

ROMAS KUDIRKA

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SUMMARY Creative self-starter with a proven record of success in developing novel chemical methods to solve applied problems in both independent and multidisciplinary research environments. Practical knowledge and experience with modern small molecule synthetic methods and their application. Possess extensive experience in drug design based on privileged biological scaffolds. Expertise in targeted drug delivery. Possesses strong understanding of primary principles and physical organic chemistry. Effective people manager at department, CRO, and project lead levels.

RESEARCH EXPERIENCE

2020 – present **Associate Director, Chemistry.** Bolt Biotherapeutics. Redwood City, CA
2018 – 2020 **Senior Scientist, Chemistry.** Bolt Biotherapeutics. Redwood City, CA
2014 – 2018 **Senior Research Scientist.** Catalent (formerly Redwood Bioscience, Inc.)
2012 – 2014 **Research Scientist.** Redwood Bioscience, Inc.
2009 – 2012 **Postdoctoral Scholar.** Lawrence Berkeley National Laboratory. Berkeley, CA
2000 – 2002 **Research Associate.** GNF – Novartis. La Jolla, CA
1998 – 1999 **Research Intern.** Combichem, Inc. (Dupont). La Jolla, CA

EDUCATION

2002 – 2009 **Ph.D. in Organic Chemistry,** June 2009, University of California, Irvine
Irvine, CA *Advisor:* Professor David L. Van Vranken
Dissertation: Development of Reactions Involving Palladium-Catalyzed Carbene Insertions and Subsequent Trapping
1999 – 2000 **M.S. in Chemistry,** June 2000, University of California, San Diego
La Jolla, CA
1994-1999 **B.S. in Chemistry,** June 2000, University of California, San Diego
La Jolla, CA

PUBLICATIONS

- (1) "CAT-02-106, a site-specifically conjugated anti-CD22 antibody bearing an MDR1-resistant maytansine yields excellent efficacy and safety in preclinical models." Drake, P.M.; Carlson, A.; McFarland, J.; Banas, S.; Barfield, R.B.; Zmolek, W.; Kim, Y. C.; Huang, B. C. B.; **Kudirka, R.**; Rabuka, D. *Molecular Cancer Therapeutics*, **2017**, *17*, 161-8.
- (2) "Site-Specific Tandem Knoevenagel Condensation–Michael Addition to Generate Antibody-Drug Conjugates." **Kudirka, R.**; Barfield, R.B.; McFarland, J.; Drake, P.M.; Carlson, A.; Banas, S.; Zmolek, W.; Garofalo, A.; Rabuka, D. *ACS Med. Chem. Lett.* **2016**, *7*, 994-998.
- (3) "Generating Site-Specifically Modified Proteins via a Versatile and Stable Nucleophilic Carbon Ligation." **Kudirka, R.**; Barfield, R.B.; McFarland, J.; Albers, A.E.; deHart, G.W.; Drake, P.M.; Holder, P.G.; Banas, S.; Jones, L.C.; Garofalo, A.W.; Rabuka, D. *Chem. Biol.* **2015**, *22*, 293-298.
- (4) "Exploring the effects of linker composition on site-specifically modified antibody-drug conjugates." Drake, P.M.; Albers, A.E.; Baker, J.; Banas, S.; Barfield, R.B.; Bhat, A.S.; deHart, G.W.; Garofalo, A.W.;

