Stanford

Daria Mochly-Rosen

George D. Smith Professor of Translational Medicine

Chemical and Systems Biology

NIH Biosketch available Online

CONTACT INFORMATION

- **Alternate Contact**

  Kathy Johnson - Executive Assistant

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Bio

ACADEMIC APPOINTMENTS

- Professor, Chemical and Systems Biology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, SPARK at Stanford
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Medicine Children's Health Center for IBD and Celiac Disease
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Founder and President, SPARK Global, (2015- present)
- Member, Maternal & Child Health Research Institute (MCHRI), Stanford University, (2012- present)
- SPARK Founder and co-Director, Stanford University, School of Medicine, (2006- present)
- Professor, Department of Chemical and Systems Biology, (2001- present)
- Faculty Board of the PhD School in Computer Science, University of Pisa, Italy, (2020- present)
- Member, Wu Tsai Neurosciences Institute, Stanford University, (2020- present)
- Fellow, Institute for Chemical Biology (ChEM-H), Stanford University, (2013- present)
- Board Member and Stanford Representative, California Life Sciences Association (CLSA), (2016-2023)
- Advisory Board, Stanford Program on Research Rigor & Reproducibility (SPORR), (2021-2022)
- Member, UCSF-Stanford CERSI External Advisory Board, (2015-2020)
- Steering Committee Member, Cardiovascular Institute, (2013-2018)
- Associate Director, Cardiovascular Institute, (2007-2011)
- Senior Associate Dean for Research, Stanford University School of Medicine, (2006-2013)

- Member, Cancer Institute at Stanford, (2005- present)
- Professor, by courtesy, Department of Neurosurgery, (2004-2009)
- Chair, Department of Molecular Pharmacology AKA Department of Chemical and Systems Biology, (2002-2006)
- Chief, Division of Chemical Biology, (2001-2002)

HONORS AND AWARDS

- ACTS Team Science award for SPARK at Stanford, Association for Clinical and Translational Science (2025)
- Pantheon Award (for SPARK innovation), California Life Sciences Association (CLSA) (2022)
- Award for Ecosystem Development (for SPARK leadership), National Xconomy Awards (2020)
- Keynote Speaker, License Executives Society (LES) (2020)
- Patient Impact Award (for my SPARK leadership), Cures Within Reach (2020)
- Awardee, Accelerate Australia Ecosystem Leadership Award (2019)
- Distinguished Speaker, UCLA CTSI (2019)
- TEDMED Talk in the session "Catalyzing Great Science", TEDMED (2015)
- Janice Pfeffer Distinguished Lecture Award, International Society for Heart Research (ISHR) (2012)
- The George D Smith Professor of Translational Medicine, School of medicine (2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, UCSF-Stanford CERSI External Advisory Board (2025 - present)
- Board Member, Grand Challenges Advisory Board for the Africa Drug Discovery Accelerator (GC ADDA) (2024 - present)
- Faculty Board of the PhD School in Computer Science, University of Pisa, Italy (2020 - present)
- Board Member, VIB Institutional Advisory Board, Belgium (2018 - present)
- Board Member, Wellcome Science, Innovation and Translation Program Advisory Board (2017 - 2020)
- Board Member, California Life Sciences Association (CLSA) (2016 - 2023)
- Advisory Board Member, Tokyo Medical and Dental University (TMDU) Tokyo (2015 - 2018)
- Board Member, Taiwan National Research Program for Biopharmaceuticals (NRPB) (2011 - 2016)

PROFESSIONAL EDUCATION

- Ph.D., Weizmann Institute, Israel , Chemical Immunology (1983)
- B.S., Tel Aviv University, Israel , Life Sciences (1977)

COMMUNITY AND INTERNATIONAL WORK

- SPARK Global - Translational Scientists without Borders

LINKS

- Mochly-Rosen Lab: https://mochlyrosen.stanford.edu
- SPARK books - 1st and 2nd edition: https://www.amazon.com/s?k=a+practical+guide+to+drug+development+in+academia%3A+The+SPARK+approach&ref=nb_sb_noss_1
- The Life Machines: How Taking Care of Your Mitochondria Can Transform Your Health: https://www.amazon.com/dp/1668057980/?bestFormat=true&k=the%20life%20machines%20by%20daria%20mochly-rosen

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

We are a multi-disciplinary research lab that includes chemists, biochemists, biologists and physician scientists. We develop pharmacological agents and apply them to understand molecular and cellular events under basal and disease conditions using in vitro, in culture and in vivo models.

