CURRICULUM VITAE

Pal Pacher M.D., Ph.D., F.A.P.S., F.A.H.A., F.A.C.C

Home Address: 124 Elmcroft Boulevard, Rockville, MD, 20850

Work Address: NIH/NIAAA/DICBR Laboratory Physiological Studies,
Section Oxidative Stress Tissue Injury,
5625 Fishers Lane, Room 2N-17
Bethesda, MD 20892-9413

Phone: (301)4434830 Fax: (301)443-4830

Emails: pacher@mail.nih.gov ppacher@gmail.com ppacher@lycos.com

Education and Certifications:

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
Semmelweis University of Medicine, Budapest, Hungary	M.D. (summa cum laude)	1993	Medicine
Hungarian Academy of Sciences, Budapest, Hungary	Ph.D. (summa cum laude)	2001	Cardiovascular Pharmacology, Cardiology

Professional Associations:

2011- American College of Cardiology (2011- Elected Fellow of ACC)
2007- Society for Leukocyte Biology
2006- The International Cannabinoid Research Society
2006- Society for Free Radical Biology and Medicine
2006- Nitric Oxide Society
2004- American Physiological Society (2006- elected Fellow of the Cardiovascular Section)
2004- ASPET
2001- American Heart Association (2006- elected Fellow of the Basic Cardiovascular Science Council)
2000-2006 Institute of Holistic Therapies, U.K.
1999-2002.1 Biophysical Society
1999- Juvenile Diabetes Association
2000- American Diabetes Association
1998-2001 New York Academy of Sciences
1997- International Society for Heart Research
1996- Hungarian Pharmacological Society, Hungarian and European Societies of Cardiology

Honors and Awards:

2010, 2011- Listed in the top 100 (#67) cited in the World in Pharmacology and Toxicology field during the past decade, also top 1% in Clinical Medicine, Biology and Biochemistry fields (Institute of Scientific Information),
2011 June- Elected Fellow of the American College of Cardiology
2011 - ”Star reviewer” selected by the Editor of AJP Cell Physiology (anounced FASEB Meeting, 2011)
2011 Jan- Adjunct Professor, University of Texas Medical Branch, Department of Anesthesiology
2010- October, Redox Biology course speaker, graduate school, NCI/NIH
2008-2010- Member of the Scientific Organizing Committee The International Cannabinoid Research Society Annual Meetings 2008, 2009, 2010
2008- Nominated for President-Elect of The International Cannabinoid Research Society
2008 - Sanofi Aventis Award
2007 Dec- Thomson ISI, fast breaking paper in the field of pharmacology: **P Pacher,** S Batkai, G Kunos. The endocannabinoid system as an emerging target for pharmacotherapy. ***Pharmacological Reviews* 2006; Sept;** 58(3): 389-462. (cited over 500, #5 top cited paper in Pharmacology field 2006-2009, Scopus).

2007 - ISI: hot paper in Biochemistry; most higly cited in *Physiological Reviews* since 2007: **P Pacher**, JS Beckman, L Liaudet. Nitric oxide and peroxynitrite in health and disease. ***Physiol Reviews* 2007; Jan**;87(1):315-424 (cited over 930; #2 top cited paper in Biology/Biochemistry, Essential Science Indicators, Thomson 2009; Editors' selection for hottest paper in Physiological Reviews 2008, 2009, 2010).
2007 - 2 Publication Awards, NIH/NIAAA
2006- Elected Fellow of American Heart Association
2006 - Elected Fellow of American Physiological Society Cardiovascular Section
2006- 2 Publication Awards, NIH/NIAAA
2004 - Best Poster Award, International Society for Heart Research, Brisbane, Australia
2004- Award of Nitric Oxide Society, Nara, Japan
2004- Award for Research Excellence, National Institutes of Health, Bethesda, USA
2000-2001-1. Postdoctoral Fellowship Award of Juvenile Diabetes Association
1999- Sigma-Aldrich Research Award
1999- Award of Hungarian Pharmacological Society on Young Researcher Competition
Scientific Research Award of TEVA-Biogal Pharmaceutical Company for the best drug-developmental proposal in the CNS, Budapest, Hungary
1998- Young Investigator Award of International Society for the Study of Hypertension in Pregnancy (ISSHP), Kobe, Japan
1997- Award of Hungarian Pharmacological Society on Young Researcher Competition;

Travel Awards: 1997-1999: Travel Award of ISSHP; Travel Award of Soros Foundation; Travel Award of Hungarian Society of Cardiology; Travel Award of Semmelweis University of Medicine;

Recognized in: Who's Who in the World; International Who's Who of Professionals; Who is Who in Diabetes Research and Education; Who is Who in Medicine and Healthcare.

