Stanford

Or Gozani

Dr. Morris Herzstein Professor

Biology

CONTACT INFORMATION

- **Alternate Contact**

  Lisa Medrano - Administrative Associate

  Email lpereira@stanford.edu

  Tel 650-723-0419

Bio

ACADEMIC APPOINTMENTS

- Professor, Biology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Advanced Fellowship in Aging Research, Harvard/Hartford Foundation (2001-2002)
- Mentored Clinical Scientist Development Award (KO8), NIA (2002 - 2007)
- Career Award in the Biomedical Sciences, Burroughs Wellcome Fund (2003 - 2008)
- Kimmel Scholar Award, Sidney Kimmel Foundation for Cancer Research (2006-2008)
- Terman Fellowship, Fredrick E. Terman Foundation (2006-2008)
- Searle Scholar, Searle Scholars Program (2007-2010)
- Ellison Senior Scholar in Aging, Ellison Medical Foundation (2009-2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Scientific Advisory Board, K36 Therapeutics, Inc. (2021 - present)
- Member, Board of Directors, EpiCypher, Inc. (2014 - present)

PROFESSIONAL EDUCATION

- M.D., Harvard Medical School (1999)
- Ph.D., Harvard Medical School (1999)

LINKS

- Gozani Lab Website: https://gozanilab.stanford.edu

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

We study the molecular mechanisms by which chromatin-signaling networks effect nuclear and epigenetic programs, and how dysregulation of these pathways leads to disease. Our work centers on the biology of lysine methylation, a principal chromatin-regulatory mechanism that directs epigenetic processes. We study how lysine methylation events are generated, sensed, and transduced, and how these chemical marks integrate with other nuclear signaling systems to govern diverse cellular functions.

Teaching

COURSES

2025-26

- Biochemistry & Molecular Biology: BIO 83 (Aut)
- Molecular Epigenetics in Health and Disease: BIO 153, BIO 253 (Win)

2024-25

- Biochemistry & Molecular Biology: BIO 83 (Aut)

2023-24

- Biochemistry & Molecular Biology: BIO 83 (Aut)

2022-23

- Biochemistry & Molecular Biology: BIO 83 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Caterina Colon, Gina Duronio, Nicole Haseley, Isabel Jabara, Michelle Kinney, Korbin Kleczko, Weaverly Colleen Lee, Austin Murchison, Masaru Shimasawa, Wendy Trieu

Postdoctoral Faculty Sponsor

Hanyang Dong, Sabeen Ikram, Moritz Jakab

Doctoral Dissertation Advisor (AC)

Lauren Buie, Elizabeth Ener, Luis Hernandez, Maddie Hinkley, Ellen Morgan, Pradnya Narkhede, Andrew Reiter

Doctoral Dissertation Co-Advisor (AC)

Carly Stein

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)
- Cancer Biology (Phd Program)

Publications

PUBLICATIONS

- **NSD2 inhibitors rewire chromatin to treat lung and pancreatic cancers.** *Nature*
  Jeong, J., Hausmann, S., Dong, H., Szczepski, K., Flores, N. M., Garcia Gonzalez, A., Shi, L., Lu, X., Lempiäinen, J., Jakab, M., Zeng, L., Chasan, T., Bareke, et al

2025

- **SMYD5 methylation of rpL40 links ribosomal output to gastric cancer.** *Nature*
  Park, J., Wu, J., Szkop, K. J., Jeong, J., Jovanovic, P., Husmann, D., Flores, N. M., Francis, J. W., Chen, Y. C., Benitez, A. M., Zahn, E., Song, S., Ajani, et al
  2024

- **Epigenetics and beyond: targeting writers of protein lysine methylation to treat disease.** *Nature reviews. Drug discovery*
  Bhat, K. P., Ümit Kaniskan, H. n., Jin, J. n., Gozani, O. n.
  2021

