# Antonio Palladino

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## RESEARCH INTERESTS

Morpho-physiology of food intake in model organisms used in veterinary and biomedical research, with a particular focus on aquatic organisms.
Neuroanatomy of sensory organs: aging-related degeneration and regenerative pathways in model organisms used in veterinary and biomedical research.
Laboratory animal sciences
2025: Total publications: **33 -** Citations: **380 -** H-Index **10** (source: IRIS)

## CURRENT POSITION

2025 – present: Associate Professor of Veterinary Anatomy (MVET/01A), Department of Clinical Science and Translational Medicine, University of Rome Tor Vergata

## RESEARCH EXPERIENCES

- September 2021-2025: Academic Researcher (SDS VET/01) Dept. of Agricultural Sciences, University of Naples Federico II.
- December 2023-March 2024: Visiting Professor, Western College of Veterinary Medicine, University of Saskatchewan, SK, Canada.
- August 2019-May 2020: Post-doc Fellow @ Center for Metrological and Advanced Technological Services (CeSMA), University of Naples Federico II.
- March 2018-March 2019: Post-doc Fellow @ Interdepartmental Research Center on Biomaterials (CRIB), University of Naples Federico II.
- September 2016-December2016: Visiting Scientist @ Max Planck Institute for Developmental Biology, Tubingen, Germany.
- March 2014-May 2017: Ph.D student @ Stazione Zoologica Anton Dohrn, Naples, Italy.

## EDUCATION

- 2014-2017: Ph.D, European Label @ Stazione Zoologica Anton Dohrn in “Veterinary Sciences”, University of Naples Federico II.
- 2010-2013: Master’s degree in Genetic Sciences and Technologies, Univesity of Sannio, Benevento, Italy. (110/110 *laude*)
- 2007-2010: Bachelor’s degree in medical biotechnology with Veterinary focus, University of Naples Federico II. (109/110)

## TEACHING ACTIVITIES

- 2025-present: Anatomia Veterinaria, Corso Di Laurea Magistrale A Ciclo Unico Dm.270/04 in Medicina Veterinaria. Università degli Studi di Roma Tor Vergata.
- 2024-present: “Anatomia Veterinaria applicazioni pratiche per la gestione della Fauna Euro-Mediterranea”.Master II livello in “Sistemi innovativi per la Conservazione della Fauna Euro-Mediterranea”. University of Naples Federico II.
- 2021- 2025: “Morphophysiology of animal models for sustainable production”. Master's Degree Program in Agricultural Sciences and Technologies,Dept. of Agricultural Sciences, University of Naples Federico II.
- 2023-present: “Use of Animals for Scientific Purposes”, Ph.D Course in Veterinary Sciences, University of Naples Federico II.
- 2023- “Layouting/Management of Aquatic Facilities” , Post Degree School Specialization “Science and Medicine of Laboratory Animals”, University of Naples Federico II.
- 2023 “ Micro-CTs Window into Animal Models for Scientific Advancement” Master Human Diseases Models Morphological Phenotyping (MorphoPHEN) - an ERASMUS MUNDUS Joint Master.
- 2021-present: Integrative teaching of Veterinary Anatomy, Degree course: Veterinary Medicine, University of Naples Federico II.
- 2021-present: Integrative teaching of Histology and Embryology, Degree course: Veterinary Medicine, University of Naples Federico II

## ACADEMIC DUTIES

- 2022-2023: Member of Agricultural Science Department commission on project for curricular internships 2022-2023 funded by the Campania Region.
- 2021 - present: Animal Welfare Officer, Zenolab facility, University of Naples Federico II.

## NETWORKS AND PROFESSIONAL MEMBERSHIPS

- 2022-present: Component of the Scientific Committee of the Neapolitan Brain Group (NBG) (https://www.neapolitanbraingroup.it)
- 2018- present: Member of Italian Association of Veterinary Morphologists (AMV) (https://www.amv-aps.org/)
- 2018- present: Member of AISAL (Italian Association of Laboratory Animal Sciences) (https://www.aisal.org/)

## GRANTS AND FELLOWSHIPS

- 2023: “NO(tho)-HEAR. Hearing loss: a regenerative study in the time machine Nothobranchius furzeri”. Principal Investigator. University Research Fund (FRA) 2022.

