

Curriculum Vitae

Name: Pallab (Paul) K. **Ganguly**

Sex: Male

Marital Status: Married with two Children

Date of Birth: December 10

Citizenship: Canadian

Home Address: 103 Marine Drive
Winnipeg, Manitoba
Canada R2N 0W1

Business Address: Professor and Chairman, Department of Anatomy
Alfaisal University
Riyadh, Kingdom of Saudi Arabia

e-mail: pganguly@alfaisal.edu

Degree/Education:

	University	Year
MBBS	North Bengal, India	1978
MD	All- India Institute of Medical Sciences	1982
Post Doctoral Fellow	University of Manitoba Canada	1982 -1987
FACA	American College of Angiology	1989
Anatomy (Course Based)	University of Manitoba Canada	1982- 1996
Anatomy (Problem Based)	Arabian Gulf University Bahrain	1996- 2005
Anatomy (Education)	McMaster University Canada	2000

Pallab K. Ganguly**CLINICAL AND RESEARCH EXPERIENCE:**

Date	Position	Department	Institution
Oct. 1, 77-Sept. 30, 78	Internship	All Clinical Departs.	University of North Bengal
Oct. 1, 78-Jan. 31, 79	Junior Resident	Internal Medicine	University of North Bengal
Feb. 1, 79-Dec. 31, 81	Junior Resident	Basic Medical Sci	All India Institute of Medical Sciences
Feb. 1, 82-June 30, 85	Postdoctoral Fellow	Anatomy and Physiology	University of Manitoba-Canada

ACADEMIC APPOINTMENTS:-

Date	Position	Department	Institution
Sept 2008-Present	Professor Chairman	Anatomy	Alfaisal Uni
Nov 2006-2008	Professor Chairman	Anatomy	St Matthews University
Sept 2005-Oct 2006	Professor Chairman	Anatomy	Am U Antigua
July 2000-2005	Professor Chairman	Anatomy	Arabian Gulf University-Bahrain
1997- June 2000	Professor	Anatomy	University of Manitoba
July 1, 93-1996	Associate Professor	Anatomy	University of Manitoba-Canada
July 1, 88-June 30, 93	Assistant Professor	Anatomy	University of Manitoba-Canada
July 1, 89- present	Scientific Consultant	Internal Medicine	St. Boniface General Hospital-Canada
July 1, 85- June 30, 87	Research Associate	Anatomy	University of Manitoba-Canada

Pallab K. Ganguly**DISTINCTIONS AND AWARDS:**

Best Professor (Research)-Alfaisal University, 2014

Most Popular Professor-Alfaisal University, 2013

Best Professor in Anatomy-Asian Education Leadership Award, Dubai, September 24, 2013

Certificate for the educators in the Health Sciences, Harvard Medical School, Boston, 2007

Fellow of the International Academy of Cardiovascular Sciences, 2002

Gold Medal, 17th World Congress of International Society for Heart Research (Winnipeg, July 2001) for outstanding contribution in the field of cardiovascular sciences.

Visiting Associate Professor, Harvard Medical School. MA, USA, 1994

Rh Award, University of Manitoba, 1993, for outstanding contributions to scholarship and research.

Merit Award, University of Manitoba, 1993 for outstanding contributions to scholarship, research and teaching

Young Investigator Award, Canadian Cardiovascular Society, 1990 for outstanding achievement in research in cardiovascular diseases

Young Investigator Award, International College of Angiology, 1990 for outstanding achievement in research in basic sciences of vascular diseases

Research Scholarship, Canadian Heart & Stroke Foundation, 1989-94

Postdoctoral Fellowship, Canadian Heart & Stroke Foundation, 1982-85

National Merit Scholarship, Government of India, 1970-77

Certificate of Honour, Preventive and Social Medicine, 1975

Certificate of Honour, Physiology, 1972

Certificate of Honour and College Medal, Chemistry, 1971

TEACHING EXPERIENCE:

Date	Student	Course	University
2008-	MBBS (MD)	Gross, Embryo, Neuro	Alfaisal

Pallab K. Ganguly

2005-2007	MD	Gross, Embryo, Histology	St Matthews U
1996-2005	MD	Gross, Neuro, Histo, Embryo	Arabian Gulf University Bahrain
1998-2002	Premedical	Histology, Embryology	Arabian Gulf University Bahrain.
1987-1996	MD	Anatomy(Histology)	University of Manitoba- Canada
1987-1996	MD	Anatomy (Gross)	University of Manitoba- Canada.
1988-1996	Dentistry, Med. Rehab (88-96) Dental hygiene(88-91)	Anatomy (Histology and functional anatomy)	University of Manitoba- Canada.
1986-1996	MD & Graduate Student	Medical Physiology (Cardiovascular)	University of Manitoba- Canada
1979-1981	MBBS	Medical Biochemistry	All-India Institute of Med. Science

CURRENT RESEARCH INTERESTS:

Neuroscience- Neuropeptides in Cardiovascular Disease
 Sympathetic System in Cardiovascular Disease
Medical Education- Curriculum, Assessment, Newer Methodologies in Education

INVITED SYMPOSIA SPEAKER:

Annual Conference of the International Society for Heart Research, Feb 25-28, 1988, India

Annual Canadian Cardiovascular Society Meeting, Oct. 16-20,1990 Halifax - Canada

The Second International Symposium on Multiple Risk Factors in Cardiovascular Disease,
Oct. 5-8, 1992. Osaka, Japan

International Conference on Oxygen Radicals and Anti-Oxidants in Biotechnology and
Medicine, Dec. 5-8, 1992. Calcutta, India

World Congress, Asian Pacific Cardiology Society, Sept. 16-22, Bali, Indonesia, 1995

1st Congress of Indian Physiological Society for Adaptive Medicine, Dec. 9-12, 1995, India.

International Symposium on Heart Disease, Cairo, Egypt, May 19-21,1998

International Symposium on Potentials of Antioxidant Therapy, Goa, India, January, 9-11,1999

Pallab K. Ganguly

International Congress on Atherosclerosis and Hypertension, New Delhi, Oct. 14-16, 1999

18th World Congress for ISHR meeting, Brisbane, Australia, August 6-10, 2004

Basic Principles of Undergraduate Medical Education Course, March 1-5, 2008, Riyadh, KSA

Fourth World Congress of International Academy of Cardiovascular Sciences, February 1-3, Vadodara, India

Winnipeg Heart International Conference, October 13-16, 2011, Canada

Texas Tech University, El Paso, USA, Anatomical Education, October 2012

American University of Barbados, Anatomical Education, Barbados, January 20, 2014

Saudi Heart Association, Riyadh, Stress and Heart Disease, February 2014

OUWB, Michigan, USA, Anatomical Education, April, 2014

SYMPOSIUM CHAIRMAN:

International Conference on Heart Failure, Winnipeg - Canada May 20-23, 1994

1st Congress of Indian Physiological Society, New Delhi, India, March 1-3, 1995

World Conference of the International Society for Molecular Nutrition and Therapy, Winnipeg, Canada, August, 1- 4, 1997

17th World Congress of International Society for Heart Research, Winnipeg, Canada, July 6-11, 2001

OTHER SCHOLARLY ACTIVITIES:

Referee for Grant-in-aid application:

Heart and Stroke Foundation, Canada
 Medical Research Council, Canada
 Canadian Diabetes Association
 Kidney Foundation of Canada.

Referee for Research Journals:

Clinical Anatomy
 Canadian Journal of Cardiology
 Canadian Journal of Physiology and Pharmacology
 Diabetes
 Molecular and Cellular Biochemistry
 Basic Research in Cardiology
 Circulation Research

Pallab K. Ganguly

Neuroscience
 American Journal of Physiology
 Bahrain Medical Bulletin
 Saudi Medical Journal

Journal Editorial Board:

Journal of Basic and Applied Biomedicine

Organizing Committee (Conference):

The Cellular Basis of Cardiovascular Function in Health and Disease
 -Kenora, Manitoba August 23-25, 1996
 Cardiovascular Forum Angiotensin II Receptor Blockade-Winnipeg,
 Manitoba, October, 4-6 1996
 The 17th ISHR World Congress, July 6-11,2001

Supervisor - Graduate and Medical Students:

G. J. Kirouac - Ph.D
 N.D. Woo - Ph.D.
 A. Sahai - Ph.D.
 S. Basu - M.Sc.
 D. Dueck - BSc. (Med.)
 S. Sinha - B.Sc. (Med.)
 D. Lam - B.Sc.(Med.)
 E. Weiser - B.Sc.(Med.)
 G. Sherwood - B.Sc. (Med.)
 G. Mohammadzadeh - B.Sc.(Med.)
 A. Sahai - M.Sc.
 G. J.Kirouac - M.Sc

Advisor - Graduate Student:

B. Ramjiawan (M.Sc.)
 J. A. Hays (M.Sc.)
 Williams (M.Sc.)
 B. B. Lonsberry (M.Sc.)
 C. Yu (Ph.D)
 L. C. Y. Yau (Ph.D).
 N. Alexiuk (Ph.D)
 J. Dai (Ph.D)
 J. Tong (M.Sc.)
 K. Mcknight (M.Sc.)

