

# Dennis Christopher Bruemmer, M.D.

## CURRICULUM VITAE

May 2004

### **Personal**

Name Dennis Christopher Bruemmer, MD  
Current position Assistant Professor of Medicine  
Business address/ University of Kentucky  
Current employer Division of Endocrinology and Molecular Medicine  
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Place of Birth 77855 Achern (Baden-Wuerttemberg), Germany  
Date of Birth October 22, 1970  
Citizenship Germany  
Academic degree MD degree – Medical School, University Hospital Eppendorf,  
Hamburg, Germany, 1998

Marital Status Married

### **EDUCATION**

1977 - 1981 Elementary School, Pestalozzi-Grundschule, Stade, Germany  
1981 - 1983 International School Hamburg, Germany  
1983 - 1990 High School Gymnasium Athenaeum Stade, Germany,  
German last school exam, German Abitur May/1990  
1990 - 1991 Military Service, Fernmeldeausbildungskompanie 1/3, Germany  
1991 – 1998 Medical School, University Hospital Eppendorf, Hamburg, Germany  
1994 - 1996 Clinical electives  
Division of Cardiology, General Hospital Stade, Germany  
Multi-Organ-Transplant Center, Methodist Hospital Cardiology  
Consultative Service, Baylor College Houston,

Texas, USA

University Hospital Eppendorf, Hamburg, Germany  
 Medical Clinic

University Hospital Eppendorf, Hamburg, Germany  
 Department of Cardiothoracic Surgery

1997 - 1998 Last year of medical education/clinical clerkships  
 University Hospital Bern, Switzerland  
 Div. of General Surgery and Transplantation (16 weeks)  
 University Hospital Eppendorf, Hamburg, Germany  
 Pediatric Clinic (16 weeks)  
 University Hospital Eppendorf, Hamburg, Germany  
 Medical Clinic (16 weeks)

April 1998 Third qualifying examination, Graduation at the Medical Faculty of  
 the University of Hamburg, Germany

1996-1998 MD thesis, Medical School, University Hospital Eppendorf,  
 Hamburg, Germany

06/1998 – 11/1999 Internship  
 Department of Medicine/Cardiology, Charité, Campus Virchow  
 Klinikum and German Heart Institute

12/1999 German licence to practice medicine (Approbation)

12/1999 – 03/2003 Residency Internal Medicine/Cardiology  
 Department of Medicine/Cardiology, Charité, Campus Virchow  
 Klinikum and German Heart Institute

04/2001 – 06/2003 Postdoctoral Research Fellowship in Cellular and Molecular Biology  
 Division of Endocrinology, Diabetes and Hypertension, University of  
 California, Los Angeles, USA  
 Research projects:

1. Role of Peroxisome-proliferator activated receptor- $\gamma$  (PPAR $\gamma$ ) in  
 diabetes mellitus and atherosclerosis
2. Role of Osteopontin in macrophage biology and atherosclerosis

## **DOCTORAL THESIS**

Expression of type III hyperlipoproteinemia in patients homozygous for apolipoprotein E-2 is modulated by lipoprotein lipase and postprandial hyperinsulinemia.

*Magna cum laude*

Performed 1996-1998 under supervision of Prof. Dr. rer. nat. Dr. h.c. U. Beisiegel, Medical Clinic, University Hospital Eppendorf, Hamburg, Germany

## **FACULTY APPOINTMENTS**

July 2003 - May 2004      Assistant Professor of Medicine  
Division of Endocrinology, Diabetes and Hypertension, University of California, Los Angeles, USA

Since May 2004 - present Assistant Professor of Medicine  
Division of Endocrinology and Molecular Medicine  
University of Kentucky, Lexington

## **AWARDS AND GRANTS**

Research Fellowship Acute Coronary Syndrome 2000, MSD Sharp and Dohme GmbH  
Germany

Research Fellowship in Cell and Molecular Biology by the Gonda (Goldschmied) Diabetes Center, University of California, Los Angeles, 2001-2003

Finalist AstraZeneca Cardiovascular Young Investigators Award 2001

New Investigator Award 2002, Council for High Blood Pressure Research, American Heart Association

Young Investigator Award Basic Science (1. Prize) 2003, European Society of Cardiology

Young Investigator Travel Grant Award, The Endocrine Society, Hot Topics in Endocrinology, The Role of Nuclear Receptors in Cardiovascular Disease, 2003

