## Catherine L Grimes

## List of Publications by Year

 in descending orderSource: https:|/exaly.com/author-pdf/2675345/publications.pdf
Version: 2024-02-01


4 Chaperoning mechanism of innate immune receptor NOD2 by HSP70. FASEB Journal, 2022, 36, .

Purification and Characterization of a Stable, Membrane-Associated Peptidoglycan Responsive
5 Adenylate Cyclase LRR Domain from Human Commensal <i>Candida albicans<|i>. Biochemistry, 2022, 61,
$2.5 \quad 2$ 2856-2860.

6 A two-track model for the spatiotemporal coordination of bacterial septal cell wall synthesis revealed by single-molecule imaging of FtsW. Nature Microbiology, 2021, 6, 584-593.
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7 Staphylococcus aureus resistance to albocycline can be achieved by mutations that alter cellular
7 NAD/PH pools. Bioorganic and Medicinal Chemistry, 2021, 32, 115995.
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Bacterial Peptidoglycan Fragments Differentially Regulate Innate Immune Signaling. ACS Central
Science, 2021, 7, 688-696.
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9 Localizing Peptidoglycan Synthesis in Helicobacter pylori using Clickable Metabolic Probes. Current
Protocols, 2021, 1, e80.

It Takes Two: Understanding the Role of Proteinâ€protein Interaction in the Regulation of an Innate
10 Immune Receptor. FASEB Journal, 2021, 35, .
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> 11 Elucidation of Molecular Mechanism of NOD2 Innate Immune Receptor Stabilization by Chaperone HSP70. FASEB Journal, 2021, 35,.
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12 Protected <i>N</i>-Acetyl Muramic Acid Probes Improve Bacterial Peptidoglycan Incorporation via Metabolic Labeling. ACS Chemical Biology, 2021, 16, 1908-1916.
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13 Chemical Biology Tools for Examining the Bacterial Cell Wall. Cell Chemical Biology, 2020, 27,
1052-1062.
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Methods to Investigate Innate Immune Receptors and Their Carbohydrate-Based Ligands. ACS
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Symposium Series, 2020, , 127-147.

Revisiting peptidoglycan sensing: interactions with host immunity and beyond. Chemical
Communications, 2020, 56, 13313-13322.

Synthesis of Bacterial-Derived Peptidoglycan Cross-Linked Fragments. Journal of Organic Chemistry,
2020, 85, 16243-16253.
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Distinct cytoskeletal proteins define zones of enhanced cell wall synthesis in Helicobacter pylori.
Metabolic Incorporation of $N$ â€Acetyl Muramic Acid Probes into Bacterial Peptidoglycan. Current1.7

24 2â€Amino Muramyl Dipeptide Derivatives: Chemical probes to assay the stability and activation of NOD2.
FASEB Journal, 2019, 33, 798.12.
New use for CETSA: monitoring innate immune receptor stability via post-translational modificationby OGT. Journal of Bioenergetics and Biomembranes, 2018, 50, 231-240.$2.3 \quad 16$
26 Bacterial Derived Carbohydrates Bind Cyrl and Trigger Hyphal Growth in <i>Candida albicans</i>. ACSInfectious Diseases, 2018, 4, 53-58.
27 Structural and functional characterization of a modified legionaminic acid involved in glycosylation ..... 3.4
28 Pathogen- and Microbial- Associated Molecular Patterns (PAMPs/MAMPs) and the Innate ImmuneResponse in Crohnâ€ ${ }^{\text {TM }}$ s Disease. , 2018, , 175-187.
29 Elucidating the inhibition of peptidoglycan biosynthesis in Staphylococcus aureus by albocycline, a ..... 3.0 ..... 15 3453-3460.
30 Designer Dendrons To Dissect Innate Immune Signaling. ACS Central Science, 2018, 4, 948-949.11.30
31 Synthesis of Functionalized <i>N</i>-Acetyl Muramic Acids To Probe Bacterial Cell Wall Recycling and ..... 13.7 ..... 63
Biosynthesis. Journal of the American Chemical Society, 2018, 140, 9458-9465.Monitoring Innate Immune Receptor Stability via Postâ€すranslational Modification by OGT. FASEBJournal, 2018, 32, 791.20.
Probing the Role of Peptidoglycan Metabolism in Helicobacter pylori 's Helical Shape. FASEB Journal, 2018, 32, 673.27.
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Postsynthetic Modification of Bacterial Peptidoglycan Using Bioorthogonal
<i>N <|i>-Acetylcysteamine Analogs and Peptidoglycan <i>O<|i>-Acetyltransfer American Chemical Society, 2017, 139, 13596-13599.

38 Membrane Association Dictates Ligand Specificity for the Innate Immune Receptor NOD2. ACS Chemical Biology, 2017, 12, 2216-2224.
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Crohnâ $€^{\mathrm{TM} \text { S Disease Variants of Nod2 Are Stabilized by the Critical Contact Region of Hsp70. Biochem }}$| 2017,56, 4445-4448. |
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$40 \quad$| Molecular Recognition of Muramyl Dipeptide Occurs in the Leucine-rich Repeat Domain of Nod2. ACS |
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The effect of NOD2 on the microbiota in Crohn's disease. Current Opinion in Biotechnology, 2016, 40,
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42 Redefining the Defensive Line: Critical Components of the Innate Immune System. ACS Infectious
Diseases, 2016, 2, 746-748.
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Passing the baton: Mentoring for adoption of activeâ€learning pedagogies by researchâ€active junior
faculty. Biochemistry and Molecular Biology Education, 2015, 43, 345-357.
faculty. Biochemistry and Molecular Biology Education, 2015, 43, 345-357.
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## $44 \quad$ Peptidoglycan Modifications Tune the Stability and Function of the Innate Immune Receptor Nod2.

Journal of the American Chemical Society, 2015, 137, 6987-6990.

Identification and biological consequences of theO-GlcNAc modification of the human innate immune
receptor, Nod2. Glycobiology, 2015, 26, cwv076.
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Probing the Inflammatory Response Behind Diabetes and Obesity via the Biochemical Characterization of NOD1, an Innate Immune Receptor. FASEB Journal, 2015, 29, 559.40.
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46 (NOD1, an Innate Immune Receptor. FASEB Journal, 2015, 29, 559.40.
47 Rescuing Nod2, an innate immune receptor of bacterial cell wall fragments, in Crohn Disease. FASEB Journal, 2015, 29, 571.19.
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49 Investigating the Binding Affinity of Nod2 and Soluble Bacterial Cell Wall Dimers. FASEB Journal, 2015,
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50 Recovery and Response of Crohn's Associated Mutants to Bacterial Cell Wall Fragments. FASEB

