

Ziyang Zhang

CONTACT

Cellular and Molecular Pharmacology
University of California, San Francisco
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EDUCATION

- 8/2011 – 5/2016 **Harvard University**, Cambridge, MA, United States
Ph. D. Organic Chemistry
- 9/2007 – 7/2011 **Peking University**, Beijing, China
B. Sc. Chemistry
B. Sc. Computer Software (second major)

RESEARCH EXPERIENCE

- 11/2016 – Present **Damon Runyon Cancer Research Foundation Postdoctoral Fellow**
Advisor: Prof. Kevan M. Shokat
- A Chemical Approach for Brain-Specific Inhibition of mTOR**
- Designed, synthesized and evaluated compounds that achieve brain-specific inhibition of mTOR *in vivo*.
- Mutant-specific inhibitors of K-Ras(G12D)**
- Discovered cyclic peptides ligands of K-Ras(G12D) that are selective for the GTP-bound state and elucidated their binding mode using X-ray crystallography.
- Hapten-induced Neopeptides for Cancer Immunotargeting**
- Characterized hapten-peptide neopeptides induced by a covalent small molecule inhibitor of K-Ras(G12C).
 - Created bispecific antibodies that recognize these epitopes and recruit cytotoxic T cells to kill KRAS G12C mutant tumor cells.
- SARS-CoV-2 nsp14 downregulates host MHC-I**
- Studied the effects of SARS-CoV-2 proteins on host cell antigen presentation and identified the immunoevasin function of nsp14
 - Discovered that IMPDH2 inhibitors protect host cells from nsp14-mediated MHC-I downregulation
- 1/2012 – 11/2016 **Howard Hughes Medical Institute International Fellow**
Advisor: Prof. Andrew G. Myers
- A Platform for the Discovery of New Macrolide Antibiotics**
- Developed a practical and diversifiable platform for the rapid synthesis of new macrolide antibiotics.
 - Designed and synthesized more than a hundred novel fully synthetic macrolides with unprecedented structural attributes. Many of these demonstrated significant potencies against pathogens resistant to all clinically used macrolides.
- Identification of the Mammalian Target of Anticancer Tetracyclines**

- Studied the binding sites of a chemically modified tetracycline that exhibited anticancer activity on the mammalian ribosome using chemical photo-crosslinking and high-throughput RNA sequencing.

9/2009 – 6/2011

Undergraduate Research Fellow

Advisors: Prof. Zhen Yang, Prof. Jiahua Chen and Prof. Yefeng Tang

Syntheses of Xanthanolides via Dyotropic Rearrangement of β -Lactones

- Developed a reliable stereoselective ring-expansion strategy toward multi-substituted γ -lactones and Applied this strategy to the synthesis of the xanthanolide family of natural products.

Total Synthesis of Rossinones, Guajadial and Psidial A

- Proposed biosynthetic routes of Rossinones A/B, Guajadial and Psidial A, and independently accomplished the biomimetic total syntheses of Rossinone B in 10 steps, Guajadial and Psidial A in 2 steps.

HONORS AND AWARDS

07/2021	Talented 12, Chemical and Engineering News, American Chemical Society
05/2020	Dean's Awards for Excellence in Mentoring Honorable Mention, University of California San Francisco
10/2019	Postdoc Slam People's Choice Award, University of California San Francisco
11/2016	Damon Runyon Cancer Research Foundation Postdoctoral Fellowship
7/2015	Certificate of Distinction in Teaching, Harvard University
10/2014	Christensen Prize for Outstanding Research Achievement
7/2013	Howard Hughes Medical Institute International Predoctoral Fellowship
6/2013	Certificate of Distinction in Teaching, Harvard University
10/2012	Certificate of Distinction in Teaching, Harvard University
6/2012	Smith Family Graduate Fellowship, Harvard University
6/2011	Top Undergraduate Researcher Award, Department of Chemistry, Peking University
11/2010	National Scholarship, Ministry of Education of China
11/2009	National Scholarship, Ministry of Education of China
11/2008	Mingde Scholarship, Mingde Fellowship Association
11/2007	Mingde Scholarship, Mingde Fellowship Association
7/2007	The 39th International Chemistry Olympiad, Gold Medal (Rank 5/256)