- **Elevated NSD3 histone methylation activity drives squamous cell lung cancer.** *Nature*
  Yuan, G. n., Flores, N. M., Hausmann, S. n., Lofgren, S. M., Kharchenko, V. n., Angulo-Ibanez, M. n., Sengupta, D. n., Lu, X. n., Czaban, I. n., Azhibek, D. n., Vicent, S. n., Fischle, W. n., Jaremko, et al
  2021

- **Molecular basis of nucleosomal H3K36 methylation by NSD methyltransferases.** *Nature*
  Li, W., Tian, W., Yuan, G., Deng, P., Sengupta, D., Cheng, Z., Cao, Y., Ren, J., Qin, Y., Zhou, Y., Jia, Y., Gozani, O., Patel, et al
  2020

- **METTL13 Methylation of eEF1A Increases Translational Output to Promote Tumorigenesis** *CELL*
  Liu, S., Hausmann, S., Carlson, S., Fuentes, M., Francis, J., Pillai, R., Lofgren, S., Hulea, L., Tandoc, K., Lu, J., Li, A., Nicholas Dang Nguyen, Caporicci, M., et al
  2019; 176 (3): 491-+

- **SETD3 is an actin histidine methyltransferase that prevents primary dystocia** *NATURE*
  Wilkinson, A. W., Diep, J., Dai, S., Liu, S., Ooi, Y., Song, D., Li, T., Horton, J. R., Zhang, X., Liu, C., Trivedi, D. V., Ruppel, K. M., Vilches-Moure, et al
  2019; 565 (7739): 372-+

- **Histone lysine methyltransferases in biology and disease.** *Nature structural & molecular biology*
  Husmann, D. n., Gozani, O. n.
  2019; 26 (10): 880–89

- **SMYD3 links lysine methylation of MAP3K2 to Ras-driven cancer.** *Nature*
  Mazur, P. K., Reynoird, N., Khatri, P., Jansen, P. W., Wilkinson, A. W., Liu, S., Barbash, O., Van Aller, G. S., Huddleston, M., Dhanak, D., Tummino, P. J., Kruger, R. G., Garcia, et al
  2014; 510 (7504): 283-287

- **The BAH domain of ORC1 links H4K20me2 to DNA replication licensing and Meier-Gorlin syndrome** *NATURE*
  Kuo, A. J., Song, J., Cheung, P., Ishibe-Murakami, S., Yamazoe, S., Chen, J. K., Patel, D. J., Gozani, O.
  2012; 484 (7392): 115-?

- **NSD2 Links Dimethylation of Histone H3 at Lysine 36 to Oncogenic Programming** *MOLECULAR CELL*
  Kuo, A. J., Cheung, P., Chen, K., Zee, B. M., Kioi, M., Lauring, J., Xi, Y., Park, B. H., Shi, X., Garcia, B. A., Li, W., Gozani, O.
  2011; 44 (4): 609-620

- **RAG2 PHD finger couples histone H3 lysine 4 trimethylation with V(D)J recombination** *NATURE*
  Matthews, A. G., Kuo, A. J., Ramon-Maiques, S., Han, S., Champagne, K. S., Ivanov, D., Gallardo, M., Carney, D., Cheung, P., Ciccone, D. N., Walter, K. L., Utz, P. J., Shi, et al
  2007; 450 (7172): 1106-U18

- **ING2 PHD domain links histone H3 lysine 4 methylation to active gene repression** *NATURE*
  Shi, X., Hong, T., Walter, K. L., Ewalt, M., Michishita, E., Hung, T., Carney, D., Pena, P., Lan, F., Kaadige, M. R., Lacoste, N., Cayrou, C., Davrazou, et al
  2006; 442 (7098): 96-99

- **NSD2 targeting reverses plasticity and drug resistance in prostate cancer.** *Nature*
  Li, J. J., Vasciaveo, A., Karagiannis, D., Sun, Z., Gretarsson, K. H., Chen, X., Ouerfelli, O., Socciarelli, F., Frankenstein, Z., Dong, H., Zou, M., Yuan, W., Yang, et al
  2025

