



Prof. Dr. **Enrica Stretto** is a Director of Research at the Neuroscience Institute of the National Research Council (CNR) in Pisa and adjunct Professor of Neurogenomics at the University of Pisa.

Enrica Stretto is author of over 75 peer reviewed publications, with about 6,000 citations and an H index of 34 (Scopus). She also authored numerous book chapters and contributions to encyclopaedias.

### **EXPERIENCE AND TRAINING**

**1983:** degree in Biological Science, University of Pisa.

**1986-88:** Postdoctoral Fellow, Harvard Medical School, Department of Anatomy and Cellular Biology, Boston, USA

**1989:** Ph.D. in Neuroscience, University of Pisa

**1988-2001:** Research Scientist, CNR Neuroscience Institute, Pisa

**1998-2005:** Responsible for animal experimentation, CNR Neuroscience Institute, Pisa

**2001-2018:** Senior research Scientist, CNR Neuroscience Institute, Pisa

**2005-2015:** Director Delegate (RUOS), Head of the Pisa and Florence sites of the CNR Neuroscience Institute

**2011-2015:** Head of the national project “Neuroscience: Molecular bases and clinical applications“ of the CNR, Department of Biomedical Sciences Research Council (CNR),

**2016:** Visiting scientist at the Save Sight Research Institute, Sydney, Australia, Prof. Ulrike Grunert host.

**2018-present:** Research Director, CNR Neuroscience Institute, Pisa

### **HONOURS AND MEMBERSHIPS**

#### **Honours**

**2020:** Nominated in the list of “Outstanding women scientists in Europe” in the field of Vision Research and Ophthalmology. European Vision Research Institute, Brussels.

**2016:** Recipient of the International Research Collaborative Award IRCA), University of Sydney, Australia.

**2011:** Acknowledged by the Emory University Eye Center, Atlanta, USA, for “outstanding contributions to the field of Eye Research”.

**2010:** Mentioned for outstanding scientific results in the "Highlights 2009/2010" of the CNR.

**2009:** Recipient of the Award the “Associazione Toscana Retinopatici ed Ipovedenti onlus”, ATRI, for scientific research and personal dedication to the cure of retinal diseases.

#### **Commissions of trust (selection)**

**2020-21:** Member of GEV-Anvur (Ministry of University and Research) for the Biology section

**2018:** Ad hoc member, evaluating Committee, NIH Board of Scientific Councilors, Bethesda, USA

**2018-2020:** Member of the Short Term Mobility evaluation committee, CNR

**2018-2021:** Member, International Awards Committee, ARVO (Association for Research in Vision and Ophthalmology), USA

**2015-2018:** Member, Annual Meeting Program Committee of ARVO, USA

**2013:** Member, International search committee for the European Research Awardee

**2010:** Scientific evaluator, advanced ERC research award, EU

### **Editorial Board Membership**

**2018-present:**Scientific Reports

**2014-present:**Frontiers in Neuroanatomy

**2014–present:** The Journal of Comparative Neurology, Wiley-LISS, USA

### **FINANTIAL SUPPORT OF ONGOING RESEARCH PROJECTS**

- Pharmacological strategies for mutation-independent treatments of Retinitis Pigmentosa. **Velux Stiftung Foundation, Switzerland**
- Mutation-independent strategies to delay cone loss in typical Retinitis Pigmentosa: a translational study. **Allergan, Italy**
- In the eye of the observer: Visual processing at the heart of the retina (Switchboard). **European Union 2020 Innovative Training Network, Marie Curie Action**
- Slowing down Retinitis Pigmentosa with a mutation-independent approach: in vivo assessment on multiple animal models. **Fondazione Roma (ITALY)**

### **SELECTED PUBLICATIONS**

1. Napoli D, Biagioni M, Billeri F, Di Marco B, Orsini N, Novelli E, Strettoi E. Retinal Pigment Epithelium Remodeling in Mouse Models of Retinitis Pigmentosa. *Int J Mol Sci.* 2021 May 20;22(10):5381.
2. Format: Thompson DA, Iannaccone A, Ali RR, Arshavsky VY, Audo I, Bainbridge JWB, Besirli CG, Birch DG, Branham KE, Cideciyan AV, Daiger SP, Dalkara D, Duncan JL, Fahim AT, Flannery JG, Gattagna R, Heckenlively JR, Heon E, Jayasundera KT, Khan NW, Klassen H, Leroy BP, Molday RS, Musch DC, Pennesi ME, Petersen-Jones SM, Pierce EA, Rao RC, Reh TA, Sahel JA, Sharon D, Sieving PA, Strettoi E, Yang P, Zacks DN; Monaciano Consortium. Advancing Clinical Trials for Inherited Retinal Diseases: Recommendations from the Second Monaciano Symposium. *Transl Vis Sci Technol.* 2020 Jun 3;9(7):2.
3. Stefanov A, Novelli E, Strettoi E. Inner retinal preservation in the photoinducible I307N rhodopsin mutant mouse, a model of autosomal dominant retinitis pigmentosa. *J Comp Neurol.* 2020 Jun 15;528(9):1502-1522.
4. Guadagni V, Biagioni M, Novelli E, Aretini P, Mazzanti CM, Strettoi E. Rescuing cones and daylight vision in retinitis pigmentosa mice. *FASEB J.* 2019 Sep;33(9):10177-10192.
5. Gargini C, Novelli E, Piano I, Biagioni M, Strettoi E. Pattern of retinal morphological and functional decay in a light-inducible, rhodopsin mutant mouse. *Sci Rep.* 2017 Jul 18;7(1):5730.
6. Strettoi E, Masri RA, Grünert U. AII amacrine cells in the primate fovea contribute to photopic vision. *Sci Rep.* 2018 Nov 6;8(1):16429.
7. Guadagni V, Novelli E, Piano I, Gargini C, Strettoi E. Pharmacological approaches to retinitis pigmentosa: A laboratory perspective. *Prog Retin Eye Res.* 2015 Sep;48:62-81.
8. Damiani D, Novelli E, Mazzoni F, Strettoi E. Undersized dendritic arborizations in retinal ganglion cells of the rd1 mutant mouse: a paradigm of early onset photoreceptor degeneration. *J Comp Neurol.* 2012 May 1;520(7):1406-23.
9. Barone I, Novelli E, Piano I, Gargini C, Strettoi E. Environmental enrichment extends photoreceptor survival and visual function in a mouse model of retinitis pigmentosa. *PLoS One.* 2012;7(11):e50726.
10. Strettoi E, Gargini C, Novelli E, Sala G, Piano I, Gasco P, Ghidoni R. Inhibition of ceramide biosynthesis preserves photoreceptor structure and function in a mouse model of retinitis pigmentosa. *Proc Natl Acad Sci U S A.* 2010 Oct 26;107(43):18706-11.