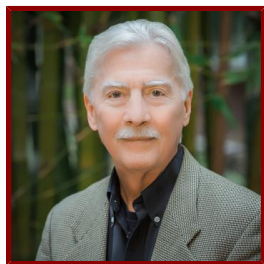


Stanford



Paul Wender

Francis W. Bergstrom Professor and Professor, by courtesy, of Chemical and Systems Biology
Chemistry

CONTACT INFORMATION

• Administrative Contact

Linda Umbertus

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Bio

BIO

The Wender Group addresses unsolved problems in chemistry, synthesis, biology, medicine, and materials science using new computational tools, new reactions, reagents, strategies and design. Leveraging affiliations with the Medical School, Imaging Center, Chemical Biology Program and Molecular Therapeutics Program as well as numerous internal and external collaborations, the lab emphasizes the use of chemistry, design and synthesis to address problems of significance in biology and medicine, including eradication of HIV/AIDS, overcoming resistant cancer, cancer immunotherapy and treating cognitive disorders such as Alzheimer's disease.

Paul Wender received his B.S. degree from Wilkes University and his Ph.D. in chemistry from Yale University. He was an NIH Postdoctoral Fellow at Columbia University. He served on the faculty at Harvard University and joined the faculty at Stanford University where he is the Francis W. Bergstrom Professor of Chemistry and holds a courtesy appointment in the Department of Chemical and Systems Biology. Professor Wender's research has been recognized with numerous awards including recently the Tetrahedron Prize, Prelog Medal (Swiss Federal Institute of Technology), Arthur Cope Award (American Chemical Society), Cohen Award for Excellence in Medicinal Chemistry (Israel Chemical Society), and Research Award of the German Bioactives and Biotechnology Leibniz Alliance. He has also been recognized with several teaching awards including the Hoagland Prize, Bing Teaching Award, and the Dean's Teaching Award. He is an elected member of the US National Academy of Sciences, a foreign member of the Royal Spanish Academy of Sciences, and a fellow of the American Association for the Advancement of Science and the American Academy of Arts and Sciences.

ACADEMIC APPOINTMENTS

- Professor, Chemistry
- Professor (By courtesy), Chemical and Systems Biology
- Member, Bio-X
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Research Award of the German Bioactives and Biotechnology, Leibniz Alliance (2016)
- Arthur C. Cope Award, American Chemical Society (2015)

- Cohen Award for Excellence in Medicinal Chemistry, Israel Chemical Society (2015)
- Office of Technology Licensing Innovator Award, Stanford University (2015)
- Prelog Medal, ETH, Switzerland (2013)
- Tetrahedron Prize for Creativity in Organic Chemistry, Tetrahedron Publications (2012)
- Wilbur Lucius Cross Medal (Yale Graduate Alumni), Yale University (2010)
- The Hamilton Award, University of Nebraska (2008)
- MERIT Award, National Institutes of Health (2006)
- H.C. Brown Award for Creative Research in Synthetic Methods, American Chemical Society (2003)
- MERIT Award, National Institutes of Health (2003)
- Member, National Academy of Science (2003)
- Fellow, American Association for the Advancement of Science (2001)
- Dean's Award for Distinguished Teaching, Stanford University (2000)
- Award for Creative work in Synthetic Organic Chemistry, American Chemical Society (1998)
- Pfizer Research Award for Synthetic Organic Chemistry, American Chemical Society (1995)
- Bing Teaching Award, Stanford University (1992)
- Fellow, American Academy of Arts and Sciences (1992)
- ASSU Teaching Award, Stanford University ASSU (1991)
- Alexander von Humboldt Stiftung Award, Alexander von Humboldt Foundation (1991)
- Hoagland Prize for Undergraduate Teaching, Stanford University (1991)
- Arthur C. Cope Scholar Award, American Chemical Society (1990)
- Ernest Guenther Award, American Chemical Society (1988)
- Stuart Award for Excellence in Chemistry, ICI Pharmaceutical Group (1988)
- Dreyfus Teacher Scholar Award, Camille and Henry Dreyfus Foundation (1980)

PROFESSIONAL EDUCATION

- Ph.D., Yale University , Chemistry (1973)
- B.S., Wilkes College , Chemistry (1969)

