

Sabrina Carrella, PhD

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Current position:

Tenured Researcher III level;

Current affiliation:

Biology and Evolution of Marine Organisms Department, Stazione Zoologica Anton Dohrn, Naples (Italy)

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of the Study of Naples Federico II, Naples, Italy	MS	07/2008	Molecular Biology
University of the Study of Naples Federico II, Naples, Italy	PhD	12/2012	Molecular Medicine
Telethon Institute of Genetics and Medicine (TIGEM), Pozzuoli (NA) and University of Campania Luigi Vanvitelli, Naples, Italy	Postdoctoral Associate Researcher	2013-2021	Molecular Medicine
Stazione Zoologica Anton Dohrn, Naples, Italy	Tenured Researcher	2021-present	Molecular Biology

National scientific qualification (Abilitazione Scientifica Nazionale) to function as associate professor in Applied Biology (05/F1) in Italian Universities, from December 2023 to December 2034.

CURRENT POSITIONS

Tenured Researcher III level; 1/12/2021-present

Biology and Evolution of Marine Organisms Department, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Coordinator of the SZN PhD Program, 13/10/2023-present

Principal Investigator;

- In the project “Mitochondrial Dynamic Modulators from the Seas”. Italian Ministry of University and Research (MUR). Founding period: 14/10/2023-13/10/2025
- In the project “OxymiRs modulation as gene-independent therapeutic approach in rare mitochondrial diseases.” AFM-Telethon. Founding period: 10/10/2023- 10/4/2025
- In the project "From the sea for the sight: identification of novel RNA molecules to tackle retinal diseases (SEA SIGHT)" Funding period: 1/8/2024-31/7/2025
- Human Technopole National Facility Access - Project ID1822216 “OxymiRs modulation effect on in vitro model of Aged-macular degeneration (AMD)”

Director of the Studies;

- for Gabriele De Falco, PhD program Open University-SZN, Naples (Italy). “MicroRNAs-mediated environmental adaptation in marine microalgae: from physiological responses to biotechnology applications”. SZN-OU PhD Fellowship. Funding period: 1/10/2022-30/9/2025

Co- Principal Investigator;

- In the project “Development of an innovative combinatorial therapy to tackle age-related macular degeneration”. Italian Ministry of University and Research (MUR). Founding period: 1/12/2023-30/11/2025

FUNDINGS

Ongoing:

- “MicroRNAs-mediated environmental adaptation in marine microalgae: from physiological responses to biotechnology applications”. SZN-OU PhD Fellowship. Funding period: 1/10/2022-30/9/2025 (Role: Director of the Studies)
- Italian Ministry of University and Research (MUR). Projects of Relevant National Interest (PRIN) 2022. “Mitochondrial Dynamic Modulators from the Seas”. (Role: Principal Investigator) Funding period: 14/10/2023-14/10/2025
- AFM-Telethon (Trampoline grant) 2023. “OxymiRs modulation as gene-independent therapeutic approach in rare mitochondrial diseases.” (Role: Principal Investigator) Funding period: 10/10/2023-10/4/2025
- Italian Ministry of University and Research (MUR). Projects of Relevant National Interest (PRIN)-PNRR 2022. “Development of an innovative combinatorial therapy to tackle age-related macular degeneration”. (Role: Co- Principal Investigator) Funding period: 1/12/2023-30/11/2025
- Italian Ministry of University and Research (MUR). Bando a Cascata PNRR a valere sui fondi dello Spoke 1 “National Center for Gene Therapy and Drugs based on RNA Technology”. "FROM THE SEA FOR THE SIGHT: IDENTIFICATION OF NOVEL RNA MOLECULES TO TACKLE RETINAL DISEASES (SEA SIGHT)" (Role: Principal Investigator) Funding period: 1/8/2024-31/7/2025
- Human Technopole National Facility Access 2024 - Project ID1822216 “OxymiRs modulation effect on in vitro model of Aged-macular degeneration (AMD)” (Role: Principal Investigator)

