Noemi Anna Pesce

Curriculum Vitae

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NOEMI ANNA PESCE

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Italian

POSITION AND EMPLOYMENT

- **01/07/24 - Present:** **Post-Doctoral Researcher** at **Consiglio Nazionale delle Ricerche** (CNR), Istituto di Cristallografia, **Catania**, Italy.

  Project: Mutational map of extracellular and vesicular DNA and effects on horizontal gene transfer in Uveal Melanoma

  Project: Deciphering the molecular basis of VDAC-Hexokinase interaction

- **01/07/23 - 31/12/23:** **Research Collaborator** at Laboratory of Experimental Biochemistry and Molecular Biology at **I.R.C.C.S. Ospedale Galeazzi, Milan**, Italy.

  Project: Hypoxia effects in the post-translational regulation mechanisms of the key-factors regulating survival and tumor progression of breast cancer cells.

- **05/07/21 - 30/11/22:** **Post-Doctoral Researcher** at Department of Medical Sciences, **University of Turin**, Italy.

  Project: Design of cellular models to study metabolic adaptation of chronic lymphocytic leukemia cells carrying distinct genetic lesions.

- **25/09/17 - 12/07/21:** **PhD student in Molecular Medicine** at Department of Molecular Medicine and Development, **University of Siena**, Italy.

  Project: Investigating non-canonical angiogenesis mechanisms associated with the uvea in a model of iris neovascularization.

  Project: Investigating mechanisms of autophagy in the neuroretina of newborn rats and in a rat model characterized by retinal dysfunction.

- **18/09/19 -18/12/20:** **PhD visiting** at Department of Clinical Neuroscience, **Karolinska Institutet**, **Stockholm**, Sweden.

  Project: Investigating the effects of targeting the uPAR/uPA system on angiogenic and inflammatory processes, using an in-vivo model of iris angiogenesis.

- **22/01/17 - 30/07/17:** **Erasmus Traineeship** at Department of Clinical Neuroscience, **Karolinska Institutet**, **Stockholm,** Sweden.

  Project: Analyzing the angiogenic effects of an inhibitor of the uPAR/uPA system, in a context of hypoxia-induced angiogenesis, using a novel ex-vivo human iris angiogenesis assay.

EDUCATION

- **09/17 - 07/21:** **PhD, Molecular Medicine,** Department of Molecular Medicine and Development, **University of Siena**, Italy
- **09/15 - 10/17:** **MSc, Biology applied to Biomedicine,** Department of Biology, **University of Pisa**, Italy
- **09/11 -04/15:** **BSc, Biological Sciences,** Department of Biology, **University of Pisa**, Italy

AWARDS AND CERTIFICATIONS

- **2019** Karin Sandqvist Foundation Award
- **2018** **Animal certificate:** Course in Laboratory Animal Science Function C&D - Rodents and lagomorphs **(categorie B, Directive 2010/63/EU)**, theory and practicals, released by Karolisnka Insitutet.

CONGRESSES

- **2022** **ISCAM (International Society for Cancer Metabolism), Turin, Italy.** "Functional cooperation between the b cell receptor and notch1 in driving metabolic adaptation of chronic lymphocytic leukemia cells". N. A. Pesce, M. Rovere, N. Bertola, N. Vitale, S. Ravera, F. Arruga, S. Deaglio.
- **2022** **ARVO (Association for Research in Vision and Ophthalmology), Denver, Colorado, USA.** "UPARANT mitigates human iris angiogenesis through uPAR/LRP-1 interaction in an organotypic ex vivo model". F. Plastino, N. A. Pesce, F. Locri, V. Pavone, A. Kvanta, M. Dal Monte, H. Andre.
- **2019** **EVER (European Association for Vision and Eye Research), Nice, France.** "Changes in the expression of autophagy markers in a rat model of retinopathy of prematurity". N. A. Pesce, F. Locri, H. André, M. Dal Monte.
- **2019** **SIF (Società Italiana di Fisiologia), Bologna; Italy.** "Changes in the expression of autophagy markers in a rat model of retinopathy of prematurity". N. A. Pesce, F. Locri, H. André, M. Dal Monte.
- **2018** **SIF (Società Italiana di Fisiologia), Firenze; Italy.** "Functional role of beta-3 adrenoceptors in a mouse model of oxygen-induced retinopathy". N. A. Pesce, M. Dal Monte L. Filippi, M. Cammalleri.
- **2017** **EVER (European Association for Vision and Eye Research)**, Nice, France. "Human ex vivo model of iris angiogenesis". H. André, N. A. Pesce, Plastino, A. Kvanta.

