

Takaya Satoh

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,261
citations

623734

14
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677142

22
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22
all docs

22
docs citations

22
times ranked

1007
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Structure and Function of Signal-Transducing GTP-Binding Proteins. Annual Review of Biochemistry, 1991, 60, 349-400. | 11.1 | 659 |
| 2 | Crucial role of the small GTPase Rac1 in insulin-stimulated translocation of glucose transporter 4 to the mouse skeletal muscle sarcolemma. FASEB Journal, 2010, 24, 2254-2261. | 0.5 | 103 |
| 3 | Molecular Mechanisms for the Regulation of Insulin-Stimulated Glucose Uptake by Small Guanosine Triphosphatases in Skeletal Muscle and Adipocytes. International Journal of Molecular Sciences, 2014, 15, 18677-18692. | 4.1 | 83 |
| 4 | Activation of the small GTPase Rac1 by a specific guanine-nucleotide-exchange factor suffices to induce glucose uptake into skeletal muscle cells. Biology of the Cell, 2008, 100, 645-661. | 2.0 | 70 |
| 5 | Role of the Sec14-like domain of Dbl family exchange factors in the regulation of Rho family GTPases in different subcellular sites. Cellular Signalling, 2004, 16, 899-906. | 3.6 | 53 |
| 6 | Role of RalA downstream of Rac1 in insulin-dependent glucose uptake in muscle cells. Cellular Signalling, 2012, 24, 2111-2117. | 3.6 | 43 |
| 7 | Akt2 regulates Rac1 activity in the insulin-dependent signaling pathway leading to GLUT4 translocation to the plasma membrane in skeletal muscle cells. Cellular Signalling, 2013, 25, 1361-1371. | 3.6 | 37 |
| 8 | A critical role of the small GTPase Rac1 in Akt2-mediated GLUT4 translocation in mouse skeletal muscle. FEBS Journal, 2014, 281, 1493-1504. | 4.7 | 26 |
| 9 | Role of the Guanine Nucleotide Exchange Factor Ost in Negative Regulation of Receptor Endocytosis by the Small GTPase Rac1. Journal of Biological Chemistry, 2007, 282, 23296-23305. | 3.4 | 23 |
| 10 | Role of the guanine nucleotide exchange factor in Akt2-mediated plasma membrane translocation of GLUT4 in insulin-stimulated skeletal muscle. Cellular Signalling, 2014, 26, 2460-2469. | 3.6 | 23 |
| 11 | Role for RalA downstream of Rac1 in skeletal muscle insulin signalling. Biochemical Journal, 2015, 469, 445-454. | 3.7 | 22 |
| 12 | Rho GTPases in insulin-stimulated glucose uptake. Small GTPases, 2014, 5, e28102. | 1.6 | 21 |
| 13 | Rac1 Activation Caused by Membrane Translocation of a Guanine Nucleotide Exchange Factor in Akt2-Mediated Insulin Signaling in Mouse Skeletal Muscle. PLoS ONE, 2016, 11, e0155292. | 2.5 | 21 |
| 14 | A Crucial Role for the Small GTPase Rac1 Downstream of the Protein Kinase Akt2 in Insulin Signaling that Regulates Glucose Uptake in Mouse Adipocytes. International Journal of Molecular Sciences, 2019, 20, 5443. | 4.1 | 16 |
| 15 | Involvement of the protein kinase Akt2 in insulin-stimulated Rac1 activation leading to glucose uptake in mouse skeletal muscle. PLoS ONE, 2019, 14, e0212219. | 2.5 | 14 |
| 16 | Impaired vascular development in the yolk sac and allantois in mice lacking RA-GEF-1. Biochemical and Biophysical Research Communications, 2009, 387, 754-759. | 2.1 | 12 |
| 17 | Immunofluorescent detection of the activation of the small GTPase Rac1 in mouse skeletal muscle fibers. Analytical Biochemistry, 2015, 476, 5-7. | 2.4 | 11 |
| 18 | In situ detection of the activation of Rac1 and RalA small GTPases in mouse adipocytes by immunofluorescent microscopy following in vivo and ex vivo insulin stimulation. Cellular Signalling, 2017, 39, 108-117. | 3.6 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The guanine nucleotide exchange factor FLJ00068 activates Rac1 in adipocyte insulin signaling. FEBS Letters, 2020, 594, 4370-4380. | 2.8 | 7 |
| 20 | A critical role for the small GTPase Rac1 in insulin signaling that regulates glucose uptake in skeletal muscle. Research on Chemical Intermediates, 2019, 45, 5389-5397. | 2.7 | 2 |
| 21 | Diverse Physiological Functions and Regulatory Mechanisms for Signal-Transducing Small GTPases. International Journal of Molecular Sciences, 2020, 21, 7291. | 4.1 | 2 |
| 22 | Atrophy of White Adipose Tissue Accompanied with Decreased Insulin-Stimulated Glucose Uptake in Mice Lacking the Small GTPase Rac1 Specifically in Adipocytes. International Journal of Molecular Sciences, 2021, 22, 10753. | 4.1 | 2 |