

**BIOGRAPHICAL SKETCH**

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NAME Ann Marie Schmidt		POSITION TITLE Professor	
eRA COMMONS USER NAME Schmidta			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
New York University	B.A.	1979	Biology/History
New York University	M.D.	1983	Medicine (honors)

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

Intern, Internal Medicine, New York University Medical Center, Bellevue Hospital Center, July, 1983- June, 1984.

Resident, Internal Medicine, New York University Medical Center, Bellevue Hospital Center, July, 1984- June, 1987.

Chief Resident, Internal Medicine, New York University Medical Center, Bellevue Hospital Center, July, 1987- June, 1988.

Fellow, Hematology, New York University Medical Center, Bellevue Hospital Center, July, 1988- June, 1989.

Fellow, Medical Oncology, New York University Medical Center, Bellevue Hospital Center, July, 1989-June, 1990.

Teaching Assistant, Internal Medicine, New York University School of Medicine, New York, New York, 1983-1990.

Post-Doctoral Research Fellow, Columbia University, Department of Physiology and Cellular Biophysics, Laboratory of Dr. David Stern, July, 1990- June, 1993.

Assistant Professor, Columbia University, Department of Medicine, Division of Molecular Medicine, July, 1993- present.

Assistant Professor of Medicine (in Surgery), Columbia University, Departments of Medicine and Surgery, May, 1995-November, 1998.

Associate Professor, Division of Surgical Science, Department of Surgery, with tenure, December 1, 1998- June 2003.

Professor, Division of Surgical Science, Department of Surgery, with tenure, July 1, 2003-present.

Chief, Division of Surgical Science, Department of Surgery, April, 2002-present.

Gerald & Janet Carrus Professor of Surgical Science, Department of Surgery, October, 2003-present

**Honors:**

Dean's List 1975-1979; Phi Beta Kappa 1978; Alpha Omega Alpha 1982; Juvenile Diabetes 1990-1992; Foundation Fellowship; Harold and Golden Lamport Prize for Excellence in Clinical Research (Columbia University 1998); American Society of Clinical Investigation 1999; Schunk-Prize for Medicine, Justus-Liebig University, 1999; 2006, American Academy of Physicians; 2007, JDRF Scholar Award

**B. Selected peer-reviewed Publications: (from a total of >200 published papers)**

- Schmidt, A.M., Yan, S.D., Brett, J., Mora, R., and Stern, D. Regulation of mononuclear phagocyte migration by cell surface binding proteins for advanced glycosylation endproducts. J. Clin. Invest. 92: 2155-2168, 1993.

