

# Stanford

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## Allen Cooper

Professor of Medicine (Gastroenterology and Hepatology), Emeritus

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine

#### ADMINISTRATIVE APPOINTMENTS

- Chief Division of Gastroenterology and Hepatology, Stanford University, (2003-2008)
- Director Research Institute, Palo Alto medical Foundation, (1987-2003)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The liver is the central organ in the metabolism of cholesterol and other fats. Previously my basic research laboratory studied the hepatic metabolism of these substances in animal and cellular models. Currently my major focus is on clinical care of patients with liver disease and I am engaged in studies of the role of NAFLD (non-alcoholic liver disease) in patients with hepatitis C and in post liver transplant patients.

### Publications

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#### PUBLICATIONS

- **Prospective study of risk factors for hepatitis C virus acquisition by Caucasian, Hispanic, and Asian American patients** *JOURNAL OF VIRAL HEPATITIS*  
Ho, E. Y., Ha, N. B., Ahmed, A., Ayoub, W., Daugherty, T., Garcia, G., Cooper, A., Keeffe, E. B., Nguyen, M. H.  
2012; 19 (2): E105-E111
- **Transarterial Chemoinfusion for Hepatocellular Carcinoma as Downstaging Therapy and a Bridge toward Liver Transplantation** *AMERICAN JOURNAL OF TRANSPLANTATION*  
De Luna, W., Sze, D. Y., Ahmed, A., Ha, B. Y., Ayoub, W., Keeffe, E. B., Cooper, A., Esquivel, C., Nguyen, M. H.  
2009; 9 (5): 1158-1168
- **LDL and cAMP cooperate to regulate the functional expression of the LRP in rat ovarian granulosa cells** *JOURNAL OF LIPID RESEARCH*  
Azhar, S., Medicherla, S., Shen, W., Fujioka, Y., Fong, L. G., Reaven, E., Cooper, A. D.  
2006; 47 (11): 2538-2550
- **Effectiveness of a screening program for hepatitis C** *DIGESTIVE DISEASES AND SCIENCES*  
Cheung, R. C., Cunningham, B. A., Cooper, A. D.  
2006; 51 (5): 976-981
- **An apolipoprotein(a) peptide delays chylomicron remnant clearance and increases plasma remnant lipoproteins and atherosclerosis in vivo** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*  
Devlin, C. M., Lee, S. J., Kuriakose, G., Spencer, C., BECKER, L., Grosskopf, I., Ko, C., Huang, L. S., Koschinsky, M. L., Cooper, A. D., Tabas, I.  
2005; 25 (8): 1704-1710

- **Removal of chylomicron remnants in transgenic mice overexpressing normal and membrane-anchored hepatic lipase** *JOURNAL OF LIPID RESEARCH*  
Lee, S. J., Kadambi, S., Yu, K. C., David, C., Azhar, S., Cooper, A. D., Choi, S. Y.  
2005; 46 (1): 27-35
- **Endothelial lipase modulates susceptibility to atherosclerosis in apolipoprotein-E-deficient mice** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Ishida, T., Choi, S. S., Kundu, R. K., Spin, J., Yamashita, T., Hirata, K., Kojima, Y., Yokoyama, M., Cooper, A. D., Quertermous, T.  
2004; 279 (43): 45085-45092
- **Endothelial lipase is synthesized by hepatic and aorta endothelial cells and its expression is altered in apoE-deficient mice** *JOURNAL OF LIPID RESEARCH*  
Yu, K. C., David, C., Kadambi, S., Stahl, A., Hirati, K. I., Ishida, T., Quertermous, T., Cooper, A. D., Choi, S. Y.  
2004; 45 (9): 1614-1623
- **Endothelial lipase is a major determinant of HDL level** *JOURNAL OF CLINICAL INVESTIGATION*  
Ishida, T., Choi, S., Kundu, R. K., Hirata, K., Rubin, E. M., Cooper, A. D., Quertermous, T.  
2003; 111 (3): 347-355
- **Mice expressing the human CYP7A1 gene in the mouse CYP7A1 knock-out background lack induction of CYP7A1 expression by cholesterol feeding and have increased hypercholesterolemia when fed a high fat diet** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Chen, J. Y., Levy-Wilson, B., Goodart, S., Cooper, A. D.  
2002; 277 (45): 42588-42595
- **Endothelial lipase: a new lipase on the block** *JOURNAL OF LIPID RESEARCH*  
Choi, S. Y., Hirata, K., Ishida, T., Quertermous, T., Cooper, A. D.  
2002; 43 (11): 1763-1769
- **LDL receptor-related protein mediates cell-surface clustering and hepatic sequestration of chylomicron remnants in LDLR-deficient mice** *JOURNAL OF CLINICAL INVESTIGATION*  
Yu, K. C., Chen, W., Cooper, A. D.  
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- **Postprandial lipoproteins and atherosclerosis** *FRONTIERS IN BIOSCIENCE*  
Yu, K. C., Cooper, A. D.  
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- **Rapid initial removal of chylomicron remnants by the mouse liver does not require hepatically localized apolipoprotein E** *JOURNAL OF LIPID RESEARCH*  
Yu, K. C., Jiang, Y., Chen, W., Cooper, A. D.  
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- **The nuclear matrix protein CDP represses hepatic transcription of the human cholesterol-7 alpha hydroxylase gene** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Antes, T. J., Chen, J., Cooper, A. D., Levy-Wilson, B.  
2000; 275 (34): 26649-26660
- **Expression of the human cholesterol 7 alpha-hydroxylase gene in transgenic mice** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*  
Goodart, S. A., Huynh, C., Chen, W., Cooper, A. D., Levy-Wilson, B.  
1999; 266 (2): 454-459
- **Evaluation of the components of the chylomicron remnant removal mechanism by use of the isolated perfused mouse liver** *JOURNAL OF LIPID RESEARCH*  
Yu, K. C., Jiang, Y., Chen, W., Cooper, A. D.  
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- **Hepatocyte nuclear factor 1 binds to and transactivates the human but not the rat CYP7A1 promoter** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*  
Chen, J., Cooper, A. D., Levy-Wilson, B.  
1999; 260 (3): 829-834
- **Cloning of a unique lipase from endothelial cells extends the lipase gene family** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Hirata, K., Dichek, H. L., Cioffi, J. A., Choi, S. Y., Leeper, N. J., Quintana, L., Kronmal, G. S., Cooper, A. D., Quertermous, T.

