Stanford

Nathanael S. Gray

Krishnan-Shah Family Professor

Chemical and Systems Biology

Bio

BIO

Nathanael Gray is the Krishnan-Shah Family Professor of Chemical and Systems Biology at Stanford, Co-Director of Cancer Drug Discovery Co-Leader of the Cancer Therapeutics Research Program, Member of Chem-H, and Program Leader for Small Molecule Drug Discovery for the Innovative Medicines Accelerator (IMA). His research utilizes the tools of synthetic chemistry, protein biochemistry, and cancer biology to discover and validate new strategies for the inhibition of anti-cancer targets. Dr. Gray's research has had broad impact in the areas of kinase inhibitor design and in circumventing drug resistance.

Dr. Gray received his PhD in organic chemistry from the University of California at Berkeley in 1999 after receiving his BS degree with the highest honor award from the same institution in 1995. After completing his PhD, Dr. Gray was recruited to the newly established Genomics Institute of the Novartis Research Foundation (GNF) in San Diego, California. During his six year stay at GNF, Dr. Gray became the director of biological chemistry where he supervised a group of over fifty researchers integrating chemical, biological and pharmacological approaches towards the development of new experimental drugs. Some of the notable accomplishments of Dr. Gray's team at GNF include: discovery of the first allosteric inhibitors of wild-type and mutant forms of BCR-ABL which resulted in clinical development of ABL001; discovery of the first selective inhibitors of the Anaplastic Lymphoma Kinase (ALK), an achievement that led to the development of now FDA-approved drugs such as ceritinib (LDK378) for the treatment of EML4-ALK expressing non-small cell lung cancer (NSCLC); and discovery that sphingosine-1-phosphate receptor-1 (S1P1) is the pharmacologically relevant target of the immunosuppressant drug Fingomilod (FTY720) followed by the development of Siponimod (BAF312), which is currently used for the treatment of multiple sclerosis.

In 2006, Dr. Gray returned to academia as a faculty member at the Dana Farber Cancer Institute and Harvard Medical School in Boston. There, he has established a discovery chemistry group that focuses on developing first-in-class inhibitors for newly emerging biological targets, including resistant alleles of existing targets, as well as inhibitors of well-validated targets, such as Her3 and RAS, that have previously been considered recalcitrant to small molecule drug development. Dr. Gray's team developed covalent inhibitors of the T790M mutant of EGFR inspired the development of Osimertinib (AZD9291), now FDA approved for treatment of patients with relapsed lung cancer due to resistance to first generation EGFR inhibitors. Dr. Gray has also developed structure-based, generalized approaches for designing drugs to overcome one of the most common mechanisms of resistance observed against most kinase inhibitor drugs, mutation of the so-called "gatekeeper" residue, which has been observed in resistance to drugs targeting BCR-ABL, c-KIT and PDGFR.

In 2021, Dr. Gray joined Stanford University where he has joined the Stanford Cancer Institute, Chem-H and the Innovative Medicines Accelerator (IMA) to spur the development of prototype drugs.

These contributions have been recognized through numerous awards including the National Science Foundation's Career award in 2007, the Damon Runyon Foundation Innovator award in 2008, the American Association for Cancer Research for Team Science in 2010 and for Outstanding

Achievement in 2011 and the American Chemical Society award for Biological Chemistry in 2011, and the Nancy Lurie Marks endowed professorship in 2015 and the Paul Marks Prize in 2019, and the Hope Funds for Cancer Research in 2023.

ACADEMIC APPOINTMENTS

- Professor, Chemical and Systems Biology
- Member, Bio-X
- Institute Scholar, Sarafan ChEM-H
- Member, Stanford Cancer Institute

Teaching

COURSES

2025-26

- Performing Quantitative Bottom-Up Chemoproteomics: From Theory to Real World Application: BIOS 284 (Win)
- Research Seminar: CSB 270 (Aut, Win, Spr)

2024-25

- Research Seminar: CSB 270 (Aut, Win, Spr)

2023-24

- Research Seminar: CSB 270 (Aut, Win, Spr)

2022-23

- Research Seminar: CSB 270 (Aut, Win, Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Rohan Koodli, Isabel Larus, Siavash Moghadami, Katelyn Randal, Santiago Sanchez, Riley Togashi