2. Wautier, J-L., Zoukourian, C., Chappey, O., Wautier, M.P., Guillausseau, P.J., Cao, R., Hori, O., Stern, D., and A.M. Schmidt. Receptor-mediated endothelial cell dysfunction in diabetic vasculopathy: soluble receptor for advanced glycation endproducts blocks hyperpermeability. *J. Clin. Invest.*, 97:238-243, 1996.
3. Yan, S.D., Chen, J, Fu, M, Chen, M, Zhu, H., Roher A, Slattery, T, Nagashima, M, Morser, J, Migheli, A, Nawroth, P, Godman, G, Stern, D and A.M. Schmidt. RAGE in Alzheimer's disease: a receptor mediating A peptide-induced oxidant stress, neurotoxicity, and activation of microglia. *Nature* 382:685-691, 1996.
4. Park, L, Raman, KG, Lee, KJ, Yan L, Ferran LJ, Chow WS, Stern, D, and Schmidt, A.M. Suppression of accelerated diabetic atherosclerosis by soluble Receptor for AGE (sRAGE). *Nature Medicine* 4:1025-1031,1998.
7. Hofmann, M.A., Drury, S, Fu C, Qu, W, Taguchi A, Lu Y, Avila, C, Kambham N, Bierhaus, A, Nawroth, P, Neurath, MF, Slattery, T, Beach, D, McClary, J, Nagashima, M, Morser, J, Stern, D, and Schmidt, A.M. RAGE mediates a novel proinflammatory axis: a central cell surface receptor for S100/calgranulin polypeptides. *Cell* 97:889-901,1999.
8. Taguchi, A, Blood DC, del Toro G, Canet A, Lee DC, Qu W, Tanji N, Lu Y, Lalla, E, Fu C, Hofmann MA, Kislinger T, Ingram M, Lu A, Tanaka H, Hori O, Ogawa, S, Stern, D and Schmidt, A.M. Blockade of amphoterin/RAGE signalling suppresses tumor growth and metastases. *Nature* 405:354-360, 2000.
9. Bucciarelli, L.G., Wendt, T., Qu, W., Lu, Y., Lalla, E., Rong, L.L., Goova, M.T., Moser, B., Kislinger, T.K., Lee, D.C., Kashyap, Y., Stern, D.M., and Schmidt, A.M. RAGE Blockade stabilizes established atherosclerosis in diabetic apolipoprotein E null mice. *Circulation* 106:2827-2835, 2002.
10. Sakaguchi T., Yan, S.F., Yan, S.D., Rong, L.L., Sousa, M., Belov, D., Andrassy, M., Marso, S.P., Duda, S., Arnold, B., Liliensiek, B., Nawroth, P.P., Stern, D.M., Schmidt, A.M., and Naka, Y. Arterial restenosis: central role of RAGE-dependent neointimal expansion. *Journal of Clinical Investigation*, 111:959-972, 2003.
11. Rong, L.L., Yan, S.F., Wendt, T., Hans-Wagner, D., Pachydaki, S., Bucciarelli, L.G., Adebayo, A., Qu, W., Lu, Y., Kostov, K., Lalla, E., Yan, S.D., Gooch, C., Szabolcs, M., Trojaborg, W., Hays, A.P., and Schmidt, A.M. RAGE modulates peripheral nerve regeneration via recruitment of both inflammatory and axonal outgrowth pathways. *FASEB J* 18:1818-1825, 2004.
12. Cataldegirmen, G., Zeng, S., Feirt, N., Ippagunta, N., Dun, H., Qu, W., Lu, Y., Rong, L.L., Hofmann, M.A., Kislinger, T., Pachydaki, S.I., Jenkins, D.G., Weinberg, A., Lefkowitz, J., Rogiers, X., Yan, S.F., Schmidt, A.M., and Emond, J. RAGE limits regeneration after massive liver injury by coordinated suppression of TNF-alpha and NF-kappaB. *J. Experimental Medicine* 201:473-484, 2005.
13. Bucciarelli, L.G., Kaneko, M., Ananthakrishnan, R., Harja, E., Lee, L.K., Hwang, Y.C., Lerner, S., Bakr, S., Li, Q., Lu, Y., Song, F., Qu, W., Gomez, T., Zou, Y.S., Yan, S.F., Schmidt, A.M., and Ramasamy, R. Receptor for advanced glycation endproducts: key modulator of myocardial ischemic injury. *Circulation* 113: 1226-1234, 2006.
14. Moser, B., Desai, D.D., Downie, M.P., Chen, Y., Yan, S.F., Herold, K., Schmidt, A.M., and Clynes, R. Receptor for advanced glycation endproducts expression on T cells contributes to antigen-specific cellular expansion in vivo. *J. Immunol* 179:8051-8058, 2007.
15. Ramasamy, R., Yan, S.F., and Schmidt, A.M. Methylglyoxal Comes of AGE. *Cell* 124:258-260, 2006.
16. Harja, E., Bu, D.X., Hudson, B.I., Chang, J.S., Shen, X., Hallam, K., Kalea, A.Z., Lu, Y., Rosario, R.H., Oruganti, S., Nikolla, Z., Belov, D., Lalla, E., Ramasamy, R., Yan, S.F., and Schmidt, A.M. Vascular and inflammatory stresses mediate atherosclerosis via RAGE in apo E deficient mice. *J. Clin. Invest.* 118: 183-194, 2008.
17. Yan, S.F., Ramasamy, R., and Schmidt, A.M. Mechanisms of disease: advanced glycation endproducts and their receptor in inflammation and diabetes complications. *Nat Clin Pract Endocrinol Metab* 4:285-293, 2008.
18. Guo, J., Ananthakrishnan, R., Qu, W., Lu, Y., Reiniger, N., Zeng, S., Ma, W., Rosario, R., Yan, S.F., Ramasamy, R., D'Agati, V., and Schmidt, A.M. RAGE mediates podocyte injury in adriamycin-induced glomerulosclerosis. *J An Soc Nephrol* 19:961-972, 2008.
19. Bucciarelli, Lg., Ananthaakrishnan, R., Hwang, Y.C., Kaneko, M., Song, F., Sell, D.R., Strauch, C., Monnier, V.M., Fang Yan, S., Schmidt, A.M., and Ramasamy, R. RAGE & modulation of ischemic injury in the diabetic myocardium. *Diabetes*, In press, 2008.

Principal Investigator/Program Director (Last, First, Middle): Schmidt, Ann Marie