



Carolyn Bertozzi

Baker Family Director of Sarafan ChEM-H, Anne T. and Robert M. Bass Professor in the School of Humanities and Sciences and Professor, by courtesy, of Chemical and Systems Biology
Chemistry

CONTACT INFORMATION

• Administrative Contacts

Asia Avelino / Gabby Gomez - Administrative Coordinators

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Bio

BIO

Carolyn Bertozzi is the Baker Family Director of Sarafan ChEM-H, Anne T. and Robert M. Bass Professor in the School of Humanities and Sciences and Professor, by courtesy, of Chemical and Systems Biology and of Radiology at Stanford University, and an Investigator of the Howard Hughes Medical Institute. She completed her undergraduate degree in Chemistry from Harvard University in 1988 and her Ph.D. in Chemistry from UC Berkeley in 1993. After completing postdoctoral work at UCSF in the field of cellular immunology, she joined the UC Berkeley faculty in 1996. In June 2015, she joined the faculty at Stanford University and became the co-director and Institute Scholar at Sarafan ChEM-H.

Prof. Bertozzi's research focuses on fundamental studies of disease-associated glycobiology and the development of new therapeutic modalities that target these pathways. Her inventions include bioorthogonal chemistries for in vivo imaging and bioconjugation, work for which she received the 2022 Nobel Prize in Chemistry. As well, her lab has developed next generation antibody-drug conjugates, lysosome-targeting chimeras (LYTACs), antibody-enzyme conjugates and antibody-lectin chimeras. Several of these new therapeutic modalities have been translated into clinical candidates for treatment of cancer and autoimmune diseases.

In addition to the Nobel Prize, Prof. Bertozzi has been recognized with many honors and awards for both her research and teaching accomplishments. For example, she is an elected member of the National Academy of Sciences, the National Academy of Medicine, the National Inventors Academy and the National Academy of Engineering, the American Academy of Arts and Sciences, the German Academy of Sciences Leopoldina, and she is a Foreign Fellow of the Royal Society. In addition, Prof. Bertozzi received the Priestley Medal of the American Chemical Society, the Welch Award, the Wolf Prize in Chemistry, the Heineken Prize, Lemelson-MIT award for inventors, and a MacArthur "Genius Award".

ACADEMIC APPOINTMENTS

- Professor, Chemistry
- Professor (By courtesy), Chemical and Systems Biology
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance

- Member, Maternal & Child Health Research Institute (MCHRI)
- Director, Sarafan ChEM-H
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Baker Family Director, Stanford ChEM-H, (2020- present)
- Investigator, Howard Hughes Medical Institute, (2000- present)

HONORS AND AWARDS

- Arthur C. Cope Award, American Chemical Society (2017)
- National Academy of Sciences Award in the Chemical Sciences, National Academy of Sciences (2016)
- Ernest Orlando Lawrence Award, U.S. Department of Energy (2015)
- Heinrich Wieland Prize, Heinrich Wieland Prize (2012)
- Lemelson-MIT Prize, Massachusetts Institute of Technology (2010)
- Ernst Schering Prize, Ernst Schering Research Foundation (2007)
- Distinguished Teaching Award, UC Berkeley College of Chemistry (2001)
- Award in Pure Chemistry, American Chemical Society (2001)
- MacArthur Foundation "Genius" Award, MacArthur Foundation (1999)
- Arthur C. Cope Scholar Award, American Chemical Society (1999)
- Honorary Degree, Freie University Berlin (2014)
- Honorary Doctorate Degree, Duke University (2014)
- Hans Bloemendal Award, Radboud Univ. Nijmegen (2013)
- Honorary Doctorate Degree, Brown University (2012)
- Tetrahedron Young Investigator Award, Executive Board of Editors and the Publisher of Tetrahedron Publications (2011)
- Albert Hofmann Medal, U. Zurich (2009)
- Harrison Howe Award, Rochester Section, American Chemical Society (2009)
- W. H. Nichols Award, New York Section, American Chemical Society (2009)
- Li Ka Shing Women in Science Award, Li Ka Shing Foundation Women in Science Program (2008)
- Roy L. Whistler International Award in Carbohydrate Chemistry, International Carbohydrate Organization (2008)
- Willard Gibbs Medal, Chicago Section, American Chemical Society (2008)
- T.Z. and Irmgard Chu Distinguished Professorship in Chemistry, UC Berkeley (2005-14)
- Havinga Medal, U. Leiden (2005)
- Agnes Fay Morgan Research Award, Iota Sigma Pi (2004)
- Fellow, American Association for the Advancement of Science (2002)
- Irving Sigal Young Investigator Award, Protein Society (2002)
- Donald Sterling Noyce Prize for Excellence in Undergraduate Teaching, UC Berkeley College of Chemistry (2001)
- Department of Chemistry Teaching Award, UC Berkeley (2000)
- Merck Academic Development Program Award, Merck (2000)
- Presidential Early Career Award in Science and Engineering (PECASE), The U.S. White House (2000)