PATENTS

- Paul Wender, Jung-Min Kee, Jeffrey Warrington. "United States Patent 8,067,632 A Process to Produce Prostratin and Structural or Functional Analogs Thereof", Leland Stanford Junior University, Nov 29, 2011
- Christina Cooley, Erika Geihe Stanzl, Robert Waymouth, Paul Wender. "United States Patent 61,531,495 Amphipathic Co-Oligomers for the Delivery of SIRNA", Leland Stanford Junior University, Sep 11, 2011
- Paul Wender, Lars Heumann, Rainer Kramer, Carolyn Gauntlett, Elizabeth Beans. "United States Patent 12/839,808 Prostratin Analogs, Bryostatin Analogs, Prodrugs, Synthetic Methods, and Methods of Use", Leland Stanford Junior University, Jul 20, 2010

LINKS

- The Wender Group: <https://web.stanford.edu/group/pawender/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Molecular imaging, therapeutics, drug delivery, drug mode of action, synthesis

Teaching

COURSES

2022-23

- Advanced Organic Chemistry I: CHEM 221 (Aut)
- Structure and Reactivity of Organic Molecules: CHEM 33 (Win)

2021-22

- Advanced Organic Chemistry I: CHEM 221 (Aut)
- Structure and Reactivity of Organic Molecules: CHEM 33 (Win)

2020-21

- Structure and Reactivity of Organic Molecules: CHEM 33 (Win)

2019-20

- Advanced Organic Chemistry III: CHEM 225 (Spr)
- SCIENCE COMMUNICATION AND INNOVATION: CHEM 28N (Aut)
- Structure and Reactivity of Organic Molecules: CHEM 33 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Lawrence Berg, Madeline Chosy, Alyssa Clay, Brandon Derstine, KE ZHENG

Doctoral Dissertation Advisor (AC)

David Fanelli, Zach Gentry, Rami Hourani, Zhijian Li, Owen McAteer, Edward Njoo, Harrison Rahn, Jiuzhi Sun

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Chemical and Systems Biology (Phd Program)

Publications

PUBLICATIONS

- **Circular RNA vaccine induces potent T cell responses.** *Proceedings of the National Academy of Sciences of the United States of America*
Amaya, L., Grigoryan, L., Li, Z., Lee, A., Wender, P. A., Pulendran, B., Chang, H. Y.
2023; 120 (20): e2302191120
- **Lysine-Derived Charge-Altering Releasable Transporters: Targeted Delivery of mRNA and siRNA to the Lungs.** *Bioconjugate chemistry*
Blake, T. R., Haabeth, O. A., Sallets, A., McClellan, R. L., Del Castillo, T. J., Vilches-Moure, J. G., Ho, W. C., Wender, P. A., Levy, R., Waymouth, R. M.
2023
- **Secreted factors induced by PKC modulators do not indirectly cause HIV latency reversal.** *Virology*
Moran, J. A., Ranjan, A., Hourani, R., Kim, J. T., Wender, P. A., Zack, J. A., Marsden, M. D.
2023; 581: 8-14
- **Comprehensive analysis of HIV reservoirs in elite controllers.** *The Journal of clinical investigation*
Kennedy, B. D., Blazkova, J., Justement, J. S., Shi, V., Rai, M. A., Manning, M. R., Praiss, L., Gittens, K., Wender, P. A., Patro, S., Wu, X., Moir, S., Chun, et al
2023; 133 (3)
- **Trimethylene Methane Dianion Equivalent for the Asymmetric Consecutive Allylation of Aldehydes: Applications to Prins-Driven Macrocyclizations for the Synthesis of Bryostatin 1 and Analogues.** *The Journal of organic chemistry*
Wender, P. A., Luu-Nguyen, Q. H., Sloane, J. L., Ranjan, A.