There are several research areas: two use peptide inhibitors and two to small molecules.
1. We study how protein-protein interactions govern cell signaling (Science, 1995). Using rational approaches, we identify short peptide inhibitors of intracellular protein-protein interactions to interfere with signal transduction under basal and pathological conditions (Nature Biotechnology, 1998). This rational approach led to the discovery of the only highly selective protein kinase C (PKC) inhibitors and activators. These peptide regulators of PKC identified the role of this family of enzymes in a number of cellular responses. Importantly, these peptide regulators are useful as therapeutics in a variety of animal models of human diseases, including myocardial infarction and heart failure (Nature Review Drug Discovery, 2013). A phase IIa study in humans demonstrated that one of the peptide inhibitors is efficacious in reducing cardiac damage in myocardial infarction patients. The study was carried out by KAI Pharmaceuticals that was co-founded with Dr. Leon Chen (a graduate student from the lab) in 2002. The company was acquired by Amgen in 2012 and one of KAI's drug was approved in Europe (2016). Current lab efforts focus on rationally generating substrate-specific inhibitors of the multi-substrate kinase, delta PKC (Qvit, J Am Chem Soc 2016; Qvit, Angewante 2016).

2. Recent effort focuses on rational design of inhibitors and activators of large GTPases that regulate mitochondrial dynamics (fusion and fission; Kornfeld, Circ Res 2015). One peptide inhibitor of pathological mitochondrial fission (Qi, JCS 2013; Guo, JCI 2013) is now being developed in Mitoconix (founded in 2016), as a treatment for Huntington's disease and other neurodegenerative diseases (Distanik, J Exp Med, 2016). Another peptide may provide a treatment for Charcot-Marie-Tooth II (Franco, Nature, 2016).

3. We unexpectedly identified aldehyde dehydrogenase 2 (ALDH2), the rate determining enzyme in ethanol metabolism, as a key regulator of cell survival under oxidative stress. We designed a novel assay to screen for activators of ALDH2, called Aldas (for ALDH activators) Science, 2008). Importantly, Aldas correct a structural mutation in ALDH2 found in ~0.5 billion East Asians and therefore represents a new class of drugs that serve as molecular chaperons (Nature Structure and Molecular Biology, 2010). Aldas also prevent nitroglycerin-induced tolerance and improves outcome after myocardial infarction(Science Translational Medicine, 2011). Very few selective activators of enzymes have been described. This research led to founding ALDEA Pharma with Dr. Che-Hong Chen, a senior scientist in the lab (2011); licensed to Foresee (2016). We also founded STAR, an international research organization for ALDH2 enzymopathy (Gross, Ann Rev Tox, 2015). Because defense from oxidative stress is determining cell survival, we examines the benefit of activating different ALDHs in a variety of diseases, including in Fanconi Anemia and radiation disease. Using a small molecule, we also 'hijacked' ALDH3A1 to metabolize the substrate of the mutated ALDH2 (Chen, PNAS, 2016).

4. Current efforts focus also on identifying small molecules that correct genetic defects in another critical enzyme for cell protection, glucose-6-phosphate dehydrogenase (G6PD). Mutations in G6PD lead to the second most common enzymopathy (~350 million people). Using high-throughput screening, in silico design and synthetic organic chemistry and X-ray crystallography, small molecule activators that increase the catalytic activity of the most common G6PD mutations are under development.