1999; 274 (20): 14170-14175

- **Role of the enterohepatic circulation of bile salts in lipoprotein metabolism** *GASTROENTEROLOGY CLINICS OF NORTH AMERICA*  
Cooper, A. D.  
1999; 28 (1): 211-?
- **Multiple processes are involved in the uptake of chylomicron remnants by mouse peritoneal macrophages** *JOURNAL OF LIPID RESEARCH*  
Fujioka, Y., Cooper, A. D., Fong, L. G.  
1998; 39 (12): 2339-2349
- **Accelerated lipoprotein uptake by transplantable hepatomas that express hepatic lipase** *JOURNAL OF LIPID RESEARCH*  
Donner, C., Choi, S. S., Komaromy, M., Cooper, A. D.  
1998; 39 (9): 1805-1815
- **Interaction between ApoB and hepatic lipase mediates the uptake of ApoB-containing lipoproteins** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Choi, S. Y., Goldberg, I. J., Curtiss, L. K., Cooper, A. D.  
1998; 273 (32): 20456-20462
- **Bile salt biosynthesis: An alternate synthetic pathway joins the mainstream** *GASTROENTEROLOGY*  
Cooper, A. D.  
1997; 113 (6): 2005-2008
- **Hepatic uptake of chylomicron remnants** *JOURNAL OF LIPID RESEARCH*  
Cooper, A. D.  
1997; 38 (11): 2173-2192
- **Palo Alto Medical Foundation, Research Institute** *MOLECULAR MEDICINE*  
Krupp, M. A., Cooper, A. D.  
1997; 3 (10): 633-635
- **Reducing saturated fat intake is associated with increased levels of LDL receptors on mononuclear cells in healthy men and women** *JOURNAL OF LIPID RESEARCH*  
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- **Chinese hamster ovary cells expressing a cell surface-anchored form of hepatic lipase - Characterization of low density lipoprotein and chylomicron remnant uptake and selective uptake of high density lipoprotein-cholesteryl ester** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Komaromy, M., Azhar, S., Cooper, A. D.  
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- **Activation of LDL receptor gene expression in HepG2 cells by hepatocyte growth factor** *JOURNAL OF LIPID RESEARCH*  
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- **A scavenger that really scavenges is better in the liver than in the artery** *HEPATOLOGY*  
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- **Relative roles of the LDL receptor, the LDL receptor-like protein, and hepatic lipase in chylomicron remnant removal by the liver** *JOURNAL OF LIPID RESEARCH*  
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- **LOCATION AND REGULATION OF LOW-DENSITY-LIPOPROTEIN RECEPTORS IN INTESTINAL EPITHELIUM** *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*  
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- **DEVELOPMENT OF MULTI-RESIDUE METHODOLOGY FOR THE HPLC DETERMINATION OF VETERINARY DRUGS IN ANIMAL-TISSUES** *FOOD ADDITIVES AND CONTAMINANTS*  
Cooper, A. D., Creaser, C. S., Farrington, W. H., Tarbin, J. A., Shearer, G.  
1995; 12 (2): 167-176
- **Hepatic lipoprotein metabolism: recent molecular insights.** *Progress in liver diseases*  
Cooper, A. D.  
1995; 13: 173-200