- Camille Dreyfus Teacher-Scholar Award, Camille and Henry Dreyfus Foundation (1999)
- Beckman Young Investigator Award, Arnold and Mabel Beckman Foundation (1998)
- Glaxo Wellcome Scholar, Glaxo Wellcome (1998)
- Prytanean Faculty Award, Prytanean Women's Honor Society, UC Berkeley (1998)
- Research Innovation Award, Research Corporation (1998)
- Young Investigator Award, Office of Naval Research (1998)
- Horace S. Isbell Award in Carbohydrate Chemistry, American Chemical Society (1997)
- New Investigator Award in Pharmacology, Burroughs Wellcome (1997)
- Sloan Research Fellow, Alfred P. Sloan Foundation (1997)
- Pew Scholars Award in the Biomedical Sciences, Pew Charitable Trusts (1996)
- Young Investigator Award, Exxon Education Fund (1996)
- Dreyfus New Faculty Award, Camille and Henry Dreyfus Foundation (1995)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, National Academy of Engineering (2024 - present)
- Member, National Academy of Inventors (2013 - present)
- Member, Institute of Medicine (2011 - present)
- Member, German Academy of Sciences Leopoldina (2008 - present)
- Member, National Academy of Sciences (2005 - present)
- Member, American Academy of Arts and Sciences (2003 - present)
- Chair, Scientific Advisory Board, Redwood Bioscience
- Board Member, Board of Scientific Counslors, Broad Institutue
- Board Member, Catalent Biologics Board
- Board Member, Research Advisory Baord, Glaxo Smithkline

PROFESSIONAL EDUCATION

- Postdoc, UC San Francisco , Immunology
- PhD, UC Berkeley , Chemistry (1993)
- AB, Harvard University , Chemistry (1988)

LINKS

- The Bertozzi Group: <http://bertozzigroup.stanford.edu>
- HHMI Investigator Biography: <http://www.hhmi.org/scientists/carolyn-r-bertozzi>
- Q&A with Dr. Bertozzi: <https://chemh.stanford.edu/news/stanford-chemist-explains-excitement-chemistry-students-public>

Teaching

COURSES

2025-26

- Therapeutic Science at the Chemistry - Biology Interface: CHEM 283 (Spr)

2024-25

- Therapeutic Science at the Chemistry - Biology Interface: CHEM 283 (Spr)

2023-24

- Therapeutic Science at the Chemistry - Biology Interface: CHEM 283 (Spr)

2022-23

- The Chemical Principles of Life I: CHEM 141 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Josh Arens, Dayanne Carvalho, Freja Ekman, Sipei Fu, Aswini Krishnan, Chau Le, Felix Majewski, Salvador Moncayo von Hase, Magdalena Murray, Mikaela Ribi, Anru Tian

Postdoctoral Faculty Sponsor

Steven Bodine, Kevin Gonzalez, Lindsay Guzman, Gayathri Muthukumar, David Roberts, Mirat Sojitra, Peter Szijj, Jonathan Yang

Doctoral Dissertation Advisor (AC)

Cindy Sandoval Espinoza, Afi Tagnedji, Steven Wang, Chloe Wen, Oliver Wu, Rui (Ray) Yip

Doctoral Dissertation Co-Advisor (AC)

