

# Sophie M C Gobeil

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2421874/publications.pdf>

Version: 2024-02-01

21  
papers

2,523  
citations

567281

15  
h-index

752698

20  
g-index

32  
all docs

32  
docs citations

32  
times ranked

4596  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice. <i>Science Translational Medicine</i> , 2022, 14, eabj7125.  | 12.4 | 93        |
| 2  | Structural diversity of the SARS-CoV-2 Omicron spike. <i>Molecular Cell</i> , 2022, 82, 2050-2068.e6.   | 9.7  | 125       |
| 3  | Cryo-EM structures of SARS-CoV-2 Omicron BA.2 spike. <i>Cell Reports</i> , 2022, 39, 111009.  | 6.4  | 74        |
| 4  | D614G Spike Mutation Increases SARS CoV-2 Susceptibility to Neutralization. <i>Cell Host and Microbe</i> , 2021, 29, 23-31.e4.  | 11.0 | 308       |
| 5  | D614G Mutation Alters SARS-CoV-2 Spike Conformation and Enhances Protease Cleavage at the S1/S2 Junction. <i>Cell Reports</i> , 2021, 34, 108630.   | 6.4  | 263       |
| 6  | Development of sulfahydantoin derivatives as $\beta$ -lactamase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 35, 127781.   | 2.2  | 1         |
| 7  | Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. <i>Nature</i> , 2021, 594, 553-559.  | 27.8 | 199       |
| 8  | Fab-dimerized glycan-reactive antibodies are a structural category of natural antibodies. <i>Cell</i> , 2021, 184, 2955-2972.e25.   | 28.9 | 57        |
| 9  | Effect of natural mutations of SARS-CoV-2 on spike structure, conformation, and antigenicity. <i>Science</i> , 2021, 373, .   | 12.6 | 318       |
| 10 | InÂvitro and inÂvivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. <i>Cell</i> , 2021, 184, 4203-4219.e32.   | 28.9 | 228       |
| 11 | Cold sensitivity of the SARS-CoV-2 spike ectodomain. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 128-131.  | 8.2  | 65        |
| 12 | Leveraging Fungal and Human Calcineurin-Inhibitor Structures, Biophysical Data, and Dynamics To Design Selective and Nonimmunosuppressive FK506 Analogs. <i>MBio</i> , 2021, 12, e0300021.  | 4.1  | 14        |
| 13 | Controlling the SARS-CoV-2 spike glycoprotein conformation. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 925-933.   | 8.2  | 376       |
| 14 | FKBP12 dimerization mutations effect FK506 binding and differentially alter calcineurin inhibition in the human pathogen <i>Aspergillus fumigatus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 48-54.              | 2.1  | 5         |
| 15 | Harnessing calcineurin-FK506-FKBP12 crystal structures from invasive fungal pathogens to develop antifungal agents. <i>Nature Communications</i> , 2019, 10, 4275.  | 12.8 | 80        |
| 16 | The Structural Dynamics of Engineered $\beta$ -Lactamases Vary Broadly on Three Timescales yet Sustain Native Function. <i>Scientific Reports</i> , 2019, 9, 6656.  | 3.3  | 19        |
| 17 | <sup>15</sup> N, <sup>13</sup> C and <sup>1</sup> H resonance assignments of FKBP12 proteins from the pathogenic fungi <i>Mucor circinelloides</i> and <i>Aspergillus fumigatus</i> . <i>Biomolecular NMR Assignments</i> , 2019, 13, 207-212.      | 0.8  | 6         |
| 18 | <sup>15</sup> N, <sup>13</sup> C and <sup>1</sup> H backbone resonance assignments of an artificially engineered TEM-1/PSE-4 class A $\beta$ -lactamase chimera and its deconvoluted mutant. <i>Biomolecular NMR Assignments</i> , 2016, 10, 93-99. | 0.8  | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Maintenance of Native-like Protein Dynamics May Not Be Required for Engineering Functional Proteins. <i>Chemistry and Biology</i> , 2014, 21, 1330-1340.             | 6.0 | 29        |
| 20 | Chimeric $\beta$ -Lactamases: Global Conservation of Parental Function and Fast Time-Scale Dynamics with Increased Slow Motions. <i>PLoS ONE</i> , 2012, 7, e52283.  | 2.5 | 16        |
| 21 | Backbone resonance assignments of an artificially engineered TEM-1/PSE-4 Class A $\beta$ -lactamase chimera. <i>Biomolecular NMR Assignments</i> , 2010, 4, 127-130. | 0.8 | 7         |