ATVB Merit Award for Young Investigators 2003, American Heart Association's Council on Arteriosclerosis, Thrombosis, and Vascular Biology

Pilot and Feasibility Award 2004, Diabetes and Endocrinology Research Center, University of California, Los Angeles and San Diego

Young Scholars Award 2004, American Society of Hypertension

## **MEMBERSHIPS IN SCIENTIFIC ORGANIZATIONS**

Professional Member American Heart Association and American Stroke Association

Member Council for Arteriosclerosis, Thrombosis and Vascular Biology

Member American Society of Hypertension

## **PEER REVIEW AND CONSENSUS COMMITTEES**

American Diabetes Association, National Committee Member and Grant Review Panel

Member since 2003

National Institutes of Health (NIH/NHLBI), Progression of Cardiovascular Disease in Type I Diabetes, Grant Review Panel, since 2004

Reviewer for *Diabetes; Arteriosclerosis, Thrombosis and Vascular Biology; Journal of Vascular Research; Atherosclerosis*

## **TRAINING OF FELLOWS AND STUDENTS**

### **GRADUATE STUDENTS**

Bradley-Derek Stauber 06/2003 – 05/2004

Sarah Duong 06/2003 – 05/2004

### **POSTDOCTORAL FELLOWS**

Florian Blaschke, MD 01/2003 – 05/2004

Yasunori Takata, MD, PhD 03/2003 – 05/2004

Evren Caglayan, MD 02/2004 – 05/2004

## **PUBLICATIONS/BIBLIOGRAPHY**

### **A.) RESEARCH PAPERS - PEER REVIEWED (published or in press):**

1. **Brummer D**, Evans D, Berg D, Greten H, Beisiegel U, Mann WA. Expression of type III hyperlipoproteinemia in patients homozygous for apolipoprotein E-2 is modulated

- by lipoprotein lipase and postprandial hyperinsulinemia. *J Mol Med* 1998; 76: 355-364
2. Goetze S, Blaschke F, Stawowy P, **Bruemmer D**, Spencer C, Graf K, Grafe M, Law RE, Fleck E. TNF $\alpha$  inhibits insulin's antiapoptotic signalling in vascular smooth muscle cells. *Biochem Biophys Res Commun* 2001; 287: 662-70
  3. **Bruemmer D**, Riggers U, Holzmeister J, Ludewig B, Grill M, Lippek F, Settmacher U, Regitz-Zagrosek V, Fleck E, Graf K. Expression of CD40 in vascular smooth muscle cells and macrophages is associated with the early development of human atherosclerotic lesions. *Am J Card* 2001; 87: 21-7
  4. Knecht M, Pagel I, Langenickel T, Philipp S, Scheuermann-Freestone M, Willnow T, **Bruemmer D**, Graf K, Dietz R, Willenbrock R. Increased expression of renal neutral endopeptidase in severe heart failure. *Life Sci* 2002; 71: 2701
  5. Kintscher U, Lyon C, Wakino S, **Bruemmer D**, Feng X, Goetze S, Graf K, Moustakas A, Staels B, Fleck E, Hsueh WA, Law RE. PPAR $\alpha$  inhibits TGF- $\beta$  induced  $\beta$ 5 Integrin Transcription in vascular smooth muscle cells by interacting with Smad4. *Circ Res.* 2002; 91:35-44.
  6. Kintscher U, Wakino S, **Bruemmer D**, Goetze S, Graf K, Hsueh W.A, Law RE. TGF-beta(1) induces peroxisome proliferator-activated receptor gamma1 and gamma2 expression in human THP-1 monocytes. *Biochem Biophys Res Commun.* 2002; 297: 794-9
  7. **Bruemmer D**, Yin F, Liu J, Kiyono T, Fleck E, Van Herle A, Graf K, Law RE. Atorvastatin inhibits expression of minichromosome maintenance proteins in vascular smooth muscle cells. *Eur J Pharmacol.* 2003;462:15-23.
  8. **Bruemmer D**, Berger JP, Liu J, Kintscher U, Wakino S, Fleck E, Moller D, Law RE. A Non-Thiazolidinedione Partial Peroxisome Proliferator-activated Receptor Ligand Inhibits Vascular Smooth Muscle Cell Growth. *Eur J Pharmacol.* 2003; 466 :225-234.
  9. **Bruemmer D**, Yin F, Liu J, Kiyono T, Fleck E, Van Herle A, Law R. Rapamycin inhibits E2F-dependent Expression of Minichromosome Maintenance Proteins in Vascular Smooth Muscle Cells. *Biochem Biophys Res Commun.* 2003; 303:251-8.
  10. De Dois, ST, **Bruemmer D**, Dilley, RJ, Jennings, GLR, Law, RE, Little P. Inhibitory activity of clinical thiazolidinedione PPAR $\gamma$  ligands toward cultured internal mammary artery, radial artery and saphenous vein smooth muscle cells. *Circulation.* 2003; 107:2548-50.

