

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Rothblat, George	POSITION TITLE		
COMMONS USER NAME	Professor		
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Connecticut	B.S.	1957	Bacteriology
University of Pennsylvania	Ph.D.	1961	Medical Microbiology

A. Positions and Honors**Positions and Employment**

1956-1961 Research Investigator, Institute for Cooperative Research, Univ. of Pennsylvania, Phila. PA
 1961-1966 Associate, The Wistar Institute, Philadelphia, Pennsylvania
 1966-1974 Associate Member, The Wistar Institute, Philadelphia, Pennsylvania
 1966-1971 Assistant Professor, Department of Medical Microbiology, School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania
 1971-1976 Associate Professor, Department of Medical Microbiology, School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania
 1971-1975 Coordinator of Research Training, The Wistar Institute, Philadelphia, Pennsylvania
 1974-1976 Member, The Wistar Institute, Philadelphia, Pennsylvania
 1977-1983 Director of Graduate Training, Department of Physiology/Biochemistry, The Medical College of Pennsylvania, Philadelphia, Pennsylvania
 1984-1991 Chairman, Department of Physiology/Biochemistry, The Medical College of Pennsylvania, Philadelphia, Pennsylvania
 1990-1992 Director, Atherosclerosis Center, The Medical College of Pennsylvania, Philadelphia, Penna
 1976-2000 Prof. of Biochemistry, Dept. of Biochemistry, MCP Hahnemann School of Medicine, Philadelphia, Pennsylvania
 2000- Adjunct Professor of Biochemistry, MCP Hahnemann University
 2000- Senior Member Stokes' Research Institute, The Children's Hospital of Philadelphia
 2000- Research Professor of Pediatrics, University of Pennsylvania

Honors

1966-1969 NIH Special Research Fellowship
 1970-1975 Established Investigator, American Heart Association
 1986-1989 Executive Committee, Council on Arteriosclerosis, American Heart Association
 1988 Chairman, Gordon Research Conference on Lipid Metabolism, Meriden, New Hampshire
 1988-1990 Recipient, Focused Giving Program, Johnson & Johnson Co.
 1995-1998 Executive Committee, Council on Arteriosclerosis, American Heart Association
 1998 Elected Fellow, American Association for the Advancement of Science

B. Selected peer-reviewed publications (in chronological order)

1. Fournier, N., Francone, O., Rothblat, G.H., Goudouneche, D., Cambillau, M., Royer, L., Moatti, N., Simon, A., Paul, J.L. "Enhanced efflux of cholesterol from ABCA1-expressing macrophages to serum from type IV hypertriglyceridemic subjects". *Atherosclerosis* **171**: 287-293 (2003).
2. Kellner-Weibel, G., Luke, S.J., Rothblat, G.H. "Cytotoxic cellular cholesterol is selectively removed by apo A-I via ABCA1". *Atherosclerosis* **171**: 235-243 (2003).
3. Connelly, M.A., de le Llera-Moya, M., Peng, Y., Drazul-Schrader, D., Rothblat, G.H., Williams, D.L., "Separation of lipid transport functions by mutations in the extracellular domain of scavenger receptor class B, type I. *J. Biol. Chem.* **278**: 25773-25782 (2003)