Kang Yong Loh, Siavash Moghadami, Andrew Reiter

Publications

PUBLICATIONS

- **Membrane curvature regulates the spatial distribution of bulky glycoproteins** *NATURE COMMUNICATIONS*
Lu, C., Pedram, K., Tsai, C., Jones IV, T., Li, X., Nakamoto, M. L., Bertozzi, C. R., Cui, B.
2022; 13
- **Protocol for cell type-specific labeling, enrichment, and proteomic profiling of plasma proteins in mice.** *STAR protocols*
Wei, W., Riley, N. M., Lyu, X., Bertozzi, C. R., Long, J. Z.
1800; 2 (4): 101014
- **Multi-omics analysis of spatially distinct stromal cells reveals tumor-induced O-glycosylation of the CDK4-pRB axis in fibroblasts at the invasive tumor edge.** *Cancer research*
Bouchard, G., Garcia-Marques, F. J., Karacosta, L. G., Zhang, W., Bermudez, A., Riley, N. M., Varma, S., Mehl, L. C., Benson, J. A., Shrager, J. B., Bertozzi, C. R., Pitteri, S. J., Giaccia, et al
2021
- **Toward Point-of-Care Detection of Mycobacterium tuberculosis: A Brighter Solvatochromic Probe Detects Mycobacteria within Minutes.** *JACS Au*
Kamariza, M., Keyser, S. G., Utz, A., Knapp, B. D., Ealand, C., Ahn, G., Cambier, C. J., Chen, T., Kana, B., Huang, K. C., Bertozzi, C. R.
2021; 1 (9): 1368-1379
- **Small RNAs are modified with N-glycans and displayed on the surface of living cells.** *Cell*
Flynn, R. A., Pedram, K., Malaker, S. A., Batista, P. J., Smith, B. A., Johnson, A. G., George, B. M., Majzoub, K., Villalta, P. W., Carette, J. E., Bertozzi, C. R.
2021
- **Synthetic Siglec-9 Agonists Inhibit Neutrophil Activation Associated with COVID-19** *ACS CENTRAL SCIENCE*
Delaveris, C. S., Wilk, A. J., Riley, N. M., Stark, J. C., Yang, S. S., Rogers, A. J., Ranganath, T., Nadeau, K. C., Blish, C. A., Bertozzi, C. R., Stanford COVID-19 Biobank
2021; 7 (4): 650-657
- **Synthetic Siglec-9 Agonists Inhibit Neutrophil Activation Associated with COVID-19.** *ACS central science*
Delaveris, C. S., Wilk, A. J., Riley, N. M., Stark, J. C., Yang, S. S., Rogers, A. J., Ranganath, T., Nadeau, K. C., Blish, C. A., Bertozzi, C. R.
2021; 7 (4): 650-657