PUBLICATIONS

18. Tummino, T. A.; Rezelj, V. V.; Fischer, B.; Fischer A.; O'Meara, M. J.; Monel, B.; Vallet, T.; **Zhang, Z.**; Alon, A.; O'Donnell, H. R.; Lyu, J.; Schadt, H.; White, K. M.; Krogen, N. J.; Urban, L.; Shokat, K.; Kruse, A.; Garcia-Sastre A.; Schwartz, O.; Moretti, F.; Vignuzzi, M.; Pognan, F.; Shoichet, B. K. Phospholipidosis is a shared mechanism underlying the in vitro antiviral activity of many repurposed drugs against SARS-CoV-2. *Science* **2021**, eabi4708. DOI: <https://doi.org/10.1126/science.abi4708>.

17. Reuschl, A.; Thorne, L. G.; Zuliani-Alvarez, L.; Bouhaddou, M.; Obernier, K.; Hiatt, J.; Soucheray, M.; Turner, J.; Fabius, J. M.; Nguyen, G. T.; Swaney, D. L.; Rosales, R.; White, K. M.; Aviles, P.; Kirby, I. T.; Melnyk, J. E.; Shi, Y.; **Zhang, Z.**; Shokat, K. M.; Garcia-Sastre, A.; Jolly, C.; Towers, G. J.; Krogan, N. J. Host-directed therapies against early-lineage SARS-CoV-2 retain efficacy against B.1.1.7 variant. *bioRxiv* 2021.01.24.427991; doi: <https://doi.org/10.1101/2021.01.24.427991>

16. **Zhang, Z.**; Fan, Q.; Luo, X.; Lou, K.; Weiss, W. A.; Shokat, K. M. Brain-Specific mTOR Inhibition with Binary Pharmacology. *bioRxiv* 2020.10.12.336677; doi: <https://doi.org/10.1101/2020.10.12.336677>

15. Ehinger, Y.*; **Zhang, Z.***; Phamluoung, K.; Soneja D.; Shokat, K. M.; Ron, D. Brain-Specific Inhibition of mTORC1 by a Dual Drug Strategy: A Novel Approach for the Treatment of Alcohol Use Disorder. *Nature Communications* **2021**, *12*, 4407. Doi: <https://doi.org/10.1038/s41467-021-24567-x>