Teaching

COURSES

2025-26

- Drug Discovery and Development Seminar Series: CSB 242 (Aut, Win, Spr)
- Research Seminar: CSB 270 (Aut, Win, Spr)

2024-25

- A Practical Approach to Drug Discover and Development: CSB 240B (Spr)
- A Practical Approach to Drug Discovery and Development: CSB 240A (Win)
- Drug Discovery and Development Seminar Series: CSB 242 (Aut, Win, Spr)
- Research Seminar: CSB 270 (Aut, Win, Spr)

2023-24

- Drug Discovery and Development Seminar Series: CSB 242 (Aut, Win, Spr)
- Research Seminar: CSB 270 (Aut, Win, Spr)

2022-23

- A Practical Approach to Drug Discover and Development: CSB 240B (Spr)
- A Practical Approach to Drug Discovery and Development: CSB 240A (Win)
- Drug Discovery and Development Seminar Series: CSB 242 (Aut, Win, Spr)
- Research Seminar: CSB 270 (Aut, Win, Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Alex Van Elgort

Postdoctoral Faculty Sponsor

Abir Mondal, Sharon Tian

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Cardiovascular Medicine (Fellowship Program)
- Chemical and Systems Biology (Phd Program)
- Neurosciences (Phd Program)
- Pediatric Nephrology (Fellowship Program)

Publications

PUBLICATIONS

- **The Life Machines: How Taking Care of Your Mitochondria Can Transform Your Health**
  Mochly-Rosen, D., Rosen, E.
  S&S/Simon Element.2025
- **SPARKing academic technologies across the valley of death.** *Nature biotechnology*
  Kim, J. S., Kargotich, S., Lee, S. H., Yajima, R., Garcia, A. A., Ehrenkaufer, G., Romeo, M., Maria, P. S., Grimes, K. V., Mochly-Rosen, D.
  2024; 42 (2): 339-342
- **A Practical Guide to Drug Development in Academia The SPARK Approach Preface** *PRACTICAL GUIDE TO DRUG DEVELOPMENT IN ACADEMIA: THE SPARK APPROACH*
  Mochly-Rosen, D.
  edited by MochlyRosen, D., Grimes, K.
  2014: VII-VIII

- **A Practical Guide to Drug Development in Academia: the SPARK Approach (2nd Edition)**
  edited by Mochly-Rosen, D., Grimes, K. V.
  Springer.2014
- **Increased susceptibility to 4-HNE-induced toxicity and impaired development in a model of ALDH4A1-deficient pediatric epilepsy carrying the S352L variant.** *Communications biology*
  Kraemer, B. R., Heo, G., Chen, C. H., Mochly-Rosen, D.
  2026
- **The future of academia-pharma partnerships for novel drug discovery: a better path to success?** *Expert opinion on drug discovery*
  Romeo, M., Ehrenkaufer, G., Kim, J., Mochly-Rosen, D.
  2025: 1-5
- **Inhibition of DRP1-FIS1-Mediated mitochondrial fission as a novel strategy to prevent gvhd**
  Yan, H., Vijayan, V., Chiang, C., Zheng, X., Lopez, I., Prentiss, K., Baker, J., Mochly-Rosen, D., Negrin, R., Weinberg, K., Haileselassie, B.
  ELSEVIER.2025: 2310
- **Low Alanine Aminotransferase Levels in Alcohol Consuming Male Subjects, Carriers of the Common ALDH2 Deficient Variant, ALDH2*2.** *Hepatology research : the official journal of the Japan Society of Hepatology*
  Seike, T., Chen, C. H., Mizukoshi, E., Mochly-Rosen, D.
  2025
- **Corrigendum: Novel and prevalent non-East Asian ALDH2 variants; implications for global susceptibility to aldehydes' toxicity EBioMedicine (2020) - doi: 10.1016/j.ebiom.2020.102753.** *EBioMedicine*
  Chen, C. H., Ferreira, J. C., Joshi, A. U., Stevens, M. C., Li, S. J., Hsu, J. H., Maclean, R., Ferreira, N. D., Cervantes, P. R., Martinez, D. D., Barrientos, F. L., Quintanares, G. H., Mochly-Rosen, et al
  2025; 117: 105798
- **A hidden cysteine in Fis1 targeted to prevent excessive mitochondrial fission and dysfunction under oxidative stress.** *Nature communications*
  Pokhrel, S., Heo, G., Mathews, I., Yokoi, S., Matsui, T., Mitsutake, A., Wakatsuki, S., Mochly-Rosen, D.
  2025; 16 (1): 4187
- **Author Correction: Targeting colorectal cancer with small-molecule inhibitors of ALDH1B1.** *Nature chemical biology*
  Feng, Z., Hom, M. E., Bearrood, T. E., Rosenthal, Z. C., Fernández, D., Ondrus, A. E., Gu, Y., McCormick, A. K., Tomaske, M. G., Marshall, C. R., Kline, T., Chen, C. H., Mochly-Rosen, et al
  2024
- **Cardiac troponin I directly binds and inhibits mitochondrial ATP synthase with a noncanonical role in the post-ischemic heart.** *Nature cardiovascular research*
  Elezaby, A., Lin, A. J., Vijayan, V., Pokhrel, S., Kraemer, B. R., Bechara, L. R., Larus, I., Sun, J., Baena, V., Syed, Z. A., Murphy, E., Glancy, B., Ostberg, et al
  2024; 3 (8): 987-1002
- **Uncovering newly identified aldehyde dehydrogenase 2 genetic variants that lead to acetaldehyde accumulation after an alcohol challenge.** *Journal of translational medicine*
  Rwere, F., White, J. R., Hell, R. C., Yu, X., Zeng, X., McNeil, L., Zhou, K. N., Angst, M. S., Chen, C. H., Mochly-Rosen, D., Gross, E. R.
  2024; 22 (1): 697
- **Cardiac troponin I directly binds and inhibits mitochondrial ATP synthase with a noncanonical role in the post-ischemic heart** *NATURE CARDIOVASCULAR RESEARCH*
  Elezaby, A., Lin, A. J., Vijayan, V., Pokhrel, S., Kraemer, B. R., Bechara, L. R. G., Larus, I., Sun, J., Baena, V., Syed, Z. A., Murphy, E., Glancy, B., Ostberg, et al
  2024
- **Extracellular release of mitochondria induced by pre-hematopoietic stem cell transplant conditioning exacerbates GVHD.** *Blood advances*
  Vijayan, V., Yan, H., Lohmeyer, J. K., Prentiss, K. A., Patil, R. V., Barbarito, G., Lopez, I., Elezaby, A., Peterson, K., Baker, J., Ostberg, N. P., Bertaina, A., Negrin, et al
  2024
- **Author Correction: A selective inhibitor of mitofusin 1-βIIPKC association improves heart failure outcome in rats.** *Nature communications*