- **Optimization of Metabolic Oligosaccharide Engineering with Ac4GalNAIk and Ac4GlcNAIk by an Engineered Pyrophosphorylase.** *ACS chemical biology*
Cioce, A., Bineva-Todd, G., Agbay, A. J., Choi, J., Wood, T. M., Debets, M. F., Browne, W. M., Douglas, H. L., Roustan, C., Tastan, O. Y., Kjaer, S., Bush, J. T., Bertozzi, et al
2021
- **LYTACs that engage the asialoglycoprotein receptor for targeted protein degradation.** *Nature chemical biology*
Ahn, G., Banik, S. M., Miller, C. L., Riley, N. M., Cochran, J. R., Bertozzi, C. R.
2021
- **Degradation from the outside in: targeting extracellular and membrane proteins for degradation through the endolysosomal pathway.** *Cell chemical biology*
Ahn, G., Banik, S. M., Bertozzi, C. R.
2021
- **Discovery and functional interrogation of SARS-CoV-2 RNA-host protein interactions.** *Cell*
Flynn, R. A., Belk, J. A., Qi, Y., Yasumoto, Y., Wei, J., Alfajaro, M. M., Shi, Q., Mumbach, M. R., Limaye, A., DeWeirdt, P. C., Schmitz, C. O., Parker, K. R., Woo, et al
2021
- **Author Correction: The clinical impact of glycobiology: targeting selectins, Siglecs and mammalian glycans.** *Nature reviews. Drug discovery*
Smith, B. A., Bertozzi, C. R.
2021
- **Genome-wide CRISPR screens reveal a specific ligand for the glycan-binding immune checkpoint receptor Siglec-7.** *Proceedings of the National Academy of Sciences of the United States of America*
Wisnovsky, S., Mockl, L., Malaker, S. A., Pedram, K., Hess, G. T., Riley, N. M., Gray, M. A., Smith, B. A., Bassik, M. C., Moerner, W. E., Bertozzi, C. R.
2021; 118 (5)
- **Capture and visualization of live Mycobacterium tuberculosis bacilli from tuberculosis patient bioaerosols.** *PLoS pathogens*
Dinkele, R., Gessner, S., McKerry, A., Leonard, B., Seldon, R., Koch, A. S., Morrow, C., Gqada, M., Kamariza, M., Bertozzi, C. R., Smith, B., McLoud, C., Kamholz, et al
2021; 17 (2): e1009262
- **Modulation of immune cell reactivity with cis-binding Siglec agonists.** *Proceedings of the National Academy of Sciences of the United States of America*
Delaveris, C. S., Chiu, S. H., Riley, N. M., Bertozzi, C. R.
2021; 118 (3)
- **The clinical impact of glycobiology: targeting selectins, Siglecs and mammalian glycans.** *Nature reviews. Drug discovery*
Smith, B. A., Bertozzi, C. R.
2021
- **Deacetylated sialic acids modulates immune mediated cytotoxicity via the sialic acid-Siglec pathway.** *Glycobiology*
Grabenstein, S., Barnard, K. N., Anim, M., Armoo, A., Weichert, W. S., Bertozzi, C. R., Parrish, C. R., Willand-Chamley, R.
2021
- **Systemic delivery of a targeted synthetic immunostimulant transforms the immune landscape for effective tumor regression.** *Cell chemical biology*
Miller, C. L., Sagiv-Barfi, I., Neuhöfer, P., Czerwinski, D. K., Artandi, S. E., Bertozzi, C. R., Levy, R., Cochran, J. R.
2021
- **On-tissue spatially resolved glycoproteomics guided by N-glycan imaging reveal global dysregulation of canine glioma glycoproteomic landscape.** *Cell chemical biology*
Malaker, S. A., Quanico, J., Raffo-Romero, A., Kobeissy, F., Aboulouard, S., Tierny, D., Bertozzi, C. R., Fournier, I., Salzet, M.
2021
- **The CD22-IGF2R interaction is a therapeutic target for microglial lysosome dysfunction in Niemann-Pick type C.** *Science translational medicine*

Pluvinage, J. V., Sun, J., Claes, C., Flynn, R. A., Haney, M. S., Iram, T., Meng, X., Lindemann, R., Riley, N. M., Danhash, E., Chadarevian, J. P., Tapp, E., Gate, et al
2021; 13 (622): eabg2919