- 2023: “Determining the Link Between Hormones, Opioids and Taste Perception in Fish: A Pilot Project with Implications in Aquaculture and Food Sustainability” - Co-investigator. Global Innovation Fund University of Saskatchewan (Canada).
- 2023: “The NONO killifish Aphanius fasciatus as ecophysiological SENtinel of vulnerable coastal habitatS (NONOSENS)”– Co-investigator of Local Unit - PRIN PNRR 2022 - Italian Ministry of University and Research.

## AWARDS AND HONORS

- 2023: Italian Academic Qualification as Associate Professor (SDS VET/01).

## PUBLICATIONS

1. Well-Preserved Urinary Bladder Anatomy in Rats After Minimally Invasive Surgery. Daniela Giaquinto, Antonio Palladino, Annunziata Cummaro, Elena De Felice, Vincenzo Esposito, Rosalba Moretta, Sigismondo Castaldo, Eva Di Maro, Paolo de Girolamo, Livia D’Angelo, Chiara Attanasio. Biomedicines 2025

2. Morphological phenotyping of the aging cochlea in inbred C57BL/6N and outbred CD1 mouse strains. Chiara Attanasio, **Antonio Palladino**, Daniela Giaquinto, Ferdinando Scavizzi, Marcello Raspa, Chiara Peres, Camilla Anastasio, Paola Scocco, Carla Lucini, Paolo de Girolamo, Livia D'Angelo, Elena De Felice. Aging Cell. 2024

3. Fasting duration impacts ribosome protein 6 phosphorylation in zebrafish brain: New insights in aquatic organisms’ welfare. Maria Raggio, Daniela Giaquinto, Chiara Attanasio, **Antonio Palladino**, Vincenzo Esposito, Giuseppe Radaelli, Elena De Felice, Paolo de Girolamo, Livia D’Angelo. Annals of Anatomy-Anatomischer Anzeiger 2024

4. Rapid innervation and physiological epidermal regeneration by bioengineered dermis implanted in mouseAuthors: Claudia Mazio, Isabella Mavaro, **Antonio Palladino**, Costantino Casale, Francesco Urciuolo, Andrea Banfi, Livia D'Angelo, Paolo A Netti, Paolo de Girolamo, Giorgia Imparato, Chiara Attanasio. Materials Today Bio 2024. **IF. 8.2**

5. Plasma fatty acid profile in Italian Holstein-Friesian dairy cows supplemented with natural polyphenols from the olive plant Olea Europaea L. Maria Chiara Di Meo, Angela Salzano, Tiziana Zotti, **Antonio Palladino**, Daniela Giaquinto, Lucianna Maruccio, Riccardo Romanucci, Mariapina Rocco, Armando Zarrelli, JD Michael, Giuseppe Campanile, Ettore Varricchio. Veterinary and Animal Science, 2023.**IF. 0.84**

6. A Morphological and Ultrastructural Study of the Anterior Digestive Tract of Adult Nile Tilapia Oreochromis niloticus.**Antonio Palladino**, De Felice E, Attanasio C, Barone CMA, Crasto A, D’Angelo L, Giaquinto D, Lambiase C, Scocco P, Serrapica F, Maruccio L. Animals, 2023. **IF. 3.231**

7. Integration of micro-CT and histology data for vasculature morpho-functional analysis in tissue regeneration. **Antonio Palladino**, Aurelio Salerno, Antonio Crasto, Carla Lucini, Lucianna Maruccio, Livia D'Angelo, Paolo Antonio Netti, Paolo de Girolamo, Antonio Cacchioli, Francesca Ravanetti, Chiara Attanasio. Annals of Anatomy, 2022. **IF. 2.9**

8. Effect of microneedles shape on skin penetration and transdermal drug administration. De Martino, Mario Battisti, Francesco Napolitano, **Antonio Palladino**, Luigia Serpico, Eugenio Amendola, Alfonso Martone, Paolo De Girolamo, Antonino Squillace, Principia Dardano, Luca De Stefano, Stefania Dello Iacono. Biomaterials Advances, 2022.**IF. 7.9**

9. An Alkaloid from a Highly Invasive Seaweed Increases the Voracity and Reproductive Output of a Model Fish Species. Schiano, V.; Cutignano, A.; Maiello, D.; Carbone, M.; Ciavatta, M.L.; Polese, G.; Fioretto, F.; Attanasio, C.; **Palladino, A**.; Felline, S.; Terlizzi, A.; D'Angelo, L.; de Girolamo, P.; Turano, M.; Lucini, C.; Mollo, E. Mar. Drugs, 2022. **IF. 6.085**