2022

- **Practical synthesis of the therapeutic leads tigilanol tiglate and its analogues.** *Nature chemistry*
Wender, P. A., Gentry, Z. O., Fanelli, D. J., Luu-Nguyen, Q. H., McAteer, O. D., Njoo, E.
2022
- **Author Correction: Engineering circular RNA for enhanced protein production.** *Nature biotechnology*
Chen, R., Wang, S. K., Belk, J. A., Amaya, L., Li, Z., Cardenas, A., Abe, B. T., Chen, C., Wender, P. A., Chang, H. Y.
2022
- **Engineering circular RNA for enhanced protein production.** *Nature biotechnology*
Chen, R., Wang, S. K., Belk, J. A., Amaya, L., Li, Z., Cardenas, A., Abe, B. T., Chen, C., Wender, P. A., Chang, H. Y.
2022
- **Fingolimod-Conjugated Charge-Altering Releasable Transporters Efficiently and Specifically Deliver mRNA to Lymphocytes In Vivo and In Vitro.** *Biomacromolecules*
Testa, S., Haabeth, O. A., Blake, T. R., Del Castillo, T. J., Czerwinski, D. K., Rajapaksa, R., Wender, P. A., Waymouth, R. M., Levy, R.
2022
- **Latency reversal plus natural killer cells diminish HIV reservoir in vivo.** *Nature communications*
Kim, J. T., Zhang, T., Carmona, C., Lee, B., Seet, C. S., Kostelny, M., Shah, N., Chen, H., Farrell, K., Soliman, M. S., Dimapasoc, M., Sinani, M., Blanco, et al
1800; 13 (1): 121
- **An mRNA SARS-CoV-2 Vaccine Employing Charge-Altering Releasable Transporters with a TLR-9 Agonist Induces Neutralizing Antibodies and T Cell Memory.** *ACS central science*
Haabeth, O. A., Lohmeyer, J. J., Sallets, A., Blake, T. R., Sagiv-Barfi, I., Czerwinski, D. K., McCarthy, B., Powell, A. E., Wender, P. A., Waymouth, R. M., Levy, R.
2021; 7 (7): 1191-1204
- **Designed PKC-targeting bryostatin analogs modulate innate immunity and neuroinflammation.** *Cell chemical biology*
Abramson, E. n., Hardman, C. n., Shimizu, A. J., Hwang, S. n., Hester, L. D., Snyder, S. H., Wender, P. A., Kim, P. M., Kornberg, M. D.
2021
- **In vivo targeting of E. coli with vancomycin-arginine.** *Antimicrobial agents and chemotherapy*
Neville, L. F., Shalit, I. n., Warn, P. A., Scheetz, M. H., Sun, J. n., Chosy, M. B., Wender, P. A., Cegelski, L. n., Rendell, J. T.
2021
- **Tracking HIV Rebound following Latency Reversal Using Barcoded HIV.** *Cell reports. Medicine*
Marsden, M. D., Zhang, T., Du, Y., Dimapasoc, M., Soliman, M. S., Wu, X., Kim, J. T., Shimizu, A., Schrier, A., Wender, P. A., Sun, R., Zack, J. A.
2020; 1 (9): 100162
- **Function-Oriented Synthesis: Design, Synthesis, and Evaluation of Highly Simplified Bryostatin Analogues.** *The Journal of organic chemistry*
Wender, P. A., Sloane, J. L., Luu-Nguyen, Q. H., Ogawa, Y., Shimizu, A. J., Ryckbosch, S. M., Tyler, J. H., Hardman, C.
2020
- **In Situ Detection of Endogenous HIV Activation by Dynamic Nuclear Polarization NMR and Flow Cytometry.** *International journal of molecular sciences*
Overall, S. A., Price, L. E., Albert, B. J., Gao, C., Alaniva, N., Judge, P. T., Sesti, E. L., Wender, P. A., Kyei, G. B., Barnes, A. B.
2020; 21 (13)
- **Prodrugs of PKC modulators show enhanced HIV latency reversal and an expanded therapeutic window.** *Proceedings of the National Academy of Sciences of the United States of America*
Sloane, J. L., Benner, N. L., Keenan, K. N., Zang, X., Soliman, M. S., Wu, X., Dimapasoc, M., Chun, T., Marsden, M. D., Zack, J. A., Wender, P. A.
2020
- **Synthesis and evaluation of designed PKC modulators for enhanced cancer immunotherapy.** *Nature communications*
Hardman, C., Ho, S., Shimizu, A., Luu-Nguyen, Q., Sloane, J. L., Soliman, M. S., Marsden, M. D., Zack, J. A., Wender, P. A.
2020; 11 (1): 1879
- **Synthesis and mechanistic investigations of pH-responsive cationic poly(aminoester)s** *CHEMICAL SCIENCE*
Blake, T. R., Ho, W. C., Turlington, C. R., Zang, X., Huttner, M. A., Wender, P. A., Waymouth, R. M.
2020; 11 (11): 2951-66