11. **Bruemmer D**, Yin F, Liu J, Berger JP, Kiyono T, Chen J, Fleck E, Van Herle A, Forman BM, Law RE. Peroxisome Proliferator-activated Receptor Inhibits Expression of Minichromosome Maintenance Proteins in Vascular Smooth Muscle Cells. *Mol Endocrinol*. 2003; 17:1005-18
12. Kintscher U, **Bruemmer D**, Blaschke F, Unger T, Law RE. p38 MAP kinase negatively regulates angiotensin II-mediated effects on cell cycle molecules in human coronary smooth muscle cells. *Biochem Biophys Res Commun*. 2003; 305:552-556
13. Eibl G, **Bruemmer D**, Okada Y, Duffy JP, Law RE, Reber HA, Hines OJ. PGE<sub>2</sub> is generated by specific COX-2 activity and increases VEGF production in COX-2 expressing human pancreatic cancer cells. *Biochem Biophys Res Commun*. 2003; 306:887-97.
14. **Bruemmer D**, Yin F, Liu J, Berger JP, Sakai T, Blaschke F, Fleck E, Van Herle AJ, Forman BM, Law RE. Regulation of the growth arrest and DNA damage-inducible gene 45 (GADD45) by Peroxisome Proliferator-activated Receptor in Vascular Smooth Muscle Cells. *Circ Res*. 2003; 93:38-47
15. **Bruemmer D**, Yin F, Liu J, Kiyono T, Fleck E, Van Herle A, Law RE. Expression of Minichromosome Maintenance Proteins in Vascular Smooth Muscle Cells is ERK/MAPK-dependent. *Exp Cell Res*. 2003; 290:28-37
16. **Bruemmer D**, Collins AR, Noh G, Wang W, Territo M, Arias-Magallona S, Fishbein MC, Blaschke F, Kintscher U, Graf K, Law RE, Hsueh WA. Angiotensin II Accelerated Atherosclerosis is Attenuated in Osteopontin Deficient Mice. *J Clin Invest*. 2003; 112:1318-31.
17. Collins AR, Schnee J, Wang W, Kim S, Fishbein MC, **Bruemmer D**, Law RE, Nicholas S, Ross RS, Hsueh WA. Osteopontin modulates AngII-induced fibrosis in the intact murine heart. *J Am Coll Cardiol*, 2003; 43: 1698-705
18. Yin F, **Bruemmer D**, Blaschke F, Hsueh WA, Law RE, Van Herle AJ. Signaling Pathways Involved in Induction of GADD45 Gene Expression and Apoptosis by Troglitazone in Human MCF-7 Breast Carcinoma Cells. *Oncogene*, 2003; (in press)
19. Blaschke F, **Bruemmer D**, Takata Y, Yin F, Hsueh WA, Law RE. C-reactive protein induces apoptosis in human coronary vascular smooth muscle cells. *Circulation*, 2003; (in press)

B.) RESEARCH PAPERS - PEER REVIEWED (submitted or in preparation):

1. Wakino S, Collins AR, Liu J, Lyon C, Chu VH, **Bruemmer D**, Fishbein MC, Smith SA, Forman BM, Moller DE, Hsueh WA, Law RE. PPAR $\gamma$  Ligands Inhibit Angiotensin II-Accelerated Atherosclerosis in LDLR $^{-/-}$  Mice. *Circulation*, 2003; (submitted)
2. **Bruemmer D**, Takata Y, Blaschke F, Towler D, Law RE, Hsueh WA. Liver X-Receptor-dependent transcriptional Suppression of Osteopontin in macrophages. *J Biol Chem* 2004 (in preparation).
3. Blaschke F, Takata Y, Liu J, Hsueh WA, Law RE, **Bruemmer D**. Expression and function of the Liver X Receptor in vascular smooth muscle cells. *Circ Res* 2004 (in preparation).