Completed:

- “AAV-Sponge-mediated modulation of microRNA-181a/b: a potential therapeutic approach for Inherited Retinal Disease.” Foundation Fighting Blindness. Funding period: 1/6/19-31/5/22. Role: Participant
- “miR-181a/b modulation as potential therapeutic approach for AMD treatment” BrightFocus Foundation. Funding period: 1/11/20-31/10/22. Role: Principal Investigator
- “MicroRNA expression modulation: a new therapeutic avenue for Inherited Retinal Diseases” Velux Stiftung Foundation. Funding period: 1/11/20-31/10/23. Role: Co-Principal Investigator
- "CRISPR/Cas9 microRNAs Editing as gene-independent therapeutic approach in Inherited Retinal Dystrophies (IRDs)" AFM-Telethon Trampoline grant. Funding period: 1/12/20-30/11/21. Role: Principal Investigator

PREVIOUS RESEARCH ACTIVITY

1/11/20-31/10/22 Principal Investigator

- In the project “miR-181a/b modulation as potential therapeutic approach for AMD treatment” BrightFocus Foundation. Founding period: 1/11/20-31/10/22
- In the project "CRISPR/Cas9 microRNAs Editing as gene-independent therapeutic approach in Inherited Retinal Dystrophies (IRDs)" AFM-Telethon Trampoline grant. Founding period: 1/12/20-30/04/22

1/11/20-31/10/23 Co-Principal Investigator

- In the project “MicroRNA expression modulation: a new therapeutic avenue for Inherited Retinal Diseases”. Velux Stiftung Foundation.

1/12/2020-30/11/2021 Post-doctoral Fellow in the project “AAV-Sponge-mediated modulation of microRNA-181a/b: a potential therapeutic approach for Inherited Retinal Disease.” Foundation Fighting Blindness at TIGEM (Telethon Institute of Genetics and Medicine), Naples (Italy)

01/12/2019–30/11/2020 Research associate University of Campania "Luigi Vanvitelli" and TIGEM (Telethon Institute of Genetics and Medicine), Naples (Italy)

Project: "Valutazione del possibile ruolo terapeutico di microRNA in malattie retiniche ereditarie e in altre forme di neurodegenerazione" ("Evaluation of the possible therapeutic role of microRNAs in inherited retina diseases and other neurodegenerative diseases")

01/11/2015–15/11/2019 Research associate University of Campania "Luigi Vanvitelli" and TIGEM (Telethon Institute of Genetics and Medicine), Naples (Italy)

Project: "Approcci preclinici di terapia genica avanzata per le distrofie retiniche ereditarie (IRD)" ("Preclinical approaches of advanced gene therapy for inherited retina dystrophies (IRD)")

01/01/2015–31/10/2015 Post-doctoral Fellow TIGEM (Telethon Institute of Genetics and Medicine), Naples

01/01/2013–31/12/2014 Post-doctoral Fellow TIGEM (Telethon Institute of Genetics and Medicine) and MIUR (Ministero dell'Istruzione e dell'Università e della Ricerca), Naples (Italy) "Ricercatore in Biologia molecolare e cellulare" ("Molecular and cellular biology researcher") in the PONa3_00311 project

01/01/2009–31/12/2012 Ph.D. in Molecular Medicine TIGEM (Telethon Institute of Genetics and Medicine) and University of Naples Federico II (SEMM: European School of Molecular Medicine), Naples (Italy) "Study of the functional role of microRNAs in the regulatory networks underlying vertebrate eye development"
Prof. Banfi S (Tutor), Prof. Simeone A (Internal Co-Tutor), Prof. Bovolenta P (External Co-Tutor)

EDUCATION

2013 Ph.D. in Molecular Medicine University of Naples Federico II (SEMM: European School of Molecular Medicine), Naples (Italy) "Study of the functional role of microRNAs in the regulatory networks underlying vertebrate eye development"

