

# Fariba M Assadi-Porter

## List of Publications by Citations

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35  
papers

860  
citations

17  
h-index

29  
g-index

39  
ext. papers

1,003  
ext. citations

5  
avg, IF

3.75  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 35 | Key amino acid residues involved in multi-point binding interactions between brazzein, a sweet protein, and the T1R2-T1R3 human sweet receptor. <i>Journal of Molecular Biology</i> , <b>2010</b> , 398, 584-99            | 6.5  | 87        |
| 34 | Sweetness determinant sites of brazzein, a small, heat-stable, sweet-tasting protein. <i>Archives of Biochemistry and Biophysics</i> , <b>2000</b> , 376, 259-65   | 4.1  | 77        |
| 33 | Artificial sweeteners stimulate adipogenesis and suppress lipolysis independently of sweet taste receptors. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 32475-32489  | 5.4  | 70        |
| 32 | Efficient production of recombinant brazzein, a small, heat-stable, sweet-tasting protein of plant origin. <i>Archives of Biochemistry and Biophysics</i> , <b>2000</b> , 376, 252-8                                       | 4.1  | 64        |
| 31 | Direct NMR detection of the binding of functional ligands to the human sweet receptor, a heterodimeric family 3 GPCR. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7212-3                          | 16.4 | 61        |
| 30 | Critical regions for the sweetness of brazzein. <i>FEBS Letters</i> , <b>2003</b> , 544, 33-7  | 3.8  | 49        |
| 29 | Interactions between the human sweet-sensing T1R2-T1R3 receptor and sweeteners detected by saturation transfer difference NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 82-6 | 3.8  | 43        |
| 28 | Ligand-specific structural changes in the vitamin D receptor in solution. <i>Biochemistry</i> , <b>2011</b> , 50, 11025-33   | 3.2  | 40        |
| 27 | Metabolic Evidence of Diminished Lipid Oxidation in Women With Polycystic Ovary Syndrome. <i>Current Metabolomics</i> , <b>2014</b> , 2, 269-278   | 1    | 37        |
| 26 | Efficient and rapid protein expression and purification of small high disulfide containing sweet protein brazzein in E. coli. <i>Protein Expression and Purification</i> , <b>2008</b> , 58, 263-8                         | 2    | 37        |
| 25 | Use of NMR saturation transfer difference spectroscopy to study ligand binding to membrane proteins. <i>Methods in Molecular Biology</i> , <b>2012</b> , 914, 47-63  | 1.4  | 34        |
| 24 | Correlation of the sweetness of variants of the protein brazzein with patterns of hydrogen bonds detected by NMR spectroscopy. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 31331-9                         | 5.4  | 27        |
| 23 | The Hibernator Microbiome: Host-Bacterial Interactions in an Extreme Nutritional Symbiosis. <i>Annual Review of Nutrition</i> , <b>2017</b> , 37, 477-500  | 9.9  | 26        |
| 22 | Monkey electrophysiological and human psychophysical responses to mutants of the sweet protein brazzein: delineating brazzein sweetness. <i>Chemical Senses</i> , <b>2003</b> , 28, 491-8                                  | 4.8  | 24        |
| 21 | Metabolic Reprogramming by 3-Iodothyronamine (T1AM): A New Perspective to Reverse Obesity through Co-Regulation of Sirtuin 4 and 6 Expression. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,      | 6.3  | 23        |
| 20 | Metabolic profiling reveals reprogramming of lipid metabolic pathways in treatment of polycystic ovary syndrome with 3-iodothyronamine. <i>Physiological Reports</i> , <b>2017</b> , 5, e13097                             | 2.6  | 18        |
| 19 | NMR Metabolomics Show Evidence for Mitochondrial Oxidative Stress in a Mouse Model of Polycystic Ovary Syndrome. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 3284-91   | 5.6  | 17        |

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| 18 | One-step purification of bacterially expressed recombinant transducin alpha-subunit and isotopically labeled PDE6 gamma-subunit for NMR analysis. <i>Protein Expression and Purification</i> , <b>2007</b> , 51, 187-97                                | 2    | 16 |
| 17 | Brazzein, a small, sweet protein: effects of mutations on its structure, dynamics and functional properties. <i>Chemical Senses</i> , <b>2005</b> , 30 Suppl 1, i90-1  | 4.8  | 14 |
| 16 | Novel diagnostics of metabolic dysfunction detected in breath and plasma by selective isotope-assisted labeling. <i>Metabolism: Clinical and Experimental</i> , <b>2012</b> , 61, 1162-70  | 12.7 | 13 |
| 15 | Structure-function relationships of brazzein variants with altered interactions with the human sweet taste receptor. <i>Protein Science</i> , <b>2016</b> , 25, 711-9  | 6.3  | 13 |
| 14 | Temperature-dependent conformational change affecting Tyr11 and sweetness loops of brazzein. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 919-25  | 4.2  | 10 |
| 13 | Optical imaging of mitochondrial redox state in rodent models with 3-iodothyronamine. <i>Experimental Biology and Medicine</i> , <b>2014</b> , 239, 151-8  | 3.7  | 9  |
| 12 | Uptake of 3-iodothyronamine hormone analogs inhibits the growth and viability of cancer cells. <i>FEBS Open Bio</i> , <b>2017</b> , 7, 587-601   | 2.7  | 7  |
| 11 | Lipolytic Effects of 3-Iodothyronamine (T1AM) and a Novel Thyronamine-Like Analog SG-2 through the AMPK Pathway. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,  | 6.3  | 7  |
| 10 | Effects of Repeated Sublethal External Exposure to Deep Water Horizon Oil on the Avian Metabolome. <i>Scientific Reports</i> , <b>2019</b> , 9, 371  | 4.9  | 7  |
| 9  | Shifts in metabolic fuel use coincide with maximal rates of ventilation and body surface rewarming in an arousing hibernator. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2019</b> , 316, R764-R775 | 3.2  | 6  |
| 8  | Multimodal Ligand Binding Studies of Human and Mouse G-Coupled Taste Receptors to Correlate Their Species-Specific Sweetness Tasting Properties. <i>Molecules</i> , <b>2018</b> , 23,  | 4.8  | 6  |
| 7  | Nitrogen recycling via gut symbionts increases in ground squirrels over the hibernation season.. <i>Science</i> , <b>2022</b> , 375, 460-463   | 33.3 | 5  |
| 6  | NMRFAM-SDF: a protein structure determination framework. <i>Journal of Biomolecular NMR</i> , <b>2015</b> , 62, 481-95   | 3    | 4  |
| 5  | Structural role of the terminal disulfide bond in the sweetness of brazzein. <i>Chemical Senses</i> , <b>2011</b> , 36, 821-30   | 4.8  | 4  |
| 4  | How Sweet It Is: Detailed Molecular and Functional Studies of Brazzein, a Sweet Protein and Its Analogs. <i>ACS Symposium Series</i> , <b>2008</b> , 560-572   | 0.4  | 4  |
| 3  | Efficient stable isotope labeling and purification of vitamin D receptor from inclusion bodies. <i>Protein Expression and Purification</i> , <b>2012</b> , 85, 25-31   | 2    | 1  |
| 2  | Functional changes in the gut microbiota across the hibernation cycle examined by stable isotope-assisted labeling. <i>FASEB Journal</i> , <b>2018</b> , 32, 534.19  | 0.9  |    |
| 1  | Meet Our Editors. <i>Current Metabolomics</i> , <b>2016</b> , 4, 83-85   | 1    |    |