Postdoctoral Faculty Sponsor

Brendan Dwyer, Ines Forrest, Qixiang Geng, Sai Gourisankar, Fen Jiang, Brian Josephson, Ji Hyeon Kim, Md Abdullah Al Noman, Ying Qin, Tian Qiu, Jaylissa Torres Robles, Yaning Wang, Zhe Zhuang

Doctoral Dissertation Advisor (AC)

Amy Cho, Trae Dunn, Leyna Duong, Esther Elonga, Ryan Golden, Zixuan Jiang, Basel Karim, Jeonghyeon Kim, Meredith Nix, Hanxi Tang, Jianing Zhong, Xijun Zhu

Doctoral Dissertation Co-Advisor (AC)

Pallas Chou, Michelle Lee, Michelle Tang

Publications

PUBLICATIONS

- **The molecular basis for nuclear pore destruction by a proximity-inducing molecular glue.** *Cell chemical biology*
  Hinshaw, S. M., Yuan, L., Noman, M. A., Martinez, M. J., Colombo, G. M., Dwyer, B. G., Ji, W., Romero, B. A., Forrest, I., Lu, J., Bian, J., Dunn, T. B., Garvin, et al
  2026

- **Activating p53Y220C with a mutant-specific small molecule.** *Nature communications*

Zhu, X., Byun, W. S., Pieńkowska, D. E., Nguyen, K. T., Wang, M., Nettles, S. A., Gourisankar, S., Phillips, N. A., Gerhartz, J., Geng, Q., Qiu, T., Zhong, J., Jiang, et al
2026

- **DNA damage chemical inducers of proximity (DD-CIP) for targeted cancer therapy**
  Qiu, T., Lee, Y., Dwyer, B. G., Tan, Y., Chen, T., Romero, B. A., Wang, Y., Deng, J., Zhang, T., Crabtree, G. R., Hinshaw, S. M., Wong, K., Gray, et al
  AMER ASSOC CANCER RESEARCH.2026: LB025

- **Charged molecular glue discovery enabled by targeted degron display.** *Nature chemical biology*
  Zhuang, Z., Byun, W. S., Chrustowicz, J., Kozicka, Z., Li, V. L., Abeja, D. M., Donovan, K. A., Sepic, S., You, I., Słabicki, M., Fischer, E. S., Hinshaw, S. M., Ebert, et al
  2026

- **Pharmacodynamics of Akt drugs revealed by a kinase-modulatedbioluminescent indicator withBBB-permeable substrate.**
  Wu, Y., Hao, C., Gao, C., Hageman, M., Lee, S., Kirkland, T. A., Gray, N. S., Su, Y., Lin, M. Z.
  AMER ASSOC CANCER RESEARCH.2026: 2129

- **Epigenetic rewiring of BCL6 drives responses and unveils synthetic dependencies in large B cell lymphoma.**
  Yang, H., Bowman, K., Ji, W., Gourisankar, S., Wilson, A. L., Yang, Z., Marszalek, E., Hinshaw, S. M., Zhang, T., Liu, X., Krokhotin, A., Nettles, S., Kundu, et al
  AMER ASSOC CANCER RESEARCH.2026

- **A bivalent molecular glue linking lysine acetyltransferases to oncogene-induced cell death**
  Nix, M., Gourisankar, S., Nettles, S., Bowman, K., Yang, H., Dwyer, B. G., Sarott, R. C., Abuzaid, H., Martinez, M., Krokhotin, A., Chen, L., Davis, M. M., Fernandez, et al
  AMER ASSOC CANCER RESEARCH.2026

- **Hijacking the BRD4-NUT fusion oncoprotein to activate programmed cell death**
  Wang, K., Wang, Y., Qiu, T., Dwyer, B. G., Griffin, D., Shapiro, G. I., French, C. A., Gray, N. S., Crabtree, G. R.
  AMER ASSOC CANCER RESEARCH.2026

- **Targeting EGFR cysteine 775 in EGFR mutant lung cancer**
  Jiang, J., Li, Z., Wang, Y., Collins, S. J., Gottlieb, F. H., Gokhale, P. C., Eck, M. J., Janne, P. A., Che, J., Gray, N. S., Zhang, T.
  AMER ASSOC CANCER RESEARCH.2026