PEER REVIEW

Review activity for:

- International journal of molecular sciences; IF: 6.208
- Journal of Personalized Medicine; IF 3.508
- Frontiers in Oncology, Cancer Metabolism; IF: 6.2

PUBLICATIONS

Review article 2024

RNA-binding proteins in bone pathophysiology. P. Maroni, N. A. Pesce (co-first author), G. Lombardi. **Frontiers in Cell and Developmental Biology; IF: 5.5.** Doi.org/10.3389/fcell.2024.1412268.

Journal article 2024

Mitigation of human iris angiogenesis through uPAR/LRP-1 interaction antagonism in an organotypic ex vivo model. N. A. Pesce, F. Plastino, C. Reyes-Goya, J. Bernd, V. Pavone, M. Dal Monte, A. Kvanta, F. Locri, H. André. **FASEB journal;IF: 5.834**.
DOI: 10.1096/fj.202301892RR.

Journal article 2024

A molecular circuit linking the BCR to the NAD biosynthetic enzyme NAMPT is an actionable target in Richter's syndrome. V. Messana, A. Fascì, N. Vitale, M. Micillo, M. Rovere, N. A. Pesce, C. Martines, D. Efremov, T. Vaisitti, S. Deaglio. **Blood Advances**; **IF: 7.642**.
DOI: 10.1182/bloodadvances.2023011690

Meeting Abstract 2022

UPARANT mitigates human iris angiogenesis through uPAR/LRP-1 interaction in an organotypic ex vivo model. F. Plastino, N. A. Pesce, F. Locri, V. Pavone, A. Kvanta, M. Dal Monte, H. Andre. **Investigative Ophthalmology & Visual Science Journal**; **IF: 4.925**.
Vol.63, 2372 – A0056. doi:

Journal article 2021

Echinomycin mitigates ocular angiogenesis by transcriptional inhibition of the hypoxia-inducible factor-1. Plastino F, Santana-Garrido Á, Pesce N. A, Aronsson M, Lardner E, Mate A, Kvanta A, Vázquez CM, André H**. Exp Eye Res.** 9 citations; **IF: 3.77**.
DOI: 10.1016/j.exer.2021.108518

Review article 2021

MicroRNAs and the HIF/VEGF axis in ocular neovascular diseases. Plastino F, Pesce N. A, André H. **Acta Ophthalmolica,** (WILEY: top downloaded article during its first 12 months of publication in Acta Oph); 19 citations; **IF 3.988**.
DOI: 10.1111/aos.14845

Journal article 2021

An imbalance in autophagy contributes to retinal damage in a rat model of oxygen-induced retinopathy. Pesce N. A, Canovai A, Plastino F, Lardner E, Kvanta A, Cammalleri M, André H, Dal Monte M. **J Cell Mol Med. IF: 5.295**.
DOI: 10.1111/jcmm.16977

Journal article 2021

Autophagy Involvement in the Postnatal Development of the Rat Retina. Pesce N. A, Canovai A, Lardner E, Cammalleri M, Kvanta A, André H, Dal Monte M. **Cells.** 5 citations, **IF: 7.666**.
DOI: 10.3390/cells10010177

Journal article 2020

Gaining insight on mitigation of rubeosis iridis by UPARANT in a mouse model associated with proliferative retinopathy. Locri F, Pesce N. A (co-first author), Aronsson M, Cammalleri M, De Rosa M, Pavone V, Bagnoli P, Kvanta A, Dal Monte M, André H. **J Mol Med (Berl)**. **IF: 6.382**.
DOI: 10.1007/s00109-020-01979-8

Meeting Abstract 2019

Changes in the expression of autophagy markers in a rat model of retinopathy of prematurity. N.A. Pesce, F. Locri, H. André, M. Dal Monte. **Acta Ophthalmologica**; **IF: 3.988**.
https://doi.org/10.1111/j.1755-3768.2019.5182

Meeting Abstract 2017

Human ex vivo model of iris angiogenesis. H. André, N. A. Pesce, F. Plastino, A. Kvanta, **Acta Ophthalmologica**; **IF: 3.988.**
https://doi.org/10.1111/j.1755-3768.2017.0T011