- **A needed nomenclature for nucleosomes.** *Molecular cell*
  Keogh, M. C., Almouzni, G., Andrews, A. J., Armache, K. J., Arrowsmith, C. H., Baek, S. H., Bedford, M. T., Bernstein, E., Côté, J., David, Y., Denu, J. M., Fierz, B., Garcia, et al
  2025; 85 (19): 3554-3561

- **SETD2 suppresses tumorigenesis in a KRASG12C-driven lung cancer model, and its catalytic activity is regulated by histone acetylation.** *eLife*
  Mack, R. J., Flores, N. M., Fox, G. C., Dong, H., Cebeci, M., Hausmann, S., Chasan, T., Dowen, J. M., Strahl, B. D., Mazur, P. K., Gozani, O.
  2025; 14

- **SETD2 suppresses tumorigenesis in a KRASG12C-driven lung cancer model and its catalytic activity is regulated by histone acetylation.** *bioRxiv : the preprint server for biology*
  Mack, R. J., Flores, N. M., Fox, G. C., Dong, H., Cebeci, M., Hausmann, S., Chasan, T., Dowen, J. M., Strahl, B. D., Mazur, P. K., Gozani, O.
  2025

- **Author Correction: Cytoskeleton remodeling induced by SMYD2 methyltransferase drives breast cancer metastasis.** *Cell discovery*
  Casanova, A. G., Roth, G. S., Hausmann, S., Lu, X., Bischoff, L. J., Froeliger, E. M., Belmudes, L., Bourova-Flin, E., Flores, N. M., Benitez, A. M., Chasan, T., Caporicci, M., Vayr, et al
  2024; 10 (1): 34

- **FAM86A methylation of eEF2 links mRNA translation elongation to tumorigenesis.** *Molecular cell*
  Francis, J. W., Hausmann, S., Ikram, S., Yin, K., Mealey-Farr, R., Flores, N. M., Trinh, A. T., Chasan, T., Thompson, J., Mazur, P. K., Gozani, O.
  2024

- **Cytoskeleton remodeling induced by SMYD2 methyltransferase drives breast cancer metastasis.** *Cell discovery*
  Casanova, A. G., Roth, G. S., Hausmann, S., Lu, X., Bischoff, L. J., Froeliger, E. M., Belmudes, L., Bourova-Flin, E., Flores, N. M., Benitez, A. M., Chasan, T., Caporicci, M., Vayr, et al
  2024; 10 (1): 12

- **Epigenetic balance ensures mechanistic control of MLL amplification and rearrangement.** *Cell*
  Gray, Z. H., Chakraborty, D., Duttweiler, R. R., Alekbaeva, G. D., Murphy, S. E., Chetal, K., Ji, F., Ferman, B. I., Honer, M. A., Wang, Z., Myers, C., Sun, R., Kaniskan, et al
  2023

- **Functional epigenomics: chromatin complexity untangled.** *Nature structural & molecular biology*
  Mack, R., Gozani, O.
  2023

- **Targeting KDM2A Enhances T Cell Infiltration in NSD1-Deficient Head and Neck Squamous Cell Carcinoma.** *Cancer research*
  Chen, C., Shin, J. H., Fang, Z., Brennan, K., Horowitz, N. B., Pfaff, K. L., Welsh, E. L., Rodig, S. J., Gevaert, O., Gozani, O., Uppaluri, R., Sunwoo, J. B.
  2023

- **The FAM86 domain of FAM86A confers substrate specificity to promote EEF2-Lys525 methylation.** *The Journal of biological chemistry*
  Francis, J. W., Shao, Z., Narkhede, P., Trinh, A. T., Lu, J., Song, J., Gozani, O.
  2023: 104842

- **Antibody toolkit to investigate eEF1A methylation dynamics in mRNA translation elongation.** *The Journal of biological chemistry*
  Mealey-Farr, R., Jeong, J., Park, J., Liu, S., Hausmann, S., Francis, J. W., Angulo Ibanez, M., Cho, J., Chua, K., Mazur, P. K., Gozani, O.
  2023: 104747