Pallab K. GangulySummer Students:

Neeraj Bector
 Natasha Mohammed
 Ashpal Kent
 Janice Pan
 Rainer Persaud
 Shoba Thomas
 Ardeep Kent
 Gargi Mukherji
 Paula Flattery
 Sunil Sinha, Rita Ghosh, Kunal Banerji
 Justin Claire
 Richard Frechette
 Jaison Caimol
 Versha Bhatnagar
 Ushma Dhalla
 Daisy Sharma.

External/Internal Examiner:

N. Alexiuk (Ph.D.)
 B. Anderson (B.Sc. Med.)
 M. Martin (B.Sc. Med.)
 N. Monkman (B.Sc. Med.)
 B. Kowaluk (B.Sc. Med.)
 J. Hansen (B.Sc. Med.)
 T. Hilderman (B.Sc. Med.)
 V. Lee (B.Sc. Med.)
 B. B. Lonsberry (M.Sc.)
 J. Dai (Ph.D.)
 I. Dixon (Ph.D.)
 S. Majumder (M.Sc.)

Chairman:

Faculty of Graduate Student - Ph. D. Oral (Michael J. B. Kutryk),1991
 Faculty of Graduate Student - Ph. D. Oral (He-Ping Meng),1991
 Faculty of Graduate Student - Ph. D. Oral (Nasir Affzal),1993
 Faculty of Graduate Student - Ph. D. Oral (Rajat Sethi),1994
 Faculty of Graduate Student - Ph. D. Oral (Leonard Golfman),1994
 Faculty of Graduate Student - Ph.D. Oral (Hongsheng Xie),1996

Committee Member:

Executive Committee (Anatomy) 1991-1994
 Promotion Committee (Anatomy) 1990-1992
 Graduate Research Awards Committee, 1992
 Unit 1 (CMMS,AGU), 1997- 1998

Pallab K. Ganguly

Premedical Subcommittee(CMMS-AGU),1997
 Unit Chairman-Unit III (CMMS,AGU),1998-2003
 Faculty Poster Committee (CMMS-AGU) 1998
 Animal Care Committee (CMMS-AGU)1998-2003
 Final MD Examination Committee,(CMMS-AGU) 1998-2001
 Research Committee, (CMMS-AGU),1997-Present
 OSPE Committee (CMMS-AGU) 1997-2001
 Premedical Committee (CMMS-AGU) 2000-2003

Joint Course Director:

Pathophysiology of Heart Disease (Course # 90.735) -1990-1996

Conducted Seminars for Years 5 & 6 CMMS-AGU:

Spinal Cord Disease, 1997
 Management of Hypertension, 1997.
 Stress: Can we Live with it! ,1998
 Acne,1998

Problem Coordinator CMMS-AGU:

Thyrotoxicosis -1997 - Unit V
 Congenital Dislocation of Hip-Unit VI
 Malabsorption – Unit III

Faculty Research Seminars:

Department of Anatomy (December,1989)
 The Manitoba Association of Cardiology Technologists(April, 1990)
 St. Boniface General Hospital Research Centre (November, 1990).
 St. Boniface General Hospital Research Centre (Mini Symposium) (April, 1991)
 Anatomy Exchange Day (September, 1991)
 Department of Oral Biology (October,1991)
 Department of Pharmacology (November,1992)
 Department of Anatomy (January, 1994)
 Department of Anatomy (December,1994)
 International Hospital Bahrain (December,1996)
 CMMS, Arabian Gulf University (December,1996)
 CMMS, Arabian Gulf University (May,1997).
 CMMS, Arabian Gulf University, Journal Club (Oct,1997)
 CMMS, Arabian Gulf University, Journal Club (Sept. 2000)

Other Activities Within CMMS-AGU Program:

Professional Skill-1996-Present
 Speaker for Seminars (Y5 & Y6) 1996-Present
 Exam. (set up questions, markings, invigilation) 1996-Present

Pallab K. Ganguly

Interview students for MD entrance-1997-Present
 Supervisor, Animal House 1997-2003
 PBL Workshop, 1997-1998.
 Co-ordinator Journal Club, Dept. of Anatomy, 1997-2003
 BSc (Med) Coordinator-For AGU and U of Manitoba, Canada (Jt Program)

MEMBERSHIP IN SCIENTIFIC SOCIETIES:

American College of Angiology
 American Heart Association
 Canadian Association of Anatomy
 Canadian Diabetes Association
 International Society for Heart Research.

LABORATORY ACHIEVEMENTS:

N.D. Woo, M.D. M.Sc. Student	Awarded American Heart Association Hypertension Research (Marion Merrell Dow) Award, 1991, Finalist
A.Sahai, M.D. M.Sc. Student	Awarded Sigma Xi award for Overall Excellence in Research, National Student Research Forum, Galveston, Texas, 1991
S. Weiser - B.Sc. Med.	Awarded Merck, Sharp & Dohme Award for the best Basic Science Project, 1991.
G.Sherwood B.Sc. Med.	Awarded A. Alyn Rossen Award for the best "Cardiovascular Research Project", 1990
N.D. Woo, M.D. Ph. D. Student	Awarded George I. Ellis Memorial Award for best paper in pharmacology at National Research Student Forum held in Galveston, Texas, April 28-30, 1994
N.D. Woo, M.D. Ph.D. Student	Awarded American Heart Association Hypertension Research (Marion Merrell Dow) Award, 1994, Finalist
G. Mohammadzadeh B.Sc. Med.	Awarded Sandoz Prize for Overall Excellence in Research, 1994
N.D. Woo, M.D. Ph.D. Student	Awarded St. Boniface General Hospital Research Foundation Inc. Award (Cardiovascular Biology), the Eighth Annual Student Research Awards Day, 1995
S. Sinha, B.Sc. Med.	Awarded Upjohn Achievement Award for the best "Cardiovascular Research Project", 1995

Pallab K. Ganguly**VISITING SCIENTIST:**

Dr. Huijin Yan (August 1 - November 1 , 1993)
 Dept. of Physiology
 Peking Union Medical College
 5 Dong Dan San Tiao
 Beijing 100005, China.

GRANT SUPPORT:

<u>1988-89</u>	Heart & Stroke Foundation of Manitoba	\$ 25,700
<u>1989-90</u>	Heart & Stroke Foundation of Manitoba	\$ 25,700
	Manitoba Medical Service Foundation	\$ 13,188
	Scholarship (CHSF), P.K. Ganguly	\$ 38,700
	Studentship (MRC), N.D. Woo	\$ 27,445
	Kidney Fnd of Manitoba/Faculty of Medicine	\$ 3,100
<u>1990-91</u>	Heart & Stroke Foundation of Manitoba	\$ 32,123
	Canadian Diabetes Association	\$ 29,422
	Medical Research Council of Canada	\$ 20,430
	Manitoba Medical Service Foundation	\$ 18,660
	Scholarship (CHSF), P.K. Ganguly	\$ 42,900
	Studentship (MRC), N.D. Woo	\$ 28,815
	Kidney Fnd of Manitoba/Faculty of Medicine	\$ 5,000
<u>1991-92</u>	Heart & Stroke Foundation of Manitoba	\$ 33,411
	Canadian Diabetes Association	\$ 30,983
	Medical Research Council of Canada	\$ 20,430
	Manitoba Medical Service Foundation	\$ 19,000
	Scholarship (CHSF), P.K. Ganguly	\$ 51,750
	Studentship (MRC), N.D. Woo	\$ 34,835
	Studentship (U of M),G. Kirouac	\$ 10,000
	Career Start, N. Mohammed, A. Kent	\$ 840
<u>1992-93</u>	Heart & Stroke Foundation of Manitoba	\$ 25,000
	Canadian Diabetes Association	\$ 7,745
	Medical Research Council of Canada	\$ 20,430
	Manitoba Health Research Council	\$ 12,000
	Scholarship (CHSF), P.K. Ganguly	\$ 53,305
	Studentship (MRC), N.D. Woo	\$ 37,420
	Studentship (U of M),G. Kirouac	\$ 10,000
	Fellowship (CDA), A. Sahai	\$ 40,000

Pallab K. Ganguly

	Career Start, N. Mohammed, A. Kent	\$ 1,680
	Kidney Foundation of Manitoba	\$ 2,500
<u>1993-94</u>	St. Boniface Research Foundation	\$ 25,000
	Rh Institute	\$ 2,500
	Kidney Foundation of Manitoba	\$ 1,000
	Manitoba Medical Service Foundation	\$ 10,000
	Scholarship (CHSF), P.K. Ganguly	\$ 53,305
	Fellowship (MRC), N.D. Woo	\$ 37,420
	Research Traineeship (CHSF), G. Kirouac	\$ 15,295
	Fellowship (CDA), A. Sahai	\$ 26,790
	Career Start, R. Ghosh, K. Banerji	\$ 1,680
<u>1994-95</u>	Heart & Stroke Foundation of Manitoba	\$ 32,500
	Kidney Foundation of Manitoba	\$ 3,000
	Paul Thorlakson Foundation	\$ 8,000
	Manitoba Medical Service Foundation	\$ 10,000
	Fellowship (MRC), N.D. Woo	\$ 40,000
	Studentship (MRC), G. Kirouac	\$ 15,295
	Career start, K. Banerji	\$ 840
	Challenge '94, R. Frechette	\$ 3,000
<u>1995-96</u>	Heart and Stroke Foundation of Manitoba	\$ 34,500
	Manitoba Medical Service Foundation	\$ 25,000
	Career Start, K. Banerjee, V. Vatnagar	\$ 1,680
	Summer Career Placement '95, R. Frechette	\$ 1,365

1996-2010

- ** Involved in experiments on the International Trial of the Abouna / Costa Xenogeneic Liver Support Machine in Bahrain- with Profs. Abouna, Tweed and Hamdy-CMMS-AGU, 1997- 2010.
- *** Involved in experiments on the International Trial of CT 99 and Vanadate in Diabetes – joint project with Prof. Grant N. Pierce, St. Boniface Research Centre, Winnipeg, Canada, 2000-2001
- **** On-going collaborative work with Prof. Grant N. Pierce, St. Boniface Research Centre, Winnipeg on the role of homocysteine in the development of stroke-till 2010
- ***** On-going research-Medical Education
- ***** King Abdulaziz Centre for Science and Technology, Kingdom of Saudi Arabia- Approved funding 2.5 million Riyals for research on “Homocysteine and Stroke”.