- **Clinical Correlates of Human Immunodeficiency Virus-1 (HIV-1) DNA and Inducible HIV-1 RNA Reservoirs in Peripheral Blood in Children With Perinatally Acquired HIV-1 Infection With Sustained Virologic Suppression for at Least 5 Years** *CLINICAL INFECTIOUS DISEASES*
Bitnun, A., Ransy, D. G., Brophy, J., Kakkar, F., Hawkes, M., Samson, L., Annabi, B., Pagliuzza, A., Morand, J., Sauve, L., Chomont, N., Lavoie, S., Kim, et al
2020; 70 (5): 859–66
- **Synthesis and mechanistic investigations of pH-responsive cationic poly(aminoester)s.** *Chemical science*
Blake, T. R., Ho, W. C., Turlington, C. R., Zang, X., Huttner, M. A., Wender, P. A., Waymouth, R. M.
2020; 11 (11): 2951-2966
- **Reversible RNA acylation for control of CRISPR-Cas9 gene editing** *CHEMICAL SCIENCE*
Habibian, M., McKinlay, C., Blake, T. R., Kietrys, A. M., Waymouth, R. M., Wender, P. A., Kool, E. T.
2020; 11 (4): 1011–16
- **Charge-altering releasable transporters enable phenotypic manipulation of natural killer cells for cancer immunotherapy.** *Blood advances*
Wilk, A. J., Weidenbacher, N. L., Vergara, R. n., Haabeth, O. A., Levy, R. n., Waymouth, R. M., Wender, P. A., Blish, C. A.
2020; 4 (17): 4244–55
- **Bryostatin 1 Promotes Synaptogenesis and Reduces Dendritic Spine Density in Cortical Cultures through a PKC-Dependent Mechanism.** *ACS chemical neuroscience*
Ly, C. n., Shimizu, A. J., Vargas, M. V., Duim, W. C., Wender, P. A., Olson, D. E.
2020
- **Reversible RNA acylation for control of CRISPR-Cas9 gene editing.** *Chemical science*
Habibian, M., McKinlay, C., Blake, T. R., Kietrys, A. M., Waymouth, R. M., Wender, P. A., Kool, E. T.
2019; 11 (4): 1011-1016
- **Synthesis of Modified Nucleoside Oligophosphates Simplified: Fast, Pure, and Protecting Group Free.** *Journal of the American Chemical Society*
Singh, J., Ripp, A., Haas, T. M., Qiu, D., Keller, M., Wender, P. A., Siegel, J. S., Baldrige, K. K., Jessen, H. J.
2019
- **Impact of Treatment Interruption on HIV Reservoirs and Lymphocyte Subsets in Individuals Who Initiated Antiretroviral Therapy During the Early Phase of Infection** *JOURNAL OF INFECTIOUS DISEASES*
Huiting, E. D., Gittens, K., Justement, J., Shi, V., Blazkova, J., Benko, E., Kovacs, C., Wender, P. A., Moir, S., Sneller, M. C., Fauci, A. S., Chun, T.
2019; 220 (2): 270–74
- **Oligo(serine ester) Charge-Altering Releasable Transporters: Organocatalytic Ring-Opening Polymerization and their Use for in Vitro and in Vivo mRNA Delivery** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Benner, N. L., McClellan, R. L., Turlington, C. R., Haabeth, O. W., Waymouth, R. M., Wender, P. A.
2019; 141 (21): 8416–21
- **Local Delivery of Ox40L, Cd80, and Cd86 mRNA Kindles Global Anticancer Immunity** *CANCER RESEARCH*
Haabeth, O., Blake, T. R., McKinlay, C. J., Tveita, A. A., Sallets, A., Waymouth, R. M., Wender, P. A., Levy, R.
2019; 79 (7): 1624–34
- **Therapeutic function through synthesis-informed design: Approaches to HIV/AIDS eradication, Alzheimer's disease, and enhanced cancer immunotherapy**
Wender, P.
AMER CHEMICAL SOC.2019
- **Clinical correlates of HIV-1 DNA and inducible HIV-1 RNA reservoirs in peripheral blood in children with perinatally acquired HIV-1 infection with sustained virologic suppression for at least 5 years.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Bitnun, A., Ransy, D. G., Brophy, J., Kakkar, F., Hawkes, M., Samson, L., Annabi, B., Pagliuzza, A., Morand, J., Sauve, L., Chomont, N., Lavoie, S., Kim, et al
2019
- **A Phosphoramidite Analogue of Cyclotriphosphate Enables Iterative Polyphosphorylations** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Singh, J., Steck, N., De, D., Hofer, A., Ripp, A., Captain, I., Keller, M., Wender, P. A., Bhandari, R., Jessen, H. J.
2019; 58 (12): 3928-3933
- **Impact of treatment interruption on HIV reservoirs and lymphocyte subsets in individuals who had initiated antiretroviral therapy during the early phase of infection.** *The Journal of infectious diseases*
Huiting, E. D., Gittens, K., Justement, J. S., Shi, V., Blazkova, J., Benko, E., Kovacs, C., Wender, P. A., Moir, S., Sneller, M. C., Fauci, A. S., Chun, T.

