



Fredric Kraemer

Stanford University Professor in Endocrinology
Medicine - Endocrinology, Gerontology, & Metabolism

 NIH Biosketch available Online

CLINICAL OFFICES

- **Endocrine Clinic within Ambulatory Care Clinic**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr. Fredric Kraemer is the Chief of the Division of Endocrinology, Gerontology and Metabolism. He is a board certified endocrinologist for over 35 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, Medicine - Endocrinology, Gerontology, & Metabolism
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Endocrinology, Gerontology and Metabolism, Stanford University, (2002- present)
- 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

- Fellowship: Stanford University School of Medicine Registrar (1982) CA
- Medical Education: New York University School of Medicine (1974) NY
- 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

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

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

Publications

PUBLICATIONS

- **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.
2020; 8 (5): e14387
- **Molecular changes in hepatic metabolism in ZSD rats-A new polygenic rodent model of obesity, metabolic syndrome, and diabetes.** *Biochimica et biophysica acta. Molecular basis of disease*
Han, L., Bittner, S., Dong, D., Cortez, Y., Bittner, A., Chan, J., Umar, M., Shen, W. J., Peterson, R. G., Kraemer, F. B., Azhar, S.
2020: 165688
- **Slc43a3 is a regulator of free fatty acid flux.** *Journal of lipid research*
Hasbargen, K. B., Shen, W. J., Zhang, Y., Hou, X., Wang, W., Shuo, Q., Bernlohr, D. A., Azhar, S., Kraemer, F. B.
2020
- **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*
Han, L., Bittner, S., Dong, D., Cortez, Y., Dulay, H., Arshad, S., Shen, W. J., Kraemer, F. B., Azhar, S.
2019: 110538
- **The role of miRNAs in regulating adrenal/gonadal steroidogenesis.** *Journal of molecular endocrinology*
Azhar, S., Dong, D., Shen, W. J., Hu, Z., Kraemer, F. B.
2019
- **Novel ABCA1 peptide agonists with antidiabetic action.** *Molecular and cellular endocrinology*
Azhar, S., Bittner, S., Hu, J., Shen, W., Cortez, Y., Hao, X., Lu, H., Lagerstedt, J. O., Kraemer, F. B., Johansson, J. O.
2018
- **Plasma membrane cholesterol trafficking in steroidogenesis.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
Deng, B., Shen, W., Dong, D., Azhar, S., Kraemer, F. B.
2018: fj201800697RRR
- **Scavenger receptor B type 1 : Expression, Molecular Regulation, and Cholesterol Transport Function.** *Journal of lipid research*
Shen, W., Asthana, S., Kraemer, F. B., Azhar, S.
2018
- **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., Bittner, A., Atwal, S., Shen, W. J., Inayathullah, M., Rajada, J., Nicolls, M. R., Kraemer, F. B., Azhar, S.
2018
- **SR-B1: A Unique Multifunctional Receptor for Cholesterol Influx and Efflux** *ANNUAL REVIEW OF PHYSIOLOGY, VOL 80*
Shen, W., Azhar, S., Kraemer, F. B., Julius, D.
2018; 80: 95–116
- **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*
Singh, A. B., Dong, B., Kraemer, F. B., Xu, Y., Zhang, Y., Liu, J.
2018; 38 (10): 2448–59
- **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. 2017; 313 (6): E699–E709
- **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 2017; 7: 14254
 - **Regulation of adrenal and ovarian steroidogenesis by miR-132** *JOURNAL OF MOLECULAR ENDOCRINOLOGY*
Hu, Z., Shen, W., Kraemer, F. B., Azhar, S. 2017; 59 (3): 269–83
 - **PPARs: regulators of metabolism and as therapeutic targets in cardiovascular disease. Part I: PPAR- α .** *Future cardiology*
Han, L., Shen, W., Bittner, S., Kraemer, F. B., Azhar, S. 2017
 - **PPARs: regulators of metabolism and as therapeutic targets in cardiovascular disease. Part II: PPAR- β/δ and PPAR- γ .** *Future cardiology*
Han, L., Shen, W., Bittner, S., Kraemer, F. B., Azhar, S. 2017