Thesis discussion: 21-3-2013

Committee: Prof. Alberto Auricchio, University of Naples Federico II, Naples, Prof. Massimiliano Andreazzoli, University of Pisa, Dott. Stephane Ansieau, Université Claude Bernard Lyon

Passed with merits

2006–2008 Master of Science (M.Sc.) degree in Biology (biomolecular curriculum) University of Naples Federico II, Naples (Italy) Experimental thesis work: "Study of the Role of the miR-204 in the eye development"

Prof. Maria Furia; Prof. Sandro Banfi

date: 17-7-2008

110/110 with merits and mention

2003–2006 Bachelor degree in General and Applied Biology (biomolecular curriculum) University of Naples Federico II, Naples (Italy) Experimental thesis work: "Spinofilin/ Neurabin II effect on the intracellular levels of the human oncosuppressor p14ARF"

Prof. Girolama La Mantia

date: 20-7-2006

110/110 with merits

SUPERVISOR AND TRAINING ACTIVITIES

2012-2013: training activity for Dr Ylenia D'Agostino, Master Degree in Biology, University of Naples Federico II, Naples (Italy)

2015-2017: training activity for Dr Ludovica Ciampi, Master Degree in Medical Biotechnology, University of Naples Federico II, Naples (Italy)

2017-2018: training activity for Dr Davide Piccolo, Master Degree in Biology, University of Naples Federico II, Naples (Italy)

2021-2022: External thesis tutor and training activity for Dr Eva Cipollaro, Master Degree in Genetics and Molecular Biology, Sapienza University, Rome (Italy)

2021-2022: training and supervisor activity for Dr Marta Molinari, pre-doctoral fellow in the project "miR-181a/b modulation as potential therapeutic approach for AMD treatment" (BrightFocus Foundation)

2021-2022: training and supervisor activity for Dr Paola Quadrano, pre-doctoral fellow in the project "CRISPR/Cas9 microRNAs Editing as gene-independent therapeutic approach in Inherited Retinal Dystrophies (IRDs)" (AFM-Telethon Trampoline)

2020-2021: training and supervisor activity for Dr Irene Guadagnino, postdoc in the project “MicroRNA expression modulation: a new therapeutic avenue for Inherited Retinal Diseases” (Velux Stiftung Foundation)

2020-2022: training and supervisor activity for Dr Simona Brillante, postdoc in the project “miR-181a/b modulation as potential therapeutic approach for AMD treatment” (BrightFocus Foundation)

2021: training activity for Dr Dalila Capasso, PhD program in “Genomic and Experimental Medicine”, Scuola Superiore Meridionale, Naples (Italy)

2019-2023: training and co-tutor activity for Dr Georgios Petrogiannakis, PhD program in “Molecular Life Science-Human Genetics”, University of Campania "Luigi Vanvitelli" and TIGEM (Telethon Institute of Genetics and Medicine), Naples (Italy)

2020-2023: External member of the thesis committee in the PhD program at Centre for Genomic Regulation (CRG) in Barcelona. Student name: Dr Ludovica Ciampi, Title of the thesis project: “MIRAS: bringing the Microexons Retina-specific Alternative Splicing program to light”

2020-2023: training and co-tutor activity for Dr Martina Di Guida, PhD program in “Scienze Biomolecolari”, University of Campania "Luigi Vanvitelli" and TIGEM (Telethon Institute of Genetics and Medicine), Naples (Italy)

2022: Internship Tutor for Alessia Riccardi, Stazione Zoologica Anton Dohrn

2022-present: Director of the Studies and supervisor for Gabriele De Falco, PhD program Open University-SZN, Naples (Italy)

2024-present: Scientific responsible for the Post-Doctoral fellows Giovanni Di Gregorio Barletta, Gianluca Fasciolo, Giacinto De Vivo, Tosca van Gelderen

2024-present: Scientific responsible for the Research Fellow Jessica Pisano

2024-present: External thesis tutor for Imma Famiglietti, Master Degree in Molecular Biology, Federico II University, Naples (Italy)