2019

- **Local delivery of OX40L, CD80, and CD86 mRNA kindles global anti-cancer immunity.** *Cancer research*
Haabeth, O. A., Blake, T. R., McKinlay, C. J., Tveita, A. A., Sallets, A., Waymouth, R. M., Wender, P. A., Levy, R.
2019
- **A Phosphoramidite Analogue of Cyclotriphosphate Enables Iterative Polyphosphorylations.** *Angewandte Chemie (International ed. in English)*
Singh, J., Steck, N., De, D., Hofer, A., Ripp, A., Captain, I., Keller, M., Wender, P. A., Bhandari, R., Jessen, H. J.
2019
- **Oligo(serine ester) Charge-Altering Releasable Transporters: Organocatalytic Ring-Opening Polymerization and their Use for in Vitro and in Vivo mRNA Delivery.** *Journal of the American Chemical Society*
Benner, N. L., McClellan, R. L., Turlington, C. R., Haabeth, O. A., Waymouth, R. M., Wender, P. A.
2019
- **Vancomycin-Arginine Conjugate Inhibits Growth of Carbapenem-Resistant E. coli and Targets Cell-Wall Synthesis.** *ACS chemical biology*
Antonoplis, A. n., Zang, X. n., Wegner, T. n., Wender, P. A., Cegelski, L. n.
2019
- **A Dual-Function Antibiotic-Transporter Conjugate Exhibits Superior Activity in Sterilizing MRSA Biofilms and Killing Persister Cells** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Antonoplis, A., Zang, X., Huttner, M. A., Chong, K. L., Lee, Y. B., Co, J. Y., Amieva, M. R., Kline, K. A., Wender, P. A., Cegelski, L.
2018; 140 (47): 16140-16151
- **Delivery of Inorganic Polyphosphate into Cells Using Amphipathic Oligocarbonate Transporters.** *ACS central science*
Fernandes-Cunha, G. M., McKinlay, C. J., Vargas, J. R., Jessen, H. J., Waymouth, R. M., Wender, P. A.
2018; 4 (10): 1394-1402
- **mRNA vaccination with charge-altering releasable transporters elicits human T cell responses and cures established tumors in mice** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Haabeth, O. W., Blake, T. R., McKinlay, C. J., Waymouth, R. M., Wender, P. A., Levy, R.
2018; 115 (39): E9153-E9161
- **mRNA vaccination with charge-altering releasable transporters elicits human T cell responses and cures established tumors in mice.** *Proceedings of the National Academy of Sciences of the United States of America*
Haabeth, O. A., Blake, T. R., McKinlay, C. J., Waymouth, R. M., Wender, P. A., Levy, R.
2018
- **Functional DNA Delivery Enabled by Lipid-Modified Charge-Altering Releasable Transporters (CARTs)** *BIOMACROMOLECULES*
Benner, N. L., Near, K. E., Bachmann, M. H., Contag, C. H., Waymouth, R. M., Wender, P. A.
2018; 19 (7): 2812-24
- **Characterization of designed, synthetically accessible bryostatin analog HIV latency reversing agents** *VIROLOGY*
Marsden, M. D., Wu, X., Navab, S. M., Loy, B. A., Schrier, A. J., DeChristopher, B. A., Shimizu, A. J., Hardman, C. T., Ho, S., Ramirez, C. M., Wender, P. A., Zack, J. A.
2018; 520: 83-93
- **Enhanced mRNA delivery into lymphocytes enabled by lipid-varied libraries of charge-altering releasable transporters.** *Proceedings of the National Academy of Sciences of the United States of America*
McKinlay, C. J., Benner, N. L., Haabeth, O. A., Waymouth, R. M., Wender, P. A.
2018; 115 (26): E5859-E5866
- **Enhanced mRNA delivery into lymphocytes enabled by lipid-varied libraries of charge-altering releasable transporters** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
McKinlay, C. J., Benner, N. L., Haabeth, O. A., Waymouth, R. M., Wender, P. A.
2018; 115 (26): E5859-E5866
- **REDOR NMR Reveals Multiple Conformers for a Protein Kinase C Ligand in a Membrane Environment** *ACS CENTRAL SCIENCE*
Yang, H., Staveness, D., Ryckbosch, S. M., Axtman, A. D., Loy, B. A., Barnes, A. B., Pande, V. S., Schaefer, J., Wender, P. A., Cegelski, L.
2018; 4 (1): 89-96