Pallab K. Ganguly**REFERENCES:****Dr. Bernhard Juurlink**

Professor, Department of Anatomy
Alfaisal University
Riyadh
Kingdom of Saudi Arabia

Dr. Grant N. Pierce

Professor and Director
Division of Stroke and vascular Disease
St. Boniface General Hospital Research Centre
351 Tache Avenue
Winnipeg, Manitoba
Canada R2h 2A6

Dr. Ali Khraibi

Professor and Chairman
Department of Physiology
Alfaisal University
Riyadh
Kingdom of Saudi Arabia

RESEARCH PUBLICATIONS BY DR. P.K.GANGULY

- A. Thesis - 1
- B. Books -4
- C. Papers: Total – 128
 - I. Peer reviewed journals - 108
 - II. Book chapters – 20
- D. Abstracts 75

Pallab K. Ganguly

Details of Research Papers:

A. Thesis:

“Biochemical Studies in Experimental Myocardial Infarction: Effects of a Calcium Antagonist”

B. Book

1. Catecholamines and Heart Disease (Ganguly, P.K. Editor), CRC Press, Boca Raton, FL., USA, 1991-ISBN 0-8493-5810-8.
2. N.A.M.E. (Neuroanatomy Made Easier) - PR Publisher, Canada, 1998-ISBN 0-9683751-0-3
3. Education in Anatomical Sciences (Ganguly, P.K. Editor), Novapublisher, New York, USA, 2013-ISBN 978-1-62618-488-6
4. Health and Disease: Curriculum for the 21st Century Medical Students (Ganguly, P.K. Editor), New York, USA, 2014 (in press)

C. Papers:

I. Peer Reviewed Journals

1. Ganguly, P.K., Srivastava, L.M., Bora, P. and Gupta, M. P. Lactate dehydrogenase isoenzymes: Effect of isoproterenol induced myocardial ischaemia. *Indian Journal of Experimental Biology*, 18:1443-1445, 1980.
2. Seth, S. D., Ganguly, P.K., Gupta, M.P. and Srivastava, L.M. Effect of oxyfedrine on myocardial glycolytic flux during ischaemia in rats. *Indian Journal of Experimental Biology*, 18:1009-1011, 1980.
3. Srivastava, L.M. and Ganguly, P.K. Cardiac metabolism in health and disease-a mini review. *Asian Medical Journal*, 23:789-797, 1980.
4. Ganguly, P.K. Srivastava, L.M., Bora, P.S., Gupta, M.P. and Seth, S.D. Nifedipine- a new calcium antagonist in experimental myocardial necrosis. *Indian Journal of Medical Research*, 73:617-624, 1981.
5. Srivastava, L.M. and Ganguly, P.K. Biochemical basis to block ischaemia developing into myocardial infarction: a short review. *Journal of the Indian Institute of Science*, 63:53-69, 1981.
6. Ganguly, P.K. and Srivastava, L.M. Calcium mediated cardiac damage: Its pathophysiological significance. *Asian Medical Journal*, 24:185-193, 1981.
7. Ganguly, P.K., Bora, P.S., Seth, S.D. and Srivastava, L.M. Alterations in isoproterenol-induced cardiac metabolic changes by calcium antagonist-Nifedipine. *Current Therapeutic Research*, 31:56-66, 1982.

Pallab K. Ganguly

8. Ganguly, P.K. Pierce, G.N., Dhalla K.S. and Dhalla, N.S. Defective sarcoplasmic reticular calcium transport in diabetic cardiomyopathy. *American Journal of Physiology*, 224:E528-E535, 1983.
9. Dzurba, A., Ganguly, P.K., Beamish, R.E. and Dhalla, N.S. Stimulation of calcium pump activity in heart sarcolemma by timolol. *Canadian Journal of Physiology and Pharmacology*, 61:240-244, 1983.
10. Dhalla, N. S., Sulakhe, P.V., Lamers, J.M. J. and Ganguly, P.K. Characterization of Ca^{2+} release from the cardiac sarcoplasmic reticulum. *General Physiology and Biophysics*, 2:339-351, 1983.
11. Panagia, V., Ganguly, P.K. and Dhalla, N. S. Characterization of heart sarcolemmal phospholipid methylation. *Biochemica et Biophysica Acta*, 792:245-253, 1984.
12. Ganguly, P.K., Rice, K.M., Panagia, V. and Dhalla, N.S. Sarcolemmal phosphatidylethanolamine N-methylation in diabetic cardiomyopathy. *Circulation Research*, 55:504-512, 1984.
13. Dzurba, A., Ganguly, P.K., Guerin, A. and Dhalla, N.S. Alterations in the heart sarcolemmal Ca^{2+} transport activity by some B-adrenergic antagonists. *Basic Research in Cardiology*, 79:620-626, 1985.
14. Dhalla. N.S., Sulakhe, P. V., Lamers, J.M.J., Ganguly, P.K. and Elimban, V. Behavior of cardiac microsomal Ca^{2+} pump under conditions that may simulate pathological situations. *General Physiology and Biophysics*, 4:15-28, 1985
15. Panagia, V., Pierce, G.N., Dhalla, K.S., Ganguly, P.K., Beamish, R. E. and Dhalla, N.S. Adaptive changes in subcellular calcium transport during catecholamine induced cardiomyopathy. *Journal of Molecular and Cellular Cardiology*, 17:411-420, 1985.
16. Panagia, V., Ganguly, P.K., Okumura, K. and Dhalla, N.S. Subcellular localization of phosphatidylethanolamine N-methylation activity in rat heart. *Journal of Molecular and Cellular Cardiology*, 17:1151-1159, 1985.
17. Heyliger, C.E., Ganguly, P.K. and Dhalla, N. S. Sarcoplasmic reticular and mitochondrial calcium transport in cardiac hypertrophy. *Canadian Journal of Cardiology*, 1:401-408, 1985.
18. Ganguly, P.K., Panagia, V., Okumura, K. and Dhalla, N.S. Activation of Ca^{2+} stimulated ATPase by phospholipid N-methylation in cardiac sarcoplasmic reticulum. *Biochemical and Biophysical Research Communication*, 130:472-478, 1985.

Pallab K. Ganguly

19. Ganguly, P.K., Dhalla, K.S., Innes, I.R., Beamish, R. E. and Dhalla, N.S. Altered norepinephrine turnover and metabolism in diabetic cardiomyopathy. *Circulation Research*, 59:684-693, 1986.
20. Korecky, B., Ganguly, P.K., Elimban, V. and Dhalla, N.S. Muscle mechanics and calcium transport in atrophic heart after transplants in rats. *American Journal of Physiology*, 251:H941-H950, 1986.
21. Ganguly, P.K., Mathur, S., Gupta, M.P., Beamish, R.E. and Dhalla, N.S. Calcium pump activity of sarcoplasmic reticulum in diabetic rat skeletal muscle. *American Journal of Physiology*, 351-E515-E523, 1986.
22. Singal, P.K., Lee, S.L., Ganguly, P.K., Panagia, V. and Dhalla, N. S. Reversibility of ultrastructural, contractile function and Ca^{2+} transport changes in guinea pig hearts after global ischaemia. *Canadian Journal of Physiology and Pharmacology*, 64:1368-1375, 1986.
23. Ganguly, P.K., Beamish, R. E., Dhalla, K.S., Innes, I.R. and Dhalla, N.S. Norepinephrine storage, distribution and release in diabetic cardiomyopathy. *American Journal of Physiology* 252:E734-E739, 1987.
24. Panagia, V., Makino, N., Ganguly, P.K. and Dhalla, N.S. Inhibition of $\text{Na}^+ -\text{Ca}^{2+}$ exchange in heart sarcolemmal vesicles by phosphatidylethanolamine N-methylation. *European Journal of Biochemistry*, 166:597-603, 1987.
25. Ganguly, P.K., Taira, Y., Elimban, V., Roy, M. and Dhalla, N.S. Altered contractile proteins in skeletal muscle of diabetic rats. *American Journal of Physiology*, 253:E395-E400, 1987.
26. Panagia, V., Elimban, V., Ganguly, P.K. and Dhalla, N.S. Decreased Ca^{2+} binding and Ca^{2+} ATPase activities in heart sarcolemma upon phospholipid methylation. *Molecular and Cellular Biochemistry*, 78:65-71, 1987.
27. Ganguly, P.K., Pierce G.N. and Dhalla, N.S. Diabetic cardiomyopathy: Membrane dysfunction and therapeutic strategies. *Journal of Applied Cardiology*, 2:323-338, 1987.
28. Panagia, V., Gupta, M.P., Ganguly, P.K. and Dhalla, N.S. Methionine-induced positive inotropic effect in rat heart: Possible role of phospholipid N-methylation. *Circulation Research*, 62:51-55, 1988.
29. Afzal, N., Ganguly, P.K., Dhalla, K.S., Pierce, G. N., Singal, P.K. and Dhalla, N.S. Beneficial effects of verapamil in diabetic cardiomyopathy. *Diabetes*, 37:936-942, 1988.