- **An enzymatic toolkit for selective proteolysis, detection, and visualization of mucin-domain glycoproteins**
Shon, D., Malaker, S. A., Pedram, K., Yang, E., Krishnan, V., Dorigo, O., Bertozzi, C. R.
OXFORD UNIV PRESS INC.2020: 1111–12
- **On-tissue microscale glycoproteomics and N-glycan imaging reveal global dysregulation of canine glioma glycoproteomic landscape**
Malaker, S. A., Quanico, J., Romero, A. R., Pascal, Q., Kobeissy, F., Abou-louard, S., Tierny, D., Bertozzi, C. R., Fournier, I., Salzet, M.
OXFORD UNIV PRESS INC.2020: 1077
- **O-Pair Search with MetaMorpheus for O-glycopeptide Characterization**
Riley, N. M., Lu, L., Shortreed, M. R., Smith, L. M., Bertozzi, C. R.
OXFORD UNIV PRESS INC.2020: 1100–1101
- **Dissecting O-GalNAc glycosylation by glycosyltransferase engineering**
Tastan, O. Y., Debets, M. F., Malaker, S. A., Wisnovsky, S. P., Angelis, N., Wagner, L. J. S., Choi, J., Browne, W. M., Bineva-Todd, G., Cioce, A., Agbay, A. J., Li, Z., Briggs, et al
OXFORD UNIV PRESS INC.2020: 1028
- **Spreading of a mycobacterial cell surface lipid into host epithelial membranes promotes infectivity.** *eLife*
Cambier, C. J., Banik, S. M., Buonomo, J. A., Bertozzi, C. R.
2020; 9
- **Cell type-selective secretome profiling in vivo.** *Nature chemical biology*
Wei, W., Riley, N. M., Yang, A. C., Kim, J. T., Terrell, S. M., Li, V. L., Garcia-Contreras, M., Bertozzi, C. R., Long, J. Z.
2020
- **O-Pair Search with MetaMorpheus for O-glycopeptide characterization.** *Nature methods*
Lu, L., Riley, N. M., Shortreed, M. R., Bertozzi, C. R., Smith, L. M.
2020
- **Targeted glycan degradation potentiates the anticancer immune response in vivo.** *Nature chemical biology*
Gray, M. A., Stanczak, M. A., Mantuano, N. R., Xiao, H., Pijnenborg, J. F., Malaker, S. A., Miller, C. L., Weidenbacher, P. A., Tanzo, J. T., Ahn, G., Woods, E. C., Laubli, H., Bertozzi, et al
2020
- **Lysosome-targeting chimaeras for degradation of extracellular proteins.** *Nature*
Banik, S. M., Pedram, K., Wisnovsky, S., Ahn, G., Riley, N. M., Bertozzi, C. R.
2020
- **Immunoglobulin E sialylation regulates allergic responses.** *Immunology and cell biology*
Xie, M. M., Bertozzi, C. R., Wang, T. T.
2020
- **Physiological blood-brain transport is impaired with age by a shift in transcytosis.** *Nature*
Yang, A. C., Stevens, M. Y., Chen, M. B., Lee, D. P., Stahli, D., Gate, D., Contrepolis, K., Chen, W., Iram, T., Zhang, L., Vest, R. T., Chaney, A., Lehallier, et al
2020
- **Membrane-tethered mucin-like polypeptides sterically inhibit binding and slow fusion kinetics of influenza A virus.** *Proceedings of the National Academy of Sciences of the United States of America*
Delaveris, C. S., Webster, E. R., Banik, S. M., Boxer, S. G., Bertozzi, C. R.
2020
- **Introducing "In Focus", Community Resources Accelerating Science** *ACS CENTRAL SCIENCE*
Bertozzi, C. R., Garakyaraghi, S.
2020; 6 (4): 446–47
- **A genome-wide CRISPR screen identifies novel ligands for the Siglec family of glyco-immune checkpoint receptors.**

Wisnovsky, S., Bertozzi, C.

AMER ASSOC CANCER RESEARCH.2020: 80–81

- **DNA origami protection and molecular interfacing through engineered sequence-defined peptoids.** *Proceedings of the National Academy of Sciences of the United States of America*
Wang, S., Gray, M. A., Xuan, S., Lin, Y., Byrnes, J., Nguyen, A. I., Todorova, N., Stevens, M. M., Bertozzi, C. R., Zuckermann, R. N., Gang, O.
2020
- **DNA-PKCs has KU-dependent function in rRNA processing and haematopoiesis.** *Nature*
Shao, Z., Flynn, R. A., Crowe, J. L., Zhu, Y., Liang, J., Jiang, W., Aryan, F., Aoude, P., Bertozzi, C. R., Estes, V. M., Lee, B. J., Bhagat, G., Zha, et al
2020
- **Deconvolution of Influenza a Viral Binding and Fusion with a Chemically-Defined Glycocalyx**
Webster, E. R., Delaveris, C. S., Bertozzi, C. R., Boxer, S. G.
CELL PRESS.2020: 553A
- **Large Glycocalyx Proteins are Excluded from the Interface between Cell Membrane and Vertical Nanostructures**
Lu, C., Jones, T., Pedram, K., Bertozzi, C., Paszek, M., Cui, B.
CELL PRESS.2020: 396A
- **Movers & shakers** *CHEMISTRY & INDUSTRY*
Bertozzi, C., Hildemann, S., Young, S.
2020; 84 (2): 14
- **Author Correction: Lipid-droplet-accumulating microglia represent a dysfunctional and proinflammatory state in the aging brain.** *Nature neuroscience*
Marschallinger, J., Iram, T., Zardeneta, M., Lee, S. E., Lehallier, B., Haney, M. S., Pluvinage, J. V., Mathur, V., Hahn, O., Morgens, D. W., Kim, J., Tevini, J., Felder, et al
2020
- **Lipid-droplet-accumulating microglia represent a dysfunctional and proinflammatory state in the aging brain.** *Nature neuroscience*
Marschallinger, J., Iram, T., Zardeneta, M., Lee, S. E., Lehallier, B., Haney, M. S., Pluvinage, J. V., Mathur, V., Hahn, O., Morgens, D. W., Kim, J., Tevini, J., Felder, et al
2020
- **Author Correction: Lipid-droplet-accumulating microglia represent a dysfunctional and proinflammatory state in the aging brain.** *Nature neuroscience*
Marschallinger, J. n., Iram, T. n., Zardeneta, M. n., Lee, S. E., Lehallier, B. n., Haney, M. S., Pluvinage, J. V., Mathur, V. n., Hahn, O. n., Morgens, D. W., Kim, J. n., Tevini, J. n., Felder, et al
2020
- **An enzymatic toolkit for selective proteolysis, detection, and visualization of mucin-domain glycoproteins.** *Proceedings of the National Academy of Sciences of the United States of America*
Shon, D. J., Malaker, S. A., Pedram, K. n., Yang, E. n., Krishnan, V. n., Dorigo, O. n., Bertozzi, C. R.
2020
- **A Pragmatic Guide to Enrichment Strategies for Mass Spectrometry-Based Glycoproteomics.** *Molecular & cellular proteomics : MCP*
Riley, N. M., Bertozzi, C. R., Pitteri, S. J.
2020; 20: 100029
- **A Pragmatic Guide to Enrichment Strategies for Mass Spectrometry-based Glycoproteomics.** *Molecular & cellular proteomics : MCP*
Riley, N. M., Bertozzi, C. R., Pitteri, S. J.
2020
- **Sensitive detection of multiple islet autoantibodies in type 1 diabetes using small sample volumes by agglutination-PCR.** *PLoS one*
Cortez, F. d., Gebhart, D., Robinson, P. V., Seftel, D., Pourmandi, N., Owyong, J., Bertozzi, C. R., Wilson, D. M., Maahs, D. M., Buckingham, B. A., Mills, J. R., Roforth, M. M., Pittock, et al
2020; 15 (11): e0242049
- **An Acquired and Endogenous Glycocalyx Forms a Bidirectional "Don't Eat" and "Don't Eat Me" Barrier to Phagocytosis.** *Current biology : CB*