- Jones, L.C.; **Kudirka, R.**; McFarland, J.; Holder, P.G.; Zmolek, W.; Rabuka, D. *Eur. J. Med Chem.* **2014**, *88*, 3-9.
- (5) "Aldehyde Tag Coupled with HIPS Chemistry Enables the Production of ADCs Conjugated Site-Specifically to Different Antibody Regions with Distinct in Vivo Efficacy and PK Outcomes." Drake, P.M.; Albers, A.E.; Baker, J.; Banas, S.; Barfield, R.B.; Bhat, A.S.; deHart, G.W.; Garofalo, A.W.; Jones, L.C.; **Kudirka, R.**; McFarland, J.; Holder, P.G.; Zmolek, W.; Rabuka, D. *Bioconjugate Chem.* **2014**, *25*, 1331-1341.
- (6) "Hydrazino-Pictet-Spengler Ligation as a Biocompatible Method for the Generation of Stable Protein Conjugates." Agarwal, P.; **Kudirka, R.**; Albers, A.E.; Barfield, R.B.; deHart, G.W.; Drake, P.M.; Jones, L.C.; Rabuka, D. *Bioconjugate Chem.* **2013**, *24*, 846-851.
- (7) "Shaken, not Stirred: Collapsing of a peptoid monolayer to produce free-floating stable nanosheets." Sanii, B.; **Kudirka, R.**; Tran, H.; Nam, K. T.; Vankateswaran, N.; Zuckermann, R. N. *J. Am. Chem. Soc.* **2011**, *133*, 20808-20815.
- (8) "Ionization of dimethyluracil dimmers leads to facile proton transfer in the absence of H-bonds." Golan, A.; Bravaya, K. B.; **Kudirka, R.**; Kostko, O.; Leone, S. R.; Krylov, A. I.; Ahmed, M. *Nature Chemistry*, **2012**, *4*, 323-329.
- (9) "Folding of a single-chain, information-rich polypeptoid sequence into a highly-ordered nanosheet." **Kudirka, R.**; Tran, H.; Sanii, B.; Nam, K. T. Choi, P. H.; Vankateswaran, N.; Chen, R.; Whitelam, S.; Zuckermann, R. N., *Biopolymers-Peptide Science.* **2011**, *96*, 586-595.
- (10) "Palladium-Catalyzed Insertions of α -Diazoesters into Vinyl Halides to Generate α,β -Unsaturated α -Amino Acids." **Kudirka, R.**; Devine, S.K.J.; Adams, C.S.; Van Vranken, D.L., *Angew. Chem. Int. Ed.* **2009**, *48*, 3677-3680.
- (11) "Cyclization Reactions Involving Palladium-Catalyzed Carbene Insertions into Aryl Halides." **Kudirka, R.**; Van Vranken, D.L. *J. Org. Chem.*, **2008**, *73*, 3585-3588.
- (12) "Solid-Phase Synthesis of Nucleoside Analogues." Epple, R.; **Kudirka, R.**; Greenberg, W.A. *J. Comb. Chem.* **2003**, *5*, 292-310.

PATENTS

- (1) Hydrzinyl-indole compounds and methods for producing a conjugate. US20210162054A1.
- (2) Thienoazepine immunoconjugates, and uses thereof. US20210128744A1.
- (3) Macromolecule-supported thienoazepine compounds, and uses thereof. WO2021081402A1.
- (4) Amide-linked, aminobenzazepine immunoconjugates, and uses thereof. WO2021067242A1.
- (5) Immunoconjugate synthesis method. WO2021046347A1.
- (6) Aminoquinoline compounds, immunoconjugates, and uses thereof. WO2021046112A1.
- (7) Hydrazinyl-Substituted Heteroaryl Compounds and Methods for producing a conjugate. US20200405876A1.
- (8) Macromolecule-supported aminobenzazepine compounds. WO2020252254A1.
- (9) Aminobenzazepine compounds, immunoconjugates, and uses thereof. US20200390899A1.
- (10) Immunoconjugates targeting PD-L1. WO2020190734A1.
- (11) Immunoconjugates targeting CEA. WO2020190760A1.
- (12) Immunoconjugates targeting HER2. WO2020190731A1.
- (13) Macromolecule-supported TLR agonists. WO2020190762A1.

- (14)Hydrazinyl-Pyrrolo Compounds and Methods for Producing a Conjugate. US20200317610A1.
- (15)Anti-HER2 antibody-maytansine conjugates and methods of use thereof. US11097013B2.
- (16)Compounds and methods for producing a conjugate. US9579390B2.
- (17)Nucleoside analog libraries. US7034147B2.
- (18)Nucleoside analog libraries. WO2003045966A3.

AWARDS

Catalent Excellence in Science and Technology Award
UC Regents Dissertation Fellowship, UCI, 2008
Outstanding Contributions to Lower Division Education, UCI 2007.
NCAA All-American, Men's Water Polo, UCSD 1997.
NCAA All-American, Men's Water Polo, UCSD 1996.
Provost's Honors, UCSD 1996-1997.