 - **SNAREs and cholesterol movement for steroidogenesis** *MOLECULAR AND CELLULAR ENDOCRINOLOGY*
Kraemer, F. B., Shen, W., Azhar, S. 2017; 441 (C): 17-21
 - **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. 2016; 13
 - **Hormone-sensitive lipase deficiency disturbs lipid composition of plasma membrane microdomains from mouse testis.** *Biochimica et biophysica acta*
Casado, M. E., Pastor, O., García-Seisdedos, D., Huerta, L., Kraemer, F. B., Lasunción, M. A., Martín-Hidalgo, A., Busto, R. 2016; 1861 (9): 1142-1150
 - **SNAREs and cholesterol movement for steroidogenesis.** *Molecular and cellular endocrinology*
Kraemer, F. B., Shen, W., Azhar, S. 2016
 - **ACTH Regulation of Adrenal SR-B1** *FRONTIERS IN ENDOCRINOLOGY*
Shen, W., Azhar, S., Kraemer, F. B. 2016; 7
 - **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. 2015; 10 (9)
 - **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*
Elkins, C. M., Shen, W., Khor, V. K., Kraemer, F. B., Fuller, G. G.
2015; 59 (1): 33-50
- **p38 MAPK regulates steroidogenesis through transcriptional repression of STAR gene.** *Journal of molecular endocrinology*
Zaidi, S. K., Shen, W., Bittner, S., Bittner, A., McLean, M. P., Han, J., Davis, R. J., Kraemer, F. B., Azhar, S.
2014; 53 (1): 1-16
- **Scavenger receptor class B type I (SR-BI): a versatile receptor with multiple functions and actions.** *Metabolism*
Shen, W., Hu, J., Hu, Z., Kraemer, F. B., Azhar, S.
2014; 63 (7): 875-886
- **Gerald M. Reaven, MD: Demonstration of the Central Role of Insulin Resistance in Type 2 Diabetes and Cardiovascular Disease** *DIABETES CARE*
Kraemer, F. B., Ginsberg, H. N.
2014; 37 (5): 1178-1181
- **HPA axis genetic variation, cortisol and psychosis in major depression.** *Molecular psychiatry*
Schatzberg, A. F., Keller, J., Tennakoon, L., Lembke, A., Williams, G., Kraemer, F. B., Sarginson, J. E., Lazzeroni, L. C., Murphy, G. M.
2014; 19 (2): 220-227
- **The proteome of cholesteryl-ester-enriched versus triacylglycerol-enriched lipid droplets.** *PloS one*
Khor, V. K., Ahrends, R., Lin, Y., Shen, W., Adams, C. M., Roseman, A. N., Cortez, Y., Teruel, M. N., Azhar, S., Kraemer, F. B.
2014; 9 (8)
- **The proteome of cholesteryl-ester-enriched versus triacylglycerol-enriched lipid droplets.** *PloS one*
Khor, V. K., Ahrends, R., Lin, Y., Shen, W., Adams, C. M., Roseman, A. N., Cortez, Y., Teruel, M. N., Azhar, S., Kraemer, F. B.
2014; 9 (8)
- **Lipid droplet metabolism.** *Current opinion in clinical nutrition and metabolic care*
Khor, V. K., Shen, W., Kraemer, F. B.
2013; 16 (6): 632-637
- **Hormonal Regulation of MicroRNA Expression in Steroid Producing Cells of the Ovary, Testis and Adrenal Gland** *PLOS ONE*
Hu, Z., Shen, W., Cortez, Y., Tang, X., Liu, L., Kraemer, F. B., Azhar, S.
2013; 8 (10)
- **Cholesterol ester droplets and steroidogenesis.** *Molecular and cellular endocrinology*
Kraemer, F. B., Khor, V. K., Shen, W., Azhar, S.
2013; 371 (1-2): 15-19
- **Regulation of Expression and Function of Scavenger Receptor Class B, Type I (SR-BI) by Na⁺/H⁺ Exchanger Regulatory Factors (NHERFs).** *journal of biological chemistry*
Hu, Z., Hu, J., Zhang, Z., Shen, W., Yun, C. C., Berlot, C. H., Kraemer, F. B., Azhar, S.
2013; 288 (16): 11416-11435
- **Mechanisms of Action of Hormone-sensitive Lipase in Mouse Leydig Cells ITS ROLE IN THE REGULATION OF THE STEROIDOGENIC ACUTE REGULATORY PROTEIN** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Manna, P. R., Cohen-Tannoudji, J., Counis, R., Garner, C. W., Huhtaniemi, I., Kraemer, F. B., Stocco, D. M.
2013; 288 (12): 8505-8518
- **Hormone-sensitive lipase deficiency disturbs the fatty acid composition of mouse testis** *PROSTAGLANDINS LEUKOTRIENES AND ESSENTIAL FATTY ACIDS*
Casado, M. E., Pastor, O., Mariscal, P., Canfran-Duque, A., Martinez-Botas, J., Kraemer, F. B., Lasuncion, M. A., Martin-Hidalgo, A., Busto, R.
2013; 88 (3): 227-233

