Stanford

Or Gozani

Dr. Morris Herzstein Professor

Biology

CONTACT INFORMATION

- **Alternate Contact**

  Brenda Koehler - Administrative Associate

  Email bkoehler@stanford.edu

  Tel 650-724-1512

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

2023-24

- Biochemistry & Molecular Biology: BIO 83 (Aut)

2022-23

- Biochemistry & Molecular Biology: BIO 83 (Aut)

2021-22

- Biochemistry & Molecular Biology: BIO 83 (Aut)

2020-21

- Biochemistry & Molecular Biology: BIO 83 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Mai Dvorak, Isabel Jabara, Korbin Kleczko, Logan Leak, Weaverly Colleen Lee, Austin Murchison

Postdoctoral Faculty Sponsor

Daisy Dong, Hanyang Dong, Dylan Husmann, Sabeen Ikram, Moritz Jakab, Juhyung Park

Doctoral Dissertation Advisor (AC)

Robert Farr, Luis Hernandez, Jinho Jeong, Ricardo Mack, Pradnya Narkhede

Doctoral Dissertation Co-Advisor (AC)

Andrew Reiter

Undergraduate Major Advisor

Roger Xia

Doctoral (Program)

Robert Farr, Jinho Jeong

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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

- **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

- **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

- **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

- **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 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

- **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.
  2013; 50 (3): 444-456

- **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-?

- **Methylation of H4 lysines 5, 8 and 12 by yeast Set5 calibrates chromatin stress responses** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*
  Green, E. M., Mas, G., Young, N. L., Garcia, B. A., Gozani, O.
  2012; 19 (3): 361-363

- **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

- **Lysine methylation of the NF-kappa B subunit RelA by SETD6 couples activity of the histone methyltransferase GLP at chromatin to tonic repression of NF-kappa B signaling** *NATURE IMMUNOLOGY*
  Levy, D., Kuo, A. J., Chang, Y., Schaefer, U., Kitson, C., Cheung, P., Espejo, A., Zee, B. M., Liu, C. L., Tangsombatvisit, S., Tennen, R. I., Kuo, A. Y., Tanjing, et al
  2011; 12 (1): 29-U47

- **ING4 Mediates Crosstalk between Histone H3 K4 Trimethylation and H3 Acetylation to Attenuate Cellular Transformation** *MOLECULAR CELL*
  Hung, T., Binda, O., Champagne, K. S., Kuo, A. J., Johnson, K., Chang, H. Y., Simon, M. D., Kutateladze, T. G., Gozani, O.
  2009; 33 (2): 248-256

- **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

- **Modulation of p53 function by SET8-mediated methylation at lysine 382** *MOLECULAR CELL*
  Shi, X., Kachirskaia, L., Yamaguchi, H., West, L. E., Wen, H., Wang, E. W., Dutta, S., Appella, E., Gozani, O.
  2007; 27 (4): 636-646

- **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

- **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

- **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

- **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. 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
- **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.
  2014; 1839 (8): 669-675

- **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

- **Chd5 requires PHD-mediated histone 3 binding for tumor suppression.** *Cell reports*
  Paul, S., Kuo, A., Schalch, T., Vogel, H., Joshua-Tor, L., McCombie, W. R., Gozani, O., Hammell, M., Mills, A. A.
  2013; 3 (1): 92-102

- **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: 2137-?

- **Phf19 links methylated Lys36 of histone H3 to regulation of Polycomb activity** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*
  Ballare, C., Lange, M., Lapinaite, A., Martin, G. M., Morey, L., Pascual, G., Liefke, R., Simon, B., Shi, Y., Gozani, O., Carlomagno, T., Aznar Benitah, S., Di Croce, et al
  2012; 19 (12): 1257-?

- **Everybody's welcome: The big tent approach to epigenetic drug discovery.** *Drug discovery today. Therapeutic strategies*
  Green, E. M., Gozani, O.
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- **On silico peptide microarrays for high-resolution mapping of antibody epitopes and diverse protein-protein interactions** *NATURE MEDICINE*
  Price, J. V., Tangsombatvisit, S., Xu, G., Yu, J., Levy, D., Baechler, E. C., Gozani, O., Varma, M., Utz, P. J., Liu, C. L.
  2012; 18 (9): 1434-?

- **SIRT7 links H3K18 deacetylation to maintenance of oncogenic transformation** *NATURE*
  Barber, M. F., Michishita-Kioi, E., Xi, Y., Tasselli, L., Kioi, M., Moqtaderi, Z., Tennen, R. I., Paredes, S., Young, N. L., Chen, K., Struhl, K., Garcia, B. A., Gozani, et al
  2012; 487 (7405): 114-?