- **Tip60-mediated H2A.Z acetylation promotes neuronal fate specification and bivalent gene activation.** *Molecular cell*
  Janas, J. A., Zhang, L., Luu, J. H., Demeter, J., Meng, L., Marro, S. G., Mall, M., Mooney, N. A., Schaukowitch, K., Ng, Y. H., Yang, N., Huang, Y., Neumayer, et al
  2022

- **METTL21A inhibits pancreatic ductal adenocarcinoma tumorigenesis through methylation of HSPA1/8.**
  Yang, X., Zoabi, M., Hausmann, S., Flores, N. M., Lu, X., Wu, J., Morales-Benitez, A., Gozani, O., Mazur, P. K.
  AMER ASSOC CANCER RESEARCH.2022: 55

- **Structure-function analysis of enterovirus protease 2A in complex with its essential host factor SETD3.** *Nature communications*

Peters, C. E., Schulze-Gahmen, U., Eckhardt, M., Jang, G. M., Xu, J., Pulido, E. H., Bardine, C., Craik, C. S., Ott, M., Gozani, O., Verba, K. A., Hüttenhain, R., Carette, et al
2022; 13 (1): 5282

- **Loss-of-function and missense variants in NSD2 cause decreased methylation activity and are associated with a distinct developmental phenotype.** *Genetics in medicine : official journal of the American College of Medical Genetics*
  Zanoni, P., Steindl, K., Sengupta, D., Joset, P., Bahr, A., Sticht, H., Lang-Muritano, M., van Ravenswaaij-Arts, C. M., Shinawi, M., Andrews, M., Attie-Bitach, T., Maystadt, I., Belnap, et al
  2021; 23 (8): 1474-1483

- **Chemical linguistics: Reading the modified proteome.** *Molecular cell*
  Coan, J. P., Liu, S., Gozani, O.
  2021; 81 (12): 2501-2503

- **Repression of CTSG, ELANE and PRTN3-mediated histone H3 proteolytic cleavage promotes monocyte-to-macrophage differentiation.** *Nature immunology*
  Cheung, P., Schaffert, S., Chang, S. E., Dvorak, M., Donato, M., Macaubas, C., Foecke, M. H., Li, T., Zhang, L., Coan, J. P., Schulert, G. S., Grom, A. A., Henderson, et al
  2021

- **DNMT1 reads heterochromatic H4K20me3 to reinforce LINE-1 DNA methylation.** *Nature communications*
  Ren, W., Fan, H., Grimm, S. A., Kim, J. J., Li, L., Guo, Y., Petell, C. J., Tan, X., Zhang, Z., Coan, J. P., Yin, J., Kim, D. I., Gao, et al
  2021; 12 (1): 2490

- **NSD2 dimethylation at H3K36 promotes lung adenocarcinoma pathogenesis.** *Molecular cell*
  Sengupta, D., Zeng, L., Li, Y., Hausmann, S., Ghosh, D., Yuan, G., Nguyen, T. N., Lyu, R., Caporicci, M., Morales Benitez, A., Coles, G. L., Kharchenko, V., Czaban, et al
  2021

- **Multivalent tumor suppressor adenomatous polyposis coli promotes Axin biomolecular condensate formation and efficient beta-catenin degradation.** *Scientific reports*
  Li, T., Ren, J., Husmann, D., Coan, J. P., Gozani, O., Chua, K. F.
  2020; 10 (1): 17425

- **Direct readout of heterochromatic H3K9me3 regulates DNMT1-mediated maintenance DNA methylation.** *Proceedings of the National Academy of Sciences of the United States of America*
  Ren, W., Fan, H., Grimm, S. A., Guo, Y., Kim, J. J., Yin, J., Li, L., Petell, C. J., Tan, X., Zhang, Z., Coan, J. P., Gao, L., Cai, et al
  2020