Consultancy/scientific advisory board: Pfizer, Merck, P&G, Millar Instruments

Scientometrics (May 2011): Impact factor of publications (ISI): over 1200;
Citations past 5 years 2005-2011 (Scopus): over 9000; H factor: 55/59; g index: 97; total citations: over 10000/11000 (Scopus/Google)
According to citations (ISI, past 10 years) ranked in top 100 in Pharmacology field in the World and in top 1% in Clinical Medicine, Biology and Biochemistry fields

Research interest:

Cardiovascular physiology and pharmacology, aging, diabetes and diabetic complications, oxidative/nitrosative stress and inflammation. Identification of novel therapeutic targets and diagnostic tools against cardiovascular and other disorders associated with oxidative stress, inflammation and tissue injury.

Professional Work Experience:

2011- Adjunct Professor, University of Texas Medical Branch, Department of Anesthesiology
2005- Section Chief, Oxidative Stress and Tissue Injury, Laboratory of Physiologic Studies, NIAAA/National Institutes of Health, Bethesda, USA
2003-2004 Senior Research Fellow, Laboratory of Physiologic Studies, NIAAA, NIH, Bethesda, USA
2001-2002 Senior Cardiovascular Pharmacologist (Principal Investigator in 8 NIH grants ($1.86 million), co-investigator in 6 grants ($1.65 million), Inotek Pharmaceuticals, Beverly, USA
1999-2001 Visiting Research Scientist, Dept of Pathology and Cell Biology, Thomas Jefferson Medical University, Philadelphia, USA
1996-1999 Ph.D. student in First National Institute of Cardiology and Dept. of Pharmacology, Semmelweis Univ of Med., Budapest, Hungary
1995-1999 Assistant Professor of Pharmacology, Dept of Pharmacology, Semmelweis University of Medicine
1994 Lecturer of Pharmacology, Dept of Pharmacology, Semmelweis University of Medicine, Budapest, Hungary

Professional Services:

Regional Editor (U.S.A.):	2003-	Current Vascular Pharmacology (IF:3.18)
	2007-	Cardiovascular & Hematological Agents in Medicinal Chemistry
Associate Editor:	2010-	The Journals of Gerontology, Series A: Biological Sciences (IF: 3.9)
Editorial Academy:	2006-	International Journal of Molecular Medicine (IF:1.9)
Editorial Board:	2007-	Frontiers in Bioscience (IF: 4.04)
	2007-	Open Access Pharmacology Journal, Letters, Reviews
	2007-	Open Cardiovascular Medicine Journal, Letters, Reviews
	2006-	Current Medicinal Chemistry (IF: 4.63)
	2005-	Current Drug Targets Cardiovascular & Hematological Disorders
	2005-	Cardiovascular & Hematological Agents in Medicinal Chemistry
	2005-	Journal of Pharmacology and Toxicology
	2010-	Diabetes Review Letters
	2010-	World Journal of Gastroenterology (IF:2.24)
	2010-	Alcohol (IF:2.4)
	2011-	Free Radical Biology and Medicine (IF: 6.081)
	2011-	American Journal of Physiol Heart and Circulatory Physiology (IF: 3.712)

Editor: special issues:

2005-	Current Vascular Pharmacology, Hot Topic Issue: Role of Oxidative-Nitrostative Stress and Poly(ADP-ribose) Polymerase in Cardiovascular Pathophysiology
2008-2009:	Frontiers in Bioscience: Nitric oxide, superoxide and peroxynitrite in cardiovascular diseases (with Prof. Ferid Murad, co-winner of the 1998 Nobel Prize in Physiology/Medicine)

Teaching:

1991-1993	Assistant Lecturer of Pharmacology and Microbiology
Jan 1994- July 1994	Lecturer of Pharmacology, Dept of Pharmacology, Semmelweis University of Medicine, Budapest, Hungary
Aug 1995-Febr 1999	Assistant Professor of Pharmacology, Dept of Pharmacology, Semmelweis University of Medicine