C.) RESEARCH PAPERS – NON-PEER REVIEWED (published):

1. Riggers U, Holzmeister J, **Bruemmer D**, Stawowy P, Blaschke F, De Buhr I, Wollert-Wulf B, Regitz-Zagrosek V, Fleck E, Graf K. Immunological and inflammatory mechanisms in Human Atherosclerosis. *Allergo J* 2000; 9:421-9

D.) RESEARCH PAPERS – NON-PEER REVIEWED (in press):

None

E.) RESEARCH PAPERS – NON-PEER REVIEWED (submitted):

None

F.) BOOK CHAPTERS

1. **Bruemmer D**, Blaschke F, Liu J, Law R.E. PPAR $\gamma$  Signalling in Vascular Cells in 2003. *International Congress Series 2003*; (in press)

#### G.) REVIEWS - PEER REVIEWED:

1. Hsueh WA and **Bruemmer D**. PPAR $\gamma$ : Implications for Cardiovascular Disease. *Hypertension*, 2004; 43:297-305.
2. Blaschke F, **Bruemmer D**, Law RE. Egr-1 is a Major Vascular Pathogenic Transcription Factor in Atherosclerosis and Restenosis. *Rev in Endocr Metab Disord*, 2003; (in press)
3. **Bruemmer D**, Blaschke F, Law RE. New Targets for peroxisome proliferator activated receptor {gamma} in the Vessel Wall: Implications for Restenosis. *Int J Obes Relat Metab Disord*, 2003 (in press)

#### H.) REVIEWS – NON-PEER REVIEWED:

1. **Bruemmer D**, Law RE. Thiazolidinediones and Regulation of Smooth Muscle Cell Proliferation. *American Journal of Medicine*. 2003; 115 Suppl 8A:87S-92S.

#### I.) ABSTRACTS

1. **Bruemmer D**, Evans D, Berg D, Greten H, Beisiegel U, Mann WA. Role of ApoE, Lipoprotein Lipase and Insulin in the postprandial metabolism of patients with mixed hyperlipidemia. *Arterioscler Thromb Vasc Biol* 1997; 17: 2316-2325
2. **Bruemmer D**, Evans D, Berg D, Greten H, Beisiegel U, Mann WA. Postprandial Metabolism in Patients with mixed Hyperlipoproteinemia: Role of ApoE, Lipoprotein Lipase and Insulin. 66<sup>th</sup> Congress of the European Atherosclerosis Society Florence 1996
3. Stawowy P, De Buhr I, **Bruemmer D**, Graf K, Seidah NG, Chrétien M, Fleck E, Marcinkiewicz M. Proprotein convertase PC5 and its putative substrate integrin  $\alpha_v$  are upregulated following vascular injury in rodents. *Euro Heart J*. 2000; 21:483
4. **Bruemmer D**, Riggers U, Holzmeister J, Ludewig L, Grill M, Lippek F, Settmacher U, Regitz-Zagrosek V, Fleck E, Graf K. Die CD40 Expression in glatten Gefäßmuskelzellen und Makrophagen ist assoziiert mit der frühen Entwicklung und Progression atherosklerotischer Plaques. 66. Jahrestagung der Deutschen Gesellschaft für Kardiologie in Mannheim, 2000.