- **Fat-specific protein 27 modulates nuclear factor of activated T cells 5 and the cellular response to stress** *JOURNAL OF LIPID RESEARCH*
Ueno, M., Shen, W., Patel, S., Greenberg, A. S., Azhar, S., Kraemer, F. B.
2013; 54 (3): 734-743
- **Nordihydroguaiaretic acid improves metabolic dysregulation and aberrant hepatic lipid metabolism in mice by both PPAR alpha-dependent and -independent pathways** *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*
Zhang, H., Shen, W., Cortez, Y., Kraemer, F. B., Azhar, S.
2013; 304 (1): G72-G86
- **Age-related modulation of the effects of obesity on gene expression profiles of mouse bone marrow and epididymal adipocytes.** *PLoS one*
Liu, L., Shen, W., Ueno, M., Patel, S., Azhar, S., Kraemer, F. B.
2013; 8 (8)
- **The mineralocorticoid receptor agonist, fludrocortisone, differentially inhibits pituitary-adrenal activity in humans with psychotic major depression** *PSYCHONEUROENDOCRINOLOGY*
Lembke, A., Gomez, R., Tenakoon, L., Keller, J., Cohen, G., Williams, G. H., Kraemer, F. B., Schatzberg, A. F.
2013; 38 (1): 115-121
- **MicroRNAs 125a and 455 Repress Lipoprotein-Supported Steroidogenesis by Targeting Scavenger Receptor Class B Type I in Steroidogenic Cells** *MOLECULAR AND CELLULAR BIOLOGY*
Hu, Z., Shen, W., Kraemer, F. B., Azhar, S.
2012; 32 (24): 5035-5045
- **HSL-knockout mouse testis exhibits class B scavenger receptor upregulation and disrupted lipid raft microdomains** *JOURNAL OF LIPID RESEARCH*
Emilia Casado, M., Huerta, L., Isabel Ortiz, A., Perez-Crespo, M., Gutierrez-Adan, A., Kraemer, F. B., Angel Lasuncion, M., Busto, R., Martin-Hidalgo, A.
2012; 53 (12): 2586-2597
- **HSL-knockout mouse testis exhibits class B scavenger receptor upregulation and disrupted lipid raft microdomains.** *Journal of lipid research*
Casado, M. E., Huerta, L., Ortiz, A. I., Pérez-Crespo, M., Gutiérrez-Adán, A., Kraemer, F. B., Lasunción, M. Á., Busto, R., Martín-Hidalgo, A.
2012; 53 (12): 2586-2597
- **Ablation of Vimentin Results in Defective Steroidogenesis** *ENDOCRINOLOGY*
Shen, W., Zaidi, S. K., Patel, S., Cortez, Y., Ueno, M., Azhar, R., Azhar, S., Kraemer, F. B.
2012; 153 (7): 3249-3257
- **Evidence for protein-mediated fatty acid efflux by adipocytes** *ACTA PHYSIOLOGICA*
Henkin, A. H., Ortegón, A. M., Cho, S., Shen, W., Falcon, A., Kraemer, F. B., Lee, S., Stahl, A.
2012; 204 (4): 562-570
- **Lipid droplet meets a mitochondrial protein to regulate adipocyte lipolysis** *EMBO JOURNAL*
Greenberg, A. S., Kraemer, F. B., Soni, K. G., Jedrychowski, M. P., Yan, Q., Graham, C. E., Bowman, T. A., Mansur, A.
2011; 30 (21): 4337-4339
- **Hormone-sensitive lipase-knockout mice maintain high bone density during aging** *FASEB JOURNAL*
Shen, W., Liu, L., Patel, S., Kraemer, F. B.
2011; 25 (8): 2722-2730
- **The role of lipid droplets in metabolic disease in rodents and humans** *JOURNAL OF CLINICAL INVESTIGATION*
Greenberg, A. S., Coleman, R. A., Kraemer, F. B., McManaman, J. L., Obin, M. S., Puri, V., Yan, Q., Miyoshi, H., Mashek, D. G.
2011; 121 (6): 2102-2110
- **Characterization of age-related gene expression profiling in bone marrow and epididymal adipocytes** *BMC GENOMICS*
Liu, L., Shen, W., Ueno, M., Patel, S., Kraemer, F. B.
2011; 12
- **Hormone-sensitive lipase modulates adipose metabolism through PPAR gamma** *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS*
Shen, W., Yu, Z., Patel, S., Jue, D., Liu, L., Kraemer, F. B.
2011; 1811 (1): 9-16