Pallab K. Ganguly

30. Taira, Y., Ganguly, P.K., Panagia, V. and Dhalla, N. S. Increased sarcoplasmic reticular phospholipid N-methylation in skeletal muscle of diabetic rats. *American Journal of Physiology*, 255:E347-E352, 1988.
31. Dhalla, K. S., Ganguly, P.K., Rupp, H., Beamish, R.E. and Dhalla, N. S. Measurement of adrenolutin as an oxidation product of catecholamines in plasma. *Molecular and Cellular Biochemistry*, 87:85-92, 1989.
32. Ganguly, P.K., Beamish, R.E. and Dhalla, N.S. Catecholamine-mediated ischemic changes in pheochromocytoma. *American Heart Journal*, 117:1399-1400, 1989.
33. Ganguly, P.K., Lee, S.L., Beamish, R.E. and Dhalla, N.S. Altered sympathetic system and adrenoceptors during the development of cardiac hypertrophy. *American Heart Journal*. 118:520-525, 1989.
34. Panagia, V., Ganguly, P.K., Gupta, M. P., Taira, Y. and Dhalla, N.S. Alterations in phospholipid N-methylation in rat heart by quinidine. *Journal of Cardiovascular Pharmacology*, 14:763-769, 1989.
35. Ganguly, P. K. and Anderson, W. A. Involvement of sympathetic nervous system in the development of cardiac hypertrophy: A fresh look at an old problem. *Journal of Autonomic Pharmacology*, 9:367-378, 1989.
36. Ganguly, P.K. Catecholamines and cardiovascular disorders: Pathophysiologic considerations. *American Heart Journal*, 118:868-872, 1989.
37. Ganguly, P.K., Thliveris, J. A. and Mehta, A. Evidence against the involvement of nonenzymatic glycosylation in diabetic cardiomyopathy. *Metabolism*, 39:769-773, 1990.
38. Sahai, A. and Ganguly, P.K. Lack of response of ($\text{Ca}^{2+} + \text{Mg}^{2+}$) ATPase to atrial natriuretic peptide in basolateral membranes from kidney cortex of chronic diabetic rats. *Biochemical and Biophysical Research Communication*, 169:537-544, 1990.
39. Panagia, V., Taira, Y., Ganguly, P.K., Tung, S. and Dhalla, N.S. Alterations in phospholipid N-methylation of cardiac subcellular membranes due to experimentally-induced diabetes in rats. *Journal of Clinical Investigation*, 86:777-784, 1990.
40. Ganguly, P.K., Lee, S.L. and Waghray, G. Modulation of cardiac beta-adrenergic receptors by dopamine beta-hydroxylase. *Biochemica et Biophysica Acta*, 1055:186-188, 1990.
41. Ganguly, P.K., Impaired inotropic responses to adrenergic stimulation following aortic constriction: Role of oxidation product of catecholamines *Angiology* 42:133-139. 1991

Pallab K. Ganguly

42. Kaneko, M., Chapman, D.C., Ganguly, P.K., Beamish, R.E. and Dhalla, N.S. Modification of cardiac adrenergic receptors by oxygen free radicals. *American Journal of Physiology*, 260:H821-H826, 1991.
43. Tong, J., Ganguly, P.K. and Singal, P.K. Myocardial adrenergic changes at two stages of heart failure due to adriamycin treatment in rats. *American Journal of Physiology*, 260:H909-H916, 1991.
44. Ganguly, P.K. Antioxidant therapy in congestive heart failure: Is there any advantage? *Journal of Internal Medicine*, 229:205-209, 1991.
45. Sahai, A and Ganguly, P.K. Congestive heart failure in diabetes with hypertension may be due to uncoupling of the atrial natriuretic peptide receptor-effector system in kidney basolateral membrane. *American Heart Journal*, 122:164-170, 1991.
46. Ganguly, P.K. Role of atrial natriuretic peptide in congestive heart failure due to chronic diabetes. *Canadian Journal of Cardiology* 7:275-280, 1991.
47. Taira, Y., Hata, T., Ganguly, P.K., Elimban, V. and Dhalla, N.S. Increased sarcolemmal Ca^{2+} transport activity in skeletal muscle of diabetic rats. *American Journal of Physiology*, 260:E626-E632, 1991.
48. Sahai, A. and Ganguly, P.K. ($Ca^{2+} + Mg^{2+}$) ATPase activity in kidney basolateral membrane in diabetes: role of atrial natriuretic peptide. *Molecular and Cellular Biochemistry*, 105:15-20, 1991.
49. Ganguly, P.K. and Sherwood, G. R. Norepinephrine turnover and metabolism in myocardium following aortic constriction in rats. *Cardiovascular Research*, 25:579-585, 1991.
50. Woo, N.D., Sahai, A., Anderson, W.A. and Ganguly, P.K. Modulation of sympathetic activity by brain neuropeptide Y in cardiac hypertrophy. *American Heart Journal*, 122:1028-1034, 1991.
51. Ganguly, P.K., Mukherjee, K. and Chen Y. Altered dopamine receptors during the development of cardiac hypertrophy. *American Journal of Physiology*, 262:E569-573, 1992.
52. Sahai, A. and Ganguly, P.K. Atrial natriuretic peptide: pathophysiological considerations. *Indian Journal of Physiology and Pharmacology*, 36:3-14, 1992.
53. Kirouac, G. J. and Ganguly, P.K. Upregulation of dopamine receptors in the brain of the spontaneously hypertensive rat: an autoradiographic analysis. *Neuroscience*, 52:135-141, 1993.

Pallab K. Ganguly

54. Kirouac, G.J. and Ganguly, P.K. Cholecystokinin receptor density in the striatum of the spontaneously hypertensive rat: *Brain Research*, 604:338-341, 1993.
55. Sahai, A. and Ganguly, P.K. Observations on atrial natriuretic peptide, sympathetic activity and renal Ca^{2+} pump in diabetic and hypertensive rats. *Clinical and Autonomic Research*, 3:137-143, 1993.
56. Sahai, A. Weiser, S.J., and Ganguly, P.K. Renal Ca^{2+} + Mg^{2+} ATPase in congestive heart failure due to diabetes. *Angiology*, 44:769-775, 1993.
57. Woo, N.D. Mukherjee, K. and Ganguly, P.K. Norepinephrine levels in the paraventricular nucleus of spontaneously hypertensive rats: role of neuropeptide Y. *American Journal of Physiology (Heart and Circulatory Physiology)*, 265:H893-H898, 1993.
58. Faiman, G., Ganguly, P.K., Mehta, A., and Thliveris, J.A. Effect of statil on kidney structure, function and polyol accumulation in diabetes mellitus. *Molecular and Cellular Biochemistry*, 125:27-33, 1993.
59. Sahai, A. Weiser, S. and Ganguly, P.K. Atrial natriuretic peptide in diabetes associated with congestive heart failure. *Annals of Neurosciences*, 14:263-270, 1994.
60. Woo, N.D. and Ganguly, P.K. Altered neuropeptide Y effects on norepinephrine levels in the paraventricular nucleus of rats following aortic constriction. *Canadian Journal of Cardiology*, 10:471-476, 1994.
61. Ganguly, P.K. and Sahai, A. Renal handling of Ca^{2+} in diabetes. *Molecular and Cellular Biochemistry* 135:109-112, 1994
62. Woo, N.D., Lam, D.S.C., Hays J.A., Panagia, V. and Ganguly, P.K. Adrenoceptor mediated effect of neuropeptide Y decreases cardiac inotropic responses. *Biochimica et Biophysica Acta*, 1222:457-463, 1994.
63. Mukherjee, K., Sahai, A. and Ganguly, P.K. Renal D1 receptors, and not D2, are upregulated after aortic constriction and may be involved in cardiac hypertrophy. *Journal of Autonomic Pharmacology*, 14:307-316, 1994.
64. Ganguly, P.K. Mukherjee, K. and Sahai, A. Renal dopamine receptors are involved in the development of cardiac hypertrophy. *Molecular and Cellular Biochemistry*, 144:81-84, 1995.
65. Kirouac, G.J. and Ganguly, P.K. Topographical organization in the nucleus accumbens of afferents from the basolateral amygdala and efferents to the lateral hypothalamus. *Neuroscience*, 67:625-630, 1995.