5. Kintscher U, Wakino S, Kim S, Liu Z, **Bruemmer D**, Goetze S, Graf K, Fleck E, Hsueh WA, Law RE. TGF- $\beta$ 1 induces PPAR $\gamma$ 1 and  $\gamma$ 2 in human monocytes. *Circulation* 2001 104, 17: 1538
6. Kintscher U, Wakino S, **Bruemmer D**, Kim S, Law RE. PPAR $\alpha$  ligands inhibit TGF- $\beta$ 1 induced, SP-1 mediated  $\beta$ -5 integrin transcription in vascular smooth muscle cells. *Circulation* 2001 104; 17: 128
7. **Bruemmer D**, Collins AR, Hsueh WA, Law RE. Angiotensin II accelerated atherosclerosis is attenuated in osteopontin-deficient mice. 7<sup>th</sup> Annual AstraZeneca Cardiovascular Young Investigators Forum, Jackson Hole, 2001
8. **Bruemmer D**, Collins AR, Kintscher U, Noh G, Ozawa Y, Fleck E, Law RE, Hsueh WA. Angiotensin II accelerated atherosclerosis is attenuated in osteopontin-deficient mice. *Arterioscler Thromb Vasc Biol* 2002; 22: 878-a
9. **Bruemmer D**, Collins AR, Kintscher U, Noh G, Ozawa Y, Fleck E, Law RE, Hsueh WA. Angiotensin II accelerated atherosclerosis is attenuated in osteopontin-deficient mice. *Euro. Heart. J.* 2002;23: 675
10. Kintscher U, **Bruemmer D**, Goetze S, Stawowy P, Fleck E. Growth factor- and cytokine mediated regulation of PPAR $\gamma$  in monocytes. *Euro. Heart J.* 2002; 23: 9
11. Ozawa Y, Lyon C, **Bruemmer D**, Hsueh WA, Law RE. Hydrogen Peroxide inhibits PPAR $\gamma$  activity in Rat VSMC. *Hypertension* 2002; 40: 395-440
12. **Bruemmer D**, Collins AR, Kintscher U, Noh G, Ozawa Y, Fleck E, Law RE, Hsueh WA. Angiotensin II accelerated atherosclerosis is attenuated in osteopontin-deficient mice. *Hypertension* 2002; 40: 379-394
13. Kintscher U, Goetze S, Stawowy P, **Bruemmer D**, Graf K, Law RE. P38 Kinase Negatively Regulates Angiotensin II-Mediated Effects on Cell Cycle Molecules in Human Smooth Muscle Cells. *Circulation* 2002; 106: II-157
14. **Bruemmer D**, Collins AR, Kintscher U, Noh G, Fleck E, Law RE, Hsueh WA. Angiotensin II Accelerated Atherosclerosis is Attenuated in Osteopontin-Deficient Mice. *Circulation* 2002; 106: II-217
15. **Bruemmer D**, Berger J, Liu Z, Ozawa Y, Fleck Y, Moller DE, Law RE. A Non-Thiazolidinedione Partial Peroxisome Proliferator-activated Receptor Ligand Inhibits Vascular Smooth Muscle Cell Growth and Migration. *Circulation* 2002; 106: II-209

16. **Bruemmer D**, Yin F, Ozawa Y, Berger J, Fleck E, Van Herle A, Moller DE, Law RE. Minichromosome Maintenance Proteins are Negatively Regulated by a Non-Thiazolidinedione Peroxisome Proliferator-activated Receptor $\gamma$  Ligand in Vascular Smooth Muscle Cells. *Circulation* 2002; 106: II-240
17. **Bruemmer D**, Yin F, Liu J, Fleck E, Van Herle A, Law RE. Rapamycin Inhibits Expression of Minichromosome Maintenance Proteins in Vascular Smooth Muscle Cells. *JACC* 2003; 1031-199
18. **Bruemmer D**, Yin F, Liu J, Fleck E, Van Herle A, Law RE. Regulation of the Growth arrest and DNA damage-inducible Gene 45 by Peroxisome Proliferator-activated Receptor $\gamma$  in Vascular Smooth Muscle Cells. *Arterioscler Thromb Vas Biol* 2003
19. **Bruemmer D**, Yin F, Liu J, Fleck E, Van Herle A, Law RE. Rapamycin Inhibits Expression of Minichromosome Maintenance Proteins in Vascular Smooth Muscle Cells. *Arterioscler Thromb Vas Biol* 2003
20. **Bruemmer D**, Collins AR, Noh G, Wang W, Territo M, Fleck E, Law RE, Hsueh WA. Lack of Osteopontin protects mice deficient in apolipoprotein E against atherosclerosis. *Diabetes* 2003; 52: A75.
21. **Bruemmer D**, Collins AR, Chu V, Wang W, Fleck E, Hsueh WA, Law RE. A novel partial Non-Thiazolidinedione PPAR $\gamma$  ligand inhibits Angiotensin II accelerated atherosclerosis. *Diabetes* 2003; 52: A112.
22. **Bruemmer D**, Yin F, Liu J, Van Herle A, Law RE. Regulation of the growth arrest and DNA damage-inducible gene 45 (GADD45) by Peroxisome Proliferator-activated Receptor $\gamma$  in Vascular Smooth Muscle Cells. *Euro. Heart J* 2003.
23. **Bruemmer D**, Yin F, Liu J, Van Herle A, Law RE. Peroxisome Proliferator-activated Receptor $\gamma$  Inhibits Expression of Minichromosome Maintenance Proteins in Vascular Smooth Muscle Cells. *Euro. Heart J* 2003.
24. **Bruemmer D**, Yin F, Liu F, Blaschke F, Van Herle AJ, Law RE. Regulation of the growth arrest and DNA damage-inducible gene 45 (GADD45) by Peroxisome Proliferator-activated Receptor $\gamma$  in Vascular Smooth Muscle Cells. *Circulation* 2003; 108: IV 228
25. **Bruemmer D**, Collins AR, Wang W, Chu V, Law RE, Hsueh WA. Lack of Osteopontin decreases Angiotensin II-induced Aneurysm Formation in Apolipoprotein E  $-/-$  Mice. *Circulation* 2003; 108: IV-251