2020, 2021: Lecturer for the specialistic course “miRNAs in mitochondrial diseases” of second year in the PhD program at TIGEM (SEMM-European School of Molecular Medicine, Genomic and Experimental Medicine, Federico II, Vanvitelli and OPEN University)

2021: Lecturer in the Research Training workshop as part of an “Innovative Training Network” grant. Title of the course: “Implementation of Novel Therapies for IRD”

2022, 2023: Lecturer in the course “Marine Genomics – Module of Marine Genomics” at Federico II University. Title of the lesson: “non-coding RNAs in marine organisms”

AWARDS

January 2009: Winner of Four-Year Fellowship from Scuola Europea di Medicina Molecolare (SEMM)

March 2010: Winner of “Graziella Persico Travel Award”

Institute of Genetics and Biophysics “A. Buzzati-Traverso” – CNR Naples

June 2010: Winner of “ESHG Young Investigator Award”

Scientific Programme Committee at European Human Genetics Conference 2010

January 2013: Winner of Two-Year Fellowship as “Ricercatore in Biologia molecolare e cellulare” in the PONa3_00311 project (Ministero dell’Istruzione e dell’Università e della Ricerca)

November 2015: Winner of Research Associate Fellowship in the context of the project “Approcci preclinici di terapia genica avanzata per le distrofie retiniche ereditarie (IRD)” (University of Campania "Luigi Vanvitelli")

December 2019: Winner of Research Associate Fellowship in the project “Valutazione del possibile ruolo terapeutico di microRNA in malattie retiniche ereditarie e in altre forme di neurodegenerazione” (University of Campania "Luigi Vanvitelli")

OTHER

- Patent: "mir-181 inhibitors and uses thereof" (WO/2019/202162) 20th of April, 2018
- Reviewer activity: Molecular Therapy, Frontiers in Marine Science, Biotechnology Advances, MDPI (International Journal of Molecular Science, Genes, Pharmaceuticals and Cells), Inflammation Research and European Journal of Neuroscience
- Topic Editor: Research Topic “Rare and common neurodegenerative retinal diseases: from molecular mechanisms to the identification of novel mutation-independent therapeutic strategies”. Frontiers In Aging Neuroscience
- Coordinator of the SZN PhD Program (Decreto del Presidente n. 141/2023 del 13/10/2023)
- Member of the steering committee of the PhD in Sciences and Technologies for the Environment and Health of the University of Sannio

