Curriculum Vitae

Prof. Saverio Francesco Retta

PERSONAL DATA

Date of Birth: 05 December 1963

Place of Birth: Reggio Calabria (RC), Italy

Military Service: served as Sergeant of the Marina Militare Italiana from 30/09/1984 to 31/03/1986

Marital status: married, with three children

Current Position: Associate Professor of Applied Biology at the Department of Clinical and Biological Sciences, School of Medicine and Surgery, University of Torino (TO), Italy. https://www.dscb.unito.it/persone/saverio.retta

EDUCATION AND PROFESSIONAL QUALIFICATIONS

1988	Laurea Degree in Biological Sciences at the University of Messina (ME), Italy; summa cum laude (110/110 e lode)
1988-89	Postgraduate Specialization Course with residential Master's Programs in Marine Biology, Aquaculture, Informatics and Communication Sciences. University of Messina (ME), ITEA (Rome), National Research Council (CNR) of Lesina (FG)
1990	Professional Qualification to practice as Biologist
1990-91	Research fellow of the National Research Council (CNR) at the "CNR Institute of Genetic Improvement of Orto and Flower Plants", Portici (NA).
1992-94	Research fellow at the Fidia Pharmaceuticals S.p.A., Abano Terme (PD), for a scientific and managerial training program for the formation of "Research Project Leaders"
1995-96	Research fellow of the National Research Council (CNR) at the Department of Genetic, Biology and Biochemistry, School of Medicine and Surgery, University of Torino (TO)
1997	Postgraduate Specialization Degree in Biotechnological Applications at the University of Torino (TO), Italy; summa cum laude (70/70 e lode)
2014	National Scientific Qualification (Abilitazione Scientifica Nazionale) for a position of Full Professor of Applied Biology

ACADEMIC POSITIONS

1996-1999 - Assistant Professor of Applied Biology at the Department of Biopathology and Biomedical Technologies, School of Medicine and Surgery, University of Palermo (Italy)

1999-2002 - Assistant Professor of Applied Biology at the Department of Genetic, Biology and Biochemistry, School of Medicine and Surgery, University of Torino (Italy)

2002-2010 - Associate Professor of Applied Biology at the Department of Genetic, Biology and Biochemistry, School of Medicine and Surgery, University of Torino (Italy)

2011-present - Associate Professor of Applied Biology at the Department of Clinical and Biological Sciences, School of Medicine and Surgery, University of Torino (Italy)

RESEARCH ACTIVITIES IN FOREIGN COUNTRIES

1995 Research fellow of Prof. David Critchley at the Department of Biochemistry, University of Leicester, Leicester (U.K.)

1997-98 Research fellow of Prof. Keith Burridge at the Department of Cell Biology and Anatomy, University of North Carolina at Chapel Hill, Chapel Hill (NC) (USA)

2003 Visitor Scientist in the laboratory of Prof. Victor Small at the Institute of Molecular Biology, Austrian Academy of Sciences, Salzburg (Austria)

2004 Visitor Scientist in the laboratory of Prof. Victor Small at the Institute of Molecular Biotechnology (IMBA), Vienna (Austria)

PROFESSIONAL MEMBERSHIP

1996-present - Member of the Associazione Italiana di Biologia e Genetica (AIBG)

2009-present - Member of North American Vascular Biology Organization (NAVBO)

2011-present - Founder and coordinator of the CCM Italia research network (CCM Italia, *https://www.ccmitalia.unito.it*)

2012-present - Founder and honorary president of the Associazione Italiana Angiomi Cavernosi (AIAC, *https://www.aiac.unito.it/*)

2015-present - Member of the Associazione di Biologia Cellulare e del Differenziamento (ABCD)

2015-present - Member of the Society for Free Radical Research Europe (SFRR Europe)

2019-present - Member of the Society for Redox Biology and Medicine (SfRBM USA)

EDITORIAL BOARD MEMBERSHIP

- 2018-present - Member of the Editorial Board of **Antioxidants** (ISSN 2076-3921), published by MDPI, Basel, Switzerland.
- 2021-present - Member of the Journal Editorial Board of **Biomedicines** (ISSN 2227-9059), published by MDPI, Basel, Switzerland.
- 2021-present - Member of the Journal Editorial Board of **International Journal of Molecular Sciences** (ISSN 1422-0067), published by MDPI, Basel, Switzerland.
- 2021-present - Member of the Journal Editorial Board of **Vessel Plus** (ISSN 2574-1209), published by OAE Publishing Inc., Alabama, CA 91801, USA.

