# Sophie Vriz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9579785/publications.pdf

Version: 2024-02-01

| 64 | 2,649 | 186265 | 206112 |
|---|---|---|---|
| papers | citations | 28 h-index | 48 g-index |

| 80 | 80 | 80 | 3723 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sustained production of ROS triggers compensatory proliferation and is required for regeneration to proceed. Scientific Reports, 2013, 3, 2084. | 3.3 | 256 |
| 2 | How to control proteins with light in living systems. Nature Chemical Biology, 2014, 10, 533-541. | 8.0 | 216 |
| 3 | Ultrasensitive Genetically Encoded Indicator for Hydrogen Peroxide Identifies Roles for the Oxidant in Cell Migration and Mitochondrial Function. Cell Metabolism, 2020, 31, 642-653.e6. | 16.2 | 202 |
| 4 | Small fluorescence-activating and absorption-shifting tag for tunable protein imaging in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 497-502. | 7.1 | 186 |
| 5 | A Blue-Absorbing Photolabile Protecting Group for in Vivo Chromatically Orthogonal Photoactivation. ACS Chemical Biology, 2013, 8, 1528-1536. | 3.4 | 96 |
| 6 | Hotfoot Mouse Mutations Affect the Î2 Glutamate Receptor Gene and Are Allelic to Lurcher. Genomics, 1998, 50, 9-13. | 2.9 | 87 |
| 7 | Cell Death. Current Topics in Developmental Biology, 2014, 108, 121-151. | 2.2 | 86 |
| 8 | An evolutionarily-conserved Wnt3/Î²-catenin/Sp5 feedback loop restricts head organizer activity in Hydra. Nature Communications, 2019, 10, 312. | 12.8 | 84 |
| 9 | A Caged Retinoic Acid for Oneâ€•and Twoâ€Photon Excitation in Zebrafish Embryos. Angewandte Chemie - International Edition, 2008, 47, 3744-3746. | 13.8 | 83 |
| 10 | Hydrogen peroxide (H2O2) controls axon pathfinding during zebrafish development. Developmental Biology, 2016, 414, 133-141. | 2.0 | 77 |
| 11 | Photocontrol of Protein Activity in Cultured Cells and Zebrafish with Oneâ€•and Twoâ€Photon Illumination. ChemBioChem, 2010, 11, 653-663. | 2.6 | 72 |
| 12 | C5â€ÐNA Methyltransferase Inhibitors: From Screening to Effects on Zebrafish Embryo Development. ChemBioChem, 2011, 12, 1337-1345. | 2.6 | 69 |
| 13 | Molecular characterization of a heat shock cognate cDNA of zebrafish,hsc70, and developmental expression of the corresponding transcripts. Genesis, 1997, 21, 223-233. | 2.1 | 64 |
| 14 | High-efficiency gene transfer into adult fish: A new tool to study fin regeneration. Genesis, 2002, 32, 27-31. | 1.6 | 61 |
| 15 | Photoactivation of the CreER<sup>T2</sup> Recombinase for Conditional Site-Specific Recombination with High Spatiotemporal Resolution. Zebrafish, 2010, 7, 199-204. | 1.1 | 61 |
| 16 | Hydrogen Peroxide and Redox Regulation of Developments. Antioxidants, 2018, 7, 159. | 5.1 | 59 |
| 17 | Heritable expansion of the genetic code in mouse and zebrafish. Cell Research, 2017, 27, 294-297. | 12.0 | 57 |
| 18 | Mechano-sensory organ regeneration in adults: The zebrafish lateral line as a model. Molecular and Cellular Neurosciences, 2006, 33, 180-187. | 2.2 | 53 |