- **ENHANCED EXPRESSION OF GRANULOSA-CELL LOW-DENSITY-LIPOPROTEIN RECEPTOR ACTIVITY IN RESPONSE TO IN-VITRO CULTURE CONDITIONS** *JOURNAL OF CELLULAR PHYSIOLOGY*  
Reaven, E., Tsai, L., SPICHER, M., Shilo, L., Philip, M., Cooper, A. D., Azhar, S.  
1994; 161 (3): 449-462
- **CHARACTERISTICS AND REGULATION OF BILE-SALT SYNTHESIS AND SECRETION BY HUMAN HEPATOMA HEPG2 CELLS** *HEPATOLOGY*  
Cooper, A. D., Craig, W. Y., Taniguchi, T., Everson, G. T.  
1994; 20 (6): 1522-1531
- **LOW-DENSITY-LIPOPROTEIN RECEPTORS IN RAT ADIPOSE-CELLS - SUBCELLULAR-LOCALIZATION AND REGULATION BY INSULIN** *JOURNAL OF LIPID RESEARCH*  
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- **REGULATION OF CHOLESTEROL-7 ALPHA-HYDROXYLASE GENE-EXPRESSION IN HEP-G2 CELLS - EFFECT OF SERUM, BILE-SALTS, AND COORDINATE AND NONCOORDINATE REGULATION WITH OTHER STEROL-RESPONSIVE GENES** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
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- **Pain assessment in accident and emergency.** *Accident and emergency nursing*  
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- **EARLY INDUCTION OF LDL RECEPTOR GENE DURING RAT-LIVER REGENERATION** *JOURNAL OF CELLULAR PHYSIOLOGY*  
Bocchetta, M., Bruscalupi, G., Castellano, F., Trentalance, A., Komaromy, M., Fong, L. G., Cooper, A. D.  
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- **A COMPARISON OF THE ROLES OF THE LOW-DENSITY-LIPOPROTEIN (LDL) RECEPTOR AND THE LDL RECEPTOR-RELATED PROTEIN-ALPHA-2-MACROGLOBULIN RECEPTOR IN CHYLOMICRON REMNANT REMOVAL IN THE MOUSE IN-VIVO** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
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- Jackson, S. M., Wood, L. C., Lauer, S., Taylor, J. M., Cooper, A. D., ELIAS, P. M., Feingold, K. R.  
1992; 33 (9): 1307-1314
- **INHIBITION OF DEBRISOQUIN CLEARANCE IN PERFUSED RAT LIVERS AND INHIBITION OF DEXTROMETHORPHAN METABOLISM IN HUMAN LIVER-MICROSOMES BY 4-HYDROXYDEBRISOQUIN OR OTHER METABOLITES OF DEBRISOQUIN** *DRUG METABOLISM AND DISPOSITION*  
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1992; 20 (3): 379-382
  - **INHIBITION OF LIPOPOLYSACCHARIDE-INDUCED INTERLEUKIN-1-BETA MESSENGER-RNA EXPRESSION IN MOUSE MACROPHAGES BY OXIDIZED LOW-DENSITY-LIPOPROTEIN** *JOURNAL OF LIPID RESEARCH*  
Fong, L. G., Fong, T. A., Cooper, A. D.  
1991; 32 (12): 1899-1910
  - **EVIDENCE FOR STEROL-INDEPENDENT REGULATION OF LOW-DENSITY-LIPOPROTEIN RECEPTOR ACTIVITY IN HEP-G2 CELLS** *BIOCHEMICAL JOURNAL*  
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  - **USE OF AN ANTI-LOW DENSITY LIPOPROTEIN RECEPTOR ANTIBODY TO QUANTIFY THE ROLE OF THE LDL RECEPTOR IN THE REMOVAL OF CHYLOMICRON REMNANTS IN THE MOUSE INVIVO** *JOURNAL OF CLINICAL INVESTIGATION*  
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  - **METABOLIC BASIS OF CHOLESTEROL GALLSTONE DISEASE** *GASTROENTEROLOGY CLINICS OF NORTH AMERICA*  
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  - **ELISA MEASUREMENT OF LDL RECEPTORS** *JOURNAL OF LIPID RESEARCH*  
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