Pallab K. Ganguly

66. Kirouac, G.J. and Ganguly, P.K. Upregulation of cholecystokinin receptors in the nucleus accumbens of the young prehypertensive spontaneously hypertensive rat. *Neuroscience Letters*, 191:197-199, 1995.
67. Kirouac, G.J. and Ganguly, P.K. Cholecystokinin induced release of dopamine in the nucleus accumbens of the spontaneously hypertensive rat. *Brain Research*, 689:245-253, 1995.
68. Woo, N.D. and Ganguly, P.K. Neuropeptide Y prevents agonist-stimulated increases in contractility. *Hypertension*, 26:480-484, 1995.
69. Basu, S., Sinha, S.K., Shao, Q., Ganguly, P.K. and Dhalla, N.S. Neuropeptide Y modulation of sympathetic activity in myocardial infarction. *Journal of American College of Cardiology*, 27:1796-1803, 1996.
70. Iwase, M. Ishikawa, Y., Shannon, R.P., Shen, Y.T., Sato, N., Ganguly, P.K., Eki, T., Vatner, D and Vatner, S.F. Neurally mediated cardiac effects of forskolin in conscious dogs. *American Journal of Physiology*, 271:H1473-H1482, 1996.
71. Ganguly, P.K., Shao, Q., Dhalla, K.S. and Dhalla, N.S. Differential changes in sympathetic activity in left and right ventricles in congestive heart failure after myocardial infarction. *American Heart Journal* 133:340-345, 1997.
72. Ganguly, P. K. , Russell, J. C. and Pierce, G.N. Renal calcium pump activity in JCR : LA-corpulent Rats. *International Journal of Diabetes* 5:120-125, 1997
73. Ganguly, P.K. Stress, sympathetic activity and heart disease : Is there any common mediator? *Saudi Medical Journal*, 19:109-112, 1998
74. Dakshinamurti, K., Lal, K.J. and Ganguly, P.K. Hypertension, calcium channel and pyridoxine (vitamin B6). *Molecular and cellular biochemistry*, 188: 137-148, 1998
75. Abouna, G.M., Ganguly, P.K., Hamdy, H. M., Jabbar, S.S., Tweed, W.A. and Costa, G. Extracorporeal liver perfusion system for the support in hepatic failure pending liver regeneration or liver transplantation.: A preclinical controlled trial *Transplantation*, 67:1576-1583 ,1999
76. Sethi, R., Dhalla, K.S., Ganguly, P.K., Ferrari, R. and Dhalla, N.S. Beneficial effects of propionyl L-carnitine on sarcolemmal changes in congestive heart failure due to myocardial infarction. *Cardiovascular Research*, 42: 607-615, 1999
77. Shao, Q, Ren, B., Zarain-Herzberg, A., Ganguly, P.K. and Dhalla, N. S. Captopril treatment improves the sarcoplasmic reticular Ca²⁺ transport in heart failure due to myocardial infarction. *Journal of Molecular and Cellular Cardiology*, 31: 1663-1672, 1999

Pallab K. Ganguly

78. Ganguly, P.K. Diabetic cardiomyopathy: an intrinsic problem of cardiac membranes. *Bahrain Medical Bulletin*, 21: 94-96, 1999
79. Ganguly, P.K. Neuropeptide Y receptors : future therapeutic target in congestive heart failure. *Journal of Health Science*, 46: 430-433, 2000
80. Ganguly, P.K. Beneficial effect of portacaval shunt on cardiac contractility in dogs. *Journal of Health Science*, 47: 83-85, 2001
81. Abouna GM, Ganguly P, Jabur S, Tweed W, Hamdy H, Costa G, Farid E, and Sater A., Successful Ex Vivo Liver Perfusion System for Hepatic Failure Pending Liver Regeneration or Liver Transplantation. *Transplantation Proceedings*, 33: 1962-1964, 2001
82. Ganguly, P.K., Chakravarty, M, Latif, N. A., Osman, M, Abu-Hijleh, M. Teaching of anatomy in a problem-based curriculum at the Arabian Gulf University: the new face of the museum. *Clinical Anatomy* 16: 256-261, 2003
83. Abu-Hijleh, M.F., Kassab, S., Al-Shboul, Q, Ganguly, P.K. Evaluation of the teaching strategy of cardiovascular system in a problem-based curriculum: student perception. *Advances in Physiological Education* 28: 59-63, 2004
84. Shah, K.R., Ganguly, P.K., Netticadan, T., Arneja, A.S., Dhalla, N.S. Changes in skeletal muscle SR calcium pump in congestive heart failure due to myocardial infarction are prevented by angiotensin II blockade. *Canadian Journal of Physiology and Pharmacology*. 82: 438-447, 2004
85. Ren, B., Shao, Q., Ganguly, P.K., Tappia, P.S., Takeda, N., Dhalla, N.S. Influence of long-term treatment of imidapril on mortality, cardiac function and gene expression in congestive heart failure due to myocardial infarction. *Canadian Journal of Physiology and Pharmacology*, 82:1118-1127, 2004
86. Chakravarty, M., Latif, N.A., Abu-Hijleh M.F., Osman, M., Dharap, A.S., Ganguly, P.K.. Assessment of Anatomy in a problem-based Medical Curriculum. *Clinical Anatomy*, 18:131-136, 2005
87. Abu-Hijleh, M.F., Chakravarty, M, Al-Shboul, Q, Latif, N.A., Osman, M, Bandaranayake, R., Ganguly, P.K. Structured problem-related anatomy demonstration:making order of random teaching events. *Teaching and learning in Medicine*, 17:68-72, 2005
88. Edel A.L., Kopilas, M., Clark, T.A., Aguilar, F., Ganguly, P.K., Heyliger, C.E., Pierce, G.N. Short-term bioaccumulation of vanadium when ingested with a tea decoction in streptozotocin-induced diabetic rats. *Metabolism*, 55:263-270, 2006

Pallab K. Ganguly

89. Ganguly, P.K., Sanii, R. The new face of the old problem (letter to the editor). *Clinical Anatomy*, 19: 778-779, 2006
90. Al-Khalifa A., Maddaford, T.G., Chahine, M.N., Austria, J.A., Edel, A.L., Richard, M.N., Ander, B.P., Gavel, N., Kopilas, M., Ganguly, R., Ganguly, P.K., Pierce, G.N. The Effect of dietary hempseed intake on cardiac ischemia/reperfusion injury. *American Journal of Physiology (Regul. Integr. Comp. Physiol.)* November 22: 661-670, 2006
91. Chan, L.K., Ganguly, P.K. Evaluation of small group teaching in human gross anatomy in a caribbean medical school. *Anatomical Sciences Education* , 1:19-22, 2008
92. Ganguly, P.K., Maddaford, T. G., Edel, A.L., Karmin, O, K, Smeda, J.H., Pierce, G. N. Increased homocysteine-induced release of excitatory amino acids in the striatum of spontaneously hypertensive stroke-prone rats. *Brain Research*, 1226: 192-198, 2008
93. Dharap, A., Bandaranayke, R., Robertson, A.S., Mohammad, A.M., Al-Haddad, M.K., Ganguly, P.K. Perceptions of Medical Students Undertaking a Problem-Based Learning Curriculum: Experiences During the Pre-Clerkship Phase. *Bahrain Medical Bulletin*, 30:1-8, 2008
94. Ganguly, P.K., Chan, L.K. Living anatomy in the 21st century: how far can we go? *South East Asian Journal of Medical Education*, 2: 52-57, 2008
95. Ganguly, P.K. Teaching and learning of anatomy in the 21st century: direction and the strategies. *The Open Medical Education Journal*, 3: 5-10, 2010
96. Ganguly P.K. Neuropeptide Y level in hypothalamus of experimental diabetic rats: correlation with sympathetic activity and body weight. *International Journal of General Medicine*, 3: 321-325, 2010
97. Clark, T.A., Maddaford, T.G., Tappia, P., Heyliger, C., Ganguly, P.K., Pierce, G. Restoration of cardiomyocyte function in streptozotocin-induced diabetic rats after treatment with vanadate in a tea decoction. *Current Pharmaceutical and Biotechnology*, 11(8):906-10, 2010.
98. Cowan, M.M., Hamweyah, K.M., Sabbagh, MD, Swaid, A., Alkattan, A.K., Ganguly, P.K. Persistent bilateral sciatic arteries: a rare finding of clinical importance. *International Journal of Angiology*, 19:e43-e44, 2010
99. Ganguly, P., Khraibi, A., Juurlink, B. Medical education in cardiovascular sciences: accommodating a research-driven curriculum. *CV network* 9 (2): 15-17, 2010.

