytes, miRNAs, ubiquitin-proteasome, and M1/M2 macrophages. Mediators Inflamm. 2015;2015:149381. doi: 10.1155/2015/149381. PubMed PMID: 25684860; PubMed Central PMCID: PMC4312647.

19. Di Filippo C, Zippo MV, Maisto R, Trotta MC, Siniscalco D, Ferraro B, Ferraraccio F, La Motta C, Sartini S, Cosconati S, Novellino E, Gesualdo C, Simonelli F, Rossi S, D'Amico M. Inhibition of ocular aldose reductase by a new benzofuroxane derivative ameliorates rat endotoxic uveitis. Mediators Inflamm. 2014;2014:857958. doi: 10.1155/2014/857958. PubMed PMID: 25435715; PubMed Central PMCID: PMC4243589.

20. Testa F, Melillo P, Di Iorio V, Orrico A, Attanasio M, Rossi S, Simonelli F. Macular function and morphologic features in juvenile stargardt disease: longitudinal study. Ophthalmology. 2014 Dec;121(12):2399-405. doi: 10.1016/j.ophtha.2014.06.032. PubMed PMID: 25097154; PubMed Central PMCID: PMC4252720.

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23. Testa F, Rossi S, Colucci R, Gallo B, Di Iorio V, della Corte M, Azzolini C, Melillo P, Simonelli F. Macular abnormalities in Italian patients with retinitis pigmentosa. Br J Ophthalmol. 2014 Jul;98(7):946-50. doi: 10.1136/bjophthalmol-2013-304082. PubMed PMID: 24532797; PubMed Central PMCID: PMC4078675.

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33. Rossi S, Testa F, Gargiulo A, Di Iorio V, Pierri RB, D'Alterio FM, Corte MD, Surace E, Simonelli F. The role of optical coherence tomography in an atypical case of oculocutaneous albinism: a case report. Case Rep Ophthalmol. 2012 Jan;3(1):113-7. doi: 10.1159/000337489. PubMed PMID: 22548044; PubMed Central PMCID:

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34. Esposito G, De Falco F, Tinto N, Testa F, Vitagliano L, Tandurella IC, Iannone L, Rossi S, Rinaldi E, Simonelli F, Zagari A, Salvatore F. Comprehensive mutation analysis (20 families) of the choroideremia gene reveals a missense variant that prevents the binding of REP1 with Rab geranylgeranyl transferase. Hum Mutat. 2011 Dec;32(12):1460-9. doi: 10.1002/humu.21591. PubMed PMID: 21905166.

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