- **Co-targeting EZH2 and TEAD elicits apoptosis through tumor-intrinsic innate immune signaling in Hippo pathway-mutated cancers.**
  Hartley, A., Al-Dulaimi, M., Mahadevan, N. R., Eser, P., Feng, W. W., Thai, T., Tsai, J. A., Weston, C., Tourtillot, N., Booker, M., Kulesza, J., Li, Z., Cohen, et al
  AMER ASSOC CANCER RESEARCH.2026

- **A druggable redox switch on SHP1 controls macrophage inflammation.** *Nature chemical biology*
  Ng, M. Y., Nix, M. N., Du, G., Davidek, I., Burger, N., Shin, S., Toenjes, S., Takeda, H., Cheah Xin Yan, M., Zhang, B., Xiao, H., Wei, S. M., Seo, et al
  2026

- **A small molecule PTER-selective inhibitor reduces food intake and body weight.** *Cell chemical biology*
  Fu, S., Wang, L., Li, V. L., Lyu, X., Wei, W., Shi, X., Deng, S., Barber, J. L., Tahir, U. A., Adams, C., Carson, A., Hidalgo, B., Raffield, et al
  2026

- **A druggable redox switch on SHP1 controls macrophage inflammation.** *bioRxiv : the preprint server for biology*
  Ng, M. Y., Nix, M. N., Du, G., Davidek, I., Burger, N., Shin, S., Toenjes, S., Takeda, H., Yan, M. C., Zhang, B., Xiao, H., Wei, S., Seo, et al
  2026

- **Degraders of the dengue virus capsid protein exhibit differentiated pharmacology relative to capsid inhibitors.** *Nature communications*
  Chakravarty, A., Wang, L. N., Golden, R. P., Li, Z., Donovan, K. A., Afanzar, O., Zhang, Y., Fischer, E. S., Gray, N. S., Yang, P. L.
  2026

- **A small molecule PTER-selective inhibitor reduces food intake and body weight.** *bioRxiv : the preprint server for biology*
  Fu, S., Wang, L., Li, V. L., Lyu, X., Wei, W., Shi, X., Deng, S., Barber, J. L., Tahir, U. A., Adams, C., Carson, A., Hidalgo, B., Raffield, et al
  2026

- **Oncogenic SF3B1 mutations alter the splicing of mRNA noncoding regions to induce a novel therapeutic vulnerability.** *Blood*

Sekrecki, M., Sekrecka, A., Lattupally, R. R., Le, K., Jin, X., Mozes, C., Dwyer, B. G., Zhuang, Z., Romero, B. A., Pineda, J. M., Cao, X., Nguyen, L., Chen, et al

2026

- **Design and Development of DNA Damage Chemical Inducers of Proximity for Targeted Cancer Therapy.** *Journal of the American Chemical Society*

  Qiu, T., Lee, Y. T., Dwyer, B. G., Tan, Y. J., Chen, T., Romero, B. A., Wang, Y., Deng, J., Zhang, T., Crabtree, G. R., Hinshaw, S. M., Wong, K., Gray, et al

  2026

- **An AKR1C3-activated kinase inhibitor prodrug.** *RSC chemical biology*

  Li, Z., Martinez, M., Byun, W. S., Thathireddy, A., Qiu, T., Wang, Y., Katzengruber, L., Chouldjian, A., Lu, W., Ji, W., Che, J., Zhang, T., Hinshaw, et al

  2025

- **Profiling drug sensitivity in CLL B cells after BTK inhibitor progression using a novel drug panel**

  Han, W., Guzman, E., Bhattacharya, A., Sinha, S., Wang, Z., Rabe, K., Anthony, S., Gray, N., Crabtree, G., Braggio, E., Kenderian, S., Parikh, S., Kay, et al

  ELSEVIER.2025: 7407-7408

- **Selective CDK6 Degradation via the KLHDC2 E3 Ubiquitin Ligase** *JOURNAL OF MEDICINAL CHEMISTRY*

  Jeon, E., Kim, Y., Ahn, H., Martinez, M. J., Hwang, K., Cho, S., Dwyer, B. G., Romero, B. A., Hinshaw, S. M., Gray, N. S., Sim, T.