Ferreira, J. C., Campos, J. C., Qvit, N., Qi, X., Bozi, L. H., Bechara, L. R., Lima, V. M., Queliconi, B. B., Disatnik, M. H., Dourado, P. M., Kowaltowski, A. J., Mochly-Rosen, D.
2024; 15 (1): 2889

- **Cleavage of Hsp70.1 causes lysosomal cell death under stress conditions.** *Frontiers in molecular biosciences*
  Yamashima, T., Mochly-Rosen, D., Wakatsuki, S., Mizukoshi, E., Seike, T., Larus, I. M., Chen, C., Takemura, M., Saito, H., Ohashi, A.
  2024; 11: 1378656

- **Corrigendum to "Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy" [Journal: Molecular of and Cellular Cardiology (2019) May 130;160-169].** *Journal of molecular and cellular cardiology*
  Haileselassie, B., Mukherjee, R., Joshi, A. U., Napier, B. A., Massis, L. M., Ostberg, N. P., Queliconi, B. B., Monack, D., Bernstein, D., Mochly-Rosen, D.
  2023

- **ALDH2 dysfunction and alcohol cooperate in cancer stem cell enrichment.** *Carcinogenesis*
  Flashner, S., Shimonosono, M., Tomita, Y., Matsuura, N., Ohashi, S., Muto, M., Klein-Szanto, A. J., Diehl, J. A., Chen, C., Mochly-Rosen, D., Weinberg, K. I., Nakagawa, H.
  2023

- **4-Hydroxynonenal impairs miRNA maturation in heart failure via Dicer post-translational modification.** *European heart journal*
  Kiyuna, L. A., Candido, D. S., Bechara, L. R., Jesus, I. C., Ramalho, L. S., Krum, B., Albuquerque, R. P., Campos, J. C., Bozi, L. H., Zambelli, V. O., Alves, A. N., Campolo, N., Mastrogiovanni, et al
  2023