My responsibility was teaching Pharmacology and Toxicology (32 hours/week) for Medical Students, Students of Dentistry and Pharmacy. I also participated in the PhD training program of the Department in cardiovascular physiology and pharmacology

Students/researchers supervised (with current degree/s and position):

Zoltan Ungvari M.D., Ph.D.	1997-1999	(Associate Professor, Donald W. Reynolds Chair of Aging Research, Univ. of Oklahoma Health Sciences Center, USA)
Lako-Futo Zoltan M.D.	1996-1998	(Physician, 1st Intern Med Hospital, Budapest, Hungary)
Zsolt Bagi M.D., Ph.D.	1997-1999	(Associate Professor, Univ of Georgia, USA)
Gabor Szalai M.D.	1995-1998	(Cardiologist, Baylor College, Texas, USA)
Katalin Komjati M.D., Ph.D	2000-2002	(Research Scientist, Inotek Pharmaceuticals)
Peter Bai Ph.D	2001-2003	(Principal Investigator, Univ of Debrecen, Hungary)
Rita Benko Ph.D.	2002-2003	Research Associate, Inst. of Human Physiol, Budapest, Hungary
Anne Vaslin	2002-2003	PhD Student, Lausanne, Switzerland
Lucas Liaudet M.D.	2001-2002	Professor, Dept. of Internal Medicine, Lausanne, Switzerland
Cziraki A M.D, Ph.D.	2001-2003	Vice Dept. Head, Heart Institute, Pecs University, Hungary
Xiao CY M.D.	2002-2003	Research Scientists, Inotek Pharmaceuticals, Beverly, USA
Chen M M.D.	2002-2003	Research Scientists, Inotek Pharmaceuticals, Beverly, USA
Sharon Zac	2002	Animal Technician, Inotek Pharmaceuticals, Beverly, USA
Long-Sheng Lu, M.D.	2003	Research Fellow, Graduate Institute of Pharmacology, National Taiwan University
Zsusanna Zsengeller M.D., Ph.D	2002-2003	Senior Research Fellow, Harvard Medical School, Boston
Oleg V. Evgenov M.D., Ph.D.	2003-2004	Anesthesiologist, Harvard Medical School, Boston
Lucja Flis	2005	Special volunteer, college student
Nora Czifra	2006	Special volunteer, college student
Anjum Jafri	2005- 2006	Research technician

Partha Mukhopadhyay Ph.D.	2006-	Research Fellow (Staff Scientist 2009-)
Mohanraj Rajesh Ph.D.	2006-2011	Research Fellow, now Assistant Professor in UAE (FARE Award winner 2009; since 2009-2011 supported by Sanofi Aventis Fellow Award)
Vivek Patel	2007	Special volunteer/summer student, now college student
Lauren Becker	2008	Special volunteer/summer student, now college student
Rachel Gao	2009-2010	Special volunteer/summer student, now college student
Galin Tanchian	2010	Special volunteer/summer student, now college student
Malek Kechrid	2010	Special volunteer/ summer student, now college student
Bela Horvath MD., Ph.D.	2010	Research Fellow, supported by Hungarian National Innovation Office (FARE Award winner 2011)
Enrique Guerrero-Beltrán	2010	Special volunteer, guest researcher for 3 mo, supported by Universidad Nacional Autónoma de México (Received PhD in part based on the work done at NIH in 2011)
Zongxian Cao MD., Ph.D.	2011-	Senoir Research Fellow
Enkui Hao MD	2011-	Guest researcher, supported by fellowship from China
Wen-Shin Lee MD	2011-	Guest researcher, supported by fellowship from Taiwan

Also supervised more than 10 scientists at Procter & Gamble; Pfizer and Merck, whose names can not be disclosed because of the confidentiality agreement signed.