  2025

- **Rewiring the Fusion Oncoprotein EWSR1::FLI1 in Ewing Sarcoma with Bivalent Small Molecules.** *Journal of the American Chemical Society*

  Bond, M. J., Golden, R. P., DiGiovanni, G., Howard, B., Sarott, R. C., Karim, B. A., Gourisankar, S., Alexe, G., Ross, K., Jones, H. M., Dwyer, B. G., Gray, N. S., Stegmaier, et al

  2025

- **Structural basis for the recruitment and selective phosphorylation of Akt by mTORC2.** *Science (New York, N.Y.)*

  Taylor, M. S., Chen, M., Hancock, M., Wranik, M., Miller, B. D., O'Meara, T. R., Palanski, B. A., Ficarro, S. B., Groendyke, B. J., Xiang, Y., Kondo, K. T., Linde-Garelli, K. Y., Lee, et al

  2025: eadv7111

- **Development of FBXO22 Degraders and the Recruitment Ligand 2-Pyridinecarboxyaldehyde (2-PCA).** *Journal of the American Chemical Society*

  Qiu, T., Zhuang, Z., Byun, W. S., Kozicka, Z., Baek, K., Zhong, J., Thornhill, A. M., Ryan, J. K., Donovan, K. A., Fischer, E. S., Ebert, B. L., Gray, N. S.

  2025

- **Unveiling the hidden interactome of CRBN molecular glues with chemoproteomics**

  Baek, K., Metivier, R. J., Burman, S., Bushman, J. W., Yoon, H., Lumpkin, R. J., Ryan, J. K., Abeja, D. M., Lakshminarayan, M., Yue, H., Ojeda, S., Xiong, Y., Che, et al

  ELSEVIER.2025

- **Inhibitors supercharge kinase turnover through native proteolytic circuits.** *Nature*

  Scholes, N. S., Bertoni, M., Comajuncosa-Creus, A., Kladnik, K., Guo, X., Frommelt, F., Hinterndorfer, M., Razumkov, H., Prokofeva, P., Schwalm, M. P., Born, F., Roehm, S., Imrichova, et al

  2025

- **Design and Development of DNA Damage Chemical Inducers of Proximity (DD-CIP) for Targeted Cancer Therapy.** *bioRxiv : the preprint server for biology*

  Qiu, T., Lee, Y. T., Dwyer, B. G., Tan, Y. J., Chen, T., Romero, B. A., Wang, Y., Deng, J., Zhang, T., Crabtree, G. R., Hinshaw, S. M., Wong, K. K., Gray, et al

  2025

- **Novel therapeutics for SF3B1 mutant cancers which exploit the missplicing of DCAF16**

  Sekrecki, M., Sekrecka, A., Lattupally, R., Le, K., Cao, X., Chen, V., Zhuang, Z., Dwyer, B., Zhou, C., Tiwari, C., Gabel, A., Kim, W., Stanley, et al

  ELSEVIER.2025: 1474-1475

- **Therapeutic targeting of the nuclear pore complex with molecular glue degraders in pancreatic cancer**

  Yuan, L., Ji, W., Dwyer, B. G., Lu, J., Bian, J., Colombo, G. M., Martinez, M. J., Fernandez, D., Phillips, N. A., Tang, M. T., Zhou, C. W., Jones, H. M., Calla, et al