COORDINATION OR PARTICIPATION TO STEERING COMMITTEE OF RESEARCH NETWORKS

- 2011-present - Founder and coordinator of the Italian multidisciplinary research network **CCM Italia** (https://www.ccmitalia.unito.it), which is focused on the genetic disease Cerebral Cavernous Malformation (CCM) and recognized at national and international level.

ORGANIZATION OF INTERNATIONAL SYMPOSIA

- 2018 - Organizer and chairman of the International Symposium "*Crosstalk between oxidative stress and inflammation in cerebrovascular disease: mechanisms and therapeutic intervention*", which has been held within the framework of the "19th biennial meeting of the Society for Free Radical Research International (SFRRI)", June 4-7, 2018, Lisbon Conference Centre, Lisbon, Portugal (SFRRI Lisboa 2018) (Symposium date: June 5, 2018) (https://sfrri2018lisbon.organideia.pt/en/).

- 2019 - Organizer and chairman of the International Symposium "*Oxy-Inflammation, Redox Signaling and Autophagy: Crosstalk in Health and Disease*", which has been held as plenary session within the framework of the "26th Annual Conference of the Society for Redox Biology and Medicine (SfRBM 2019)", November 20-23, 2019, Las Vegas, NV, USA (Plenary session date: November 21, 2019) (https://sfrbm.org/meetings/2019-annual-conference/).

PAST RESEARCH INTERESTS

Professor Retta's research activities have spanned the last 30 years. Initially, the research interests have been mainly focused on the study of the molecular mechanisms underlying the function of integrins and cadherins in distinct cellular processes, including adhesion, migration and proliferation. In particular, the major research topics have been the analysis of signal transduction pathways triggered by integrin receptors of the beta1 and alphaV families, as well as the study of the molecular mechanisms underlying the crosstalk between adhesion receptors, including integrins and cadherins, the dynamics of the actin cytoskeleton, and the functional roles of integrin-regulatory proteins, including ICAP1, RAP1 and KRIT1. Among the most recent accomplishments related to these topics there are the characterization of distinct ICAP1 functions (Degani et al., 2002; Bouvard et al., 2003; Fournier et al., 2005), the discovery of a novel isoform of KRIT1 (Retta et al., 2004), the finding that RAP1 mediates the crosstalk between cadherins and integrins (Balzac et al., 2005; Retta et al., 2006), the characterization of structural and functional differences between KRIT1A and KRIT1B isoforms (Francalanci et al., 2009), the identification of a unique interplay between RAP1 and E-cadherin regulating self-renewal of human embryonic stem cells (Li et al., 2010), the identification and characterization of a novel role for KRIT1 in the molecular machinery that controls the homeostasis of intracellular Reactive Oxygen Species (ROS) to prevent oxidative cellular damage (Goitre et al., 2010; Goitre et al., 2012), the characterization of the antioxidant effectiveness of a novel, recombinant phenolic compound (yeast avenanthramide) in cellular models (Moglia et al 2010), the identification and characterization of mutations in the three known CCM genes (*CCM1*, *CCM2* and *CCM3*) in a cohort of Italian patients with Cerebral Cavernous Malformation (D'Angelo et al., 2011), the definition of clinical implications of genetic an molecular bases of CCM disease (Bacigaluppi et al., 2012), and the identification of a novel KRIT1 interactor involved in the control of actin cytoskeleton dynamics and cell resistance to oxidative stress (Guazzi et al., 2012).

CURRENT RESEARCH INTERESTS

Current research focuses on the characterization of molecular and cellular mechanisms underlying the pathogenesis of Cerebral Cavernous Malformations (CCM), a major cerebrovascular disease of proven genetic origin characterized by abnormally dilated and leaky brain capillaries, and predisposing to seizures, focal neurological deficits, and intracerebral hemorrhage.