10. Computer-aided patterning of PCL microspheres to build modular scaffolds featuring improved strength and neovascularized tissue integration. Aurelio Salerno, **Antonio Palladino**, Carmela Pizzoleo, Chiara Attanasio, Paolo Antonio Netti. Biofabrication, 2022. **IF. 9.0**

11. Neurotrophins in Zebrafish Taste Buds. Claudia Gatta, Valentina Schiano, Chiara Attanasio, Carla Lucini, **Antonio Palladino**. Animals, 2022. **IF. 3.0**

12. Central and Peripheral NPY Age-Related Regulation: A Comparative Analysis in Fish Translational Models. Giaquinto, D.; De Felice, E.; Attanasio, C.; **Palladino, A.**; Schiano, V.; Mollo, E.; Lucini, C.; de Girolamo, P.; D'Angelo, L. International Journal of Molecular Sciences, 2022. **IF. 6**

13. Neuronal Phenotype of col4a1 and col25a1: An Intriguing Hypothesis in Vertebrates Brain Aging. Leggieri, A.; Attanasio, C.; **Palladino, A**.; de Girolamo, P.; Lucini, C.; D'Angelo, L. International Journal of Molecular Sciences, 2022. **IF. 6**

14. Microwave-Assisted Extraction of Olive Leaf from Five Italian Cultivars: Effects of Harvest-Time and Extraction Conditions on Phenolic Compounds and In Vitro Antioxidant Properties. Maria Chiara Di Meo, Giuseppa Anna De Cristofaro, Roberta Imperatore, Mariapina Rocco, Daniela Giaquinto, **Antonio Palladino**, Tiziana Zotti, Pasquale Vito, Marina Paolucci, and Ettore Varricchio. ACS Food Science & Technology, 2022.**IF. 2.3**

15. Brain Sensory Organs of the Ascidian Ciona robusta: Structure, Function and Developmental Mechanisms. Olivo P, **Palladino A**, Ristoratore F and Spagnuolo A.Front. Cell Dev. Biol., 2021.**IF. 5.6**

16. A combined morphometric approach to feature mouse kidney vasculature. **Antonio Palladino**, Carmela Pizzoleo, Isabella Mavaro, Carla Lucini, Livia D'Angelo, Paolo de Girolamo, Chiara Attanasio. Annals of Anatomy-Anatomischer Anzeiger.2021. **IF. 2.7**

17. Characterisation and antioxidant activity of bioactive molecules extracted from Olea europaea leaves. Maria Chiara Di Meo; Giuseppa Anna De Cristofaro; **Antonio Palladino**; Daniela Giaquinto; Tiziana Zotti; Marina Paolucci; Ettore Varricchio. Polyphenols Application, 2021.

18. Active targeting of cancer cells by CD44 binding peptide-functionalized oil core-based nanocapsules. De Capua, **A. Palladino**, M. Chino, C. Attanasio, A. Lombardi, R. Vecchione and P. A. Netti. RSC Adv., 2021.**IF. 4.06**

19. Id(entifying) the inhibitor of DNA binding 3 in the brain of Nothobranchius furzeri upon aging. Leggieri A, **Palladino A**, Attanasio C, et al. J Anat., 2020. **IF. 2.6**

20. Cholinergic System and NGF Receptors: Insights from the Brain of the Short-Lived Fish Nothobranchius furzeri. de Girolamo, P.; Leggieri, A.; **Palladino, A**.; Lucini, C.; Attanasio, C.; D'Angelo, L. Brain Sci., 2020. **IF. 3.4**

21. A morphological, glycohistochemical and ultrastructural study on the stomach of adult Rainbow trout Oncorhynchus mykiss. De Felice E, **Palladino A**, Tardella FM, Giaquinto D, Barone CMA, Crasto A, Scocco P. The European Zoological Journal, 2021.**IF. 1.7**

22. Anatomical templates for tissue (re)generation and beyond. Mavaro I, De Felice E, **Palladino A**, D'Angelo L, de Girolamo P, Attanasio C. Biotechnology and Bioengineering, 2020. **IF. 4.5**