Pallab K. Ganguly

100. Cowan, M., Arain, N.N., Assale, T.S.A, Assi, A.H., Albar, R.A., Ganguly, P.K. Student-centered integrated anatomy resource sessions at Alfaisal University. *Anatomical Sciences Education* 3:272-275, 2010
101. Yaqinuddin, A., Kvietyts, P., Ganguly, P., Ikram, F., Yaeesh, S. and Kattan, W. PBL performance correlates with content acquisition assessment: a study in a hybrid PBL program at Alfaisal University, *Medical Teacher*, 34(1):83, 2012
102. Ramjiawan, B., Pierce, G. N., Anindo, MIK, AlKukhun, A., Alshammari, A., Chamsi, A. T., Abousaleh, M., Alkhani, A. and Ganguly, P.K. An international basic science and clinical research summer program for medical students, *Advances in Physiology Education* 36:(1) 27-33, 2012
103. Alyafi, M, AlAmodi, A.A, Juurlink, B.H, Ganguly, P.K. How the dissection laboratory facilitates integrated learning: presence of abdominal aortic aneurysm with a large intracardiac thrombus: a rare cadaveric finding, *International Journal of Angiology*, 21: 77-80, 2012
104. Chakravarty, M., Al-Bu-Ali, W.H., Abdul L.N., Abu-Hijleh, M., Ganguly, P.K. Applying the Pythagorean Model to Derive a Correction Factor for Estimating Minimal Competence with Greater Fidelity. *Journal of Education and Practice* 3:34-41, 2012.
105. Yaqinuddin, A., Zafar, M., Ikram, M.F., Ganguly, P. What is an objective structured practical examination in anatomy? *Anatomical Sciences Education*, 6: 125-133, 2013.
106. Juurlink, B.H.J., Azouz, H.J., Aldalati, A.M.J., AlTinawi, B.M.H., Ganguly, P. Hydroxybenzoic acid isomers and the cardiovascular system. *Nutrition Journal*, 13: 63-68, 2014
107. Ganguly, P.K., Alam, S.F. Role of homocysteine in the development of cardiovascular disease. *Nutrition Journal*, 14:6-18, 2015
108. Yaqinuddin, A., Ikram, M.F., Zafar, M., Eldin, N.S., Mazhar, M.A., Shaikh, A.F., Obeidat, A., Al-Kattan, K., Ganguly, P. The integrated clinical anatomy program at Alfaisal University: an innovative model of teaching clinically applied functional anatomy in a hybrid curriculum. *Advances in Physiological Education*, 40: 56-63, 2016

II. Chapters in Book.

1. Dhalla, N.S. Pierce, G. N. and Ganguly, P.K. Methods for measuring Ca^{2+} transport in cardiac subcellular membrane fractions. In : *Methods in Studying Cardiac Membranes. Vol. I* (Ed. N.S. Dhalla) CRC Press, Inc., Boca Raton, pp 135-145, 1994
2. Pierce, G. N., Ganguly P.K., Dzurba, A. and Dhalla, N.S. Modification of the function of cardiac subcellular organelles by insulin. *Advances in Myocardiology*, 6:113-125, 1985

Pallab K. Ganguly

3. Ganguly, P.K., Panagia, V. and Dhalla, N.S. Evidence for three catalytic sites in heart sarcolemmal phospholipid N-methylation. *Advances in Myocardiology*, 6:157-164,1985
4. Dhalla, N. S., Ganguly, P.K., Panagia, V. and Beamish, R. E. Catecholamine-induced cardiomyopathy: Alterations in calcium transport systems. In: *Pathogenesis of Myocarditis and Cardiomyopathy: Recent Experimental and Clinical Studies* (Eds C. Kawai, and W.H. Abelmann), University of Tokyo Press, Tokyo, Japan, pp 135-147,1987
5. Ganguly, P.K., Dhalla, K.S., Beamish, R.E., Innes, I.R. and Dhalla, N.S. Involvement of catecholamines in the development of diabetic cardiomyopathy. In: *Pathophysiology of Heart Disease* (Eds. N.S. Dhalla, P.K. Singal and R. E. Beamish), Martinus Nijhoff Publishing, Boston, pp 177-184, 1987
6. Dhalla, N.S., Ganguly, P.K. and Beamish, R.E. Comparative aspects of skeletal muscle and cardiac myofibrils and sarcoplasmic reticulum functions in chronic diabetes. In: *Advances in myochemistry, Proceedings of the 2nd Congress of Myochemistry* (Ed. G. Benzi) Rome, John Libbey Eurotext, pp 245-252, 1987
7. Ganguly, P.K., Beamish, R.E. and Dhalla, N.S. Abnormalities of adrenergic mechanisms in diabetic cardiomyopathy. In: *Pathophysiology and Pharmacology of Heart Disease*. (Eds. I.S. Anand, P.L. Wahi and N.S. Dhalla) Kluwer Academic Publishers, Boston, pp 197-203, 1989.
8. Ganguly, P.K., and Sherwood, G. Cardiac sympathetic system: Basic aspects. In: *Catecholamines and Heart Disease*. (Ed. P.K. Ganguly), CRC Press, Boca Raton, Fl., pp 1-13, 1991
9. Sahai, A. and Ganguly, P.K. Evaluation of functional status of sympathetic system. In: *Catecholamines and Heart Disease*. (Ed. P.K. Ganguly), CRC Press, Boca Raton, Fl., pp 15-43, 1991.
10. Beamish, R.E. Singal, P.K. and Ganguly, P.K. Stress, catecholamines and heart disease. In: *catecholamines and Heart Disease*. (Ed. P.K. Ganguly), CRC Press, Boca Raton. Fl., pp 231-244,1991
11. Mazumder, S., Singal, P.K. and Ganguly, P.K. catecholamines and heart disease: Possible metabolic interventions In : *Catecholamines and Heart Disease* . (Ed. P.K. Ganguly). CRC Press, Boca Raton, Fl., pp 267-275, 1991
12. Woo, N.D., Anderson, W. A. and Ganguly, P.K. Central control of cardiac hypertrophy. In : *Catecholamines and Heart Disease*. (Ed. P.K. Ganguly), CRC Press, Boca Raton, Fl., pp 163-176, 1991
13. Sahai, A. and Ganguly, P.K. Transport system in Kidney basolateral membrane: Pathophysiologic implication. In: *Membrane Physiopathology*. (Ed. G. Bkaily) Kluwer Academic Publishers, pp 249-270, 1994
14. Ganguly, P.K., and Beamish, R.E. Stress and Heart Disease: Involvement of Catecholamines. In: *Multiple Risk Factors in Cardiovascular Disease, the 2nd symposium proceedings*, (Ed. A. Yamamoto) Churchill Livingstone Japan K.K., pp 85-89,1994

Pallab K. Ganguly

15. Ganguly, P.K., Basu, S. and Frechette, R. Hypertension: extracardiovascular involvement. In: *Proceedings of the 11th Asian-Pacific Congress of Cardiology*, Elsevier, pp 43-49, 1995
16. Mazumder, S. and Ganguly, P.K. Neuropeptide Y receptor: future therapeutic target in hypertension. In: *Proceedings of the IVth International Society of the Adaptive Medicine*, (Eds. N.K. Ganguly, P.K. Singal) pp 367-382, 1997
17. Ganguly, P. K. and Chakravarty, M. Role of hypothalamic peptides in the development of hypertension. In: *Atherosclerosis, Hypertension and Diabetes* (Eds Pierce GN, Nagano, M, Zahradka, P and Dhalla NS), Kluwer Academic Publishers, Boston, pp155-161, 2002
18. Ganguly, P.K. and Senthilkumar, U. Anatomy resource centre: an ideal place for teachers and teaching. In: *Progress in Education, Vol 18* (Editor, Robert V. Nata), Nova Publishers, NY, USA, pp 51-65, 2010
19. Ganguly, P.K., AlShibi, A.N., AlShehri, K., Abdulkaki, A., Jobeir, A., Sabbagh, M.D., Maddaford, T.H. and Pierce, G.N. Diabetes, hyperhomocysteinemia and stroke: the missing link. In *Horizons in Neuroscience Research* (Editors Andres Costa and Eugenio Villaba), Nova Publishers, NY, USA, pp 1-13 (Chapter 12)
20. Ganguly, P.K. Anatomical education in the past: lessons from history. In: *Education in Anatomical Sciences* (Editor, Paul Ganguly), Nova publishers, NY, USA, pp 1-7 (Chapter 1).

