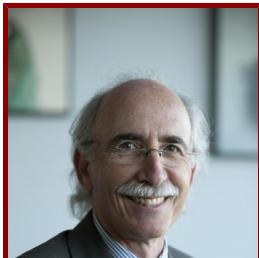


# Stanford

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## Fredric Kraemer

Gerald M. Reaven, MD, Professor of Endocrinology, Emeritus  
Medicine - Endocrinology, Gerontology, & Metabolism

NIH Biosketch available Online

### CLINICAL OFFICE (PRIMARY)

- **Endocrine Clinic within Ambulatory Care Clinic**  
300 Pasteur Dr Rm A13  
Stanford, CA 94305

**Tel** (650) 723-6961      **Fax** (650) 498-5823

### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**  
**Tel** 650-493-5000 x63184

## Bio

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### BIO

Dr. Fredric Kraemer is a Professor in the Division of Endocrinology, Gerontology and Metabolism. He is a board certified endocrinologist for over 40 years who specializes in the treatment diabetes mellitus, particularly type 1 diabetes, and the treatment of lipid disorders, such as elevated cholesterol or triglycerides.

### CLINICAL FOCUS

- Endocrinology / Diabetes
- Lipid Metabolism Disorders
- Endocrinology
- Diabetes and Metabolism

### ACADEMIC APPOINTMENTS

- Professor Emeritus, Medicine - Endocrinology, Gerontology, & Metabolism
- Member, Bio-X
- Member, Cardiovascular Institute

### ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Endocrinology, Gerontology and Metabolism, Stanford University, (2002-2022)
- Associate Chief of Staff for Research and Development, VA Palo Alto Health Care System, (2002-2007)

### HONORS AND AWARDS

- Gerald M. Reaven, M.D. Professor in Endocrinology, Stanford University (2018)
- Stanford University Professorship in Endocrinology, Stanford University (2002-2018)
- SmithKline Beecham Junior Faculty Award In Diabetes, SmithKline Beecham (1998)
- Hume Faculty Scholar, Stanford University (1984-1988)
- Mellon Foundation Fellow, Stanford University (1983-1984)
- Special Emphasis Research Career Award, NIH (1982-1987)

## PROFESSIONAL EDUCATION

- Medical Education: NYU Grossman School of Medicine (1974) NY
- Fellowship: Stanford University School of Medicine (1982) CA
- Board Certification: Endocrinology, Diabetes and Metabolism, American Board of Internal Medicine (1981)
- Residency: Kings County Hospital (1978) NY
- Residency: Kings County Hospital (1977) NY
- Board Certification: Internal Medicine, American Board of Internal Medicine (1977)
- Internship: Kings County Hospital (1977) NY
- BA, Emory University , Chemistry (1970)
- MD, New York University , Medicine (1974)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research interests are in the general area of cellular lipid and lipoprotein metabolism. The work is aimed primarily at understanding the mechanisms regulating cholesterol and triglyceride accumulation in cells. We utilize a variety of techniques from cell biology, biochemistry, and molecular biology. Current research projects focus on the regulation of hormone sensitive lipase (HSL). HSL is an intracellular enzyme responsible for the cytosolic hydrolysis of intracellular triglyceride and cholesteryl esters. Thus, it has an important role in fat mobilization, but also in cholesterol metabolism. We are examining all aspects of the biology of HSL, including its mechanisms of action and its structure-function relationships in regard to adipose cell function and steroid hormone synthesis.

### CLINICAL TRIALS

- Treatment of Psychotic Major Depression With Mifepristone, Not Recruiting

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

## Publications

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### PUBLICATIONS

- **MicroRNA regulation of adrenal glucocorticoid and androgen biosynthesis.** *Vitamins and hormones*  
Azhar, S., Shen, W., Hu, Z., Kraemer, F. B.  
2024; 124: 1-37
- **Early enforcement of cell identity by a functional component of the terminally differentiated state.** *PLoS biology*  
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- **Mice Deficient in ER Protein Seipin Have Reduced Adrenal Cholesteryl Ester Lipid Droplet Formation and Utilization.** *Journal of lipid research*  
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- **Corrigendum to "Hormone sensitive lipase ablation promotes bone regeneration" [Biochim. Biophys. Acta Mol. Basis Dis. Volume 1868, Issue 9, 1 September 2022, 166449]. Biochimica et biophysica acta. Molecular basis of disease**  
Shen, W. J., Still, C., Han, L., Yang, P., Chen, J., Woscyna, M., Rando, T. A., Salmon, B. J., Perez, K. C., Li, J., Cuevas, P. L., Liu, B., Azhar, et al  
2022; 1868 (11): 166506
- **Flattening of circadian glucocorticoid oscillations drives acute hyperinsulinemia and adipocyte hypertrophy.** *Cell reports*