- External member of the thesis committee in the PhD program at Centre for Genomic Regulation (CRG) in Barcelona. Student name: Dr Ludovica Ciampi, Title of the thesis project: “MIRAS: bringing the Microexons Retina-specific Alternative Splicing program to light”
- Member/President of the examining commission for the public competition number Postdoctoral research fellowship AR 43_2023, Postdoctoral research fellowship AR 6_2024, research fellowship BR 5_2024, Postdoctoral research fellowships AR 47_2024 (Decreti del Direttore Generale 7/2024; 83/2024; 175/2024; 846/2024)
- Member of the examining commission for the public competitions at IRGB- Istituto di Ricerca Genetica e Biomedica (CNR): IRGB/AR/002/2021MI; IRGB/AR/008/2022MI; IRGB/AR/014/2024MI
- Member of the Technical-Scientific Commeeette of the Marine Library of Stazione Zoologica Anton Dohrn (Decreto del Presidente n. 16 del 18.02.2022)
- Member of the Commission for the evaluation of PhD candidates for the XXIV cycle of the PhD Open University program - Zoological Station (Decreto del Presidente n. 62 del 10.06.2022)
- Scientific Member of Organismo per il Benessere Animale (OPBA) TIGEM for the retrospective evaluation of the research project7B56B.0 (Aut. Min n. n° 598/2017-PR del 24/7/2017) “Generazione di modelli di malattie metaboliche ereditarie nel Medaka fish” (resp. prof. Nicola Pierri-Brunetti)
- Member of the Commission for the evaluation of projects and of PhD candidates for the XXV cycle of the PhD Open University program - Zoological Station and for the XXXIX cycle of doctoral programs in agreement with other universities (Decreto del Presidente n. 67/2023 del 29/03/2023)
- President of the Commission for the evaluation of projects and of PhD candidates for the XXVI cycle of the PhD Open University program - Zoological Station and for the XL cycle of doctoral programs in agreement with other universities (Decreto del Presidente n. 7/2024).
- Secretary of the public competition 15/2022, published in the Official Gazette of the Italian Republic IV special series n. 65 of 16 August 2022 (Decreto del Presidente n. 49/2023 del 22/02/2023)
- Internal examiner member of research degree student Miss Martina Blasio (Student number: 11892958) Thesis title: Production and Biosynthesis of Secondary Metabolites from Nannochloropsis Oceanica (Eustigmatophyceae). Supervisors: Dr Sergio Balzano, Dr Christophe Brunet and Prof Stefan Schouten
- Reviewer activity of the PhD thesis of the PhD candidate Alessandro Formaggioni (University of Bologna). Thesis Title: “CHARACTERIZATION AND EVOLUTION OF MITO-NUCLEAR INTERACTIONS”. Supervisors: Prof. Marco Passamonti and Prof. Federico Plazzi
- Dissemination activities: From 2014 to 2019, Scientific dissemination at TIGEM laboratories to schools and/or to civil society; December 5th 2015, Partecipazione at “Il non vedente del terzo millennio” Convention, Naples, Italy; December 21st 2018, Scientific dissemination about Retinitis Pigmentosa at “Uno Mattina”, Studi Rai, Rome, Italy; Scientific dissemination at SZN laboratories at Molosiglio to schools, Futuro Remoto 2023, Città della Scienza
- 2019-2020: Member of Association for research Vision and Ophthalmology (ARVO)
- 2015-2016: Member of American Society of Cell Biology
- 2024: Member of SIBE (Società Italiana di Biologia Evoluzionistica)
- June-October 2016: Maternity leave
- January-June 2019: Maternity leave

MAJOR COLLABORATIONS

Salvatore D’Aniello and Serena Mirra, Stazione Zoologica Anthon Dohrn, Italy. On the project “SEA SIGHT”.

Alessia Indrieri, TIGEM, Pozzuoli, Italy and Institute of Genetic and Biomedical Research (IRGB), National Research Council (CNR). Projects: “miR-181a/b in optic neuropathies”; “miR-181a/b modulation as potential therapeutic approach for AMD treatment”; “OxymiRs”

Ivana Trapani, TIGEM, Pozzuoli, Italy and Department of Advanced Biomedicine, University of Naples "Federico II", Italy. Project: “Development of an innovative combinatorial therapy to tackle age-related macular degeneration”

Simone Di Paola, CNR, Istituto per l'Endocrinologia e l'Oncologia Sperimentale "G. Salvatore". Project: “MITOSEAs”

Sandro Banfi, TIGEM, Pozzuoli, Italy. Projects: “AAV-Sponge-mediated modulation of microRNA-181a/b: a potential therapeutic approach for Inherited Retinal Disease.”; “MicroRNA expression modulation: a new therapeutic avenue for Inherited Retinal Diseases”; “Systematic search for microRNAs that play a role in photoreceptor degeneration”

MariaVittoria Modica, Stazione Zoologica Anthon Dohrn, Italy. Collaboration in the context of the PRIN 2022 PNRR project “TRADE”

Donatella de Pascale and Gerardo Della Sala, Stazione Zoologica Anthon Dohrn, Italy. Collaboration in the context of the PRIN 2022 project “MITOSEAs”