- **Delivery of Inorganic Polyphosphate into Cells Using Amphipathic Oligocarbonate Transporters** *ACS Cent. Sci.*
Fernandes Cunha, G., McKinlay, C., Vargas, J., Jessen, H., Waymouth, R., Wender, P.
2018
- **Enantioselective Cobalt-catalysed Transformations Foreword** *ENANTIOSELECTIVE COBALT-CATALYSED TRANSFORMATIONS*
Wender, P. A., Pellissier, H.
2018; 35: VII-VIII
- **A dual function antibiotic-transporter conjugate exhibits superior activity in sterilizing MRSA biofilms and killing persister cells.** *Journal of the American Chemical Society*
Antonoplis, A. n., Zang, X. n., Huttner, M. A., Chong, K. n., Lee, Y. B., Co, J. Y., Amieva, M. n., Kline, K. n., Wender, P. A., Cegelski, L. n.
2018
- **Molecular dynamics simulations reveal ligand-controlled positioning of a peripheral protein complex in membranes.** *Nature communications*
Ryckbosch, S. M., Wender, P. A., Pande, V. S.
2017; 8 (1): 6-?
- **Gilbert Stork (1921-2017) Chemist who revolutionized molecular synthesis** *NATURE*
Wender, P. A.
2017; 551 (7682): 566
- **Ynol Ethers as Ketene Equivalents in Rhodium-Catalyzed Intermolecular [5+2] Cycloaddition Reactions** *ORGANIC LETTERS*
Wender, P. A., Ebner, C., Fennell, B. D., Inagaki, F., Schroeder, B.
2017; 19 (21): 5810-13
- **Retrosynthetic Reaction Prediction Using Neural Sequence-to-Sequence Models** *ACS CENTRAL SCIENCE*
Liu, B., Ramsundar, B., Kawthekar, P., Shi, J., Gomes, J., Quang Luu Nguyen, Ho, S., Sloane, J., Wender, P., Pande, V.
2017; 3 (10): 1103-13
- **Scalable synthesis of bryostatin 1 and analogs, adjuvant leads against latent HIV** *SCIENCE*
Wender, P. A., Hardman, C. T., Ho, S., Jeffrey, M. S., Maclaren, J. K., Quiroz, R. V., Ryckbosch, S. M., Shimizu, A. J., Sloane, J. L., Stevens, M. C.
2017; 358 (6360): 218-22
- **Bryostatin and its synthetic analog, picolog rescue dermal fibroblasts from prolonged stress and contribute to survival and rejuvenation of human skin equivalents.** *Journal of cellular physiology*
Khan, T. K., Wender, P. A., Alkon, D. L.
2017
- **Charge-Altering Releasable Transporters (CARTs) for the delivery and release of messenger RNA in living animals**
McKinlay, C., Vargas, J., Blake, T., Hardy, J., Masamitsu, K., Contag, C., Wender, P., Waymouth, R.
AMER CHEMICAL SOC.2017
- **Charge-altering releasable transporters (CARTs) for the delivery and release of mRNA in living animals** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
McKinlay, C. J., Vargas, J. R., Blake, T. R., Hardy, J. W., Kanada, M., Contag, C. H., Wender, P. A., Waymouth, R. M.
2017; 114 (4): E448-E456
- **Vault Nanoparticles: Chemical Modifications for Imaging and Enhanced Delivery** *ACS NANO*
Benner, N. L., Zang, X., Buehler, D. C., Kickhoefer, V. A., Rome, M. E., Rome, L. H., Wender, P. A.
2017; 11 (1): 872-881
- **Combinations of isoform-targeted histone deacetylase inhibitors and bryostatin analogues display remarkable potency to activate latent HIV without global T-cell activation.** *Scientific reports*
Albert, B. J., Niu, A. n., Ramani, R. n., Marshall, G. R., Wender, P. A., Williams, R. M., Ratner, L. n., Barnes, A. B., Kyei, G. B.
2017; 7 (1): 7456
- **In vivo activation of latent HIV with a synthetic bryostatin analog effects both latent cell "kick" and "kill" in strategy for virus eradication.** *PLoS pathogens*
Marsden, M. D., Loy, B. A., Wu, X. n., Ramirez, C. M., Schrier, A. J., Murray, D. n., Shimizu, A. n., Ryckbosch, S. M., Near, K. E., Chun, T. W., Wender, P. A., Zack, J. A.