Grant review/study sections, committees, etc.:

National/International:
Philips Morris USA: grant reviewer: 2005-2007
Wolfermann-Nägeli Foundation, Germany: grant reviewer: 2008
Catalan Agency for Health Technology Assessment and Research, Spain: grant reviewer: 2008
Hungarian Research Council: grant reviewer: 2008, 2009
Hungarian Research Council: special consortium grant review committee: 2008, 2009
Trinity College Dublin: External reviewer for Senior promotions commitee: 2008, 2009
University of Tromso, Norway: External reviewer/1st opponent for PhD defence 2007 (Dr. Elena Egorina)
University of Calgary in Calgary, Alberta, Canada: External reviewer for PhD defence 2008 (Dr. Ali Gaskari)
Alberta Heritage Foundation, Canada: grant reviewer: 2007, 2008, 2009, 2010
Swiss National Fund for Scientific Research: grant reviewer: 2007, 2008, 2009
American Diabetes Association: ad hoc reviewer
American Heart Association: ad hoc reviewer, abstract review
Medical Research Council, UK: grant reviewer: 2008, 2009, 2010, 2011
The Wellcome Trust: grant reviewer: 2009, 2010
Cancer Research UK: grant reviewer: 2009
French National Research Agency "Blanc SVSE 2": 2010
Juvenile Diabetes Research Foundation International: Targets of ROS in T1D complications study section: 2010
Society for Free Radical Biology and Medicine: abstract reviewer: 2008, 2009, 2010
Society for Free Radical Biology and Medicine: Young Investigator Award Commitee: 2009
Society for Free Radical Biology and Medicine: Senior Life Achievement Award Commitee: 2010
Alzheimer Foundation: grant reviewer: 2011
Society for Free Radical Biology and Medicine: Discovery Award Commitee: 2011

NIH:
Institutional ACUC commitee: 2006-
Regular FARE judge, NIH: 2005-
NIH Research festival: abstract reviewer: 2009, 2010, 2011
National Cancer Institute: SBIR Contract Proposals for NCI's Topic 255 "Development of Anti-cancer Agents' study section: 2009
NIH Intramural Research Program "Earl Stadtman Investigators" search commitee Member: Pharmacology/Molecular Targets: 2009-2010;
NIH Intramural Research Program "Earl Stadtman Investigators" search commitee Member: Physiology: 2010-2011;
NIH/NIDDK: PAR-08-181 Seeding Collaborative Interdisciplinary Team Science in Diabetes, Endocrinology and Metabolic Diseases (R24) study section: 2011

Reviewer:

Circulation; Circulation Research, The Journal of Clinical Investigation, J Am Coll Cardiol, Hypertension; Arteriosclerosis Thrombosis and Vascular Biology; Diabetes; Diabetes Care; Diabetologia; Diabetes/Metabolism Research and Reviews; Am J Pathology; Am J Physiology (AJP) Heart Circulation Physiology; AJP Cell Physiology; AJP Lung Cellular and Molecular Physiology; AJP Endocrinology and Metabolism; AJP Regulatory, Integrative and Comparative Physiology; AJP Gastrointestinal and Liver Physiology; Acta Physiologica Scandinavica; FASEB J; J Physiology London; Journal of Pharmacology and Experimental Therapeutics; British Journal of Pharmacology; Biochemical Pharmacology; Toxicology; Toxicology Letters, Molecular Pharmacology; Current Vascular Pharmacology; J Cardiovascular Pharmacology; Methods and Findings in Experimental and Clinical Pharmacology; Can J Pharmacol Physiol; International Journal of Molecular Medicine; Current Medicinal Chemistry; Current Drug Targets Cardiovascular & Hematological Disorders; Cardiovascular & Hematological Agents in Medicinal Chemistry; Journal of Pharmacology and Toxicology; Critical Care Medicine; Critical Care; Am J Respir Crit Care Med; Shock; Life Sciences; J Neurochemistry; International Journal of Cancer; Oncology Reports; European Journal of Cancer; Brain Research; Kidney International; Transplant International; Free Radicals Biol Med; Expert Opinions on Therapeutic Patents; Recent Patents on Inflammation & Allergy Drug Discovery; Journal of Cardiac Failure; Alcohol; American Journal of Psychiatry; Molecular and Cellular Biology; Cardiovascular Drug Reviews; Experimental Biology and Medicine; Gastroenterology, Journal of Clinical Anesthesia, Journal of Neurophysiology, Cardiovascular Drugs and Therapy, Experimental and Clinical Endocrinology&Diabetes, Hepatology; Neurochemistry; J Molec Endocrinology; Antimicrobial Agents and Chemotherapy; Journal of Molecular Medicine; Endocrinology; Immunobiology; Journal of Diabetes and its Complications; Journal of Interventional Cardiac Electrophysiology; FEBS letters; Experimental Gerontol; Mech. Ageing Dev.; Aging Cell; Rejuvenation Research; Gerontology; Nature Medicine; Nature Reviews Endocrinology; Chemical Reviews; Pharmacological Review; Nature Drug Reviews