PUBLICATIONS

1. Conte I, **Carrella S**, Avellino R, Karali M, Marco-Ferreres R, Bovolenta P, Banfi S. (2010) “miR-204 is required for lens and retinal development via Meis2 targeting.” Proc Natl Acad Sci U S A 107: 15491-15496 (2022-2023 Journal's Impact IF = 12.779)
2. R. Avellino, **S. Carrella**, M. Pirozzi, M. Risolino, Salierno FG, P. Franco, P. Stoppelli, P. Verde, S. Banfi, I. Conte (2013) “miR-204 targeting of Ankrd13A controls both mesenchymal neural crest and lens cell migration” PLoS One 8: e61099 (2022-2023 Journal's Impact IF = 3.7)
3. Poulter JA, Al-Araimi M, Conte I, van Genderen MM, Sheridan E, Carr IM, Parry DA, Shires M, **Carrella S**, Bradbury J, Khan K, Lakeman P, Sergouniotis PI, Webster AR, Moore AT, Pal B, Mohamed MD, Venkataramana A, Ramprasad V, Shetty R, Saktivel M, Kumaramanickavel G, Tan A, Mackey DA, Hewitt AW, Banfi S, Ali M, Inglehearn CF, Toomes C. (2013) “Recessive Mutations in SLC38A8 Cause Foveal Hypoplasia and Optic Nerve Misrouting without Albinism.” Am J Hum Genet 93: 1143-1150 15496 (2022-2023 Journal's Impact IF = 11.043)
4. Ivan Conte, Stefania Merella, Jose Manuel Garcia Manteiga, Chiara Migliore, Dejan Lazarevic, **Sabrina Carrella**, Raquel Marco-Ferreres, Raffaella Avellino, Davidson Nathan Paul, Warren Emmett, Remo Sanges, Nicholas Bockett, David Van Heel, Germana Meroni, Paola Bovolenta, Sandro Banfi, Elia Stupka. (2014) “The combination of transcriptomics and informatics identifies pathways targeted by miR-204 during neurogenesis and axon guidance”. Nucleic Acids Res 42: 7793-7806. 15496 (2022-2023 Journal's Impact IF = 19.16)
5. **Sabrina Carrella**, Ylenia D'Agostino, Sara Barbato, Sabina P. Huber-Reggi, Francesco Giuseppe Salierno, Anna Manfredi, Stephan C.F. Neuhaus, Sandro Banfi, Ivan Conte (2015). “miR-181a/b control the assembly of visual circuitry by regulating retinal axon specification and growth”. Dev Neurobiol 75: 1252-1267. (2022-2023 Journal's Impact IF = 3.10)
6. Ivan Conte, Kristen D Hadfield, Sara Barbato, **Sabrina Carrella**, Mariateresa Pizzo, Louise F Porter, Sofie Hateley, James O'Sullivan, Forbes Manson, Stephan C.F. Neuhaus, Sandro Banfi, Graeme C M Black (2015). “MiR-204 is responsible for inherited retinal dystrophy associated with ocular coloboma”. Proc Natl Acad Sci U S A 112: E3236-3245. (2022-2023 Journal's Impact IF = 12.779)
7. **Sabrina Carrella**, Sara Barbato, Ylenia D'Agostino, Francesco Giuseppe Salierno, Anna Manfredi, Sandro Banfi, Ivan Conte (2015). “TGF- β controls miR-181/ERK regulatory network during retinal axon specification and growth.” PlosOne 10(12):e0144129. (2022-2023 Journal's Impact IF = 3.7)
8. Alessia Indrieri†, **Sabrina Carrella**†, Alessia Romano, Alessandra Spaziano, Elena Marrocco, Erika Fernandez-Vizarra, Sara Barbato, Mariateresa Pizzo, Yulia Ezhova, Francesca M. Golia, Ludovica Ciampi, Roberta Tammaro, Jorge Henao-Mejia, Adam Williams, Richard A. Flavell, Elvira De Leonibus, Massimo Zeviani, Enrico M. Surace, Sandro Banfi*, Brunella Franco*. “miR-181a/b downregulation exerts a protective action on Mitochondrial Disease models”. EMBO Molecular Medicine, 2019 † co-first authors; *co-corresponding authors (2022-2023 Journal's Impact IF = 14)
9. Alessia Indrieri, **Sabrina Carrella**, Pietro Carotenuto, Sandro Banfi and Brunella Franco. “The Pervasive Role of the miR-181 Family in Development, Neurodegeneration, and Cancer.” Int J Mol Sci. 2020 (2022-2023 Journal's Impact IF = 5.6)
10. **Sabrina Carrella***, Alessia Indrieri, Brunella Franco, Sandro Banfi*. “Mutation-Independent Therapies for Retinal Diseases: Focus on Gene-Based Approaches”. Front Neurosci. 2020 *co-corresponding authors (2022-2023 Journal's Impact IF = 4.3)
11. **Sabrina Carrella***, Sandro Banfi*, Marianthi Karali *. “Sophisticated gene regulation for a complex physiological system: the role of non-coding RNAs in photoreceptor cells”. Front Cell Dev Biol. 2021 *co-corresponding authors (2022-2023 Journal's Impact IF = 6.08)
12. Anna Barbato, Antonella Iuliano, Mariagrazia Volpe, Romina D'Alterio, Simona Brillante, Filomena Massa, Rossella De Cegli, **Sabrina Carrella**, Massimiliano Salati, Annapina Russo, Giulia Russo, Sara Riccardo, Davide Cacchiarelli, Mariaelena Capone, Gabriele Madonna, Paolo A. Ascierto, Brunella Franco, Alessia Indrieri and Pietro Carotenuto. “Integrated Genomics Identifies miR-181/TFAM Pathway as a Critical Driver of Drug-resistance in Melanoma” Int. J. Mol. Sci. 2021 (2022-2023 Journal's Impact IF = 5.6)
13. **Sabrina Carrella***, Filomena Massa, Alessia Indrieri*. “microRNAs in mitochondrial-related eye diseases” Front Cell Dev Biol. 2021 *co-corresponding authors (2022-2023 Journal's Impact IF = 6.08)
14. Brillante S, Galasso C, Lauritano C, **Carrella S***. From the Sea for the Sight: Marine Derived Products for Human Vision. Front Aging Neurosci. 2022 May 9;14:892764. doi: 10.3389/fnagi.2022.892764. PMID: 35615590; PMCID: PMC9124809. (*corresponding author) (2022-2023 Journal's Impact IF = 5.7)
15. Ciampi L, Mantica F, López-Blanch L, Permanyer J, Rodriguez-Marín C, Zang J, Cianferoni D, Jiménez-Delgado S, Bonnal S, Miravet-Verde S, Ruprecht V, Neuhaus SCF, Banfi S, **Carrella S**, Serrano L, Head SA, Irimia M. Specialization of the photoreceptor transcriptome by Srrm3-dependent