- Tholen, S., Patel, R., Agas, A., Kovary, K. M., Rabiee, A., Nicholls, H. T., Bielczyk-Maczyńska, E., Yang, W., Kraemer, F. B., Teruel, M. N.  
2022; 39 (13): 111018
- **Hormone sensitive lipase ablation promotes bone regeneration.** *Biochimica et biophysica acta. Molecular basis of disease*  
Shen, W. J., Chris Still, I. I., Han, L., Yang, P., Chen, J., Woszczyna, M., Salmon, B. J., Perez, K. C., Li, J., Cuevas, P. L., Liu, B., Azhar, S., Helms, et al  
2022: 166449
  - **Hormone-sensitive lipase protects adipose triglyceride lipase-deficient mice from lethal lipotoxic cardiomyopathy.** *Journal of lipid research*  
Yamada, M., Suzuki, J., Sato, S., Zenimaru, Y., Saito, R., Konoshita, T., Kraemer, F. B., Ishizuka, T.  
2022: 100194
  - **SNAP25 mutation disrupts metabolic homeostasis, steroid hormone production and central neurobehavior.** *Biochimica et biophysica acta. Molecular basis of disease*  
Hao, X., Zhu, B., Yang, P., Dong, D., Sahbaie, P., Oliver, P. L., Shen, W., Azhar, S., Kraemer, F. B.  
2021: 166304
  - **Hormone-sensitive lipase deficiency affects the expression of SR-BI, LDLr, and ABCA1 receptors/transporters involved in cellular cholesterol uptake and efflux and disturbs fertility in mouse testis.** *Biochimica et biophysica acta. Molecular and cell biology of lipids*  
Casado, M. E., Huerta, L., Marcos-Díaz, A., Ortiz, A. I., Kraemer, F. B., Lasuncion, M. A., Bustos, R., Martín-Hidalgo, A.  
2021: 159043
  - **Chemerin regulates formation and function of brown adipose tissue: Ablation results in increased insulin resistance with high fat challenge and aging.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*  
Zhang, Y., Shen, W., Qiu, S., Yang, P., Dempsey, G., Zhao, L., Zhou, Q., Hao, X., Dong, D., Stahl, A., Kraemer, F. B., Leung, L. L., Morser, et al  
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  - **FXR activation promotes intestinal cholesterol excretion and attenuates hyperlipidemia in SR-B1-deficient mice fed a high-fat and high-cholesterol diet.** *Physiological reports*  
Singh, A. B., Dong, B., Kraemer, F. B., Liu, J.  
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  - **Molecular changes in hepatic metabolism in ZDSD rats-A new polygenic rodent model of obesity, metabolic syndrome, and diabetes.** *Biochimica et biophysica acta. Molecular basis of disease*  
Han, L. n., Bittner, S. n., Dong, D. n., Cortez, Y. n., Bittner, A. n., Chan, J. n., Umar, M. n., Shen, W. J., Peterson, R. G., Kraemer, F. B., Azhar, S. n.  
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  - **Slc43a3 is a regulator of free fatty acid flux.** *Journal of lipid research*  
Hasbargen, K. B., Shen, W. J., Zhang, Y. n., Hou, X. n., Wang, W. n., Shuo, Q. n., Bernlohr, D. A., Azhar, S. n., Kraemer, F. B.  
2020
  - **Identification of p115 as a novel ACSL4 interacting protein and its role in regulating ACSL4 degradation.** *Journal of proteomics*  
Sen, P. n., Kan, C. F., Singh, A. B., Rius, M. n., Kraemer, F. B., Sztul, E. n., Liu, J. n.  
2020: 103926
  - **SOD2 deficiency-induced oxidative stress attenuates steroidogenesis in mouse ovarian granulosa cells.** *Molecular and cellular endocrinology*  
Zaidi, S. K., Shen, W. J., Cortez, Y. n., Bittner, S. n., Bittner, A. n., Arshad, S. n., Huang, T. T., Kraemer, F. B., Azhar, S. n.  
2020: 110888
  - **Scavenger receptor class B, type 1 facilitates cellular fatty acid uptake.** *Biochimica et biophysica acta. Molecular and cell biology of lipids*  
Wang, W., Yan, Z., Hu, J., Shen, W., Azhar, S., Kraemer, F. B.  
2019: 158554
  - **Cardiac overexpression of perilipin 2 induces atrial steatosis, connexin 43 remodeling, and atrial fibrillation in aged mice.** *American journal of physiology. Endocrinology and metabolism*  
Sato, S., Suzuki, J., Hirose, M., Yamada, M., Zenimaru, Y., Nakaya, T., Ichikawa, M., Imagawa, M., Takahashi, S., Ikuyama, S., Konoshita, T., Kraemer, F. B., Ishizuka, et al  
2019
  - **Tissue Specific Ablation of ACSL4 Results in Disturbed Steroidogenesis.** *Endocrinology*  
Wang, W., Hao, X., Han, L., Yan, Z., Shen, W., Dong, D., Hasbargen, K., Bittner, S., Cortez, Y., Greenberg, A. S., Azhar, S., Kraemer, F. B.  
2019