D. Abstracts:

1. Ganguly, P.K. Srivastava. L.M., Goel, B.K. and Bora, P.S. Pharmacological intervention with Nifedipine, a calcium antagonist, on altered LDH isoenzymes in experimental myocardial infarction. In *Proceedings of the VII Annual Conference of the Association of Clinical Biochemists of India*, Kasturba Medical College, December, 20-22., 1980. Manipal, India
5. Ganguly, P.K. Srivastava, L.M., Goel, B.K., Gupta, M.P. and Seth, S.D. Effect of Nifedipine, a Ca²⁺ antagonist, on the control of glycolysis in experimental myocardial infarction in rats. *Indian Journal of Heart Research*, 1:48, 1980
3. Seth, S.D., Gupta, M.P. Srivastava, L.M., Manchanda, S.C. and Ganguly, P.K. Oxyfedrine and experimental myocardial infarction: substrate effects. *Journal of Molecular and Cellular Cardiology*, 12 (Suppl.) :149, 1980
4. Seth, S.D., Ganguly, P.K., Srivastava, L.M. and Gupta, M.P. Protection of ischaemic myocardium by Nifedipine, *Journal of Molecular and Cellular Cardiology*, 12: 149, 1980.
5. Srivastava, L.M., Ganguly, P.K., Bora, P.S. and Gupta M.P. Altered lactic dehydrogenase isoenzymes in experimental myocardial ischaemia, *Indian Journal of Biochemistry and Biophysics*, 18:54, 1981

Pallab K. Ganguly

6. Bora, P.S., Srivastava, L.M., Ganguly P.K. and Bhatt, S.D. Myocardial necrosis in streptozotocin diabetes mellitus. In: *Proceeding of the Eighth International Congress of Pharmacology, IUPHAR, July 19-24, 1981: Tokyo, Japan*
7. Ganguly, P.K. Pierce, G.N. and Dhalla, N.S. Insulin-induced reversibility of a defect in cardiac sarcoplasmic reticular Ca^{2+} transport in diabetes. *Proceedings of Canadian Federation in Biological Societies*, PA-23,1983
8. Panagia, V., Ganguly, P.K. and Dhalla, N.S. Characterization of Phospholipid transmethylation in heart sarcolemma. *Proceedings of Canadian Federation of Biological Societies*, PA-447, 1983
9. Panagia, V., Gnaguly, P.K. and Dhalla, N.S. Presence of three active sites for phospholipid methyltransferase in cardiac sarcolemma. *Journal of Molecular and Cellular Cardiology*, 15 (Suppl.1) :292,1983
10. Pierce, G.N. Ganguly, P.K. Dzurba, A. and Dhalla, N.S. Calcium interaction with various subcellular membrane of the heart in the presence of insulin. *Journal of Molecular and Cellular Cardiology*, 15 (Suppl. 1): 356,1983
11. Ganguly, P.K., Pierce, G.N., Panagia, V., Dhalla, K.S., Beamish. R.E. and Dhalla, N.S., Various subcellular membranes of the heart in the presence of insulin. *Journal of Molecular and Cellular Cardiology*, 15 (Suppl.1) :366, 1983
12. Panagia, V., Ganguly, P.K., Elimban, V. and Dhalla N.S. Ca^{2+} binding and Ca^{2+} ATPase activities in heart sarcolemma upon methylation. *Journal of Molecular and Cellular Cardiology* , 15 (Suppl.4): 35,1983
13. Ganguly, P.K., Rice, K.M., Panagia, V. and Dhalla, N.S. Altered sarcolemmal phosphatidylethanolamine N-methylation during diabetic cardiomyopathy. *Journal of Molecular and Cellular Cardiology*, 16 (Suppl.1):17,1984
14. Okumura, K. Ganguly, P.K., Panagia, V. and Dhalla, N.S. Subcellular localization of phospholipid N-methylation in rat heart. *Proceedings of Canadian Federation of Biological Societies* PA-292, 1985
15. Ganguly, P.K., Dhalla, K.S. Beamish, R.E. and Dhalla, N.S. Norepinephrine turnover in streptozotocin-induced diabetic cardiomyopathy. *Journal of Molecular and Cellular Cardiology*, 17: XXIII, 1985
16. Panagia, V., Makino, N. Ganguly, P.K. and Dhalla, N.S. Inhibition of Na^{+} - Ca^{2+} exchange in cardiac sarcolemma by phospholipid N-methylation, *Journal of Molecular and Cellular Cardiology*, 17:XL, 1985
17. Panagia, V., Rice, K.M., Ganguly, P.K. and Dhalla, N.S. Quinidine-induced changes in cardiac sarcolemmal phospholipid N-methylation. *Journal of Molecular and Cellular Cardiology*, 18 (Suppl.1): 318, 1986

Pallab K. Ganguly

18. Okumura, K, Makino, N., Ganguly, P.K., Panagia, V. and Dhalla, N.S. Influence of phosphatidylethanolamine N-methylation of heart sarcolemmal Ca²⁺ transport system. *Federation Proceedings*, 45: (3), 189, 1986
19. Ganguly, P.K., Innes, I.R., Beamish, R.E., Dhalla, K.S. and Dhalla, N.S. Increased norepinephrine metabolism in diabetic cardiomyopathy. *Journal of Molecular and Cellular Cardiology*, 18(Suppl.3):29, 1986
20. Ganguly, P.K., Taira, Y., Elimban, V., Roy, M. and Dhalla, N.S. Effect of streptozotocin-induced diabetes in rats on contractile proteins in hindlimb muscle. *Proceedings of Canadian Federation in Biological Societies*, Mo-PA-23, 1987
21. Panagia, V., Tung, S., Ganguly, P.K., Shah, K. and Dhalla, N.S. Changes in phospholipid N-methylation of cardiac subcellular membranes in diabetes. *Proceedings of Canadian Federation in Biological Societies*, MO-PA-12, 1987
22. Afzal, N., Ganguly, P.K., Dhalla, K.S. Pierce, G.N., Singal, P.K. and Dhalla, N.S. Ca²⁺ blocker therapy and cardiac function in diabetes. *Journal of Molecular and Cellular Cardiology*, S.63, 1987
23. Gupta, M.P., Panagia, V., Ganguly, P.K. and Dhalla, N.S. Methionine-induced positive inotropic effect in rat heart: Possible role of Phospholipid N-methylation. *Journal of Molecular and Cellular Cardiology* S.58, 1987
24. Ganguly, P.K., Pathophysiology of cardiac dysfunction in chronic diabetes. In: *Proceedings of the Annual Conference of the International Society of Heart Research, (Indian Section) Feb. 25-28, 1988 Chandigarh, India*
25. Ganguly, P.K. Adaptive changes in lactate metabolism during catecholamine-induced cardiomyopathy. *The FASEB Journal*, Vol. 3 March, 1989
26. Ganguly, P.K. Lee, S.L. Dhalla, K.S. Waghray, G., Beamish, R.E. and Dhalla, N.S. Changes in the sympathetic system and adrenergic receptors during development of cardiac hypertrophy. *Journal of Molecular and Cellular Cardiology*, 21:S.73, 1989
27. Ganguly, P.K. Modulation of cardiac adrenergic receptors by dopamine beta-hydroxylase. *Circulation*, 80 (No.4):II-443, 1989
28. Sherwood, G. and Ganguly, P.K. Altered norepinephrine turnover and metabolism in myocardium of aortic-constricted rats. *The FASEB Journal*, vol. 4, A1205, 1990
29. Tong, J., Ganguly, P.K. and Singal, P.K. Alteration in adrenergic mechanisms in early and late stages of adriamycin cardiomyopathy. *Journal of Molecular and Cellular Cardiology*, 22:S.23 1990
30. Sahai, A. and Ganguly, P.K. Role of atrial natriuretic peptide in the modulation of kidney

Pallab K. Ganguly

- (Ca²⁺ +Mg²⁺) ATPase in chronic diabetes. *Journal of Molecular and cellular Cardiology* 22:S.18,1990
31. Ganguly, P.K. Impaired inotropic responses to adrenergic stimulation following aortic constriction: role of oxidation product of catecholamines, In: *Proceedings of the 32nd Annual Meeting of International College of Angiology, Toronto, June 25-29,1990*
 32. Sahai, A. and Ganguly, P.K. Atrial natriuretic peptide receptors in kidney basolateral membrane in diabetes: relationship with Ca²⁺ pump activity. In: *Proceedings of Ottawa symposium on atrial natriuretic factor, A decade of ANF research, Ottawa, June 21-23, 1990*
 33. Ganguly, P.K. and Sahai, A. Congestive heart failure in diabetes with hypertension may be due to uncoupling of the ANP receptor-effector system in kidney basolateral membrane. *J. Clin. Invest. Med*, October,1990
 34. Woo, N.D., Anderson, W.A. and Ganguly, P.K. Extracellular norepinephrine concentrations in the brain following abdominal aortic constriction in the rat: A microdialysis study. *The FASEB Journal* , April, 1991
 35. Ganguly, P.K., Mukherjee, K. and Chen, Y. Characteristics of dopamine receptors in heart and kidney following abdominal aortic constriction. *Proceedings of the 33rd Annual Meeting of International College of Angiology, Singapore, June 30-July 6, 1991*
 36. Woo, N.D., Sahai, A., Chen, Y., Mukherjee, K. and Ganguly, P.K. Modulation of sympathetic activity by brain neuropeptide Y in cardiac hypertrophy. *Journal of Molecular and Cellular Cardiology*, 23:S.73,1991
 37. Weiser, S. Sahai, A. and Ganguly. P.K. Interaction between Ca²⁺ pump and guanylate cyclase system in diabetic kidney. *Proceedings of Canadian Federation of Biological Societies*, 309, 1991
 38. Sahai, A. and Ganguly, P.K., Atrial natriuretic peptide levels in congestive heart failure due to chronic diabetes: experimental artifact or clinical dilemma? *J. Clin. Invest. Med.*, October,1991
 39. Woo, N.D. and Ganguly, P.K. Effect of neuropeptide Y on catecholamine levels in the paraventricular nucleus following aortic constriction in rats. *Proceedings of the International Symposium on Microdialysis and Allied Analytical Techniques, Indianapolis, Indiana, May 15-17, 1991*
 40. Sahai, A., and Ganguly, P.K. Renal Ca²⁺ + Mg²⁺ ATPase is linked to atrial natriuretic peptide-receptor system: a paradigm in congestive heart failure. *Journal of Molecular and Cellular Cardiology*, 24:S205, 1992