- microexons is required for outer segment maintenance and vision. *Proc Natl Acad Sci U S A.* 2022 Jul 19;119(29):e2117090119. doi: 10.1073/pnas.2117090119. Epub 2022 Jul 12. PMID: 35858306; PMCID: PMC9303857. (2022-2023 Journal's Impact IF = 12.779)
16. Nocera GM, Viscido G, Criscuolo S, Brillante S, Carbone F, Staiano L, **Carrella S**, di Bernardo D. The VersaLive platform enables microfluidic mammalian cell culture for versatile applications. *Commun Biol.* 2022 Sep 29;5(1):1034. doi: 10.1038/s42003-022-03976-8. Erratum in: *Commun Biol.* 2022 Oct 13;5(1):1090. PMID: 36175545; PMCID: PMC9522807. (2022-2023 Journal's Impact IF =5.9)
 17. **Carrella S***, Di Guida M, Brillante S, Piccolo D, Ciampi L, Guadagnino I, Garcia Piqueras J, Pizzo M, Marrocco E, Molinari M, Petrogiannakis G, Barbato S, Ezhova Y, Auricchio A, Franco B, De Leonibus E, Surace EM, Indrieri A, Banfi S*. miR-181a/b downregulation: a mutation-independent therapeutic approach for inherited retinal diseases. *EMBO Mol Med.* 2022 Oct 4:e15941. doi: 10.15252/emmm.202215941. Epub ahead of print. PMID: 36194668. (*co-corresponding authors) (2022-2023 Journal's Impact IF = 14)
 18. Gabriele De Falco, Chiara Lauritano and **Sabrina Carrella***. “MicroRNA-Mediated Responses: Adaptations to Marine Extreme Environments” *J. Mar. Sci. Eng.* 2023, 11(2), 361; <https://doi.org/10.3390/jmse11020361> (2022-2023 Journal's Impact IF =2.7)
 19. Chiara Lauritano, Eleonora Montuori, Gabriele De Falco and **Sabrina Carrella**. “In Silico Methodologies to Improve Antioxidants’ Characterization from Marine Organisms”. *Antioxidants* 2023, 12(3), 710; <https://doi.org/10.3390/antiox12030710> (2022-2023 Journal's Impact IF =7.6)
 20. Rhea Subba, Gianluca Fasciolo, Eugenio Geremia, Maria Teresa Muscari Tomajoli, Adriana Petito, **Sabrina Carrella**, Amal Chandra Mondal, Gaetana Napolitano, Paola Venditti. “Simultaneous induction of systemic hyperglycaemia and stress impairs brain redox homeostasis in the adult zebrafish”. *Arch Biochem Biophys* 2024 Jul 18:759:110101. doi: 10.1016/j.abb.2024.110101 (2022-2023 Journal's Impact IF =3.8)
 21. Georgios Petrogiannakis, Irene Guadagnino, Santiago Negueruela, Martina Di Guida, Elena Marrocco, Mariateresa Pizzo, Annalaura Torella, Mariateresa Zanobio, Marianthi Karali, Diego Luis Medina, **Sabrina Carrella**, Sandro Banfi. “In vitro high-content screening reveals miR-429 as a protective molecule in photoreceptor degeneration”. *Molecular Therapy Nucleic Acid* (Accepted on 18th Dec 2024) (Journal's Impact IF = 6.5)
 22. Simona Brillante, Anna Diana, Mariagrazia Volpe, Marta Molinari, Eva Cipollaro, Santiago Negueruela, Carla Damiano, Erika Tenederini, Elena Polishchuk, Roman Polishchuk, Giancarlo Parenti, Alberto Auricchio, Antonietta Tarallo, Sandro Banfi, Ivana Trapani, **Sabrina Carrella***, Alessia Indrieri*. “Unveiling mitochondria protection as a therapeutic strategy for Stargardt disease”. (in preparation, *co-last authors)