Among the recent accomplishments related to this research topic there are the findings that CCM proteins, including KRIT1 (CCM1), CCM2 and CCM3, play important roles in regulating the homeostasis of intracellular reactive oxygen species (ROS) and protecting cells against oxidative stress events, suggesting novel mechanisms for CCM pathogenesis and opening new perspectives for CCM disease prevention and treatment (Goitre et al., 2010; Guazzi et al., 2012; Goitre et al., 2012; Bacigaluppi et al., 2013; Maddaluno et al., 2013; Goitre et al., 2014; Gibson et al., 2015; Moglia et al., 2015; Trapani and Retta, 2015; Marchi et al., 2015; Choquet et al., 2016; Marchi et al., 2016a,b; Moglianetti et al., 2016; Retta & Glading 2016; Gotre et al., 2017; Antognelli et al., 2017; Antognelli et al., 2018; Cianfruglia et al., 2019; Retta et al., 2021; De Luca et al., 2021; Perrelli et al., 2021).

In this context, Prof. Retta has organized and coordinates an Italian multidisciplinary research network focused on the CCM disease (CCM Italia, https://www.ccmitalia.unito.it/), which is aimed at sharing knowledge, expertise and resources among clinical and basic research groups for facilitating breakthroughs into CCM pathogenesis mechanisms and their translational implementation. In particular, this network comprises clinical and research centers located in distinct Italian regions, and involves clinicians and researchers with complementary expertise and interests related to distinct aspects of the CCM disease, including neurosurgeons, neurologists, neuroradiologists, pathological anatomists, geneticists, and cellular and molecular biologists.

Moreover, he has founded a nonprofit patient-researcher organization (AIAC, Associazione Italiana Angiomi Cavernosi, https://www.aiac.unito.it/), which is acting on a national scale as an informative and supportive platform to CCM patients, yet interacting with CCM-focused organizations active worldwide, including Angioma Alliance USA, Angioma Alliance Canada and Cavernoma Alliance UK.

RESEARCH WEBLINKs

http://www.dscb.unito.it/do/gruppi.pl/Show?_id=8dgp

https://www.ccmitalia.unito.it/

RESEARCH GRANTS

TELETHON FOUNDATION (project code: GGP15219)
Duration: 01/12/2015 - 01/12/2019.
National Project Coordinator
Partner Units involved: Retta (Torino), Pinton (Ferrara), Trabalzini (Siena)
Project title: Oxidative Stress and Cerebral Cavernous Malformations (CCM): from disease mechanisms toward prevention and treatment.
Total funding: € 430.000
Funding of the Torino research Unit: € 220.000

CRT Foundation (project code: 2017.2318)
Duration: up to 15/06/2021
Project title: “Cerebro-NGS.TO”
Funding: € 30.000

FUTURO IN RICERCA (FUTURE IN RESEARCH) (project code: RBFR106VRR)
Duration: 08/03/2012 – 08/03/2016. Four-year project
Partner Units involved: Moglia (Torino), Retta (Torino)
Project title: Development of a yeast-based system for the production of novel antioxidative phenolic amides with biological properties relevant to human health.
Total funding: € 370.380

PRIN (Progetti di ricerca di Rilevante Interesse Nazionale)
Year 2008 - Two-year project
Project title: Study of the role of KRIT1 in integrin-mediated cell adhesion and in the pathogenesis of cerebral cavernous malformations (CCM1).
Funding of the research unit: € 49,000

TELETHON FOUNDATION
Year 2006 - Three-year project (grant GGP06222)
Project title: Characterization of the cellular functions of Krit1, the disease gene responsible for type 1 Cerebral Cavernous Malformations (CCM1).
Funding: € 241,000

REGIONE PIEMONTE (PIEMONTE REGION)

Year 2006 - Annual project

Finalized Healthcare Research Project 2006 call

Project title: Animal models and genetic screening for the study of the pathogenetic mechanisms of Cerebral Cavernous Malformations.

Funding: € 8.000

CIPE (Comitato Interministeriale per la Programmazione Economica)

Year 2005 - Two-year project

Regione Piemonte 2004 call - Life Sciences Sector

Project title: Characterization of the molecular mechanisms underlying the pathogenesis of cerebral cavernous malformations.