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|---|---|---|---|
| 19 | Nerves Control Redox Levels in Mature Tissues Through Schwann Cells and Hedgehog Signaling. Antioxidants and Redox Signaling, 2016, 24, 299-311. | 5.4 | 48 |
| 20 | Orthogonal fluorescent chemogenetic reporters for multicolor imaging. Nature Chemical Biology, 2021, 17, 30-38. | 8.0 | 43 |
| 21 | The zebrafish Zf-Sox 19 protein: a novel member of the Sox family which reveals highly conserved motifs outside of the DNA-binding domain. Gene, 1995, 153, 275-276. | 2.2 | 39 |
| 22 | Fgf and Sdf-1 Pathways Interact during Zebrafish Fin Regeneration. PLoS ONE, 2009, 4, e5824. | 2.5 | 38 |
| 23 | Photoswitching Kinetics and Phaseâ€Sensitive Detection Add Discriminative Dimensions for Selective Fluorescence Imaging. Angewandte Chemie - International Edition, 2015, 54, 2633-2637. | 13.8 | 36 |
| 24 | Opioids prevent regeneration in adult mammals through inhibition of ROS production. Scientific Reports, 2018, 8, 12170. | 3.3 | 35 |
| 25 | Redox Signaling via Lipid Peroxidation Regulates Retinal Progenitor Cell Differentiation. Developmental Cell, 2019, 50, 73-89.e6. | 7.0 | 35 |
| 26 | The chemokine SDF-1 regulates blastema formation during zebrafish fin regeneration. Development Genes and Evolution, 2006, 216, 635-639. | 0.9 | 34 |
| 27 | Zygotic expression of the zebrafish Sox-19, an HMG box-containing gene, suggests an involvement in central nervous system development. Molecular Brain Research, 1996, 40, 221-228. | 2.3 | 30 |
| 28 | A Farâ€Red Emitting Fluorescent Chemogenetic Reporter for Inâ€…Vivo Molecular Imaging. Angewandte Chemie - International Edition, 2020, 59, 17917-17923. | 13.8 | 29 |
| 29 | Translocator protein (18 kDa) is involved in primitive erythropoiesis in zebrafish. FASEB Journal, 2009, 23, 4181-4192. | 0.5 | 28 |
| 30 | Implication of type 3 deiodinase induction in zebrafish fin regeneration. General and Comparative Endocrinology, 2010, 168, 88-94. | 1.8 | 27 |
| 31 | Fluorogenic Probing of Membrane Protein Trafficking. Bioconjugate Chemistry, 2018, 29, 1823-1828. | 3.6 | 24 |
| 32 | Optical Control of Tumor Induction in the Zebrafish. Scientific Reports, 2017, 7, 9195. | 3.3 | 22 |
| 33 | Evaluation of the compounds commonly known as superoxide dismutase and catalase mimics in cellular models. Journal of Inorganic Biochemistry, 2021, 219, 111431. | 3.5 | 22 |
| 34 | Zebrafish Hsp40 and Hsc70 genes are both induced during caudal fin regeneration. Mechanisms of Development, 2000, 99, 183-186. | 1.7 | 21 |
| 35 | Developmental Role of Zebrafish Protease-Activated Receptor 1 (PAR1) in the Cardio-Vascular System. PLoS ONE, 2012, 7, e42131. | 2.5 | 21 |
| 36 | Analysis of 3â€²-untranslated regions of seven c-myc genes reveals conserved elements prevalent in post-transcriptionally regulated genes. FEBS Letters, 1989, 251, 201-206. | 2.8 | 19 |