ATTENDACES at NATIONAL and INTERNATIONAL CONFERENCES

- Conte I, **Carrella S**, Avellino R, Karali M, Marco-Ferrerres R, Bovolenta P, Banfi S. “miR-204 is required for vertebrate eye development via Meis 2 targeting and Pax6 regulation” 6th European Zebrafish Genetics and Development Meeting.Rome, Italy (2009).
- Conte I, **Carrella S**, Avellino R, Karali M, Marco-Ferrerres R, Bovolenta P, Banfi S.”The microRNA miR-204 is required for vertebrate eye development”. ESHG. Gothemburg, Sweden (June, 2010) Oral presentation (presenting author: Sabrina Carrella)
- **Sabrina Carrella**, Ylenia D’Agostino, Sara Barbato, Francesco Giuseppe Salierno, Stephan C.F. Neuhauss, Sandro Banfi, Ivan Conte. “Study of miRNA roles in retinal axon specification and growth” 8th European Zebrafish meeting, Barcelona (July, 2013). Oral presentation
- **Sabrina Carrella**, Ylenia D’Agostino, Sara Barbato, Francesco Giuseppe Salierno, Stephan C.F. Neuhauss, Sandro Banfi, Ivan Conte. “Study of miRNA roles in retinal axon specification and growth” British Society for Developmental Biology Autumn Meeting 2013_Axon guidance and Regeneration, University of Aberdeen, Aberdeen, Scotland, UK (August, 2013).
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