Funding: € 58.000

MINISTERO DEGLI AFFARI ESTERI (MINISTRY OF FOREIGN AFFAIRS)

Year 2004 - Two-year project

Italian-Austrian subcommittee for scientific and technological collaboration

Funding for joint biennial (2004-2005) research and cultural exchange project with the laboratory of prof. Victor Small at the Institute of Molecular Biotechnology (IMBA) of the Academy of Sciences in Vienna (Austria).

Project title: Analysis of KRIT1 functions in integrin-mediated cell adhesion and cerebral cavernous malformations (CCM1) pathogenesis.

Funding: Coverage of living expenses

PRIN (Progetti di ricerca di Rilevante Interesse Nazionale)

Year 2004 - Two-year project

National coordinator of the project

Project title: Study of the role of KRIT1 in integrin-mediated cell adhesion and in the pathogenesis of cerebral cavernous malformations (CCM1).

Total funding: 256.000 Euro

Funding of the research unit: € 87.600

MINISTERO DELLA SANITÀ (MINISTRY OF HEALTH)

Year 2003 - Two-year project

Project title: Analysis of the role of ICAP1 and KRIT1 proteins in cell migration and integrin-mediated angiogenesis.

Funding: € 58.000

PRIN (Progetti di ricerca di Rilevante Interesse Nazionale)

Year 2002 - Two-year project

Project Leader of Silengo research Unit

Project title: Study of the role of ICAP1A and RAP1 proteins in integrin-mediated cell adhesion and migration.

Funding of the research unit: € 80.900

UNIVERSITY OF TORINO

Annual Grants for Local Research Projects (RILO)

TEACHING ACTIVITIES

Current teaching courses at the University of Torino, Italy

https://www.dscb.unito.it/do/docenti.pl/Show?_id=fretta#tab-didattica

http://www.medinto.unito.it/do/docenti.pl/Show?_id=fretta#profilo

- **Cell Biology** (SCB0198) - CFU: 6
  (Integrated course: Cell Biology and Genetics)
  University Degree Course in Medicine and Surgery (in English)

- **Applied Biology** (MED2961C) - CFU: 1
  (Integrated course: Preparatory and biomedical sciences)
  University Degree Course in Speech Therapy (Logopedia)

- **Applied Biology** (MED2941) - CFU: 1
  (Integrated course: Preparatory and biomedical sciences)
  University Degree Course in Physiotherapy (Fisioterapia)

- **Applied Biology** (MED3281C) - CFU: 1
  (Integrated course: Preparatory and biomedical sciences)
  University Degree Course in Orthoptics and Ophthalmological Assistance (Ortottica)

- **Applied Biology** (MED3012C) - CFU: 1
  (Integrated course: Preparatory and biomedical sciences)
  University Degree Course in Developmental Age Neuropsychomotricity Therapy (Terapia della Neuropsicomotricità dell'Età Evolutiva, TNPEE)

- **Applied Biology** (SCB0036) - CFU: 1
  (Integrated course: Preparatory and biomedical sciences)
  University Degree Course in Psychiatric Rehabilitation Technique (Tecnica della Riabilitazione Psichiatrica, TRP)

- **Cell Biology** (INT0643) - CFU: 3
  (Integrated course: Biology and Genetics)
  University Master's Degree Course in Medical Biotechnology (Biotecnologie Mediche)

- **Applied Microscopy** (0188S e B8116) - CFU: 2
  University First and Second Level Degree Courses in Biotechnology (Biotecnologie)

- **Cell Biology** - CFU: 1
  Doctoral School in Complex Systems for Life Sciences

- ADE - **Cerebrovascular malformations: pathogenetic mechanisms, diagnostic procedures and therapeutic strategies** (SCB0025) - CFU: 1
  University Degree Course in Medicine and Surgery (in English)

- ADE - **Advanced microscopy techniques for biomedical applications** (SCB0024) - CFU: 1
  University Degree Course in Medicine and Surgery (in English)

PROFESSIONAL UPDATING

- Participation in the Academic Teaching Excellence (ATE) course of the British Council (Milan), addressed to university teachers who teach their courses in English.
  10-13 July 2017.
- Online training activities aimed at carrying out alternative teaching (E-learning, organization of online courses, creation of content, live video lessons, oral exams in telematic mode, use of the Webex, Moodle and Kaltura platforms).
  March-May 2020.
- Participation in the English as a Medium of Instruction (EMI) course of the British Council (Milan), addressed to university teachers who teach their courses in English.
  30 June -10 July 2020.