- **Extracellular Release of Damaged Mitochondria Induced By Cytotoxic Conditioning Exacerbates Graft-Versus-Host Disease**
  Vijayan, V., Yan, H., Lohmeyer, J., Prentiss, K., Patil, R., Barbarito, G., Lopez, I., Elezaby, A., Peterson, K., Baker, J., Ostberg, N., Bertaina, A., Negrin, et al
  AMER SOC HEMATOLOGY.2023

- **Generation of Genetically Modified Mouse Models to Study Protein Disulfide Isomerase A3 Involvement in Neurological Disorders**
  Medinas, D., Rozas, P., Baker, H., Ferreira, J., Teramayi, F., Ojeda-Provoste, P., Espinosa, G., Quiroz, G., Pestana, R., Melleu, F., Contreras, D., Godoy, F., Rozas, et al
  ELSEVIER SCIENCE INC.2023: S162

- **A common East-Asian ALDH2 mutation causes metabolic disorders and the therapeutic effect of ALDH2 activators.** *Nature communications*
  Chang, Y. C., Lee, H. L., Yang, W., Hsieh, M. L., Liu, C. C., Lee, T. Y., Huang, J. Y., Nong, J. Y., Li, F. A., Chuang, H. L., Ding, Z. Z., Su, W. L., Chueh, et al
  2023; 14 (1): 5971

- **Implication of the cooking oil-peroxidation product "hydroxynonenal" for Alzheimer's disease.** *Frontiers in aging neuroscience*
  Yamashima, T., Seike, T., Mochly-Rosen, D., Chen, C. H., Kikuchi, M., Mizukoshi, E.
  2023; 15: 1211141

- **Impact of common ALDH2 inactivating mutation and alcohol consumption on Alzheimer's disease.** *Frontiers in aging neuroscience*
  Seike, T., Chen, C. H., Mochly-Rosen, D.
  2023; 15: 1223977

- **Targeting an allosteric site in dynamin-related protein 1 to inhibit Fis1-mediated mitochondrial dysfunction.** *Nature communications*
  Rios, L., Pokhrel, S., Li, S. J., Heo, G., Haileselassie, B., Mochly-Rosen, D.
  2023; 14 (1): 4356

- **Changes of neurofilament light chain in patients with alcohol dependence following withdrawal and the genetic effect from ALDH2 Polymorphism.** *European archives of psychiatry and clinical neuroscience*
  Huang, M. C., Tu, H. Y., Chung, R. H., Kuo, H. W., Liu, T. H., Chen, C. H., Mochly-Rosen, D., Liu, Y. L.
  2023

- **A Common East Asian aldehyde dehydrogenase 2*2 variant promotes ventricular arrhythmia with chronic light-to-moderate alcohol use in mice.** *Communications biology*
  Lee, A., Sung, Y., Pan, S., Sung, K., Su, C., Ding, S., Lu, Y., Hsieh, C., Chen, Y., Liu, C., Chen, W., Chen, X., Chung, et al
  2023; 6 (1): 610

- **A Model of Public Health Campaign on the Awareness of Alcohol Flushing and Prevention of Upper Aerodigestive Tract Cancers in East Asia**
  Chen, C., Mochly-Rosen, D., Hou, S.
  AMER ASSOC CANCER RESEARCH.2023

- **Analysis of well-annotated next-generation sequencing data reveals increasing cases of SARS-CoV-2 reinfection with Omicron.** *Communications biology*
  Burkholz, S., Rubsamen, M., Blankenberg, L., Carback, R. T., Mochly-Rosen, D., Harris, P. E.
  2023; 6 (1): 288

- **Drp1/p53 interaction mediates p53 mitochondrial localization and dysfunction in septic cardiomyopathy.** *Journal of molecular and cellular cardiology*
  Mukherjee, R., Tetri, L. H., Li, S. J., Fajardo, G., Ostberg, N. P., Tsegay, K. B., Gera, K., Cornell, T. T., Bernstein, D., Mochly-Rosen, D., Haileselassie, B.
  2023; 177: 28-37

- **SGLT2 inhibitor ameliorates endothelial dysfunction associated with the common ALDH2 alcohol flushing variant.** *Science translational medicine*
  Guo, H., Yu, X., Liu, Y., Paik, D. T., Justesen, J. M., Chandy, M., Jahng, J. W., Zhang, T., Wu, W., Rwere, F., Zhao, S. R., Pokhrel, S., Shivnaraine, et al
  2023; 15 (680): eabp9952

