Gerstner Sloan Kettering
Graduate School of Biomedical Sciences

Justin Cisar, PhD

Graduate Student

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Start Year

2004

End Year

2009

Senior Scientist, 2018-present
Janssen Research & Development
Spring House, Pennsylvania

Senior Research Scientist, 2012–2018
Abide Therapeutics
San Diego, CA

Postdoctoral Fellow, 2009–2012
with Prof. Benjamin F. Cravatt, III
Department of Chemical Physiology
The Skaggs Institute for Chemical Biology
The Scripps Research Institute

PhD, Weill Cornell Medical College, 2009
Tri-Institutional PhD Program in Chemical Biology

BS, University of California, Berkeley, 2003
with Prof. Carolyn Bertozzi
Department of Chemistry

Thesis: *Design and Synthesis of Inhibitors of Nonribosomal Peptide Synthetase Adenylation Domains* , May 13, 2009

Publications

Visit PubMed for a full listing of Justin Cisar's publications.

U.S. Patent 8,461,128, "Antimicrobial Agents and Uses Thereof", issued June 11, 2013.

Pharmacokinetic and *in vivo* efficacy studies of the mycobactin biosynthesis inhibitor salicyl-AMS in mice.
Lun, S.; Guo, H.; Adamson, J.; Cisar, J. S.; Davis, T. D.; Sundaramn Chavadi, S.; Warren, J. D.; Quadri, L. E. N.*; Tan, D. S.*; Bishai, W. R.* *Antimicrob. Agents Chemother.* 2013, *57*, 5138–5140.
[Abstract | PubMed | PMC]

Designed semisynthetic protein inhibitors of Ub/Ubl E1 activating enzymes.
Lu, X.; Olsen, S. K.; Capili, A. D.; Cisar, J. S.; Lima, C. D.*; Tan, D. S.* *J. Am. Chem. Soc.* 2010, *132*, 1748–1749.
[Abstract | PubMed | PMC]
(*Highlighted in Chem. Eng. News, Nat. Rev. Mol. Cell Biol., ACS Chem. Biol., and Faculty of 1000 Biology)*

Small molecule inhibition of microbial natural product biosynthesis – An emerging antibiotic strategy.
Cisar, J. S.; Tan, D. S.* *Chem. Soc. Rev.* 2008, *37*, 1320–1329.
[Abstract | PubMed | PMC]

Exploiting ligand conformation in selective inhibition of non-ribosomal peptide synthetase amino acid adenylation with designed macrocyclic small molecules.

Cisar, J. S.; Ferreras, J. A.; Soni, R. K.; Quadri, L. E. N.*; Tan, D. S.* *J. Am. Chem. Soc.* 2007, *129*, 7752–7753.
[Abstract | PubMed | PMC]
(*Highlighted in Faculty of 1000 Biology*)

Functional self-assembling bolaamphiphilic polydiacetylenes as colorimetric sensor scaffolds.
Song, J.; Cisar, J. S.; Bertozzi, C. R.* *J. Am. Chem. Soc.* 2004, *126*, 8459–8465.
[Abstract | PubMed]

News Articles

06/01/2010
Collaborative Team Advances the Understanding of an Important Activity Inside Cells
MSKCC Center News
A collaborative team of researchers from Memorial Sloan Kettering has determined the mechanism for a biological process that plays a key role in regulating cellular behavior. The process — and the enzymes that control it — has been studied for 30 years, but until now it was a mystery to researchers in the field how this complex reaction takes place. [Full text]

02/22/2010
Activation of Protein Tags: Enzymology: To prepare biological labels for attachment, E1 enzymes dramatically remodel themselves
Chemical & Engineering News
In a tour de force chemical, structural, and mechanistic study that took five years, researchers have solved a long-standing mystery in a Nobel Prize-winning field of research-they have shown how E1 enzymes activate ubiquitin and related proteins to tag other proteins. [Full text]

08/18/2008
From Peptides to Polymers: Molecular probes for biological investigation
NYAS eBriefing
Chemical biologists seek to design new chemical tools for use in research and medicine. Their search is predicated on the incredible diversity of chemical structures, both natural and otherwise. This diversity was well represented at the Chemical Biology Discussion Group's Special Year-End Meeting, held June 2, 2008.
[Overview (free) | Meeting report (membership req'd)]
Justin Cisar's seminar: Inhibition of Nonribosomal Peptide Synthetase Amino Acid Adenylation Domains
[Video (membership req'd)]