AMER ASSOC CANCER RESEARCH.2025

- **Discovery of BRD9 Molecular Glue Degraders That Spare Cardiomyocytes.** *Journal of the American Chemical Society*
  Byun, W. S., Zhuang, Z., Hnatiuk, A. P., Jin, C., Jiang, Z., Baek, K., Chao, E., Donovan, K. A., Fischer, E. S., Mercola, M., Gray, N. S.
  2025
- **Defining the antitumor mechanism of action of a clinical-stage compound as a selective degrader of the nuclear pore complex.** *Cancer discovery*
  Yuan, L., Ji, W., Dwyer, B. G., Lu, J., Bian, J., Colombo, G. M., Martinez, M. J., Fernandez, D., Phillips, N. A., Tang, M. T., Zhou, C. W., Quispe Calla, N. E., Guzman Huancas, et al
  2025
- **Expanding the druggable zinc-finger proteome defines properties of drug-induced degradation.** *Molecular cell*
  Słabicki, M., Park, J., Nowak, R. P., Roy Burman, S. S., Pellman, J., Zou, C., Razumkov, H., Carreiro, J., Rastogi, S., Goldstein, A., Nagiec, M. M., Donovan, K. A., Che, et al
  2025; 85 (16): 3184-3201.e14
- **Development of Degraders and 2-pyridinecarboxyaldehyde (2-PCA) as a recruitment Ligand for FBXO22.** *bioRxiv : the preprint server for biology*
  Qiu, T., Zhuang, Z., Byun, W. S., Kozicka, Z., Baek, K., Zhong, J., Thornhill, A. M., Ryan, J. K., Donovan, K. A., Fischer, E. S., Ebert, B. L., Gray, N. S.
  2025
- **Integrative proteogenomics and forward genetics reveals a novel mitotic vulnerability in triple-negative breast cancer.** *Cancer discovery*
  Neill, N. J., Satpathy, S., Krug, K., Meena, J. K., Ramesh Babu, N., Calderon, C., Reed, D., Weber, M. J., Dobrolecki, L. E., Lewis, A., Sallas, C., Anurag, M., Holloway, et al
  2025
- **Generating Surprisingly Powerful Pharmacology from Chemically Induced Protein Interactions.** *Accounts of chemical research*
  Hinshaw, S. M., Banik, S. M., Gray, N. S.
  2025
- **Rational Design of CDK12/13 and BRD4 Molecular Glue Degraders.** *Angewandte Chemie (International ed. in English)*
  Gray, N. S., Zhuang, Z., Byun, W. S., Kozicka, Z., Donovan, K., Dwyer, B., Thornhill, A., Jones, H., Jiang, Z., Zhu, X., Fischer, E., Thomä, N.
  2025: e202508427
- **Plasmodiumfalciparum protein kinase 6 and hemozoin formation are inhibited by a type II human kinase inhibitor exhibiting antimalarial activity.** *Cell chemical biology*
  Nardella, F., Jiang, T., Wang, L., Bohmer, M. J., Chakraborty, S., Okombo, J., Calla, J., Silva, T. M., Pazicky, S., Che, J., Jeon, J., Vincent, E., Boonyalai, et al
  2025
- **Linking chromatin modifiers to cell death: gain-of-function small molecules to drug oncogenic transcription**
  Gourisankar, S., Krokhotin, A., Ji, W., Sarott, R., Karim, B., Nix, M., Green, M., Crabtree, G., Gray, N.
  ELSEVIER.2025
- **A Bivalent Molecular Glue Linking Lysine Acetyltransferases to Oncogene-induced Cell Death.** *bioRxiv : the preprint server for biology*
  Nix, M. N., Gourisankar, S., Sarott, R. C., Dwyer, B. G., Nettles, S. A., Martinez, M. M., Abuzaid, H., Yang, H., Wang, Y., Simanauskaite, J. M., Romero, B. A., Jones, H. M., Krokhotin, et al
  2025
- **Pharmacodynamics of Akt drugs revealed by a kinase-modulated bioluminescent indicator.** *Nature chemical biology*
  Wu, Y., Hao, C., Gao, C., Hageman, M., Lee, S., Kirkland, T. A., Gray, N. S., Su, Y., Lin, M. Z.
  2025
- **Development of Potent and Selective CK1α Molecular Glue Degraders.** *Journal of medicinal chemistry*
  Geng, Q., Jiang, Z., Byun, W. S., Donovan, K. A., Zhuang, Z., Jiang, F., Jones, H. M., Razumkov, H., Tang, M. T., Sarott, R. C., Fischer, E. S., Corsello, S. M., Hinshaw, et al
  2025
- **Targeted degradation of oncogenic KRASG12V triggers antitumor immunity in lung cancer models.** *The Journal of clinical investigation*
  Li, D., Geng, K., Hao, Y., Gu, J., Kumar, S., Olson, A. T., Kuismi, C. C., Kim, H. M., Pan, Y., Sherman, F., Williams, A. M., Li, Y., Li, et al