PUBBLICATIONS ON INTERNATIONAL JOURNALS

ORCID ID: https://orcid.org/0000-0001-9761-2959

Scopus ID: 6603604351 - https://www.scopus.com/authid/detail.uri?authorId=6603604351

PubMed: https://pubmed.ncbi.nlm.nih.gov/?term=Retta+SF&sort=date

1. Perrelli A, Retta SF*. (2021). **Polymorphisms in genes related to oxidative stress and inflammation: Emerging links with the pathogenesis and severity of Cerebral Cavernous Malformation disease**. *Free Radical Biology and Medicine*. 2021 August 20;172:403-417. DOI: 10.1016/j.freeradbiomed.2021.06.021. [IF: 7.376 (JCR 2020). Q1]

2. Fontanella MM, Bacigaluppi S, Doglietto F, Zanin L, Agosti E, Panciani P, Belotti F, Saraceno G, Spena G, Draghi R, Fiorindi A, Cornali C, Biroli A, Kivelev J, Chiesa M, Retta SF, Gasparotti R, Kato Y, Hernesniemi J, Rigamonti D. (2021). **An international call for a new grading system for cerebral and cerebellar cavernomas**. *Journal of Neurosurgical Sciences*. 2021 Jun;65(3):239-246. DOI: 10.23736/S0390-5616.21.05433-3. [IF: 2.279 (JCR 2020). Q3]

3. De Luca E, Perrelli A, Swamy H, Nitti M, Passalacqua M, Furfaro AL, Salzano AM, Scaloni A, Glading AJ, Retta SF*. (2021). **Protein kinase Cα regulates the nucleocytoplasmic shuttling of KRIT1**. *Journal of Cell Science*. 2021 Feb 4;134(3):jcs250217. DOI: 10.1242/jcs.250217. [IF: 5.285 (JCR 2020). Q2]

4. Perrelli A, Fatehbasharzad P, Benedetti V, Ferraris C, Fontanella M, De Luca E, Moglianetti M, Battaglia L, Retta SF*. (2021). **Towards precision nanomedicine for cerebrovascular diseases with emphasis on Cerebral Cavernous Malformation (CCM)**. *Expert Opinion on Drug Delivery*. 2021 Jan 23;18(7):849-876. DOI: 10.1080/17425247.2021.1873273. [IF: 6.648 (JCR 2020). Q1]

5. Trabalzini L., Finetti F. and Retta SF*. (2020). **Cerebral Cavernous Malformations (CCM) - Methods and Protocols.** Preface. *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book).

6. Retta SF*, Perrelli A, Trabalzini L, Finetti F. (2020). **From Genes and Mechanisms to Molecular-Targeted Therapies: The Long Climb to the Cure of Cerebral Cavernous Malformation (CCM) Disease**. *Methods Mol Biol.* 2020;2152:3-25. DOI: 10.1007/978-1-0716-0640-7_1. In Trabalzini L., Finetti F. and Retta S.F. (Eds.) "Cerebral Cavernous Malformations (CCM). Methods and Protocols", *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book chapter).

7. Benedetti V, Pellegrino E, Brusco A, Piva R, Retta SF*. (2020). **Next Generation Sequencing (NGS) Strategies for Genetic Testing of Cerebral Cavernous Malformation (CCM) Disease**. *Methods Mol Biol.* 2020;2152:59-75. DOI: 10.1007/978-1-0716-0640-7_5. In Trabalzini L., Finetti F. and Retta S.F. (Eds.) "Cerebral Cavernous Malformations (CCM). Methods and Protocols", *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book chapter).

8. Delle Monache S, Retta SF. (2020). **Generation of CCM Phenotype by a Human Microvascular Endothelial Model**. *Methods Mol Biol*. 2020;2152:131-137. DOI: 10.1007/978-1-0716-0640-7_10. In Trabalzini L., Finetti F. and Retta S.F. (Eds.) "Cerebral Cavernous Malformations (CCM). Methods and Protocols", *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book chapter).

