# Saverio Francesco Retta

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 77 papers | 3,943 citations | 109321 35 h-index | 123424 61 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 4861 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | EndMT contributes to the onset and progression of cerebral cavernous malformations. Nature, 2013, 498, 492-496. | 27.8 | 403 |
| 2 | Integrin-induced Epidermal Growth Factor (EGF) Receptor Activation Requires c-Src and p130Cas and Leads to Phosphorylation of Specific EGF Receptor Tyrosines. Journal of Biological Chemistry, 2002, 277, 9405-9414. | 3.4 | 330 |
| 3 | Helicobacter pylori Type IV Secretion Apparatus Exploits Î²1 Integrin in a Novel RGD-Independent Manner. PLoS Pathogens, 2009, 5, e1000684. | 4.7 | 203 |
| 4 | Platinum nanozymes recover cellular ROS homeostasis in an oxidative stress-mediated disease model. Nanoscale, 2016, 8, 3739-3752. | 5.6 | 203 |
| 5 | E-cadherin endocytosis regulates the activity of Rap1: a traffic light GTPase at the crossroads between cadherin and integrin function. Journal of Cell Science, 2005, 118, 4765-4783. | 2.0 | 157 |
| 6 | Strategy for Identifying Repurposed Drugs for the Treatment of Cerebral Cavernous Malformation. Circulation, 2015, 131, 289-299. | 1.6 | 149 |
| 7 | The Ras Superfamily of Small GTPases: The Unlocked Secrets. Methods in Molecular Biology, 2014, 1120, 1-18. | 0.9 | 138 |
| 8 | Muscle Î²1D Integrin Reinforces the Cytoskeletonâ€“Matrix Link: Modulation of Integrin Adhesive Function by Alternative Splicing. Journal of Cell Biology, 1997, 139, 1583-1595. | 5.2 | 126 |
| 9 | Defective autophagy is a key feature of cerebral cavernous malformations. EMBO Molecular Medicine, 2015, 7, 1403-1417. | 6.9 | 109 |
| 10 | KRIT1 Regulates the Homeostasis of Intracellular Reactive Oxygen Species. PLoS ONE, 2010, 5, e11786. | 2.5 | 106 |
| 11 | Rap1: A turnabout for the crosstalk between cadherins and integrins. European Journal of Cell Biology, 2006, 85, 283-293. | 3.6 | 83 |
| 12 | A Unique Interplay Between Rap1 and E-Cadherin in the Endocytic Pathway Regulates Self-Renewal of Human Embryonic Stem Cells Â Â. Stem Cells, 2010, 28, 247-257. | 3.2 | 82 |
| 13 | Oxidative stress and inflammation in cerebral cavernous malformation disease pathogenesis: Two sides of the same coin. International Journal of Biochemistry and Cell Biology, 2016, 81, 254-270. | 2.8 | 80 |
| 14 | Disruption of Focal Adhesions by Integrin Cytoplasmic Domain-associated Protein-1Î±. Journal of Biological Chemistry, 2003, 278, 6567-6574. | 3.4 | 79 |
| 15 | Focal Adhesion and Stress Fiber Formation Is Regulated by Tyrosine Phosphatase Activity. Experimental Cell Research, 1996, 229, 307-317. | 2.6 | 76 |
| 16 | p125FAK Tyrosine Phosphorylation and Focal Adhesion Assembly: Studies with Phosphotyrosine Phosphatase Inhibitors. Experimental Cell Research, 1995, 221, 141-152. | 2.6 | 74 |
| 17 | Expression of beta 1B integrin isoform in CHO cells results in a dominant negative effect on cell adhesion and motility.. Journal of Cell Biology, 1994, 127, 557-565. | 5.2 | 69 |
| 18 | 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, 115, 202-218. | 2.9 | 69 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | KRIT1 loss of function causes a ROS-dependent upregulation of c-Jun. Free Radical Biology and Medicine, 2014, 68, 134-147. | 2.9 | 66 |