2024

- **Disrupting the RNA polymerase II transcription cycle through CDK7 inhibition ameliorates inflammatory arthritis.** *Science translational medicine*
  Chen, X., Shibu, G., Sokolsky, B. A., Soussana, T. N., Fisher, L., Deochand, D. K., Dacic, M., Mantel, I., Ramirez, D. C., Bell, R. D., Zhang, T., Donlin, L. T., Goodman, et al
  2024; 16 (774): eadq5091

- **Rewiring Cancer Drivers to Induce Apoptosis By Transcriptional Chemical Inducers of Proximity in Chronic Lymphocytic Leukemia**
  Han, W., Bhattacharya, A., Ji, W., Karim, B. A., Sarott, R. C., Nix, M., Gourisankar, S., Krokhotin, A., Sinha, S., Wang, Z., Shanafelt, T. D., Parikh, S. A., Gray, et al
  ELSEVIER.2024: 4606-4607

- **Discovery of CRBN-Dependent WEE1 Molecular Glue Degraders from a Multicomponent Combinatorial Library.** *Journal of the American Chemical Society*
  Razumkov, H., Jiang, Z., Baek, K., You, I., Geng, Q., Donovan, K. A., Tang, M. T., Metivier, R. J., Mageed, N., Seo, P., Li, Z., Byun, W. S., Hinshaw, et al
  2024

- **Activating p53Y220C with a Mutant-Specific Small Molecule.** *bioRxiv : the preprint server for biology*
  Zhu, X., Byun, W. S., Pieńkowska, D. E., Nguyen, K. T., Gerhartz, J., Geng, Q., Qiu, T., Zhong, J., Jiang, Z., Wang, M., Sarott, R. C., Hinshaw, S. M., Zhang, et al
  2024

- **Relocalizing transcriptional kinases to activate apoptosis.** *Science (New York, N.Y.)*
  Sarott, R. C., Gourisankar, S., Karim, B., Nettles, S., Yang, H., Dwyer, B. G., Simanauskaite, J. M., Tse, J., Abuzaid, H., Krokhotin, A., Zhang, T., Hinshaw, S. M., Green, et al
  2024; 386 (6717): eadl5361

- **Discovery of electrophilic degraders that exploit SNAr chemistry.** *bioRxiv : the preprint server for biology*
  Zhuang, Z., Byun, W. S., Kozicka, Z., Dwyer, B. G., Donovan, K. A., Jiang, Z., Jones, H. M., Abeja, D. M., Nix, M. N., Zhong, J., Słabicki, M., Fischer, E. S., Ebert, et al
  2024

- **Exploration of the tunability of BRD4 degradation by DCAF16 trans-labelling covalent glues.** *European journal of medicinal chemistry*
  Hassan, M. M., Li, Y. D., Ma, M. W., Teng, M., Byun, W. S., Puvar, K., Lumpkin, R., Sandoval, B., Rutter, J. C., Jin, C. Y., Wang, M. Y., Xu, S., Schmoker, et al
  2024; 279: 116904

- **DCLK1 induces a pro-tumorigenic phenotype to drive gastric cancer progression.** *Science signaling*
  Afshar-Sterle, S., Carli, A. L., O'Keefe, R., Tse, J., Fischer, S., Azimpour, A. I., Baloyan, D., Elias, L., Thilakasiri, P., Patel, O., Ferguson, F. M., Eissmann, M. F., Chand, et al
  2024; 17 (854): eabq4888

- **Unveiling the hidden interactome of CRBN molecular glues with chemoproteomics.** *bioRxiv : the preprint server for biology*
  Baek, K., Metivier, R. J., Roy Burman, S. S., Bushman, J. W., Lumpkin, R. J., Abeja, D. M., Lakshminarayan, M., Yue, H., Ojeda, S., Verano, A. L., Gray, N. S., Donovan, K. A., Fischer, et al
  2024

- **Discovery of Potent Degraders of the Dengue Virus Envelope Protein.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
  Li, Z., Liu, H. Y., He, Z., Chakravarty, A., Golden, R. P., Jiang, Z., You, I., Yue, H., Donovan, K. A., Du, G., Che, J., Tse, J., Che, et al
  2024: e2405829