9. Goitre L, Fornelli C, Zotta A, Perrelli A, Retta SF*. (2020). **Production of KRIT1-knockout and KRIT1-knockin Mouse Embryonic Fibroblasts as Cellular Models of CCM Disease**. *Methods Mol Biol.* 2020;2152:151-167. DOI: 10.1007/978-1-0716-0640-7_12. In Trabalzini L., Finetti F. and Retta S.F. (Eds.) "Cerebral Cavernous Malformations (CCM). Methods and Protocols", *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book chapter).

10. Delle Monache S, Retta SF. (2020). **Study of CCM Microvascular Endothelial Phenotype by an In Vitro Tubule Differentiation Model**. *Methods Mol Biol*. 2020;2152:371-375. DOI: 10.1007/978-1-0716-0640-7_26. In Trabalzini L., Finetti F. and Retta S.F. (Eds.) "Cerebral Cavernous Malformations (CCM). Methods and Protocols", *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book chapter).

11. Marchi S, Retta SF, Pinton P. (2020). **Detection of p62/SQSTM1 Aggregates in Cellular Models of CCM Disease by Immunofluorescence**. *Methods Mol Biol*. 2020;2152:417-426. DOI: 10.1007/978-1-0716-0640-7_30. In Trabalzini L., Finetti F. and Retta S.F. (Eds.) "Cerebral Cavernous Malformations (CCM). Methods and Protocols", *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book chapter).

12. Antognelli C, Talesa VN, Retta SF. (2020). **Spectrophotometric Method for Determining Glyoxalase 1 Activity in Cerebral Cavernous Malformation (CCM) Disease**. *Methods Mol Biol*. 2020;2152:445-449. DOI: 10.1007/978-1-0716-0640-7_33. In Trabalzini L., Finetti F. and Retta S.F. (Eds.) "Cerebral Cavernous Malformations (CCM). Methods and Protocols", *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book chapter).

13. Perrelli A and Retta SF*. (2020). **Fluorescence Analysis of Reactive Oxygen Species (ROS) in Cellular Models of Cerebral Cavernous Malformation Disease**. *Methods Mol Biol.* 2020;2152:451-465. DOI: 10.1007/978-1-0716-0640-7_34. In Trabalzini L., Finetti F. and Retta S.F. (Eds.) "Cerebral Cavernous Malformations (CCM). Methods and Protocols", *Methods in Molecular Biology* vol. 2152, pp. 398. Springer Nature (Basel, CH). ISBN: 978-1-07-160640-7; DOI: 10.1007/978-1-0716-0640-7. (Book chapter).

14. Kim AH, Perrelli A, Ragni A, Retta F, De Silva TM, Sobey GC, Retta SF*. (2020). **Vitamin D Deficiency and the Risk of Cerebrovascular Disease**. *Antioxidants (Basel)*. 2020 Apr 17; 9(4), pii: E327; doi:10.3390/antiox9040327. [IF: 6.312 (JCR 2020). Q1]

15. Antognelli C, Perrelli A, Armeni T, Nicola Talesa V, Retta SF*. (2020). **Dicarbonyl**

Stress and S-Glutathionylation in Cerebrovascular Diseases: A Focus on Cerebral Cavernous Malformations. *Antioxidants (Basel)*. 2020 Feb 1; 9(2). pii: E124. doi: 10.3390/antiox9020124. [IF: 6.312 (JCR 2020). Q1]

16. Moglianetti M, Pedone D, Udayan G, Retta SF, Debellis D, Marotta R, Turco A, Rella S, Malitesta C, Bonacucina G, De Luca E, Pompa PP. (2020). **Intracellular Antioxidant Activity of Biocompatible Citrate-Capped Palladium Nanozymes**. *Nanomaterials*. 2020 Jan 3;10(1). pii: E99. doi: 10.3390/nano10010099. [IF: 5.076 (JCR 2020). Q1]