26. **Bruemmer D**, Takata Y, Blaschke F, Law RE, Hsueh WA. Liver X-receptor-dependent repression of Osteopontin expression in macrophages. *Arterioscler Thromb Vas Biol* 2004
27. Blaschke F, Takata Y, Liu Y, Law RE, Hsueh WA, **Bruemmer D**. Expression and Function of the Liver X Receptor in Human Vascular Smooth Muscle Cells. *Arterioscler Thromb Vas Biol* 2004
28. Blaschke F, **Bruemmer D**, Takata Y, Yin F, Wang W, Hsueh WA, Law RE. C-reactive protein induces apoptosis in human coronary vascular smooth muscle cells. *Arterioscler Thromb Vas Biol* 2004
29. Takata Y, Wang W, Chu V, Blaschke F, Collins AR, **Bruemmer D**, Law RE, Hsueh WA. Angiotensin II suppresses expression of ATP-binding cassette transporter A1 gene in macrophages at the transcriptional level. *Arterioscler Thromb Vas Biol* 2004
30. **Bruemmer D**, Takata Y, Blaschke F, Law RE, Hsueh WA. Liver X-receptor-dependent repression of Osteopontin expression in macrophages. The Endocrine Society's 86<sup>th</sup> Annual Meeting, 2004
31. Blaschke F, **Bruemmer D**, Takata Y, Yin F, Wang W, Hsueh WA, Law RE. C-reactive protein induces apoptosis in human coronary vascular smooth muscle cells. The Endocrine Society's 86<sup>th</sup> Annual Meeting, 2004.
32. Blaschke F, **Bruemmer D**, Takata Y, Yin F, Wang W, Hsueh WA, Law RE. C-reactive protein induces apoptosis in human coronary vascular smooth muscle cells. German Society of Cardiology, 2004

#### J.) LECTURES AND INVITED PRESENTATIONS

1. Vascular effects of Non-Thiazolidinedione Peroxisome Proliferator-activated Receptor $\gamma$  Ligands. Satellite Symposium "PPARs and Cardiovascular Disease" sponsored by GlaxoSmithKline, XXIVth Annual Congress of the European Society of Cardiology, Berlin 2002.
2. Role of Osteopontin in atherogenesis. Universitätsklinikum Ulm, Dept. Of Cardiology, Germany, May 2003
3. Antiatherogenic and antirestenotic actions of PPAR $\gamma$ : Partial PPAR $\gamma$  agonists have potent vascular activity. Merck Research Laboratories, Rahway New Jersey, July 2003

4. Nuclear Receptors in Blood Vessel Protection: PPAR $\gamma$ , PPAR $\alpha$ , LXR. UCLA Diabetes Symposium: "The Heart in Diabetes", September 2003.
5. PPAR $\gamma$  signalling and vascular cells in 2003. International Symposium on Atherosclerosis, Kyoto Japan, October 2003
6. PPAR $\gamma$  and Osteopontin: Lessons from Mouse-Model. Div. of Preventive Medicine and Nutrition, Columbia University New York, November 2003.
7. Osteopontin: A novel mediator of inflammation in atherosclerosis. Endocrine Grand Rounds, UCLA, April 2004.
8. Central Role of Osteopontin for Angiotensin II-mediated Cardiovascular Disease. Plenary Session, 19<sup>th</sup> Annual Scientific Meeting and Exposition, The American Society of Hypertension, New York May 18-22, 2004.