Grants and Contracts:
Present: NIH/NIAAA Intramural program (since 2003)

Since 2003:	Research is supported by the Intramura Research Program of the NIH; unpaid consultant in various NIH, AHA, ADA and international grants (can be only unpaid consultant in ”outside grants” because of the NIH and/or other agencies’ regulations)
2008-2010:	Recepient of Sanofi Aventis Fellow Award Grant (to support Dr. Mohanraj Rajesh’s training: app. 70,000/year for 2 years)
2010-2011:	Fellowship Award from Hungarian Research Council (to support Dr. Bela Horvath’s stay at NIH: app. 60,000/year for 2 years)
2011:	University founds from Taiwan and China to support 2 cardiologist’s research training at NIH for 1 year

Past (before NIH)

Principal Investigator

No.	Title	Period of Performance	Total Grant
1 R43 GM63274-01A1	Novel xanthine oxidase inhibitor for hemorrhagic shock	8/1/01-8/31/02	$214,161
1 R43 GM64016-01A1	Peroxynitrite decomposition catalyst for hemorrhagic shock	5/1/02-4/30/03	$235,780
1 R43 HL69419-01	PARS inhibitor for cardiac allotransplantation	5/1/02-4/30/03	$197,929
1R43CA95807-01	Poly(ADP-ribose) polymerase and doxorubicin cardiotoxicity	7/1/02-6/30/03	$250,000
1R43GM63274-01A2	Peroxynitrite decomposition catalyst for hemorrhagic shock	2/01/02-1/31/03	$177,375
1R43HL69548-01A1	Peroxynitrite decomposition catalysts for bronchiolitis obliterans	7/1/02-6/30/03	$150,224
1R43HL71381-01	Chronic heart failure: the role of poly(ADP-ribose) polymerase activation	9/2/02-8/30/03	$315,259
1R43HL071381-01A1	Chronic heart failure and PARP inhibition	12/1/02-12/1/03	$315,259
			1,855,987

Co-Investigator

No.	Title	Period of Performance	
1 R43 HL68298-01	PARS inhibitor therapy of smoke inhalation injury	8/1/1-1/31/03*	$270,590
1R43CA86149-01A1	A nitric oxide synthase inhibitor for intestinal polyposis	9/1/01-9/29/03	$850,853
1 R43 HD41288-01	Novel therapy for female sexual dysfunction	9/15/019/13/02*	$229,792
1R03AG21206-01	Reactive nitrogen species and cardiovascular aging	7/1/02-6/30/03	$79,502
1R43HL70342-01	Xanthine oxidase inhibitor for congestive heart failure	7/1/02-12/31/02	$220,870
1R43CA097559-01	Doxorubicin cardiotoxicity:protection by peroxynitrite decomposition catalyst		**1,651,607**

Invited Presentations:

- 2011, June, RSA meeting "Role of poly(ADP-ribose) polymerase (PARP) in liver injury, inflammation and fibrosis"
- 2011, May, 102 AOCS Annual Meeting, Cincinnati, "Opposing Effects of Cannabinoid-1 and 2-receptors on Inflammation and Oxidative Stress: Implications for Tissue Injury"
- 2010, November, Redox Biology in Immunology and Cancer Workshop, National Cancer Institute, Bethesda, Maryland: "The role of the endocannabinoid system in inflammation, oxidative stress, and cell death: implications for tissue protection/injury."
- 2010, October, Joint Research Conference of the Institute for Advanced Studies the Hebrew University and the Israel Science Foundation on: CANNABINOIDS IN BIOLOGY AND MEDICINE, Jerusalem, Israel: "Role of the CB2 receptors in inflammation and tissue injury: interplay of activated endothelium and inflammatory cells"
- 2010, October, Redox Biology course, National Cancer Institute, Bethesda, Maryland: "Endocannabinoids and plant-derived cannabinoids in inflammation, redox regulation and cell death: implications for tissue protection or injury".
- 2010, September, The 2010 ISBRA World Congress, Paris, France: Symposium Organizer on the Role of ROS/RNS in liver injury; Session Chair: Molecular mechanisms of alcoholic liver disease: Roles of endocytosis, PARP, TGF-β
- 2010, August, Federation of the Societies of Biochemistry and Molecular Biology course on Free Radicals, invited speaker: "Methods for the detection of ROS by flow cytometry and imaging" and "ROS/RNS and diseases: animal models"
- 2010, July, The International Cannabinoid Research Society Annual meeting, Lund, Sweden: Session Chair: Metabolism and feeding behavior"Cannabidiol attenuates cardiac dysfunction, oxidative stress, fibrosis, inflammatory and cell death signaling pathways in diabetic cardiomyopathy" "Cannabinoid-1 receptor activation induces reactive oxygen species-dependent and –independent mitogen-activated protein kinase activation and cell death in human coronary artery endothelial cells and cardiomyocytes"
- 2010 June, University of Bonn, Germany, Workshop for the DFG Research Unit 926: The Endocannabinoid System: "From Physiology to Pathophysiology", Session Chair: Inflammation and Aging