- **IL-17 Regulates Adipogenesis, Glucose Homeostasis, and Obesity** *JOURNAL OF IMMUNOLOGY*
Zuniga, L. A., Shen, W., Joyce-Shaikh, B., Pyatnova, E. A., Richards, A. G., Thom, C., Andrade, S. M., Cua, D. J., Kraemer, F. B., Butcher, E. C.
2010; 185 (11): 6947-6959
- **Adipocytes Decrease Runx2 Expression in Osteoblastic Cells: Roles of PPAR gamma and Adiponectin** *JOURNAL OF CELLULAR PHYSIOLOGY*
Liu, L., Shen, W., Zhang, Z. H., Wang, L. J., Kraemer, F. B.
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- **Strong induction of PCSK9 gene expression through HNF1 alpha and SREBP2: mechanism for the resistance to LDL-cholesterol lowering effect of statins in dyslipidemic hamsters** *JOURNAL OF LIPID RESEARCH*
Dong, B., Wu, M., Li, H., Kraemer, F. B., Adeli, K., Seidah, N. G., Park, S. W., Liu, J.
2010; 51 (6): 1486-1495
- **Vimentin Is a Functional Partner of Hormone Sensitive Lipase And Facilitates Lipolysis** *JOURNAL OF PROTEOME RESEARCH*
Shen, W., Patel, S., Eriksson, J. E., Kraemer, F. B.
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- **Functional interaction of hormone-sensitive lipase and perilipin in lipolysis** *JOURNAL OF LIPID RESEARCH*
Shen, W., Patel, S., Miyoshi, H., Greenberg, A. S., Kraemer, F. B.
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- **Effects of hormone-sensitive lipase disruption on cardiac energy metabolism in response to fasting and refeeding** *AMERICAN JOURNAL OF PHYSIOLOGY-ENDOCRINOLOGY AND METABOLISM*
Suzuki, J., Ueno, M., Uno, M., Hirose, Y., Zenimaru, Y., Takahashi, S., Osuga, J., Ishibashi, S., Takahashi, M., Hirose, M., Yamada, M., Kraemer, F. B., Miyamori, et al
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- **Identification of mRNA binding proteins that regulate the stability of LDL receptor mRNA through AU-rich elements** *JOURNAL OF LIPID RESEARCH*
Li, H., Chen, W., Zhou, Y., Abidi, P., Sharpe, O., Robinson, W. H., Kraemer, F. B., Liu, J.
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- **Analysis of polymorphisms in the 3' untranslated region of the LDL receptor gene and their effect on plasma cholesterol levels and drug response** *INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE*
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- **Transcriptional activation of hepatic ACSL3 and ACSL5 by oncostatin M reduces hypertriglyceridemia through enhanced beta-oxidation** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Zhou, Y., Abidi, P., Kim, A., Chen, W., Huang, T., Kraemer, F. B., Liu, J.
2007; 27 (10): 2198-2205
- **Generation of novel adipocyte monolayer cultures from embryonic stem cells** *44th Annual Meeting of the American-Society-for-Cell-Biology*
Chen, T. L., Shen, W., Qiu, X., Li, T., Hoffman, A. R., Kraemer, F. B.
MARY ANN LIEBERT INC.2007: 371-80
- **Adrenal cholesterol utilization** *Joint Meeting of the 6th Conference on the Adrenal Cortex/Molecular Steroidogenesis Workshop*
Kraemer, F. B.
ELSEVIER IRELAND LTD.2007: 42-45
- **Effects of rosiglitazone and high fat diet on lipase/esterase expression in adipose tissue** *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS*
Shen, W., Patel, S., Yu, Z., Jue, D., Kraemer, F. B.
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- Kraemer, F. B., Shen, W., Patel, S., Osuga, J., Ishibashi, S., Azhar, S.
2007; 292 (2): E408-E412
- **Control of adipose triglyceride lipase action by serine 517 of perilipin A globally regulates protein kinase A-stimulated lipolysis in adipocytes** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Miyoshi, H., Perfield, J. W., Souza, S. C., Shen, W., Zhang, H., Stancheva, Z. S., Kraemer, F. B., Obin, M. S., Greenberg, A. S.
2007; 282 (2): 996-1002
 - **Regulation of hormone-sensitive lipase in islets** *DIABETES RESEARCH AND CLINICAL PRACTICE*
Shen, W., Liang, Y., Wang, J., Harada, K., Patel, S., Michie, S. A., Osuga, J., Ishibashi, S., Kraemer, F. B.
2007; 75 (1): 14-26
 - **The medicinal plant goldenseal is a natural LDL-lowering agent with multiple bioactive components and new action mechanisms** *JOURNAL OF LIPID RESEARCH*
Abidi, P., Chen, W., Kraemer, F. B., Li, H., Liu, J.
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 - **Elucidation of an SRE-1/SREBP-independent cellular pathway for LDL-receptor regulation: from the cell surface to the nucleus.** *Future cardiology*
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 - **Perilipin promotes hormone-sensitive lipase-mediated adipocyte lipolysis via phosphorylation-dependent and -independent mechanisms** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Miyoshi, H., Souza, S. C., Zhang, H., Strissel, K. J., Christoffolete, M. A., Kovsan, J., Rudich, A., Kraemer, F. B., Bianco, A. C., Obin, M. S., Greenberg, A. S.
2006; 281 (23): 15837-15844
 - **Hormone-sensitive lipase knockouts** *NUTRITION & METABOLISM*
Kraemer, F. B., Shen, W.
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