- Liver-specific knockdown of long-chain acyl-CoA synthetase 4 reveals its key role in VLDL-TG metabolism and phospholipid synthesis in mice fed a high-fat diet *AMERICAN JOURNAL OF PHYSIOLOGY-ENDOCRINOLOGY AND METABOLISM*  
Singh, A. B., Kan, C. K., Kraemer, F. B., Sobel, R. A., Liu, J.  
2019; 316 (5): E880–E894
- Anti-hyperlipidaemic effects of synthetic analogues of nordihydroguaiaretic acid in dyslipidaemic rats *BRITISH JOURNAL OF PHARMACOLOGY*  
Singh, M., Bittner, S., Li, Y., Bittner, A., Han, L., Cortez, Y., Inayathullah, M., Arif, Z., Parthasarathi, R., Rajadas, J., Shen, W., Nicolls, M. R., Kraemer, et al  
2019; 176 (3): 369–85
- Novel ABCA1 peptide agonists with antidiabetic action *MOLECULAR AND CELLULAR ENDOCRINOLOGY*  
Azhar, S., Bittner, S., Hu, J., Shen, W., Cortez, Y., Hao, X., Han, L., Lagerstedt, J. O., Kraemer, F. B., Johansson, J. O.  
2019; 480: 1–11
- Creosote bush-derived NDGA attenuates molecular and pathological changes in a novel mouse model of non-alcoholic steatohepatitis (NASH). *Molecular and cellular endocrinology*  
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- The role of miRNAs in regulating adrenal/gonadal steroidogenesis. *Journal of molecular endocrinology*  
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Azhar, S., Bittner, S., Hu, J., Shen, W., Cortez, Y., Hao, X., Lu, H., Lagerstedt, J. O., Kraemer, F. B., Johansson, J. O.  
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- Farnesoid X Receptor Activation by Obeticholic Acid Elevates Liver Low-Density Lipoprotein Receptor Expression by mRNA Stabilization and Reduces Plasma Low-Density Lipoprotein Cholesterol in Mice. *Arteriosclerosis, thrombosis, and vascular biology*  
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- Nordihydroguaiaretic acid, a lignan from *Larrea tridentata* (Creosote bush) protects against ALIOS diet-induced metabolic dysfunction in mice. *The Journal of pharmacology and experimental therapeutics*  
Chan, J. K., Bittner, S. n., Bittner, A. n., Atwal, S. n., Shen, W. J., Inayathullah, M. n., Rajada, J. n., Nicolls, M. R., Kraemer, F. B., Azhar, S. n.  
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- Cardiac overexpression of perilipin 2 induces dynamic steatosis: prevention by hormone-sensitive lipase *AMERICAN JOURNAL OF PHYSIOLOGY-ENDOCRINOLOGY AND METABOLISM*  
Ueno, M., Suzuki, J., Hirose, M., Sato, S., Imagawa, M., Zenimaru, Y., Takahashi, S., Ikuyama, S., Koizumi, T., Konoshita, T., Kraemer, F. B., Ishizuka, T.

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● **WNT-activated bone grafts repair osteonecrotic lesions in aged animals** *SCIENTIFIC REPORTS*

Salmon, B., Liu, B., Shen, E., Chen, T., Li, J., Gillette, M., Ransom, R. C., Ezran, M., Johnson, C. A., Castillo, A. B., Shen, W. J., Kraemer, F. B., Smith, et al  
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● **Regulation of adrenal and ovarian steroidogenesis by miR-132** *JOURNAL OF MOLECULAR ENDOCRINOLOGY*

Hu, Z., Shen, W., Kraemer, F. B., Azhar, S.  
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● **PPARs: regulators of metabolism and as therapeutic targets in cardiovascular disease. Part I: PPAR- $\alpha$ .** *Future cardiology*

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● **PPARs: regulators of metabolism and as therapeutic targets in cardiovascular disease. Part II: PPAR- $\beta/d$  and PPAR- $\gamma$ .** *Future cardiology*

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● **SNAREs and cholesterol movement for steroidogenesis** *MOLECULAR AND CELLULAR ENDOCRINOLOGY*