  'Interplay of oxidative/nitrosative stress, inflammation, cell death signaling pathways and the endocannabinoid system: Implications for cardiovascular disease"
- 2010 June, University of Hannover, Germany, "Role of cannabinoid-2 receptors in inflammation and tissue injury"
- 2010 May, Budapest, Hungarian Academy of Sciences
- Department of Pathology and Laboratory Medicine, 2010 Temple University School of Medicine "Anti-inflammatory and anti-oxidant effects of CB_2 activation in endothelial cell biology and end-organ protection"
- LSUHSC, Dept of Pharmacology, 2010 Febr, The interplay of the oxidative/nitrosative stress and the endocannabinoid system in cardiovascular disease and tissue injury
- NIH, Pain Interest Group, 2010 "Interplay of the endocannabinoid system with oxidative-nitrosative stress and inflammation in models of tissue injury'
- American Heart Association, Scientific Sessions, 2009, Nov "Cannabidiol Attenuates Myocardial Dysfunction, Fibrosis, Inflammation, Cell Death and Interrelated Signaling Pathways Associated With Diabetic Cardiomyopathy"
- Experimental Biology Meeting, New Orleans 2009 Apr "Cannabidiol attenuates cisplatin-induced nephrotoxicity by decreasing oxidative/nitrosative stress, inflammation and cell death"
- Dept. of Physiology, Louisiana State University Health Sciences Center 2009 Apr "Role of oxidative/nitrosative stress and poly(ADP)-ribose polymerase in cardiomyopathy and heart failure"
- University of Calgary, Canada 2009 Apr "Role of the endocannabinoid system in cardiovascular disease"
- The Hungarian Scientific Research Fund Meeting 2008, Dec, Executive Grant Committee meeting
- American Heart Association, Scientific Sessions, 2008, Nov, New Orleans "Role of PARP in myocardial hypertrophy". Also symposium organizer.