14. Gordon, D. E.; Hiatt, J.; Bouhaddou, M.; Rezelj, V. V.; Ulferts, S.; Braberg, H.; Jureka, A. S.; Obernier, K.; Guo, J. Z.; Batra, J.; Kaake, R. M.; Weckstein, A. R.; Owens, T. W.; Gupta, M.; Pourmal, S.; Titus, E. W.; Cakir, M.; Soucheray, M.; McGregor, M.; Cakir, Z.; Jang, G.; O'Meara, M. J.; Tummino, T. A.; **Zhang, Z.**; Foussard, H.; Rojc, A.; Zhou, Y.; Kuchenov, D.; Hüttenhain, R.; Xu, J.; Eckhardt, M.; Swaney, D. L.; Fabius, J. M.; Ummadi, M.; Tutuncuoglu, B.; Rathore, U.; Modak, M.; Haas, P.; Haas, K. M.; Naing, Z. Z. C.; Pulido, E. H.; Shi, Y.; Barrio-Hernandez, I.; Memon, D.; Petsalaki, E.; Dunham, A.; Marrero, M. C.; Burke, D.; Koh, C.; Vallet, T.; Silvas, J. A.; Azumaya, C. M.; Billesbølle, C.; Brilot, A. F.; Campbell, M. G.; Diallo, A.; Dickinson, M. S.; Diwanji, D.; Herrera, N.; Hoppe, N.; Kratochvil, H. T.; Liu, Y.; Merz, G. E.; Moritz, M.; Nguyen, H. C.; Nowotny, C.; Puchades, C.; Rizo, A. N.; Schulze-Gahmen, U.; Smith, A. M.; Sun, M.; Young, I. D.; Zhao, J.; Asarnow, D.; Biel, J.; Bowen, A.; Braxton, J. R.; Chen, J.; Chio, C. M.; Chio, U. S.; Deshpande, I.; Doan, L.; Faust, B.; Flores, S.; Jin, M.; Kim, K.; Lam, V. L.; Li, F.; Li, J.; Li, Y.-L.; Li, Y.; Liu, X.; Lo, M.; Lopez, K. E.; Melo, A. A.; Moss, F. R.; Nguyen, P.; Paulino, J.; Pawar, K. I.; Peters, J. K.; Pospiech, T. H.; Safari, M.; Sangwan, S.; Schaefer, K.; Thomas, P. V.; Thwin, A. C.; Trenker, R.; Tse, E.; Tsui, T. K. M.; Wang, F.; Whitis, N.; Yu, Z.; Zhang, K.; Zhang, Y.; Zhou, F.; Saltzberg, D.; Hodder, A. J.; Shun-Shion, A. S.; Williams, D. M.; White, K. M.; Rosales, R.; Kehrer, T.; Miorin, L.; Moreno, E.; Patel, A. H.; Rihn, S.; Khalid, M. M.; Vallejo-Gracia, A.; Fozouni, P.; Simoneau, C. R.; Roth, T. L.; Wu, D.; Karim, M. A.; Ghousaini, M.; Dunham, I.; Berardi, F.; Weigang, S.; Chazal, M.; Park, J.; Logue, J.; McGrath, M.; Weston, S.; Haupt, R.; Hastie, C. J.; Elliott, M.; Brown, F.; Burness, K. A.; Reid, E.; Dorward, M.; Johnson, C.; Wilkinson, S. G.; Geyer, A.; Giesel, D. M.; Baillie, C.; Raggett, S.; Leech, H.; Toth, R.; Goodman, N.; Keough, K. C.; Lind, A. L.; Klesh, R. J.; Hemphill, K. R.; Carlson-Stevermer, J.; Oki, J.; Holden, K.; Maures, T.; Pollard, K. S.; Sali, A.; Agard, D. A.; Cheng, Y.; Fraser, J. S.; Frost, A.; Jura, N.; Kortemme, T.; Manglik, A.; Southworth, D. R.; Stroud, R. M.; Alessi, D. R.; Davies, P.; Frieman, M. B.; Ideker, T.; Abate, C.; Jouvenet, N.; Kochs, G.; Shoichet, B.; Ott, M.; Palmarini, M.; Shokat, K. M.; García-Sastre, A.; Rassen, J. A.; Grosse, R.; Rosenberg, O. S.; Verba, K. A.; Basler, C. F.; Vignuzzi, M.; Peden, A. A.; Beltrao, P.; Krogan, N. J. Comparative Host-Coronavirus Protein Interaction Networks Reveal Pan-Viral Disease Mechanisms. *Science* **2020**, 370 (6521), eabe9403.

13. **Zhang, Z.**; Gao, R.; Hu, Q.; Peacock, H.; Peacock, D. M.; Shokat, K. M.; Suga, H. GTP State-Selective Cyclic Peptide Ligands of K-Ras(G12D) Block its Interaction with Raf. *ACS Cent. Sci.* **2020**, 6(10), 1753–1761. <https://dx.doi.org/10.1021/acscentsci.0c00514>

12. Dai, S.; Hu, Q.; Gao, R.; Lazar, A.; **Zhang, Z.**; Zastrow, M.; Suga, H.; Shokat, K. M. A cell-permeable cyclic peptide inhibitor targeting the active state of Gas. *bioRxiv* 2020.04.25.054080; doi: <https://doi.org/10.1101/2020.04.25.054080>