- **Methyltransferase-like 21C (METTL21C) methylates alanine tRNA synthetase at Lys-943 in muscle tissue.** *The Journal of biological chemistry*
  Zoabi, M., Zhang, L., Li, T., Elias, J. E., Carlson, S. M., Gozani, O.
  2020

- **An engineered variant of SETD3 methyltransferase alters target specificity from histidine to lysine methylation.** *The Journal of biological chemistry*
  Dai, S. n., Horton, J. R., Wilkinson, A. W., Gozani, O. n., Zhang, X. n., Cheng, X. n.
  2020

- **SETD5-Coordinated Chromatin Reprogramming Regulates Adaptive Resistance to Targeted Pancreatic Cancer Therapy.** *Cancer cell*
  Wang, Z. n., Hausmann, S. n., Lyu, R. n., Li, T. M., Lofgren, S. M., Flores, N. M., Fuentes, M. E., Caporicci, M. n., Yang, Z. n., Meiners, M. J., Cheek, M. A., Howard, S. A., Zhang, et al
  2020

- **Binding to medium and long chain fatty acyls is a common property of HEAT and ARM repeat modules.** *Scientific reports*
  Li, T., Coan, J. P., Krajewski, K., Zhang, L., Elias, J. E., Strahl, B. D., Gozani, O., Chua, K. F.
  2019; 9 (1): 14226

- **Structural basis for the target specificity of actin histidine methyltransferase SETD3.** *Nature communications*
  Dai, S., Horton, J. R., Woodcock, C. B., Wilkinson, A. W., Zhang, X., Gozani, O., Cheng, X.
  2019; 10 (1): 3541

- **HeartBioPortal.** *Circulation. Genomic and precision medicine*
  Khomtchouk, B. B., Vand, K. A., Koehler, W. C., Tran, D. T., Middlebrook, K., Sudhakaran, S., Nelson, C. S., Gozani, O., Assimes, T. L.
  2019; 12 (4): e002426

- **Enterovirus pathogenesis requires the host methyltransferase SETD3.** *Nature microbiology*
  Diep, J. n., Ooi, Y. S., Wilkinson, A. W., Peters, C. E., Foy, E. n., Johnson, J. R., Zengel, J. n., Ding, S. n., Weng, K. F., Laufman, O. n., Jang, G. n., Xu, J. n., Young, et al
  2019

- **METTL13 Methylation of eEF1A Increases Translational Output to Promote Tumorigenesis.** *Cell*
  Liu, S., Hausmann, S., Carlson, S. M., Fuentes, M. E., Francis, J. W., Pillai, R., Lofgren, S. M., Hulea, L., Tandoc, K., Lu, J., Li, A., Nguyen, N. D., Caporicci, et al
  2018

- **SETD3 is an actin histidine methyltransferase that prevents primary dystocia.** *Nature*
  Wilkinson, A. W., Diep, J. n., Dai, S. n., Liu, S. n., Ooi, Y. S., Song, D. n., Li, T. M., Horton, J. R., Zhang, X. n., Liu, C. n., Trivedi, D. V., Ruppel, K. M., Vilches-Moure, et al
  2018

- **RBM25 is a global splicing factor promoting inclusion of alternatively spliced exons and is itself regulated by lysine mono-methylation** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Carlson, S. M., Soulette, C. M., Yang, Z., Elias, J. E., Brooks, A. N., Gozani, O.
  2017; 292 (32): 13381–90

- **Characterization of H3.3K36M as a tool to study H3K36 methylation in cancer cells** *EPIGENETICS*
  Sankaran, S. M., Gozani, O.
  2017; 12 (11): 917–22

- **Nonhistone Lysine Methylation in the Regulation of Cancer Pathways.** *Cold Spring Harbor perspectives in medicine*
  Carlson, S. M., Gozani, O.
  2016; 6 (11)

- **Molecular and Neural Functions of Rai1, the Causal Gene for Smith-Magenis Syndrome.** *Neuron*
  Huang, W., Guenthner, C. J., Xu, J., Nguyen, T., Schwarz, L. A., Wilkinson, A. W., Gozani, O., Chang, H. Y., Shamloo, M., Luo, L.
  2016; 92 (2): 392-406