- **EXTRACELLULAR MITOCHONDRIA EXACERBATE GRAFT-VERSUS-HOST DISEASE MORTALITY IN A MOUSE MODEL**
  Vijayan, V., Yan, H., Lohmeyer, J., Peterson, K., Harden, J., Patil, R., Barbarito, G., Bertaina, A., Negrin, R., Mochly-Rosen, D., Weinberg, K., Haileselassie, B.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 640

- **EXTRACELLULAR MITOCHONDRIA EXACERBATE GRAFT-VERSUS-HOST DISEASE MORTALITY IN A MOUSE MODEL**
  Vijayan, V., Yan, H., Lohmeyer, J., Peterson, K., Harden, J., Patil, R., Barbarito, G., Bertaina, A., Negrin, R., Mochly-Rosen, D., Weinberg, K., Haileselassie, B.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 640

- **DRP1/P53 INTERACTION PLAYS A KEY ROLE IN MITOCHONDRIAL DYSFUNCTION OF SEPTIC CARDIOMYOPATHY**
  Tetri, L., Mukherjee, R., Li, S., Fajardo, G., Ostberg, N., Tsegay, K., Gera, K., Cornell, T., Bernstein, D., Mochly-Rosen, D., Haileselassie, B.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 617

- **MITOCHONDRIAL FISSION & CELL-FREE MITOCHONDRIA MEDIATE CARDIAC DYSFUNCTION IN OBESITY CARDIOMYOPATHY**
  Li, S., Chen, C., Ostberg, N., Tetri, L., Cornell, T., Mochly-Rosen, D., Haileselassie, B.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 50

- **MITOCHONDRIAL FISSION & CELL-FREE MITOCHONDRIA MEDIATE CARDIAC DYSFUNCTION IN OBESITY CARDIOMYOPATHY**
  Li, S., Chen, C., Ostberg, N., Tetri, L., Cornell, T., Mochly-Rosen, D., Haileselassie, B.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 50

- **DRP1/P53 INTERACTION PLAYS A KEY ROLE IN MITOCHONDRIAL DYSFUNCTION OF SEPTIC CARDIOMYOPATHY**
  Tetri, L., Mukherjee, R., Li, S., Fajardo, G., Ostberg, N., Tsegay, K., Gera, K., Cornell, T., Bernstein, D., Mochly-Rosen, D., Haileselassie, B.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 617

- **COVID-19 prophylaxis with immunoglobulin Y (IgY) for the world population: The critical role that governments and non-governmental organizations can play.** *Journal of global health*
  Frumkin, L. R., Lucas, M., Wallach, M., Scribner, C. L., St John, T., Mochly-Rosen, D.
  2022; 12: 03080

- **ALDH7A1 rs12514417 polymorphism may increase ischemic stroke risk in alcohol-exposed individuals.** *Nutrition & metabolism*
  Lin, C. H., Nfor, O. N., Ho, C. C., Hsu, S. Y., Tantoh, D. M., Liaw, Y. C., Mochly-Rosen, D., Chen, C. H., Liaw, Y. P.
  2022; 19 (1): 70

- **ALDH2 variance in disease and populations.** *Disease models & mechanisms*
  Chen, C., Kraemer, B. R., Mochly-Rosen, D.
  2022; 15 (6)