| 20 | 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, 2018, 1-17. | 4.0 | 60 |
| 21 | Cross Talk between Î²<sub>1</sub>and Î±<sub>V</sub>Integrins: Î²<sub>1</sub>Affects Î²<sub>3</sub>mRNA Stability. Molecular Biology of the Cell, 2001, 12, 3126-3138. | 2.1 | 58 |
| 22 | The integrin cytoplasmic domain-associated protein ICAP-1 binds and regulates Rho family GTPases during cell spreading. Journal of Cell Biology, 2002, 156, 377-388. | 5.2 | 58 |
| 23 | The Interplay between ROS and Ras GTPases: Physiological and Pathological Implications. Journal of Signal Transduction, 2012, 2012, 1-9. | 2.0 | 56 |
| 24 | Molecular Crosstalk between Integrins and Cadherins: Do Reactive Oxygen Species Set the Talk?. Journal of Signal Transduction, 2012, 2012, 1-12. | 2.0 | 55 |
| 25 | Vitamin D Deficiency and the Risk of Cerebrovascular Disease. Antioxidants, 2020, 9, 327. | 5.1 | 55 |
| 26 | Î²1D Integrin Inhibits Cell Cycle Progression in Normal Myoblasts and Fibroblasts. Journal of Biological Chemistry, 1998, 273, 15234-15240. | 3.4 | 53 |
| 27 | Mutation Analysis of CCM1, CCM2 and CCM3 Genes in a Cohort of Italian Patients with Cerebral Cavernous Malformation. Brain Pathology, 2011, 21, 215-224. | 4.1 | 52 |
| 28 | Up-regulation of NADPH oxidase-mediated redox signaling contributes to the loss of barrier function in KRIT1 deficient endothelium. Scientific Reports, 2017, 7, 8296. | 3.3 | 51 |
| 29 | Structural and functional differences between KRIT1A and KRIT1B isoforms: A framework for understanding CCM pathogenesis. Experimental Cell Research, 2009, 315, 285-303. | 2.6 | 49 |
| 30 | Cytochrome P450 and matrix metalloproteinase genetic modifiers of disease severity in Cerebral Cavernous Malformation type 1. Free Radical Biology and Medicine, 2016, 92, 100-109. | 2.9 | 47 |
| 31 | Ade novoX;8 translocation creates aPTK2-THOC2gene fusion withTHOC2expression knockdown in a patient with psychomotor retardation and congenital cerebellar hypoplasia. Journal of Medical Genetics, 2013, 50, 543-551. | 3.2 | 42 |
| 32 | KRIT1 Loss-Of-Function Associated with Cerebral Cavernous Malformation Disease Leads to Enhanced S-Glutathionylation of Distinct Structural and Regulatory Proteins. Antioxidants, 2019, 8, 27. | 5.1 | 39 |
| 33 | Data in support of sustained upregulation of adaptive redox homeostasis mechanisms caused by KRIT1 loss-of-function. Data in Brief, 2018, 16, 929-938. | 1.0 | 37 |
| 34 | Evaluation of the bioactive properties of avenanthramide analogs produced in recombinant yeast. BioFactors, 2015, 41, 15-27. | 5.4 | 36 |
| 35 | Intracellular Antioxidant Activity of Biocompatible Citrate-Capped Palladium Nanozymes. Nanomaterials, 2020, 10, 99. | 4.1 | 36 |
| 36 | Nuclear Translocation of Integrin Cytoplasmic Domain-associated Protein 1 Stimulates Cellular Proliferation. Molecular Biology of the Cell, 2005, 16, 1859-1871. | 2.1 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Production of novel antioxidative phenolic amides through heterologous expression of the plantâ€™s chlorogenic acid biosynthesis genes in yeast. Metabolic Engineering, 2010, 12, 223-232. | 7.0 | 35 |