2017; 13 (9): e1006575

- **Comparative analysis of the anti-chikungunya virus activity of novel bryostatin analogs confirms the existence of a PKC-independent mechanism.** *Biochemical pharmacology*
Abdelnabi, R., Staveness, D., Near, K. E., Wender, P. A., Delang, L., Neyts, J., Leyssen, P.
2016; 120: 15-21
- **Inhibition of Chikungunya Virus-Induced Cell Death by Salicylate-Derived Bryostatin Analogues Provides Additional Evidence for a PKC-Independent Pathway** *JOURNAL OF NATURAL PRODUCTS*
Staveness, D., Abdelnabi, R., Near, K. E., Nakagawa, Y., Neyts, J., Delang, L., Leyssen, P., Wender, P. A.
2016; 79 (4): 680-684
- **Simplified Bryostatin Analogues Protect Cells from Chikungunya Virus-Induced Cell Death** *JOURNAL OF NATURAL PRODUCTS*
Staveness, D., Abdelnabi, R., Schrier, A. J., Loy, B. A., Verma, V. A., DeChristopher, B. A., Near, K. E., Neyts, J., Delang, L., Leyssen, P., Wender, P. A.
2016; 79 (4): 675-679
- **Cell-Penetrating, Guanidinium-Rich Oligophosphoesters: Effective and Versatile Molecular Transporters for Drug and Probe Delivery.** *Journal of the American Chemical Society*
McKinlay, C. J., Waymouth, R. M., Wender, P. A.
2016; 138 (10): 3510-3517
- **Cell-Penetrating, Guanidinium-Rich Oligophosphoesters: Effective and Versatile Molecular Transporters for Drug and Probe Delivery** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
McKinlay, C. J., Waymouth, R. M., Wender, P. A.
2016; 138 (10): 3510-3517
- **Bioorthogonal Catalysis: A General Method To Evaluate Metal Catalyzed Reactions in Real Time in Living Systems Using a Cellular Luciferase Reporter System** *BIOCONJUGATE CHEMISTRY*
Hsu, H., Trantow, B. M., Waymouth, R. M., Wender, P. A.
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