- **ALDH2 Expression, Alcohol Intake, and Semen Parameters Among East Asian Men.** *The Journal of urology*
  Greenberg, D. R., Bhambvani, H. P., Basran, S. S., Salazar, B. P., Rios, L. C., Li, S. J., Chen, C. H., Mochly-Rosen, D., Eisenberg, M. L.
  2022: 101097JU0000000000002682
- **Boosting the Discovery of Small Molecule Inhibitors of Glucose-6-Phosphate Dehydrogenase for the Treatment of Cancer, Infectious Diseases, and Inflammation.** *Journal of medicinal chemistry*
  Koperniku, A., Garcia, A. A., Mochly-Rosen, D.
  2022
- **Alcohol Consumption, ALDH2 Polymorphism as Risk Factors for Upper Aerodigestive Tract Cancer Progression and Prognosis.** *Life (Basel, Switzerland)*
  Chen, C., Wang, W., Hsu, M., Mochly-Rosen, D.
  2022; 12 (3)
- **A Selective Inhibitor of Cardiac Troponin I Phosphorylation by Delta Protein Kinase C (deltaPKC) as a Treatment for Ischemia-Reperfusion Injury.** *Pharmaceuticals (Basel, Switzerland)*
  Qvit, N., Lin, A. J., Elezaby, A., Ostberg, N. P., Campos, J. C., Ferreira, J. C., Mochly-Rosen, D.
  2022; 15 (3)
- **Drp1/Fis1-Dependent Pathologic Fission and Associated Damaged Extracellular Mitochondria Contribute to Macrophage Dysfunction in Endotoxin Tolerance.** *Critical care medicine*
  Mukherjee, R., Tompkins, C. A., Ostberg, N. P., Joshi, A. U., Massis, L. M., Vijayan, V., Gera, K., Monack, D., Cornell, T. T., Hall, M. W., Mochly-Rosen, D., Haileselassie, B.
  1800
- **Mitochondrial fusion, fission and mitophagy in cardiac diseases: challenges and therapeutic opportunities.** *Antioxidants & redox signaling*
  Scheffer, D. d., Garcia, A. A., Lee, L., Mochly-Rosen, D., Ferreira, J. C.
  1800
- **Stabilization of glucose-6-phosphate dehydrogenase oligomers enhances catalytic activity and stability of clinical variants.** *The Journal of biological chemistry*
  Garcia, A. A., Mathews, I. I., Horikoshi, N., Matsui, T., Kaur, M., Wakatsuki, S., Mochly-Rosen, D.
  2022: 101610
- **Egg-Derived Anti-SARS-CoV-2 Immunoglobulin Y (IgY) With Broad Variant Activity as Intranasal Prophylaxis Against COVID-19.** *Frontiers in immunology*
  Frumkin, L. R., Lucas, M., Scribner, C. L., Ortega-Heinly, N., Rogers, J., Yin, G., Hallam, T. J., Yam, A., Bedard, K., Begley, R., Cohen, C. A., Badger, C. V., Abbasi, et al
  2022; 13: 899617
- **Targeting colorectal cancer with small-molecule inhibitors of ALDH1B1** *Nature Chemical Biology*
  Feng, Z., Hom, M. E., Bearrood, T. E., Rosenthal, Z. C., Fernández, D., Ondrus, A. E., Gu, Y., McCormick, A. K., Tomaske, M. G., Marshall, C. R., Chen, C., Mochly-Rosen, D., Kuo, et al
  2022
- **Targeting colorectal cancer with small-molecule inhibitors of ALDH1B1** *Nature Chemical Biology*
  Feng, Z., Hom, M. E., Bearrood, T. E., Rosenthal, Z. C., Fernández, D., Ondrus, A. E., Gu, Y., McCormick, A. K., Tomaske, M. G., Marshall, C. R., Chen, C., Mochly-Rosen, D., Kuo, et al
  2022
- **Activation of PKCepsilon-ALDH2 Axis Prevents 4-HNE-Induced Pain in Mice.** *Biomolecules*
  Martins, B. B., Hosch, N. G., Alcantara, Q. A., Budas, G. R., Chen, C., Mochly-Rosen, D., Ferreira, J. C., Zambelli, V. O.
  1800; 11 (12)
- **deltaPKC-Mediated Drp1 Phosphorylation Impacts Macrophage Mitochondrial Function and Inflammatory Response to Endotoxin.** *Shock (Augusta, Ga.)*
  Lin, A. J., Joshi, A. U., Mukherjee, R., Tompkins, C. A., Vijayan, V., Mochly-Rosen, D., Haileselassie, B.
  2021
- **Activation of Aldehyde Dehydrogenase 2 Ameliorates Glucolipotoxicity of Pancreatic Beta Cells.** *Biomolecules*
  Chen, S., Hee, S., Chou, S., Liu, M., Chen, C., Mochly-Rosen, D., Chang, T., Chuang, L.

2021; 11 (10)

- **Annotation of 1350 Common Genetic Variants of the 19 ALDH Multigene Family from Global Human Genome Aggregation Database (gnomAD).** *Biomolecules*
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