| 38 | Genetic and cellular basis of cerebral cavernous malformations: implications for clinical management. Clinical Genetics, 2013, 83, 7-14. | 2.0 | 32 |
| 39 | Multifunctional Platinum@BSAâ€“Rapamycin Nanocarriers for the Combinatorial Therapy of Cerebral Cavernous Malformation. ACS Omega, 2018, 3, 15389-15398. | 3.5 | 31 |
| 40 | Yersinia enterocolitica exploits different pathways to accomplish adhesion and toxin injection into host cells. Cellular Microbiology, 2015, 17, 1179-1204. | 2.1 | 30 |
| 41 | Identification of the Kelch Family Protein Nd1-L as a Novel Molecular Interactor of KRIT1. PLoS ONE, 2012, 7, e44705. | 2.5 | 28 |
| 42 | The Muscle-Specific Laminin Receptor Î±7Î²1 Integrin Negatively Regulates Î±5Î²1 Fibronectin Receptor Function. Experimental Cell Research, 1999, 246, 421-432. | 2.6 | 27 |
| 43 | miR-21 coordinates tumor growth and modulates KRIT1 levels. Biochemical and Biophysical Research Communications, 2013, 438, 90-96. | 2.1 | 27 |
| 44 | Cerebral cavernous malformation (CCM) disease: from monogenic forms to genetic susceptibility factors. Journal of Neurosurgical Sciences, 2015, 59, 201-9. | 0.6 | 27 |
| 45 | Cellular processes underlying cerebral cavernous malformations: Autophagy as another point of view. Autophagy, 2016, 12, 424-425. | 9.1 | 25 |
| 46 | Beyond multiple mechanisms and a unique drug: Defective autophagy as pivotal player in cerebral cavernous malformation pathogenesis and implications for targeted therapies. Rare Diseases (Austin,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.8 | 24 |
| 47 | KRIT1 Deficiency Promotes Aortic Endothelial Dysfunction. International Journal of Molecular Sciences, 2019, 20, 4930. | 4.1 | 24 |
| 48 | Dicarbonyl Stress and S-Glutathionylation in Cerebrovascular Diseases: A Focus on Cerebral Cavernous Malformations. Antioxidants, 2020, 9, 124. | 5.1 | 24 |
| 49 | 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, 172, 403-417. | 2.9 | 22 |
| 50 | Identification of Krit1B: a novel alternative splicing isoform of cerebral cavernous malformation gene-1. Gene, 2004, 325, 63-78. | 2.2 | 18 |
| 51 | KRIT1 loss-mediated upregulation of NOX1 in stromal cells promotes paracrine pro-angiogenic responses. Cellular Signalling, 2020, 68, 109527. | 3.6 | 15 |
| 52 | Yeast-Derived Recombinant Avenanthramides Inhibit Proliferation, Migration and Epithelial Mesenchymal Transition of Colon Cancer Cells. Nutrients, 2018, 10, 1159. | 4.1 | 14 |
| 53 | Ras GTPases Are Both Regulators and Effectors of Redox Agents. Methods in Molecular Biology, 2014, 1120, 55-74. | 0.9 | 13 |
| 54 | ÃŸ1B Integrin interferes with matrix assembly but not with confluent monolayer polarity, and alters some morphogenetic properties of FRT epithelial cells. European Journal of Cell Biology, 1998, 75, 107-117. | 3.6 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Reactive Oxygen Species: Friends and Foes of Signal Transduction. Journal of Signal Transduction, 2012, 2012, 1-1. | 2.0 | 12 |
| 56 | From Genes and Mechanisms to Molecular-Targeted Therapies: The Long Climb to the Cure of Cerebral Cavernous Malformation (CCM) Disease. Methods in Molecular Biology, 2020, 2152, 3-25. | 0.9 | 12 |
| 57 | Purification of Fibronectin from Human Plasma. , 1999, 96, 119-124. | | 11 |
| 58 | Adhesion to Matrix Proteins. , 1999, 96, 125-130. | | 10 |
