



Fredric Kraemer

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

 NIH Biosketch available Online

CLINICAL OFFICES

- **Endocrine Clinic within Ambulatory Care Clinic**

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Stanford, CA 94305

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- **Endocrinology Clinic at Hoover Pavilion**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Tel 650-493-5000 x63184

Bio

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, 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

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

- **Early enforcement of cell identity by a functional component of the terminally differentiated state.** *PLoS biology*
Bahrami-Nejad, Z., Zhang, Z. B., Tholen, S., Sharma, S., Rabiee, A., Zhao, M. L., Kraemer, F. B., Teruel, M. N.
2022; 20 (12): e3001900
- **Mice Deficient in ER Protein Seipin Have Reduced Adrenal Cholesteryl Ester Lipid Droplet Formation and Utilization.** *Journal of lipid research*
Shen, W. J., Cortez, Y., Singh, A., Chen, W., Azhar, S., Kraemer, F. B.
2022: 100309
- **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., Wosczyzna, 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., Wosczyzna, 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-Diaz, A., Ortiz, A. I., Kraemer, F. B., Lasuncion, M. A., Busto, R., Martin-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
2021; 35 (7): e21687
 - **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. 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.
2020: 165688
 - **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*
Han, L. n., Bittner, S. n., Dong, D. n., Cortez, Y. n., Dulay, H. n., Arshad, S. n., Shen, W. J., Kraemer, F. B., Azhar, S. n.
2019: 110538
- **Plasma membrane cholesterol trafficking in steroidogenesis** *FASEB JOURNAL*
Deng, B., Shen, W., Dong, D., Azhar, S., Kraemer, F. B.
2019; 33 (1): 1389-1400
- **The role of miRNAs in regulating adrenal/gonadal steroidogenesis.** *Journal of molecular endocrinology*
Azhar, S. n., Dong, D. n., Shen, W. J., Hu, Z. n., 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
- **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): 2448-2459
- **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; 59 (7): 1114-1131
- **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
- **SR-BI: 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
- **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.
2018

- **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 /d 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., Lazzaroni, 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): e105047
 - **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., Ortegon, 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.
2010; 225 (3): 837-845
- **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*
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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*
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