Dipak K. Banerjee, M.Sc., Ph.D.

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Research Interests:
Angiogenesis and Breast Cancer; Glycobiology and second messenger; Structure-function of dolicholphosphate mannosyl transferase (DPMS); Catecholamine homeostasis, Congenital Disorder of Glycosylation; Nano-technology and cancer therapy

Education:
B.Sc. (Chemistry), M.Sc. (Biochemistry), Ph.D. (Biochemistry) – University of Calcutta, Calcutta, India

Postdoctoral Training:
Department of Biological Chemistry, School of Medicine, University of Maryland, Baltimore, MD
Laboratory of Experimental Pathology, NIADDKD, National Institutes of Health, Bethesda, MD
Laboratory of Cell Biology & Genetics, NIADDKD, National Institutes of Health, Bethesda, MD

Positions Held:
Present Professor, Department of Biochemistry, School of Medicine, University Puerto Rico, San Juan, PR.
Associate Professor, Department of Biochemistry, School of Medicine, University of Puerto Rico, San Juan, PR.
Biochemist, Clinical Investigation and Patient Care Branch, National Institute of Dental Research, NIH, Bethesda, MD.

Honors and Awards:
Organizer:22nd Annual Meeting of the Society for Complex Carbohydrates, San Juan, PR
Visiting Professor Center for Cancer Research, Massachusetts Institute of Technology, Cambridge, MA
Visiting Professor: Center for Hygiene and Medical Microbiology, Phillips University, Marburg, Germany
Member, Board of Directors: Society for Glycobiology, USA
Visiting Scientist: Physical Biosciences Division, Earnest Orlando Lawrence Berkeley National Laboratory, Berkeley, CA
Member, Editorial Board: Puerto Rico Health Sciences Journal
Fellow:American Association for the Advancement of Science
Organizer:20th International Symposium on Glycoconjugates, San Juan, PR
Hind Rattan Award
Member, Editorial Board:Cellular & Molecular Biology Letters, Poland.

Global Achiever Award (Mahatma Gandhi Pravasi Samman).
Reviewer: Federal and non-federal grants, manuscripts, graduate student fellowship application (federal)

Patents:

Isolation and Culture of Adrenal Medullary Endothelial Cells Producing Blood Clotting Factor VIII:C.
Methods for Inhibiting Angiogenesis.
Anti-angiogenic Therapeutics Efficacy Enhanced by nanoformulation.

Publications:

Banerjee, A., Longas, M.O., Martinez, J.A., Zhang, Z., Santiago, J., Baksi, K. and Banerjee, D.K. (2015): N-Acetylglucosaminyl 1-Phosphate Transferase: An Excellent Target for Developing New Generation Breast Cancer Therapeutic. Adv Exp Med Biol. **842**, 355-374. PubMed PMID: 25408354; PubMed Central PMCID: PMC4603827

Banerjee, A., Johnson, K.T., Banerjee, I.A. and Banerjee, D.K. (2013): Nanoformulation enhances anti-angiogenic efficacy of tunicamycin. Translational Cancer Research. **2**, 240-255.

Longas, M.O., Kotapati, A., Prasad, K.P., Banerjee, A., Santiago, J., Baksi, K. and Banerjee, D.K. (2012) Balancing life with glycoconjugates: monitoring unfolded protein response-mediated anti-angiogenic action of tunicamycin by Raman Spectroscopy. Pure Appl Chem. **84**,1907-1918. PubMed PMID: 22936838; PubMed Central PMCID: PMC3428797

Banerjee, D.K. (2012): N-Glycans in Cell Survival and Death:Cross-talk Between Glycosyltarnsferases. Biochim. Biophys. Acta **1820**, 1338–1346.

Banerjee, A., Lang, J.Y., Hung, M.C., Sengupta, K., Banerjee, S.K., Baksi, K. and Banerjee, D.K. (2011) Unfolded protein response is required in nu/nu mice microvasculature for treating breast tumor with tunicamycin. J Biol Chem. **286**, 29127-29138. PubMed PMID: 21676868; PubMed Central PMCID: PMC3190720.

Zhang, Z., Banerjee, A., Baksi, K. and Banerjee, D.K. (2010) Mannosylphosphodolichol synthase overexpression supports angiogenesis. Biocatal Biotransformation **28**, 90-98. PubMed PMID: 20640223; PubMed Central PMCID: PMC2903885.

Baksi, K., Zhang, Z., Banerjee, A. and Banerjee, D.K. (2009) Cloning and expression of mannosylphospho dolichol synthase from bovine adrenal medullary capillary endothelial cells. Glycoconj J. **26**, 635-45. PubMed PMID: 19214747; PubMed Central PMCID: PMC4608381.

For a complete list visit: http://www.ncbi.nlm.nih.gov/myncbi/dipak k.banerjee.1/bibliography/42425521/public/?sort=date&direction=ascending