- 6th Meeting of the International Chair on Cardiometabolic Risk (ICCR), Canada, 2008 "Cardiovascular effects of cannabinoids"
- Section on Neuroendocrine Immunology & Behavior NIMH/NIH, March 2008 "Interplay of oxidative/nitrosative stress and endocannabinoid system in doxorubicin-induced heart failure".
- American Society of Addiction Medicine (ASAM) meeting on April 13, 2008, in Toronto, Canada, "Role of Endocannabinoid System in Cardiovascular Diseases"
- Experimental Biology Meeting, San Diego, 2008 "Hemodynamic measurements in mice and rats using pressure-volume system"
- 3rd International Mitochondria Minisymposium: mitochondria and their proteomics, Natcher Conference Center (Building 45) ♦ Bethesda, Maryland, January 9–11, 2008 "Oxidative/nitrosative stress in various animal models of heart failure."
- Cardiovascular Research Group, University of Alberta, Edmonton, Alberta, Canada 2008 "Interplay between NO, superoxide and peroxynitrite in heart failure"
- Boston Medical Center, Dept of Cardiology 2008 "Endocannabinoid inhibition and its relevance for heart disease, atherosclerosis and cirrhosis"
- New York Medical College, Dept of Physiol., 2008 "Peroxynitrite is a major mediator of cell death and dysfunction in doxorubicin-induced heart failure and myocardial infarction"
- GW 3rd Annual Scientific Review, Royal Academy of Science, London, 2008." Cannabinoids and the cardiovascular system"
- The George Washington University, Dept of Cardiology, 2007 "Peroxynitrite is the major trigger of doxorubicin-induced cell death in myocytes and endothelial cells in vivo and in vitro"
- American Heart Association Meeting 2007, Orlando "Title: Role of superoxide, nitric oxide and peroxynitrite in doxorubicin-induced cell death in vitro and in vivo"
- 10th International Conference on Bioactive Lipids in Cancer, Inflammation and Related Diseases 2007 "*Role of CB2 cannabinoid receptors in endothelial inflammatory response: implications for ischemia-reperfusion injury, atherosclerosis and cardiovascular aging."*
- University Tromso, Faculty of Medicine, Norway 2007; first opponent on PhD defense of Elena Egorina
- CB2 cannabinoid receptors: new vistas, Banff, Canada, 2007 "Role of endocannabinoids and cannabinoid 2 receptor in hepatic ischemia/reperfusion injury"
- International Cannabinoid Research Society Meeting, Saint-Sauveur, Canada, 2007 "Cannabinoid receptor 2 mediates protection against hepatic ischemia/reperfusion injury" "Pharmacological inhibition of cannabinoid-1 receptor protects against doxorubicin-induced cardiotoxicity"
- East Coast PARP 2007 Meeting, Quebec, Canada "Role of PARP in heart failure and angiogenesis"
- NIH Research Festival, 2006; Session Chair "Neural and Neuroendocrine Factors in Shock and Inflammatory Tissue Damage" "Endocannabinoid System: Emerging Target against Ischemic-reperfusion Injury"
- 15th World Congress of Pharmacology, Beijing, China, July, 2006 "Pharmacological modulation of oxidative-nitrosative stress and downstream effectors in heart failure."
- International Semmelweis Symposium "Nitric oxide and nitrosative stress in the cardiovascular system", Budapest, Hungary, October, 2006; Session Chair; "Nitrosative stress, PARP and chronic heart failure"
- HHS Office of Public Health Emergency Preparedness, August, 2006 "PARP inhibition against toxin-induced cardiovascular collapse"
- Pennington Biomedical Research Center, Louisiana State University System, 2006 "Diabetic cardiovascular dysfunction: role of PARP"
- Hungarian Academy of Sciences, August, 2005 "Role of peroxynitrite in the contractile dysfunction in doxorubicin-induced heart failure"
- Departments of Human Physiology and Clinical Experimental Research and Pharmacology and Pharmacotherapy, Medical Faculty, Semmelweis University Medical School, Budapest, Hungary, 2005. "New pharmacological strategies against doxorubicin-induced cardiotoxicity"
- 1st Annual INIP Biodefense Workshop, NIH, 2004
- Department of Life Sciences,University of Hertfordshire, UK, October 2004 "Mechanisms of heart failure, role of oxidative stress"

- Centre for Cardiovascular Biology & Medicine, GKT School of Biomedical Sciences, King's College London, Guy's Campus, London SE1 1UL., UK, October 2004 “Role of peroxynitrite and PARP in heart failure”
- Department of Physiology, Ludwig Maximilians University, Munich, Germany, October 2004 “PARP in cardiovascular diseases”
- Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary, 2004 “Diabetic cardiomyopathy: role of PARP”
- XVIII World Congress International Society for Heart Research, Brisbane, Australia, August, 2004 “Role of oxidative and nitrosative stress in various forms of heart failure”
- 9th World Congress on Advances in Oncology and 7th International Symposium on Molecular Medicine Crete, (Greece), October 14-16, 2004; Session Chair; “Mechanisms of Doxorubicin-induced cardiotoxicity”
- 3rd International conference on the Biology,Chemistry and Therapeutic Applications of Nitric Oxide, (Japan) May, 2004 “Peroxynitrite neutralization protects against doxorubicin-induced heart failure”
- 5th International Congress on Coronary Artery Disease, Florence (Italy), October, 2003 “Pharmacological inhibition of PARP as new therapy for chronic heart failure”
- Procter & Gamble, Cincinnati, (USA), 2003 “Application of pressure-volume system in rodents”
- Experimental Biology Meeting (FASEB), New Orleans, (USA), 2002 “Role of PARP in ARDS”
- Semmelweis University, Budapest, Hungary, 2001
- International Society for the Study of Hypertension in Pregnancy (ISSHP) meeting, Kobe, Japan, 1998 “Prolongation of repolarization in postpartum animals: clinical relevance.”
- WPA Thematic Conference "Synthesis Between Psychopharmacology and Psychotherapy", Jerusalem, Israel, November 16-21, 1997 “Cardiovascular effects of fluoxetine”