- Imbert, P. R., Saric, A. n., Pedram, K. n., Bertozzi, C. R., Grinstein, S. n., Freeman, S. A.
2020
- **Electron-Based Dissociation Is Needed for O-Glycopeptides Derived from OpeRATOR Proteolysis.** *Analytical chemistry*
Riley, N. M., Malaker, S. A., Bertozzi, C. R.
2020
 - **Sensitivity optimisation of tuberculosis bioaerosol sampling.** *PLoS one*
Patterson, B. n., Dinkele, R. n., Gessner, S. n., Morrow, C. n., Kamariza, M. n., Bertozzi, C. R., Kamholz, A. n., Bryden, W. n., Call, C. n., Warner, D. F., Wood, R. n.
2020; 15 (9): e0238193
 - **Metabolic precision labeling enables selective probing of O-linked N-acetylgalactosamine glycosylation.** *Proceedings of the National Academy of Sciences of the United States of America*
Debets, M. F., Tastan, O. Y., Wisnovsky, S. P., Malaker, S. A., Angelis, N. n., Moeckl, L. K., Choi, J. n., Flynn, H. n., Wagner, L. J., Bineva-Todd, G. n., Antonopoulos, A. n., Cioce, A. n., Browne, et al
2020
 - **A Pragmatic Guide to Enrichment Strategies for Mass Spectrometry-based Glycoproteomics.** *Molecular & cellular proteomics : MCP*
Riley, N. M., Bertozzi, C. R., Pitteri, S. J.
2020
 - **Sensitive detection of multiple islet autoantibodies in type 1 diabetes using small sample volumes by agglutination-PCR.** *PLoS one*
Cortez, F. d., Gebhart, D., Robinson, P. V., Seftel, D., Pourmandi, N., Owyong, J., Bertozzi, C. R., Wilson, D. M., Maahs, D. M., Buckingham, B. A., Mills, J. R., Roforth, M. M., Pittock, et al
2020; 15 (11): e0242049
 - **An Acquired and Endogenous Glycocalyx Forms a Bidirectional "Don't Eat" and "Don't Eat Me" Barrier to Phagocytosis.** *Current biology : CB*
Imbert, P. R., Saric, A. n., Pedram, K. n., Bertozzi, C. R., Grinstein, S. n., Freeman, S. A.
2020
 - **Electron-Based Dissociation Is Needed for O-Glycopeptides Derived from OpeRATOR Proteolysis.** *Analytical chemistry*
Riley, N. M., Malaker, S. A., Bertozzi, C. R.
2020
 - **Sensitivity optimisation of tuberculosis bioaerosol sampling.** *PLoS one*
Patterson, B. n., Dinkele, R. n., Gessner, S. n., Morrow, C. n., Kamariza, M. n., Bertozzi, C. R., Kamholz, A. n., Bryden, W. n., Call, C. n., Warner, D. F., Wood, R. n.
2020; 15 (9): e0238193
 - **Metabolic precision labeling enables selective probing of O-linked N-acetylgalactosamine glycosylation.** *Proceedings of the National Academy of Sciences of the United States of America*
Debets, M. F., Tastan, O. Y., Wisnovsky, S. P., Malaker, S. A., Angelis, N. n., Moeckl, L. K., Choi, J. n., Flynn, H. n., Wagner, L. J., Bineva-Todd, G. n., Antonopoulos, A. n., Cioce, A. n., Browne, et al
2020
 - **Updates to the Symbol Nomenclature for Glycans guidelines** *GLYCOBIOLOGY*
Neelamegham, S., Aoki-Kinoshita, K., Bolton, E., Frank, M., Lisacek, F., Luetkeke, T., O'Boyle, N., Packer, N. H., Stanley, P., Toukach, P., Varki, A., Woods, R. J., Darvill, et al
2019; 29 (9): 620–24
 - **Engineering Orthogonal Polypeptide GalNAc-Transferase and UDP-Sugar Pairs** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Choi, J., Wagner, L. J. S., Timmermans, S. E., Malaker, S. A., Schumann, B., Gray, M. A., Debets, M. F., Takashima, M., Gehring, J., Bertozzi, C. R.
2019; 141 (34): 13442–53
 - **CRISPR-Cas9 screens identify regulators of antibody-drug conjugate toxicity.** *Nature chemical biology*
Tsui, C. K., Barfield, R. M., Fischer, C. R., Morgens, D. W., Li, A., Smith, B. A., Gray, M. A., Bertozzi, C. R., Rabuka, D., Bassik, M. C.
2019
 - **Quantitative super-resolution microscopy of the mammalian glycocalyx**