17. Finetti F, Schiavo I, Ercoli J, Zotta A, Boda E, Retta SF, Trabalzini L. (2020). **KRIT1 loss-mediated upregulation of NOX1 in stromal cells promotes paracrine pro-angiogenic responses**. *Cellular Signalling*. 2020 Apr; 68:109527. doi: 10.1016/j.cellsig.2020.109527. [IF: 4.315 (JCR 2020). Q2]

18. Vieceli Dalla Sega F, Mastrocola R, Aquila G, Fortini F, Fornelli C, Zotta A, Cento AS, Perrelli A, Boda E, Pannuti A, Marchi S, Pinton P, Ferrari R, Rizzo P, Retta SF*. (2019). **KRIT1 Deficiency Promotes Aortic Endothelial Dysfunction**. *International Journal of Molecular Sciences*. 2019 Oct 5; pii: E4930. doi:c10.3390/ijms20194930. [IF: 4.556 (JCR 2019). Q1]

19. Cianfruglia L, Perrelli A, Fornelli C, Magini A, Gorbi S, Salzano AM, Antognelli C, Retta F, Benedetti V, Cassoni P, Emiliani C, Principato G, Scaloni A, Armeni T, Retta SF*. (**2019**). **KRIT1 Loss-Of-Function Associated with Cerebral Cavernous Malformation Disease Leads to Enhanced S-Glutathionylation of Distinct Structural and Regulatory Proteins**. *Antioxidants (Basel)*. 2019 Jan 17;8(1):1-28. [IF: 5.014 (JCR 2019). Q1]

20. De Luca E, Pedone D, Moglianetti M, Pulcini D, Perrelli A, Retta SF* & Pompa PP (**2018**). **Multifunctional Platinum@BSA-Rapamycin Nanocarriers for the Combinatorial Therapy of Cerebral Cavernous Malformation**. *ACS Omega*, 2018 Nov 30;3(11):15389-15398. [IF: 2.584 (JCR 2018). Q2]

21. Perrelli A, Goitre L, Salzano AM, Moglia A, Scaloni A, and Retta SF*. (**2018**). **Biological Activities, Health Benefits, and Therapeutic Properties of Avenanthramides: From Skin Protection to Prevention and Treatment of Cerebrovascular Diseases.** *Oxidative Medicine and Cellular Longevity* 2018, 6015351. [IF: 4.868 (JCR 2018). Q2]

22. Finetti F, Moglia A, Schiavo I, Donnini S, Berta GN, Di Scipio F, Perrelli A, Fornelli C, Trabalzini L, and Retta SF*. (**2018**). **Yeast-Derived Recombinant Avenanthramides Inhibit Proliferation, Migration and Epithelial Mesenchymal Transition of Colon Cancer Cells.** *Nutrients* 2018, 10(9), 1159. [IF: 4.171 (JCR 2018). Q1]

23. Antognelli C, Trapani E, Delle Monache S, Perrelli A, Daga M, Pizzimenti S, Barrera G, Cassoni P, Angelucci A, Trabalzini L, Talesa VN, Goitre L, Retta SF*. (**2018**). **KRIT1 loss-of-function induces a chronic Nrf2-mediated adaptive homeostasis that sensitizes cells to oxidative stress: Implication for Cerebral Cavernous Malformation disease.** *Free Radical Biology and Medicine* 2018 Feb 1; 115:202-218. Epub 2017 Nov 21. [IF: 6.020 (JCR 2017). Q1].

24. Antognelli C, Trapani E, Delle Monache S, Perrelli A, Fornelli C, Retta F, Cassoni P, Talesa VN, Retta SF*. (**2017**). **Data in support of sustained upregulation of adaptive redox homeostasis mechanisms caused by KRIT1 loss-of-function.** *Data Brief.* 2017 Dec 13; 16:929-938. [IF: 0,970 (JCR 2018). Q1]

25. Goitre L, DiStefano PV, Moglia A, Nobiletti N, Baldini E, Trabalzini L, Keubel J, Trapani E, Shuvaev VV, Muzykantov VR, Sarelius IH, Retta SF* & Glading AJ. (**2017**). **Up-regulation of NADPH oxidase-mediated redox signaling contributes to the loss of barrier function in KRIT1 deficient endothelium**. *Scientific Reports,* 2017 Aug 15; 7(1):8296. [IF: 4.122 (JCR 2017). Q1]

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