11. Gordon, D. E.; Jang, G. M.; Bouhaddou, M.; Xu, J.; Obernier, K.; White, K. M.; O'Meara, M. J.; Rezelj, V. V.; Guo, J. Z.; Swaney, D. L.; Tummino, T. A.; Hüttenhain, R.; Kaake, R. M.; Richards, A. L.; Tutuncuoglu, B.; Foussard, H.; Batra, J.; Haas, K.; Modak, M.; Kim, M.; Haas, P.; Polacco, B. J.; Braberg, H.; Fabius, J. M.; Eckhardt, M.; Soucheray, M.; Bennett, M. J.; Cakir, M.; McGregor, M. J.; Li, Q.; Meyer, B.; Roesch, F.; Vallet, T.; Mac Kain, A.; Miorin, L.; Moreno, E.; Naing, Z. Z. C.; Zhou, Y.; Peng, S.; Shi, Y.; **Zhang, Z.**; Shen, W.; Kirby, I. T.; Melnyk, J. E.; Chorba, J. S.; Lou, K.; Dai, S. A.; Barrio-Hernandez, I.; Memon, D.; Hernandez-Armenta, C.; Lyu, J.; Mathy, C. J. P.; Perica, T.; Pilla, K. B.; Ganesan, S. J.; Saltzberg, D. J.; Rakesh, R.; Liu, X.; Rosenthal, S. B.; Calviello, L.; Venkataramanan, S.; Liboy-Lugo, J.; Lin, Y.; Huang, X. P.; Liu, Y. F.; Wankowicz, S. A.; Bohn, M.; Safari, M.; Ugur, F. S.; Koh, C.; Savar, N. S.; Tran, Q. D.; Shengjuler, D.; Fletcher, S. J.; O'Neal, M. C.; Cai, Y.; Chang, J. C. J.; Broadhurst, D. J.; Klippsten, S.; Sharp, P. P.; Wenzell, N. A.; Kuzuoglu-Ozturk, D.; Wang, H. Y.; Trenker, R.; Young, J. M.; Cavero, D. A.; Hiatt, J.; Roth, T. L.; Rathore, U.; Subramanian, A.; Noack, J.; Hubert, M.; Stroud, R. M.; Frankel, A. D.; Rosenberg, O. S.; Verba, K. A.; Agard, D. A.; Ott, M.; Emerman, M.; Jura, N.; von Zastrow, M.; Verdin, E.; Ashworth, A.; Schwartz, O.; d'Enfert, C.; Mukherjee, S.; Jacobson, M.; Malik, H. S.; Fujimori, D. G.; Ideker, T.; Craik, C. S.; Floor, S. N.; Fraser, J. S.; Gross, J. D.; Sali, A.; Roth, B. L.; Ruggero, D.; Taunton, J.; Kortemme, T.; Beltrao, P.; Vignuzzi, M.; García-Sastre, A.; Shokat, K. M.; Shoichet, B. K.; Krogan, N. J. A SARS-CoV-2 Protein Interaction Map Reveals Targets for Drug Repurposing. *Nature* **2020**, 583, 459–468. [PMID: 32353859](https://doi.org/10.1038/s41586-020-2000-0).

• Featured in New York Times: “Scientists Identify 69 Drugs to Test Against the Coronavirus”, March 22, 2020.

10. **Zhang, Z.**; Shokat, K. M.; Bifunctional Small Molecule Ligands of K-Ras Induce Its Association with Immunophilin Proteins. *Angew. Chem. Int. Ed.* **2019**, 58, 16314–16319. (Highlighted as “Very Important Paper”). [PMID: 31557383](https://doi.org/10.1002/anie.201910000).

9. Katsuno, Y.; Meyer, D. S.; **Zhang, Z.**; Shokat, K. M.; Akhurst, R. J.; Miyazono, K.; Derynck, R. Chronic TGF- β exposure drives stabilized EMT, tumor stemness and cancer drug resistance with vulnerability to bitopic mTOR inhibition. *Sci. Signal.* **2019**, 12, eaau8544. [PMID: 30808819](https://doi.org/10.1126/scisignal.aau8544).