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● **Microarray analysis of gene expression in liver, adipose tissue and skeletal muscle in response to chronic dietary administration of NDGA to high-fructose fed dyslipidemic rats** *NUTRITION & METABOLISM*

Zhang, H., Shen, W., Li, Y., Bittner, A., Bittner, S., Tabassum, J., Cortez, Y. F., Kraemer, F. B., Azhar, S.  
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● **Hormone-sensitive lipase deficiency disturbs lipid composition of plasma membrane microdomains from mouse testis.** *Biochimica et biophysica acta*

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2016; 1861 (9): 1142–1150

● **SNAREs and cholesterol movement for steroidogenesis.** *Molecular and cellular endocrinology*

Kraemer, F. B., Shen, W., Azhar, S.  
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● **ACTH Regulation of Adrenal SR-B1** *FRONTIERS IN ENDOCRINOLOGY*

Shen, W., Azhar, S., Kraemer, F. B.  
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● **SNARE-Mediated Cholesterol Movement to Mitochondria Supports Steroidogenesis in Rodent Cells.** *Molecular endocrinology*

Lin, Y., Hou, X., Shen, W., Hanssen, R., Khor, V. K., Cortez, Y., Roseman, A. N., Azhar, S., Kraemer, F. B.  
2016; 30 (2): 234–247

● **Lipid droplets and steroidogenic cells** *EXPERIMENTAL CELL RESEARCH*

Shen, W., Azhar, S., Kraemer, F. B.  
2016; 340 (2): 209–214

● **A Novel Role of Salt-Inducible Kinase 1 (SIK1) in the Post-Translational Regulation of Scavenger Receptor Class B Type 1 Activity** *BIOCHEMISTRY*

Hu, Z., Hu, J., Shen, W., Kraemer, F. B., Azhar, S.  
2015; 54 (46): 6917–6930

● **Effect of Creosote Bush-Derived NDGA on Expression of Genes Involved in Lipid Metabolism in Liver of High-Fructose Fed Rats: Relevance to NDGA Amelioration of Hypertriglyceridemia and Hepatic Steatosis** *PLOS ONE*

Zhang, H., Li, Y., Hu, J., Shen, W., Singh, M., Hou, X., Bittner, A., Bittner, S., Cortez, Y., Tabassum, J., Kraemer, F. B., Azhar, S.  
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● **Using SRM-MS to quantify nuclear protein abundance differences between adipose tissue depots of insulin-resistant mice** *JOURNAL OF LIPID RESEARCH*

Ota, A., Kovary, K. M., Wu, O. H., Ahrends, R., Shen, W., Costa, M. J., Feldman, B. J., Kraemer, F. B., Teruel, M. N.  
2015; 56 (5): 1068–1078

- **Adipose Triglyceride Lipase, Not Hormone-Sensitive Lipase, Is the Primary Lipolytic Enzyme in Fasting Elephant Seals (*Mirounga angustirostris*)** *PHYSIOLOGICAL AND BIOCHEMICAL ZOOLOGY*  
Fowler, M. A., Costa, D. P., Crocker, D. E., Shen, W., Kraemer, F. B.  
2015; 88 (3): 284-294
- **Quantification of stromal vascular cell mechanics with a linear cell monolayer rheometer** *JOURNAL OF RHEOLOGY*  
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- **HPA axis genetic variation, cortisol and psychosis in major depression.** *Molecular psychiatry*  
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2014; 19 (2): 220-227
- **The proteome of cholesteryl-ester-enriched versus triacylglycerol-enriched lipid droplets.** *PloS one*  
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- **The proteome of cholesteryl-ester-enriched versus triacylglycerol-enriched lipid droplets.** *PloS one*  
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- **Hormonal Regulation of MicroRNA Expression in Steroid Producing Cells of the Ovary, Testis and Adrenal Gland** *PLOS ONE*  
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- **Cholesterol ester droplets and steroidogenesis.** *Molecular and cellular endocrinology*  
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Emilia Casado, M., Huerta, L., Isabel Ortiz, A., Perez-Crespo, M., Gutierrez-Adan, A., Kraemer, F. B., Angel Lasuncion, M., Bustos, R., Martin-Hidalgo, A.  
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Shen, W., Liu, L., Patel, S., Kraemer, F. B.  
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Greenberg, A. S., Coleman, R. A., Kraemer, F. B., McManaman, J. L., Obin, M. S., Puri, V., Yan, Q., Miyoshi, H., Mashek, D. G.  
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- **Characterization of age-related gene expression profiling in bone marrow and epididymal adipocytes** *BMC GENOMICS*  
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