- **Systematic Analysis of Known and Candidate Lysine Demethylases in the Regulation of Myoblast Differentiation.** *Journal of molecular biology*
  Munehira, Y., Yang, Z., Gozani, O.
  2016

- **ASH1L Links Histone H3 Lysine 36 Dimethylation to MLL Leukemia.** *Cancer discovery*
  Zhu, L., Li, Q., Wong, S. H., Huang, M., Klein, B. J., Shen, J., Ikenouye, L., Onishi, M., Schneidawind, D., Buechele, C., Hansen, L., Duque-Afonso, J., Zhu, et al
  2016; 6 (7): 770-783

- **ASH1L Links Histone H3 Lysine 36 Dimethylation to MLL Leukemia** *CANCER DISCOVERY*
  Zhu, L., Li, Q., Wong, S. H. K., Huang, M., Klein, B. J., Shen, J., Ikenouye, L., Onishi, M., Schneidawind, D., Buechele, C., Hansen, L., Duque-Afonso, J., Zhu, et al
  2016; 6 (7): 770–83

- **A PWWP Domain of Histone-Lysine N-Methyltransferase NSD2 Binds to Dimethylated Lys-36 of Histone H3 and Regulates NSD2 Function at Chromatin** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Sankaran, S. M., Wilkinson, A. W., Elias, J. E., Gozani, O.
  2016; 291 (16): 8465-8474

- **Coordination of stress signals by the lysine methyltransferase SMYD2 promotes pancreatic cancer** *GENES & DEVELOPMENT*
  Reynoird, N., Mazur, P. K., Stellfeld, T., Flores, N. M., Lofgren, S. M., Carlson, S. M., Brambilla, E., Hainaut, P., Kaznowska, E. B., Arrowsmith, C. H., Khatri, P., Stresemann, C., Gozani, et al
  2016; 30 (7): 772-785