8. Mortison J. D.; Schenone M.; Myers, J. A.; **Zhang, Z.**; Chen, L.; Ciarlo, C.; Comer, E.; Natchiar, S. K.; Carr, S. A.;

Klaholz, B. P.; Myers, A. G. Tetracyclines Modify Translation by Targeting Key Human rRNA Substructures. *Cell Chem. Bio.* **2018**, *25*, 1506–1518. [PMID: 30318467](#).

7. Seiple, I. B.*; **Zhang, Z.***; Jakubec, P.; Langlois, A.; Wright, P. M.; Hog, D. T.; Yabu, K.; Allu, S. R.; Fukuzaki, T.; Carlsen, P. N.; Kitamura, Y.; Zhou, X.; Condakes, M. L.; Szczypiński, F. T.; Green, W. D.; Myers, A. G. A Platform for the Discovery of New Macrolide Antibiotics. *Nature* **2016**, *533*, 338–345. [PMID: 27193679](#).

• Featured in Nature News & Views: Yan, M.; Baran, P. S. Fighting evolution with chemical synthesis. *Nature* **2016**, *533*, 326–327.

6. **Zhang, Z.**; Fukuzaki, T.; Myers, A. G. A Concise, Practical Synthesis of D-Desosamine and Analogs Employing a Novel Strategy for the Rapid Assembly of 3-Amino Sugars. *Angew. Chem. Int. Ed.* **2016**, *55*, 523–527. [PMID: 26612347](#).

5. **Zhang, Z.**; Kitamura, Y.; Myers, A. G. An Efficient Directed Claisen Reaction Allows for Rapid Construction of 5,6-Disubstituted 1,3-Dioxin-4-ones. *Synthesis* **2015**, *47*, 2709–2712.

4. Seiple, I. B.; Mercer, J. A. M.; Sussman, R. J.; **Zhang, Z.** Stereocontrolled Synthesis of Syn- β -Hydroxy- α -Amino Acids by Direct Aldolization of Pseudoephedrine Glycinamide. *Angew. Chem. Int. Ed.* **2014**, *33*, 4642–4646. [PMID: 24692320](#).

• Featured in Synfacts: Knochel, P.; Hammann, J. M. Stereocontrolled Synthesis of β -Hydroxy- α -Amino Acid Derivatives. *Synfacts* **2014**, *10*, 738.

3. Ren, W.; Chen, Z.; Xiao, Q.; Li, Y.; Sun, T; **Zhang, Z.**; Ye, Q; Feng, F; You, L; Zhao, M.; Xu, L; Tang, Y; Chen, J.; Yang, Z. Diastereoselective Total Synthesis of (\pm)-Schindilactone A, Part 3: The Final Phase and Completion. *Chem. Asian. J.* **2012**, *7*, 2341–2350. [PMID: 22761030](#).

2. Ren, W.; Bian, Y.; **Zhang, Z.**; Shang, H.; Zhang, P.; Chen, Y.; Yang, Z.; Luo, T.; Tang, Y. Enantioselective and Collective Syntheses of Xanthanolides Involving a Controllable Dyotropic Rearrangement of cis- β -Lactones. *Angew. Chem. Int. Ed.* **2012**, *124*, 7090–7094. [PMID: 22674838](#).

1. **Zhang, Z.**; Chen, J.; Yang, Z.; Tang, Y. A Rapid Biomimetic Total Synthesis of (\pm)-Rossinone B. *Org. Lett.* **2010**, *12*, 5554–5557. [PMID: 21062011](#).

• Featured in Synfacts: Ley, S. V.; Newton, S. Biomimetic Synthesis of (\pm)-Rossinone B. *Synfacts* **2011**, *4*, 356.