- **New marks on the block Set5 methylates H4 lysines 5, 8 and 12** *NUCLEUS-AUSTIN*
  Green, E. M., Morrison, A. J., Gozani, O.
  2012; 3 (4): 335-339

- **Methylation by Set9 modulates FoxO3 stability and transcriptional activity** *AGING-US*
  Calnan, D. R., Webb, A. E., White, J. L., Stowe, T. R., Goswami, T., Shi, X., Espejo, A., Bedford, M. T., Gozani, O., Gygi, S. P., Brunet, A.
  2012; 4 (7): 462-479

- **Smyd3 catalyzes a novel methylation mark and regulates cancer cell proliferation**
  VanAller, G. S., Reynoird, N., Barbash, O., Huddleston, M. J., Le, B., Annan, R. S., Garcia, B. A., Tummino, P. J., Gozani, O., Kruger, R. G.
  AMER ASSOC CANCER RESEARCH.2012

- **Smyd3 regulates cancer cell phenotypes and catalyzes histone H4 lysine 5 methylation** *EPIGENETICS*
  Van Aller, G. S., Reynoird, N., Barbash, O., Huddleston, M., Liu, S., Zmoos, A., McDevitt, P., Sinnamon, R., Le, B., Mas, G., Annan, R., Sage, J., Garcia, et al
  2012; 7 (4): 340-343

- **Lysine Methylation and Regulation of Gene Expression Programs**
  Gozani, O.
  FEDERATION AMER SOC EXP BIOL.2012

- **Specific post-translational histone modifications of neutrophil extracellular traps as immunogens and potential targets of lupus autoantibodies** *ARTHRITIS RESEARCH & THERAPY*
  Liu, C. L., Tangsombatvisit, S., Rosenberg, J. M., Mandelbaum, G., Gillespie, E. C., Gozani, O. P., Alizadeh, A. A., Utz, P. J.
  2012; 14 (1)

- **Specific post-translational histone modifications of neutrophil extracellular traps as immunogens and potential targets of lupus autoantibodies (vol 14, R25, 2012)** *ARTHRITIS RESEARCH & THERAPY*
  Liu, C. L., Tangsombatvisit, S., Rosenberg, J. M., Mandelbaum, G., Gillespie, E. C., Gozani, O. P., Alizadeh, A. A., Utz, P. J.
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- **Structure-activity relationships of methyl-lysine reader antagonists** *MEDCHEMCOMM*
  Herold, J. M., James, L. I., Korboukh, V. K., Gao, C., Coil, K. E., Bua, D. J., Norris, J. L., Kireev, D. B., Brown, P. J., Jin, J., Janzen, W. P., Gozani, O., Frye, et al
  2012; 3 (1): 45-51

- **Correction: Specific post-translational histone modifications of neutrophil extracellular traps as immunogens and potential targets of lupus autoantibodies.** *Arthritis research & therapy*
  Liu, C. L., Tangsombatvisit, S., Rosenberg, J. M., Mandelbaum, G., Gillespie, E. C., Gozani, O. P., Alizadeh, A. A., Utz, P. J.
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- **A proteomic approach for the identification of novel lysine methyltransferase substrates** *EPIGENETICS & CHROMATIN*
  Levy, D., Liu, C. L., Yang, Z., Newman, A. M., Alizadeh, A. A., Utz, P. J., Gozani, O.

2011; 4

- **Hypoxia-induced methylation of a pontin chromatin remodeling factor** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Lee, J. S., Kim, Y., Bhin, J., Shin, H. R., Nam, H. J., Lee, S. H., Yoon, J., Binda, O., Gozani, O., Hwang, D., Baek, S. H.
  2011; 108 (33): 13510-13515
- **CUL4B: Trash Talking at Chromatin** *MOLECULAR CELL*
  Green, E. M., Gozani, O.
  2011; 43 (3): 321-323
- **Structural basis of SETD6-mediated regulation of the NF-kB network via methyl-lysine signaling** *NUCLEIC ACIDS RESEARCH*
  Chang, Y., Levy, D., Horton, J. R., Peng, J., Zhang, X., Gozani, O., Cheng, X.
  2011; 39 (15): 6380-6389
- **Regulation of p53 function by lysine methylation** *EPIGENOMICS*
  West, L. E., Gozani, O.
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- **A Chemical Method for Labeling Lysine Methyltransferase Substrates** *CHEMBIOCHEM*
  Binda, O., Boyce, M., Rush, J. S., Palaniappan, K. K., Bertozzi, C. R., Gozani, O.
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- **TRIM24 links a non-canonical histone signature to breast cancer** *NATURE*
  Tsai, W., Wang, Z., Yiu, T. T., Akdemir, K. C., Xia, W., Winter, S., Tsai, C., Shi, X., Schwarzer, D., Plunkett, W., Aronow, B., Gozani, O., Fischle, et al
  2010; 468 (7326): 927-U320
- **The MBT Repeats of L3MBTL1 Link SET8-mediated p53 Methylation at Lysine 382 to Target Gene Repression** *JOURNAL OF BIOLOGICAL CHEMISTRY*
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