- **Coordination of stress signals by the lysine methyltransferase SMYD2 promotes pancreatic cancer.** *Genes & development*
  Reynoird, N., Mazur, P. K., Stellfeld, T., Flores, N. M., Lofgren, S. M., Carlson, S. M., Brambilla, E., Hainaut, P., Kaznowska, E. B., Arrowsmith, C. H., Khatri, P., Stresemann, C., Gozani, et al
  2016; 30 (7): 772-785
- **Histone H4 Lysine 20 (H4K20) Methylation, Expanding the Signaling Potential of the Proteome One Methyl Moiety at a Time.** *Molecular & cellular proteomics*
  van Nuland, R., Gozani, O.
  2016; 15 (3): 755-764
- **Structural Basis for the Unique Multivalent Readout of Unmodified H3 Tail by Arabidopsis ORC1b BAH-PHD Cassette** *STRUCTURE*
  Li, S., Yang, Z., Du, X., Liu, R., Wilkinson, A. W., Gozani, O., Jacobsen, S. E., Patel, D. J., Du, J.
  2016; 24 (3): 486-494
- **The PZP Domain of AF10 Senses Unmodified H3K27 to Regulate DOT1L-Mediated Methylation of H3K79.** *Molecular cell*
  Chen, S., Yang, Z., Wilkinson, A. W., Deshpande, A. J., Sidoli, S., Krajewski, K., Strahl, B. D., Garcia, B. A., Armstrong, S. A., Patel, D. J., Gozani, O.
  2015; 60 (2): 319-327
- **SMYD3 links lysine methylation of MAP3K2 to ras-driven lung cancer**
  Reynoird, N., Mazur, P., Sage, J., Gozani, O.
  EUROPEAN RESPIRATORY SOC JOURNALS LTD.2015
- **SMYD3 links methylation of MAP3K2 to Ras-driven tumors**
  Mazur, P. K., Reynoird, N., Khatri, P., Butte, A. J., Wilkinson, A., Garcia, B., Liu, S., Vermeulen, M., Jansen, P. C., Tummino, P. J., Kruger, R. G., Van Aller, G. S., Barbash, et al
  AMER ASSOC CANCER RESEARCH.2015
- **A Proteomic Strategy Identifies Lysine Methylation of Splicing Factor snRNP70 by the SETMAR Enzyme** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Carlson, S. M., Moore, K. E., Sankaran, S. M., Reynoird, N., Elias, J. E., Gozani, O.
  2015; 290 (19): 12040-12047
- **A Meier-Gorlin Syndrome Mutation Impairs the ORC1-Nucleosome Association** *ACS CHEMICAL BIOLOGY*
  Zhang, W., Sankaran, S., Gozani, O., Song, J.
  2015; 10 (5): 1176-1180
- **An unexpected journey: Lysine methylation across the proteome** *BIOCHIMICA ET BIOPHYSICA ACTA-GENE REGULATORY MECHANISMS*
  Moore, K. E., Gozani, O.
  2014; 1839 (12): 1395-1403
- **Emerging Technologies to Map the Protein Methylome** *JOURNAL OF MOLECULAR BIOLOGY*
  Carlson, S. M., Gozani, O.
  2014; 426 (20): 3350-3362
- **Orchestrated recruitment of histone methyltransferases to DNA double strand breaks facilitates 53BP1 binding and proficient repair**
  Tuzon, C. T., Spektor, T. M., Congdon, L. M., Kong, X., Cheung, P., Kuo, A. J., Yokomori, K., Gozani, O., Rice, J. C.
  AMER ASSOC CANCER RESEARCH.2014
- **A molecular threading mechanism underlies Jumonji lysine demethylase KDM2A regulation of methylated H3K36.** *Genes & development*
  Cheng, Z., Cheung, P., Kuo, A. J., Yukl, E. T., Wilmot, C. M., Gozani, O., Patel, D. J.
  2014; 28 (16): 1758-1771
- **Histone-binding domains: strategies for discovery and characterization.** *Biochimica et biophysica acta*
  Wilkinson, A. W., Gozani, O.
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- **Histone-binding domains: Strategies for discovery and characterization** *BIOCHIMICA ET BIOPHYSICA ACTA-GENE REGULATORY MECHANISMS*
  Wilkinson, A. W., Gozani, O.
  2014; 1839 (8): 669-675

- **Nuclear PI5P, Uhrf1, and the road not taken.** *Molecular cell*
  Reynoird, N., Gozani, O.
  2014; 54 (6): 901-903

- **Set5 and Set1 cooperate to repress gene expression at telomeres and retrotransposons.** *Epigenetics*
  Martín, G. M., King, D. A., Green, E. M., Garcia-Nieto, P. E., Alexander, R., Collins, S. R., Krogan, N. J., Gozani, O. P., Morrison, A. J.
  2014; 9 (4): 513-522

- **Proteome-wide enrichment of proteins modified by lysine methylation.** *Nature protocols*
  Carlson, S. M., Moore, K. E., Green, E. M., Martín, G. M., Gozani, O.
  2014; 9 (1): 37-50

- **Nuclear phosphatidylinositol-5-phosphate regulates ING2 stability at discrete chromatin targets in response to DNA damage** *SCIENTIFIC REPORTS*
  Bua, D. J., Martin, G. M., Binda, O., Gozani, O.
  2013; 3

- **A general molecular affinity strategy for global detection and proteomic analysis of lysine methylation.** *Molecular cell*
  Moore, K. E., Carlson, S. M., Camp, N. D., Cheung, P., James, R. G., Chua, K. F., Wolf-Yadlin, A., Gozani, O.
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  Paul, S., Kuo, A., Schalch, T., Vogel, H., Joshua-Tor, L., McCombie, W. R., Gozani, O., Hammell, M., Mills, A. A.
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  Bua, D. J., Martin, G. M., Binda, O., Gozani, O.
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