PATENTS

1. U.S. Patent No. 9982005. App 20160052951. Andrew G. Myers, Ian B. Seiple, Ziyang Zhang. “Macrolides and Methods of Their Preparation and Use”. April 4, 2014. Issued: May 29, 2018.

3. U.S. Patent No. 10633407. App: 20170305953. Andrew G. Myers, Ian B. Seiple, Ziyang Zhang. “14-Membered Ketolides and Methods of Their Preparation and Use”. October 8, 2015. Issued: April 28, 2020.

4. U.S. Patent No. 10544182. App. 20180111956. Andrew G. Myers, Ziyang Zhang. “Synthesis of Desosamines”. March 25, 2016. Issued: January 28, 2020.

4. U.S. Patent No. 11008358. App. 20200347087. Andrew G. Myers, Ziyang Zhang. “Synthesis of Desosamines”. December 23, 2019. Issued: May 18, 2021.

5. U.S. Patent No. 10640528. App 20180066008. Andrew G. Myers, Ian B. Seiple, Ziyang Zhang. “Macrolides with Modified Desosamine Sugars and Uses Thereof”. March 25, 2016. Issued: May 5, 2020.

6. U.S. Patent No. 10913764. App 20180298048. Andrew. G. Myers, Ian B. Seiple, Ziyang Zhang. “Macrolides and Methods of Their Preparation and Use”. April 5, 2018. Issued: February 9, 2021.

7. U.S. Provisional Application. Kevan M. Shokat, Ziyang Zhang, William A. Weiss, Qiwen Fan. “Brain-specific inhibition of mTOR to mitigate systemic toxicity”. February 7, 2019.

8. U.S. Provisional Application. Kevan M. Shokat, Ziyang Zhang. “Immunophilin-dependent enzyme inhibitors and uses thereof”. February 7, 2019.

9. U.S. Provisional Application. No.: 62/873,505. Kevan M. Shokat, Charles S. Craik, Ziyang Zhang, Peter Rohweder. “Chemically controlled monoclonal antibody target engagement”. July 12, 2019.

10. U.S. Provisional Application. No.: 62/952,800. Kevan M. Shokat, Ziyang Zhang. “Small molecules enhancing MHC presentation of oncogene derived neoantigens”. December 23, 2019.

MANUSCRIPTS IN PREPARATION

1. Zhang, Z.; Rohweder, P.; Bohn, M.; Basu, K. Hann, B.; Craik, C.; Shokat, K. M. Covalent K-Ras(G12C) ligand induces MHC-I presentation of haptenedated peptide neoepitopes targetable by immunotherapy.
2. Zhang, Z.; White, K.; Garcia-Sastre, A.; Shokat, K. M. SARS-CoV-2 nsp14 suppresses viral antigen presentation by down-regulating MHC-I.

TEACHING EXPERIENCE

Spring 2019	CCB244: The Organic Chemistry of Drug Design (University of California, San Francisco) Instructor – created and developed the course with Dr. Kangway Chuang.
Fall 2018	CCB219: Advanced Organic Synthesis (University of California, San Francisco) Co-Instructor (Course head: Prof. Ian B. Seiple)
Spring 2018	CCB244: Reaction Mechanisms (University of California, San Francisco) Lecturer (Course head: Prof. Jason Gestwicki)
Fall 2015	Chemistry 115: Advanced Organic Chemistry: Synthesis of Complex Molecules (Harvard University) Head teaching fellow and Guest lecturer (Course head: Prof. Andrew G. Myers)
Spring 2013	Chemistry 30: Organic Chemistry (Harvard University) Teaching fellow (Course head: Prof. Andrew G. Myers)
Fall 2012	Chemistry 153: Experimental Synthetic Chemistry (Harvard University) Teaching fellow (Course head: Dr. Eugene Kwan)
Spring 2011	Experimental Synthetic Chemistry (Peking University) Undergraduate Teaching Fellow

MENTORING

- Trained undergraduates, graduate students, exchange scientists in experimental organic chemistry and chemical biology.
William Newberry (Harvard), Andre Sanchez (Harvard), Jessica Xu (Harvard), Takehiro Fukuzaki (Harvard), Yubin Wang (Harvard), Matthew Callahan (UCSF), Wenqi Shen (UCSF), Guido Oerleman (UCSF).
- Served as a member of qualification exam committee of graduate student at UCSF.
Douglas Wassarman, Eric Gonzalez.
- Served as a mentor for student colloquium course (PC223) at UCSF.
Krister Barkovich, Allison Wong, Keely Oltion, Shizhong Dai, Ryan Muir, Quinn Edmonson, Arthur Tran.