Pallab K. Ganguly

41. Kirouac, G. J. and Ganguly, P.K. An *in vitro* autoradiographic investigation of dopamine receptors in the brain of the spontaneously hypertensive rat (SHR). *Proceedings of the Canadian Federation of Biological Societies*, 336,1992
42. Sahai, A. and Ganguly, P.K. Atrial natriuretic peptide: Involvement in diabetes-induced congestive heart failure. *Proceedings of the Symposium on Trends in Molecular and Cellular Cardiology, Lucknow, India, May 2-5, 1992*
43. Lam, D.S.C., Woo, N.D., and Ganguly, P.K. Effect of neuropeptide Y on Cardiac adrenoceptors. *Canadian Journal of Cardiology*, October 1992
44. Woo, N.D., Mukherjee, K, and Ganguly, P.K., Catecholamine levels in the paraventricular nucleus of spontaneously hypertensive rat: role of neuropeptide Y. *Canadian Journal of Cardiology*, October, 1992
45. Ganguly, P.K. Sahai, A., and Weiser, S., Renal Ca^{2+} Mg^{2+} ATPase in congestive heart failure due to diabetes. *Proceedings of the American College of Angiology Meeting, New Orleans, October 11-15,1992*
46. Ganguly, P.K. and Beamish R.E. Stress and heart disease: involvement of catecholamines. *Proceedings of the Second International Symposium on Multiple Risk Factors in Cardiovascular Disease, Osaka, Japan, October5-8, 1992*
47. Kirouac, G., and Ganguly, P.K. Differences in the density of cholecystinin receptors in the striatum of the spontaneously Hypertensive rat (SHR) and the Wistar-Kyoto rat (WKY). *Proceedings of the Canadian Federation of Biological Societies*, P.121, 1993
48. Ganguly P.K. Stress, catecholamines and heart disease. *Proceedings of the International Symposium on Oxygen Radicals and Antioxidants in Biotechnology and Medicine, Calcutta, India, December 5-8, 1993*
49. Sahai, A. and Ganguly, P.K. Progression of cardiac hypertrophy: involvement of renal DAI receptors. *Proceedings of the American College of Angiology Meeting Orlando, Florida, October 3-8, 1993*
50. Woo, N.D. and Ganguly, P.K. Effect of neuropeptide Y on brain catecholamines after captopril treatment. *Proceedings of the 46th Annual Meeting of the Canadian Cardiovascular Society, Vancouver, British Columbia, October 26-30, 1993*
51. Woo, N.D. and Ganguly, P.K. Benextramine(BNX) reverses modulatory effect of neuropeptide Y (NPY) on norepinephrine(NE) in hypertension. *The FASEB Journal*, 8: A 846, 1994
52. Kirouac, G. J. and Ganguly, P.K. Relay in the nucleus accumbens from the basolateral amygdala to the lateral hypothalamus. *Proceedings of the Canadian Federation of Biological Societies*, abstract #350, 1994

Pallab K. Ganguly

53. Woo, N.D. Basu, S. and Ganguly, P.K. Neuropeptide Y negates isoproterenol-stimulated increases in contractility. *Proceedings of the International Conference on Heart failure*, Winnipeg, May 20-23, 1994
54. Sahai, A., Mukherjee, K. and Ganguly, P.K. Renal dopamine receptors in cardiac hypertrophy. *Proceedings of the International Conference on Heart Failure*, Winnipeg, May 20-23, 1994
55. Mohammadzadeh, G., Sahai, A and Ganguly, P.K. Is hypertension in diabetes due to altered dopamine receptor mechanism? *Journal of Molecular and Cellular Cardiology*, supplementary, 1994
56. Kirouac, G. J. and Ganguly, P.K Cholecystokinin-induced release of dopamine in the nucleus accumbens of the spontaneously hypertensive rat. *Society for Neuroscience*, 51:4, 1994
57. Woo, N.D. and Ganguly, P.K. Neuropeptide Y prevents agonist-stimulated increases in contractility. *Abstracts of the Council for high blood pressure research, 48th Annual Fall Conference and Scientific Sessions-* American Heart Association (Abstract # 24), September 27-30, 1994, Chicago, USA
58. Basu, S., Sinha, S.K., Ganguly P.K. Sao, Q., and Dhalla N.S. NPY modulation of sympathetic activity in myocardial infarction. *Journal of Molecular and Cellular Cardiology*, 27: A19, 1995
59. Ganguly, P.K. Hypertension: extracardiovascular involvement *Proceedings of the 11th Asian-Pacific Congress Cardiology, Bali, Indonesia*, September, 12-17, 1995 PS 15
60. Dakshinamurti, K., Lal,K.J., Biswas, S. Frechette, R. and Ganguly, P.K. Vitamin B₆ (Pyridoxine) and hypertension. *Proceedings of the Animal Models of Cardiac Dysfunction Minneapolis*, September 28-29, 1995
61. Ganguly, P.K. and Mukherjee, K. Neuropeptide Y receptors: potential therapeutic drug targets in hypertension. *Proceedings of the IVth World Congress of International Society for Adaptive Medicine, Chandigarh, India*, Dec. 9-12, 1995
62. Ganguly, P.K. , Frechette, R., Bhatnagar, V., Banerjee, K., Dhalla, U. and Katoor, H. Effect of alcohol on striatal dopamine content in hypertensive animals, *Proceedings of the Cellular Basis of Cardiovascular Function in Health and Disease* (In Honour of the 60th Birthday of Dr. N.S. Dhalla) ,1996
63. Dakshinamurti, K., Lal, K. J., and Ganguly, P.K. Hypertension, calcium channel and pyridoxine(vitamin B₆) in: *Proceedings of the World Conference of the International Society for Nutrition and Therapy*, Winnipeg, Canada, August, 1-4,1997

Pallab K. Ganguly

64. Ganguly, P. K. Basu, S. and Dhalla, N. S. the role of neuropeptides in the development of congestive heart failure. *Proceedings of the International Symposium on Heart Disease, Cairo, Egypt, May 18-24, 1998*
65. Ganguly, P.K. Measuring stress at the Arabian Gulf University. *Annual Research Day (Poster Presentation) AGU, Manama, June 6,1998*
66. Abouna, G. M. Ganguly, P.K. Hamdy, H. Tweed, W. A. and Costa, G. Ex-vivo liver perfusion system: an effective and successful method for hepatic support In : *Proceedings of the 24th Annual Scientific Meeting of the American Society of Transplant Surgeons, NJ, USA, May 13-15, 1998*
67. Ganguly, P.K. Surgical approach in congestive heart failure. *Proceedings of the International conference on emerging potentials of antioxidants therapy (EPAT 99), GOA, India, January 9-11, 1999*
68. Ganguly, P.K., Bandaranayake, R., Robertson, A.S., Mohammad, A.M., Haddad, M. and Dharap, A. Perceptions of medical students undertaking a PBL curriculum: experience during a pre-clerkship phase. In *Annual Network Conference, October 21-26, 2000, Manama, Bahrain*
69. Dharap, A., Bandaranayake, R., Robertson, A.S., Mohammad, A.M., Haddad, M. and Ganguly, P.K. Pre-medical students' perception of PBL as practised at Arabian Gulf University (AGU). In *Annual Network Conference, October 21-26, 2000, Manama, Bahrain*
70. Ganguly, P.K., Portacaval Shunt: Beneficial effect on Cardiac Contractility. In *Proceedings of the Annual Conference of International Society of Heart Research (ISHR) INDIA, January 27th to January 29th, 2001, New Delhi, India.*
71. Ganguly, P.K., Chakravarty, M., Latif, N. A. Osman, M., Abu-Hijleh, M., Hamdy, H. and Bandaranayake, R. Increasing the use of the anatomy museum in the problem-based curriculum. In : *10th Ottawa conference on Medical Education, July 13-July 16, Ottawa, Canada, 2002.*
72. Ganguly, P.K. Cardiovascular system in a problem-based curriculum in Arabian Gulf University. In: *18th World Congress of ISHR meeting, Brisbane, Australia, August 6-August 10, 2004.*
73. Latif, N.A., Chakravarty, M., Dharap, A., Raouf, F., Abu-Hijleh, M., Osman, M. and Ganguly P.K. Use of clinical problems in assessing the learning outcomes of anatomical principles at end of unit examinations. In: *Proceedings of APICA, September 7-10, 2005, Kusadasi, Turkey, 2005.*

Pallab K. Ganguly

74. Ganguly, PK. Diabetes, hyperhomocysteinemia and stroke: the missing link. *In proceedings of 4th World Congress of International Academy of Cardiovascular Sciences*, Vadodara, India, p49, 2011.
75. Ganguly, P.K. Science through heart education. *Experimental and Clinical Cardiology* 16: abst. 39, 2011.