4. Liu L., Bortnick, A.E., Nickel, M., Dhanasekaran, P., Subbaiah, P., Lund-Katz, S., Rothblat, G.H., Phillips, M.C. "Effects of apolipoprotein A-I on ATP-binding cassette transporter AI-mediated efflux of macrophage phospholipid and cholesterol". *J. Biol. Chem.* **278**: 42976-42984 (2003)
5. Yancey, P.G., Kawashiri, M., Moore, R., Glick, J.M., Williams, D.L., Connelly, M.A., Rader, D.J., Rothblat, G.H. "In vivo modulation of HDL phospholipid has opposing effects on SR-BI- an ABCA1-mediated cholesterol efflux". *J. Lipid Res.* (2003)
6. Zhang, Y-Z., Zanotti, I., Reilly, M., Glick, J.M., Rothblat, G.H., Rader, D.J. "Overexpression of apolipoprotein A-I promotes reverse transport of cholesterol from macrophages to feces in vivo". *Circulation* **108**: 661-663 (2003)
7. Romanenko, V.G., Rothblat, G.H., Levitan, I. "Sensitivity of volume-regulated anion current to cholesterol structural analogues" *J. Gen. Physiol.* **123**: 77-87 (2004).
8. Thuahnai, S.T., Lund-Katz, S., Dhanasekaran, P., de la Llera-Moya, M., Connelly, M.A., Williams, D.L., Rothblat, G.H., Phillips, M.C. "Scavenger Receptor Class B Type I-mediated Cholesterol Ester-selective Uptake and Efflux of Unesterified Cholesterol" *J. Biol. Chem.* **279**:12448-12455 (2004)
9. Parathath, S., Sahoo, D., Darlington, Y.F., Peng, Y., Collins, H.L., Rothblat, G.H., Williams, D.L., Connelly, M.A. "Glycine 420 near the C-terminal transmembrane domain of SR-BI is critical for proper delivery and metabolism of high density lipoprotein cholesteryl ester. *J. Biol. Chem.* **279**: 24976-24985 (2004)
10. Yancey, P.G., Asztalos, B., Stettler, N., Piccoli, D., Williams, D., Connelly, M., Rothblat, G. "SR-BI-and ABCA1-mediated cholesterol efflux to serum from patients with Alagille syndrome" *J. Lipid Res.* **45**: 1724-1732 (2004)
11. Zanotti, I. Favari, E., Sposito, A., Rothblat, G.H., Bernini, F. "Pitavastatin increases ABCA1-mediated lipid efflux from Fu5AH rat hepatoma cells" *Biochem. Biophys. Res. Comm.* **321**: 670-674 (2004)
12. Vedhachalam, C., Liu, L., Nickel, M., Dhanasekaran, P., Anantharamaiah, G.M., Lund-Katz, S., Rothblat, G.H., Phillips, M.C. "Influence of apoA-I structure on the ABCA1-mediated efflux of cellular lipids". *J. Biol. Chem.* **279**: 49931-49939 (2004)
13. Parathath, S., Connelly, M.A., Rieger, R.A., Klein, S.M. Abumrad, A., de la Llera-Moya, M., Ident, C.R., Rothblat, G.H., Williams, D.L. "Changes in plasma membrane properties and phosphatidylcholine subspecies of insect Sf9 cells due to expression of scavenger receptor class B, type I, and CD36". *J. Biol. Chem.* **279**:41310-41318 (2004)
14. Asztalos BF, de la Llera-Moya M, Dallal GE, Horvath KV, Schaefer EJ, Rothblat GH. Differential effects of the HDL subpopulations on cellular ABCA1- and SRB1-mediated cholesterol efflux. *J Lipid Res.* **46**:2246-2253 (2005).
15. Bates SR, Tao J-Q, Collins HL, Francone OL, Rothblat GH. Pulmonary abnormalities due to ABCA1 deficiency in mice. *Am J Physiol* ; **289**:980-989 (2005)
16. Moore RE, Navab M, Millar JS, Zimetti F, Hama S, Rothblat GH, Rader DJ. Increased atherosclerosis in mice lacking apolipoprotein A-I attributable to both impaired reverse cholesterol transport and increased inflammation. *Circulation Research*; **97**:763-771 (2005)
17. Naik SU, da Silva JS, Jaye M, Macphee CH, Billheimer JT, Rothblat GH, Rader DJ. Pharmacologic activation of liver X receptors promotes reverse cholesterol transport in vivo. *Circulation* **113**:90-97 (2006).
18. Selvaraj V, Asano A, Buttke De, McElwee JL, Nelson JL, Wolff A, Merdiushev T, Formes MW, Cohen AW, Lisanti MP, Rothblat GH, Kopf GS, Travis AJ. Segregation of micron-scale membrane sub-domains in live murine sperm. *J. Cellular Physiology, In Press* (2006)
19. Trogan E, Feig JE, Dogan S, Rothblat GH, Angeli V, Tacke F, Randolph GJ, Fisher EA. Gene expression changes in foam cells and the role of chemokine receptor CCR& during atherosclerosis regression in apoE-deficient mice. *Proc. Natl. Acad. Sci.*, **103**:3781-3786(2006)
20. Zhang Y-Z, da Silva JS, Reilly M, Billheimer JT, Rothblat GH, Rader DJ. Hepatic expression of scavenger receptor class B type I (SR-BI) is a positive regulator of macrophage reverse cholesterol transport in vivo. *J Clin Invest*; **115**:2870-2874 (2005)
21. Duong M-N, Jin W, Zanotti I, Favari E, Rothblat GH. The relative contributions of ABCA1 and SR-BI to cholesterol efflux to serum from fibroblasts and macrophages. *Arterioscler.Thromb.and Vascular Biol.* **26**:541-547 (2006).
22. Zimetti F, Weibel GK, Duong M-N, Rothblat GH. Measurement of cholesterol bidirectional flux between cells and lipoproteins. *J. Lipid Res.*,**47**:605-613 (2006).