SERVICE AS JOURNAL REVIEWER

2017 – Current	Journal of the American Chemical Society (2)
2018 – Current	Chemical Communications (46)
2018 – Current	Bioorganic & Medicinal Chemistry Letters (1)
2018 – Current	Organic & Biomolecular Chemistry (3)
2019 – Current	RSC Advance (2)

CONFERENCE PRESENTATIONS

1. Gordon Research Conference in Organic Reactions and Processes (Smithfield, RI, 2014)
Poster: "A Fully Synthetic Approach to the Discovery of New Macrolide Antibiotics"
2. LMU-Harvard Young Scientists Symposium (Cambridge, MA, 2014)
Poster: "A Fully Synthetic Approach to the Discovery of New Macrolide Antibiotics"
3. ISACS14 – Challenged in Organic Chemistry (Shanghai, China, 2014)
Poster: "A Fully Synthetic Approach to the Discovery of New Macrolide Antibiotics"
4. ACS National Meeting (Boston, MA, 2015)
Session Chair, Total Synthesis Complex Molecules
5. Pacifichem 2015 (Honolulu, HI, 2015)
Talk: "A Fully Synthetic Approach to the Discovery of New Macrolide Antibiotics"
6. Howard Hughes Medical Institute Scientific Meeting (Chevy Chase, MD, 2016)
Poster: "A chemical strategy for brain-specific inhibition of mTOR"
7. Gordon Research Conference in Natural Products and Bioactive Compounds (Andover, NH, 2017)
Flash Talk: "A Fully Synthetic Approach to the Discovery of New Macrolide Antibiotics"
Poster: "A Fully Synthetic Approach to the Discovery of New Macrolide Antibiotics"
8. Chemical Biology in the Bay Area (UC Berkeley, 2018)
Poster: "A chemical strategy for brain-specific inhibition of mTOR"
9. Chemical Tools for Complex Biological System (HHMI Janelia Campus, 2019)
Poster: "A chemical strategy for brain-specific inhibition of mTOR"
10. Gordon Research Seminar in Bioorganic Chemistry (Andover, NH, 2019)
Session Chair
11. Gordon Research Conference in Bioorganic Chemistry (Andover, NH, 2019)
Poster: "A chemical strategy for brain-specific inhibition of mTOR"
12. Chemical Biology in the Bay Area (UCSF, 2019)
Poster: "A chemical strategy for brain-specific inhibition of mTOR"
13. Howard Hughes Medical Institute Scientific Meeting (HHMI Janelia Campus, 2019)
Poster: "A chemical strategy for brain-specific inhibition of mTOR"
14. Quantitative Biology Consortium Retreat, UCSF (Santa Cruz, 2019)
Invited Talk: "A chemical strategy for brain-specific inhibition of mTOR"
15. Quantitative Biology Consortium Coronavirus Research Group Virtual Conference (UCSF, 2020)
Invited Talk: "SARS-CoV-2 nsp14 suppresses viral antigen presentation by down-regulating host MHC-I"
16. COVID-19 Virtual Symposium (Columbia University, 2020)
Invited Talk: "SARS-CoV-2 nsp14 suppresses viral antigen presentation by down-regulating host MHC-I"
17. Broad Institute Next Generation in Biomedicine Symposium (Broad Institute, 2021)
Invited Talk: "A chemical strategy for brain-specific inhibition of mTOR"

REFERENCES

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