Mockl, L., Pedram, K., Roy, A., Krishnan, V., Gustavsson, A., Dorigo, O., Bertozzi, C., Moerner, W.
AMER CHEMICAL SOC.2019

- **Enzyme toolkit for selective enrichment and analysis of mucin-domain glycoproteins**
Malaker, S. A., Shon, J., Pedram, K., Riley, N. M., Bertozzi, C. R.
AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC.2019: S42
- **An RNA-centric dissection of host complexes controlling flavivirus infection.** *Nature microbiology*
Ooi, Y. S., Majzoub, K., Flynn, R. A., Mata, M. A., Diep, J., Li, J. K., van Buuren, N., Rumachik, N., Johnson, A. G., Puschnik, A. S., Marceau, C. D., Mlera, L., Grabowski, et al
2019
- **A novel therapeutic modality of inhibiting the glyco-immune checkpoint axis to treat cancer**
Cao, L., Petrone, A., Gatlin, W., Che, J., Das, A., LeBlanc, R., Siddiquee, Z., Nerle, S., Stanczak, M., Mayo, M., Xu, L., Normington, K., Brown, et al
AMER ASSOC CANCER RESEARCH.2019
- **Physical Principles of Membrane Shape Regulation by the Glycocalyx** *CELL*
Shurer, C. R., Kuo, J., Roberts, L., Gandhi, J. G., Colville, M. J., Enoki, T. A., Pan, H., Su, J., Noble, J. M., Hollander, M. J., O'Donnell, J. P., Yin, R., Pedram, et al
2019; 177 (7): 1757-+
- **A Sugar Cloak of Invisibility** *BIOCHEMISTRY*
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PRESENTATIONS

- Reddit Science AMA Series (June 19, 2015)
- People Behind the Science (2015)
- iBiology Lecture Series Part 1: Chemical Glycobiology (3/1/2010)
- iBiology Lecture Series Part 2: Imaging the Glycome
- TEDx Stanford Lecture: The sugar coating on your cells is trying to tell you something - TEDx Stanford (June 22, 2016)