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|---|---|---|---|
| 37 | Nerves, H2O2 and Shh: Three players in the game of regeneration. Seminars in Cell and Developmental Biology, 2018, 80, 65-73. | 5.0 | 19 |
| 38 | H2O2 and Engrailed 2 paracrine activity synergize to shape the zebrafish optic tectum. Communications Biology, 2020, 3, 536. | 4.4 | 18 |
| 39 | Control of brain patterning by Engrailed paracrine transfer: a new function of the Pbx interaction domain. Development (Cambridge), 2015, 142, 1840-1849. | 2.5 | 15 |
| 40 | Optical control and study of biological processes at the single-cell level in a live organism. Reports on Progress in Physics, 2013, 76, 072601. | 20.1 | 14 |
| 41 | A Farâ€Red Emitting Fluorescent Chemogenetic Reporter for Inâ€…Vivo Molecular Imaging. Angewandte Chemie, 2020, 132, 18073-18079. | 2.0 | 14 |
| 42 | Spatiotemporal manipulation of retinoic acid activity in zebrafish hindbrain development via photo-isomerization. Development (Cambridge), 2012, 139, 3355-3362. | 2.5 | 12 |
| 43 | Control of Protein Activity and Gene Expression by Cyclofenâ€OH Uncaging. ChemBioChem, 2018, 19, 1232-1238. | 2.6 | 12 |
| 44 | Adenosine enhances progenitor cell recruitment and nerve growth via its A2B receptor during adult fin regeneration. Purinergic Signalling, 2014, 10, 595-602. | 2.2 | 11 |
| 45 | Hypocrates is a genetically encoded fluorescent biosensor for (pseudo)hypohalous acids and their derivatives. Nature Communications, 2022, 13, 171. | 12.8 | 9 |
| 46 | An early Shhâ€“H2O2 reciprocal regulatory interaction controls the regenerative program during zebrafish fin regeneration. Journal of Cell Science, 2022, 135, . | 2.0 | 9 |
| 47 | Posttranscriptional regulation of c-myc RNA during early development ofXenopus laevis. FEBS Letters, 1991, 291, 177-180. | 2.8 | 8 |
| 48 | A di-Copper Peptidyl Complex Mimics the Activity of Catalase, a Key Antioxidant Metalloenzyme. Inorganic Chemistry, 2021, 60, 9309-9319. | 4.0 | 7 |
| 49 | Nerves and hydrogen peroxide: how old enemies become new friends. Neural Regeneration Research, 2017, 12, 568. | 3.0 | 6 |
| 50 | A method to assess the migration properties of cell-derived microparticles within a living tissue. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 863-866. | 2.4 | 5 |
| 51 | Versatile On-Demand Fluorescent Labeling of Fusion Proteins Using Fluorescence-Activating and Absorption-Shifting Tag (FAST). Methods in Molecular Biology, 2021, 2350, 253-265. | 0.9 | 5 |
| 52 | Fgf8 dynamics and critical slowing down may account for the temperature independence of somitogenesis. Communications Biology, 2022, 5, 113. | 4.4 | 5 |
| 53 | Construction of a high-resolution genetic map encompassing the hotfoot locus. Mammalian Genome, 1997, 8, 903-906. | 2.2 | 4 |
| 54 | Redox signalling in development and regeneration. Seminars in Cell and Developmental Biology, 2018, 80, 1-2. | 5.0 | 4 |

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|---|---|---|---|
| 55 | Reciprocal Regulation of Shh Trafficking and H2O2 Levels via a Noncanonical BOC-Rac1 Pathway. Antioxidants, 2022, 11, 718. | 5.1 | 4 |
| 56 | Proto-oncogenes and embryonic development. Biochimie, 1988, 70, 895-899. | 2.6 | 3 |
| 57 | Optical control of protein activity and gene expression by photoactivation of caged cyclofen. Methods in Enzymology, 2019, 624, 1-23. | 1.0 | 3 |
| 58 | Single Cell Physiology. Springer Series in Chemical Physics, 2010, , 305-316. | 0.2 | 2 |
| 59 | Redox-regulated brain development. , 2020, , 565-582. | | 2 |
| 60 | NADPH-Oxidase Derived Hydrogen Peroxide and Irs2b Facilitate Re-oxygenation-Induced Catch-Up Growth in Zebrafish Embryo. Frontiers in Endocrinology, 0, 13, . | 3.5 | 2 |
| 61 | Isolation and developmental expression of an oogenesis-specific Xenopus cDNA clone. Roux's Archives of Developmental Biology, 1992, 201, 113-119. | 1.2 | 0 |
| 62 | Photo-Control of Protein Activity in a Single Cell of a Live Organisim. Biophysical Journal, 2010, 98, 612a. | 0.5 | 0 |
| 63 | HomÃ©oprotÃ©ines et plasticitÃ© cellulaire. Lâ€™annuaire Du CollÃ¨ge De France, 2016, , 918-919. | 0.0 | 0 |
| 64 | HomÃ©oprotÃ©ines et plasticitÃ© cellulaireÂ/ Homeoproteins and cell plasticity. Lâ€™annuaire Du CollÃ¨ge De France, 2018, , 662-664. | 0.0 | 0 |