Collaborators (past/present):

George Kunos M.D., Ph.D.; Scientific Director, NIAAA/NIH;
Prof **Csaba Szabo** M.D., Ph.D.; The University of Texas Medical Branch, Galveston;
Prof **Ken Mackie** M.D., Department of Psychological and Brain Sciences and Program in Neuroscience;
Byoung Song PhD**;** Unit of Molecular Biology, NIAAA/NIH;
Esther M. Sternberg M.D., Director Integrative Neural Immune Program Section on Neuroendocrine Immunology & Behavior, NIMH/NIH;
Bin Gao M.D., Ph.D; Section Chief, Liver Biology, NIAAA/NIH;
Ted Usdin Ph.D.; Laboratory of Genetics, National Institute of Mental Health
Prof. **Benjamin F. Cravatt**, Ph.D., Departments of Cell Biology and Chemistry, The Scripps Research Institute, La Jolla, CA; USA;
Prof. **Gabor Kalley** M.D., Ph.D., Dept. of Physiology, New York Medical College, Valhalla, New York 10595, USA;
Prof. **Lucas Liaudet** M.D., Critical Care Division, Department of Internal Medicine, University Hospital, Lausanne, Switzerland;
Jon Mabley Ph.D., School of Pharmacy and Biomolecular Sciences, University of Brighton, Brighton UK.
Associate Prof. **Zoltan Ungvari** M.D., Ph.D., University of Oklahoma Health Sciences Center, USA;
Prof. **Irina Obrosova** Ph.D.; Division of Nutrition and Chronic Disease; Pennington Biomedical Research Center; Louisiana State University, Baton Rouge, LA 70808;
Dr. **Gyorgy Hasko** M.D., Ph.D; Department of Surgery, UMD NJ-New Jersey Medical School, Newark, New Jersey;
Prof. **Lindsay Brown** Ph.D.; Department of Physiology and Pharmacology, School of Biomedical Sciences, The University of Queensland, Australia;
Prof. **Gabor Szabo** M.D., Ph.D.; Department of Cardiac Surgery, University of Heidelberg, Heidelberg, Germany, D-69120;
Oleg V. Evgenov M.D., Ph.D.; Department of Anesthesia & Critical Care Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA;
Drs. **Rohini Kuner;** University of Heidelberg, Germany
Drs. **Stefan Engeli** and **Jens Jordan;** Franz Volhard Clinical Research Center, Charité Campus Buch, and HELIOS Klinikum Berlin, Berlin, Germany;
Prof. **Dipak K Das** Ph.D.; Cardiovascular Research Center, University of Connecticut School of Medicine

Prof. **Roger Pertwee** Ph.D., University of Aberdeen, UK
Drs. **Lois E. Smith** and **Zsuzsanna Zsengeller**; Children's Hospital Boston, Harvard Medical School
Dr. **Isaac E. Stillman**, Department of Pathology, Beth Israel Deaconess Medical Center
Prof. **Aristidis Veves** M.D., Ph.D, Beth Israel Deaconess Medical Center, Boston, MA
Professor **David Kass**; Johns Hopkins Medical Institutions
Prof. **Aron Lichtman** Ph.D., VCU
Drs. **David Wink** and **Murali Krishna Cherukuri** Ph.D.; NCI, Radiology Branch
Prof. **Raphael Mechoulam** Ph.D.; Department of Medicinal Chemistry and Natural Products, Hebrew University Medical Faculty

PAPERS:

PEER-REVIEWED ORIGINAL RESEARCH PAPERS

1996-2000

1. V Kecskeméti, **P PACHER**, P Nánási, C Pankucsi: Comparative study of cardiac electrophysiological effects of atrial natriuretic peptide ***J Mol Cell Biochemistry*** 1996, 160/161:53-59. (**IF: 2.2**)
2. **P PACHER**, V Kecskeméti, I Balogh, AZ Rónai, G Szalai, B Matkovics: Changes in cardiac electrophysiology, morphology, tissue biochemistry, and vascular reactions in glutathione depleted animals. ***J Mol Cell Biochemistry*** 1998;185, 183-190. (**IF: 2.2**)
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