| 59 | Towards precision nanomedicine for cerebrovascular diseases with emphasis on Cerebral Cavernous Malformation (CCM). Expert Opinion on Drug Delivery, 2021, 18, 849-876. | 5.0 | 10 |
| 60 | Protein kinase CÎ± (PKCÎ±) regulates the nucleocytoplasmic shuttling of KRIT1. Journal of Cell Science, 2021, 134, . | 2.0 | 8 |
| 61 | Next-Generation Sequencing Advances the Genetic Diagnosis of Cerebral Cavernous Malformation (CCM). Antioxidants, 2022, 11, 1294. | 5.1 | 7 |
| 62 | Inhibition of PI3K induces Rac Activation and Membrane Ruffling in Proto-Dbl Expressing Cells. Cell Cycle, 2006, 5, 2657-2665. | 2.6 | 5 |
| 63 | An international call for a new grading system for cerebral and cerebellar cavernomas. Journal of Neurosurgical Sciences, 2021, 65, 239-246. | 0.6 | 5 |
| 64 | Fluorescence Microscopy Study of Rap1 Subcellular Localization. Methods in Molecular Biology, 2014, 1120, 197-205. | 0.9 | 5 |
| 65 | Production of KRIT1-knockout and KRIT1-knockin Mouse Embryonic Fibroblasts as Cellular Models of CCM Disease. Methods in Molecular Biology, 2020, 2152, 151-167. | 0.9 | 3 |
| 66 | Altered expression of integrins in RSV-transformed chick epiphyseal chondrocytes. Biochimie, 2003, 85, 483-492. | 2.6 | 2 |
| 67 | Next Generation Sequencing (NGS) Strategies for Genetic Testing of Cerebral Cavernous Malformation (CCM) Disease. Methods in Molecular Biology, 2020, 2152, 59-75. | 0.9 | 2 |
| 68 | Combined Pulldown and Time-Lapse Microscopy Studies for Determining the Role of Rap1 in the Crosstalk Between Integrins and Cadherins. Methods in Molecular Biology, 2014, 1120, 177-195. | 0.9 | 1 |
| 69 | Fluorescence Analysis of Reactive Oxygen Species (ROS) in Cellular Models of Cerebral Cavernous Malformation Disease. Methods in Molecular Biology, 2020, 2152, 451-465. | 0.9 | 1 |
| 70 | The Role of Oxidative Stress in Cerebral Cavernous Malformation (CCM) Pathogenesis: From Disease Mechanisms toward Therapeutic Approaches. Free Radical Biology and Medicine, 2015, 87, S56. | 2.9 | 0 |
| 71 | Loss of KRIT1 causes a sustained activation of an adaptive cellular allostatic response that counteracts intrinsic oxidative stress but sensitizes cells to further oxidative challenges. Free Radical Biology and Medicine, 2017, 108, S20. | 2.9 | 0 |
| 72 | Krit1 loss-of-function increases TNF-Î± -induced apoptosis by inhibiting Notch1 in endothelial cells. Journal of Molecular and Cellular Cardiology, 2018, 120, 48. | 1.9 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Protein Kinase CÎ± (PkcÎ±) Regulates the Nucleocytoplasmic Shuttling of KRIT1. FASEB Journal, 2021, 35, . | 0.5 | 0 |
| 74 | Study of CCM Microvascular Endothelial Phenotype by an In Vitro Tubule Differentiation Model. Methods in Molecular Biology, 2020, 2152, 371-375. | 0.9 | 0 |
| 75 | Detection of p62/SQSTM1 Aggregates in Cellular Models of CCM Disease by Immunofluorescence. Methods in Molecular Biology, 2020, 2152, 417-426. | 0.9 | 0 |
| 76 | Spectrophotometric Method for Determining Glyoxalase 1 Activity in Cerebral Cavernous Malformation (CCM) Disease. Methods in Molecular Biology, 2020, 2152, 445-449. | 0.9 | 0 |
| 77 | Generation of CCM Phenotype by a Human Microvascular Endothelial Model. Methods in Molecular Biology, 2020, 2152, 131-137. | 0.9 | 0 |