23. A novel method for increasing the numerousness of biometrical parameters useful for wildlife management: roe deer mandible as bone model. De Felice E, Pacioni C, Tardella F M, Dall'Aglio C, **Palladino A**, Scocco P. Animals, 2020.**IF. 2.68**

24. Ontogenic pattern changes of Nucleobin-2/Nesfatin-1 in the brain and intestinal bulb of the short lived African turquoise killifish. Montesano A, De Felice E, Leggieri A, **Palladino A**, Lucini C, Scocco P, de Girolamo P, Baumgart M, D'Angelo L. Journal of Clinical Medicine, 2020. **IF. 4.3**

25. Induced pluripotent stem cells as vasculature forming entities. **Palladino A**, Mavaro I, Pizzoleo C, De Felice E, Lucini C, de Girolamo P, Netti P. A., Attanasio C. Journal of Clinical Medicine, 2020. **IF. 4.3**

26. Identification and Expression of Neurotrophin-6 in the Brain of Nothobranchius furzeri: One More Piece in Neurotrophin Research. Leggieri, A.; Attanasio, C.;

**Palladino, A.**; Cellerino, A.; Lucini, C.; Paolucci, M.; Terzibasi Tozzini, E.; de Girolamo, P.; D'Angelo, L. J. Clin. Med., 2019. **IF. 3.3**

**27.** Nerve growth factor is expressed and stored in central neurons of adult zebrafish. Cacialli, P., Gatta, C., D'Angelo, L., Leggieri, A., **Palladino, A**., Girolamo, P., Pellegrini, E., and Lucini, C. J. Anat., 2019. **IF. 2.0**

**28.** Role of brain-derived neurotrophic factor during the regenerative response after traumatic brain injury in adult zebrafish. Cacialli P, **Palladino A**, Lucini C. Neural Regen Res, 2018. **IF. 2.47**

**29.** BDNF, Brain, and Regeneration: Insights from Zebrafish. Carla Lucini, Livia D'Angelo, Pietro Cacialli, **Antonio Palladino**, and Paolo de Girolamo. International Journal of Molecular Sciences, 2018. **IF. 4.2**

**30.** The case study of nesfatin-1 in the pancreas of Tursiops truncates. Gatta C, De Felice E, D'Angelo L, Maruccio L, Leggieri A, Lucini C, **Palladino A**, Paolucci M, Scocco P, Varricchio E, De Girolamo P. Frontiers of physiology, 2018. **IF. 3.2**

**31.** A comprehensive analysis of neurotrophins and neurotrophin tyrosine receptors expression during development of zebrafish. Nittoli V, Sepe RM, Coppola U, D'Agostino Y, De Felice E, **Palladino A**, Vassalli QA, Locascio A, Ristoratore F, Spagnuolo A, D'Aniello S, Sordino P. J Comp Neurol, 2018.**IF. 3.2**

**32.** Transcriptional regulation of the Ciona Gsx gene in the neural plate. Clare Hudson, Rosaria Esposito, **Antonio Palladino**, Leopoldo Staiano, David Ferrier, Emmanuel Faure,Patrick Lemaire, Hitoyoshi Yasuo, Antonietta Spagnuolo. Developmental Biology, 2018.**IF. 2.9**

**33.** Patterning of brain precursors in ascidian embryos.Rosaria Esposito, Hitoyoshi Yasuo, Cathy Sirour, **Antonio Palladino**, Antonietta Spagnuolo. Development, 2017.**IF. 5.4**

## TEXTBOOKS

- Chapter contribution to the textbook: "Embriologia, morfogenesi e anomalie dello sviluppo".Idelson-Gnocchi 2024. Chapter: "Molecular aspects of development"

## EDITORIAL ACTIVITIES

- Guest Editor for the Research Topic "Recent advances and developments in the characterization of sensory organs" Journal: Comparative and Clinical Medicine (Frontiers)

- Guest Editor for the Special Issue "Established Protocols and Novel Techniques to Unveil the Scientific Relevance of *Nothobranchius furzeri*" Journal: Journal of Visual Experiment (JoVE)

## CONFERENCES AND COURSES ORGANIZATION

- Conferences organization: "X Neapolitan Brain Group Meeting. Naples,15 December 2022.

**Naples, 17th June 2025**

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