- **Template-assisted covalent modification underlies activity of covalent molecular glues.** *Nature chemical biology*
  Li, Y. D., Ma, M. W., Hassan, M. M., Hunkeler, M., Teng, M., Puvar, K., Rutter, J. C., Lumpkin, R. J., Sandoval, B., Jin, C. Y., Schmoker, A. M., Ficarro, S. B., Cheong, et al
  2024

- **Discovery of bivalent small molecule degraders of cyclin-dependent kinase 7 (CDK7).** *European journal of medicinal chemistry*
  Ji, W., Du, G., Jiang, J., Lu, W., Mills, C. E., Yuan, L., Jiang, F., He, Z., Bradshaw, G. A., Chung, M., Jiang, Z., Byun, W. S., Hinshaw, et al
  2024; 276: 116613

- **Molecular Bidents with Two Electrophilic Warheads as a New Pharmacological Modality.** *ACS central science*
  Li, Z., Jiang, J., Ficarro, S. B., Beyett, T. S., To, C., Tavares, I., Zhu, Y., Li, J., Eck, M. J., Jänne, P. A., Marto, J. A., Zhang, T., Che, et al
  2024; 10 (6): 1156-1166
- **Down-Regulation of AKT Proteins Slows the Growth of Mutant-KRAS Pancreatic Tumors.** *Cells*
  Chen, C., Jiang, Y., You, I., Gray, N. S., Lin, R. Z.
  2024; 13 (12)
- **Broad-spectrum activity against mosquito-borne flaviviruses achieved by a targeted protein degradation mechanism.** *Nature communications*
  Liu, H. Y., Li, Z., Reindl, T., He, Z., Qiu, X., Golden, R. P., Donovan, K. A., Bailey, A., Fischer, E. S., Zhang, T., Gray, N. S., Yang, P. L.
  2024; 15 (1): 5179
- **Discovery of Potent Degraders of the Dengue Virus Envelope Protein.** *bioRxiv : the preprint server for biology*
  Li, Z., Liu, H. Y., He, Z., Chakravarty, A., Golden, R. P., Jiang, Z., You, I., Yue, H., Donovan, K. A., Du, G., Che, J., Tse, J., Che, et al
  2024
- **Down-regulation of AKT proteins slows the growth of mutant-KRAS pancreatic tumors.** *bioRxiv : the preprint server for biology*
  Chen, C., Jiang, Y. P., You, I., Gray, N. S., Lin, R. Z.
  2024
- **Author Correction: Targeting DCAF5 suppresses SMARCB1-mutant cancer by stabilizing SWI/SNF.** *Nature*
  Radko-Juettner, S., Yue, H., Myers, J. A., Carter, R. D., Robertson, A. N., Mittal, P., Zhu, Z., Hansen, B. S., Donovan, K. A., Hunkeler, M., Rosikiewicz, W., Wu, Z., McReynolds, et al
  2024
- **Reciprocal antagonism of PIN1-APC/CCDH1 governs mitotic protein stability and cell cycle entry.** *Nature communications*
  Ke, S., Dang, F., Wang, L., Chen, J. Y., Naik, M. T., Li, W., Thavamani, A., Kim, N., Naik, N. M., Sui, H., Tang, W., Qiu, C., Koikawa, et al
  2024; 15 (1): 3220
- **Targeting DCAF5 suppresses SMARCB1-mutant cancer by stabilizing SWI/SNF.** *Nature*
  Radko-Juettner, S., Yue, H., Myers, J. A., Carter, R. D., Robertson, A. N., Mittal, P., Zhu, Z., Hansen, B. S., Donovan, K. A., Hunkeler, M., Rosikiewicz, W., Wu, Z., McReynolds, et al
  2024
- **The dual HCK/BTK inhibitor KIN-8194 impairs growth and integrin-mediated adhesion of BTKi-resistant mantle cell lymphoma.** *Leukemia*
  Lantermans, H. C., Ma, F., Kuil, A., van Kesteren, S., Yasinoglu, S., Yang, G., Buhrlage, S. J., Wang, J., Gray, N. S., Kersten, M. J., Treon, S. P., Pals, S. T., Spaargaren, et al
  2024
- **Multiomic profiling of breast cancer cells uncovers stress MAPK-associated sensitivity to AKT degradation.** *Science signaling*
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