Curriculum Vitae

Aditi Banerjee, Ph.D.
Associate Professor, Department of Pediatrics
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Date

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Contact Information

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Foreign Languages: Bengali, Hindi

Education

1987	B.Sc., Zoology (Honors). University of Calcutta, India
1990	M.Sc., Zoology, Kalyani University, Kalyani, India
1991	B.Ed., Vidyasagar University
1996	Ph.D., Zoology., Kalyani University, India, Thesis Advisor- Durgaprasad Haldar, Ph. D.

Post Graduate Education and Training

1997-1999	Senior Research Fellow, Indian Research Institute for Integrated Medicine, Howrah, India
2000-2003	Research Associate, Indian Institute of Chemical Biology, Kolkata, India
2004-2006	Research Associate, Indian Institute of Chemical Biology, Kolkata, India
2006-2011	Post-Doctoral Fellow, University of Puerto Rico, School of Medicine, Puerto Rico, San Juan, USA.
2011-2014	Post-Doctoral Fellow, University of Maryland School of Medicine.

Certifications

1989	Diplomat, Medical Laboratory Technology, Jadavpur University, Kolkata, India

Employment History

Academic Appointments

2014 – 2016	Research Associate, Department of Pediatrics, University of Maryland School of Medicine

2016- Present	Assistant Professor, Department of Pediatrics, University of Maryland, School of Medicine
2017-Present	Associate Member, Molecular and Structural Biology Program, University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center Baltimore, MD

Professional Membership

2013-Present	Early Career, American Society for Biochemistry & Molecular Biology (ASBMB)
2022-Present	Regular Member, The American Society for Cell Biology (ASCB)

Honors and Awards

2008	Travel Award, ASBMB
2008	Cover page, Arthritis Rheumatism Journal, 2008 Mar;58(3):696-706.
2010	Travel Award, ASBMB
2019	Session Chair, IV International Conference on Cancer Research and Drug Development. Baltimore, Maryland, USA
2021	Judge, "Virtual" Annual Tri-County Science and Technology Fair, New York, USA.
2021	Advisory Board Member of the Journal Cellular and Molecular Life Sciences. (Invited)
2021	Invited Early Career Speaker, "*Andrographolide, Melatonin, and Colorectal Cancer: Where are we now*?", Department of Pediatrics Virtual Research Day & J. Tyson Tildon Award Presentation.
2022	Judge, "Virtual" Annual Tri-County Science and Technology Fair, New York, USA.
2022	Best poster award, Pediatrics Research Day. "*Hypothermia increases RBM3 and RTN3 expression in the neonatal brain after hypoxia ischemia*".

Administrative Service

Institutional Service

2010	Evaluator, Poster section, Foro Annual Meeting, University of Puerto Rico, Puerto Rico
2016	Judge, Pre-doctoral Students Poster session, Seventh Annual Cancer Biology, Research Retreat, UMSOM
2016-Present	Judge, Annual Medical Student Research Day Celebration, UMSOM
2017-Present	Reads for Peds" holiday book drive, Department of Pediatrics, UMSOM
2018	Poster Judge, Ninth Annual Cancer Biology Research Retreat, UMSOM
2019-Present	Interviewer, Medical Student Admissions Committee
2021-Present	Scholarly Activity Proposal Review Committee, UMSOM
2021-Present	Faculty Development Steering Committee, Subcommittee: Mentoring, and Mentor credit, Department of Pediatrics, UMSOM.
2022-Present	Research Committee, Department of Pediatrics, UMSOM.

Local, National, and International Service
National Service

2013	Ad Hoc Reviewer, *Current Drug Targets (1x/yr),*
	Developmental and Comparative Immunology (1x/yr),
	Evidence-Based Complementary and Alternative Medicine (1x/yr)
2014-Present	*Glycobiology Insights (1x/yr),*
	Glycoconjugate Journal (1x/yr),
	Journal of Pineal Research (1x/yr)
2015-Present	*Journal of Immunology Research* (1x/yr),
	Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders (1x/yr),
	Clinical Medicine Insights: Oncology (1x/yr)
2016-Present	*Oncogenesis (1x/yr),*
	Oncotarget (3x/yr),
	BMC Cancer (1x/yr),
	Plos One (1x/yr),
	Biochemistry and Biophysics Reports (*1x/yr*),
	Molecules (1x/yr)
2017	*Cancer Growth and Metastasis (1x/yr)*
	Cellular Physiology and Biochemistry(1x/yr)
	Cell Death and Disease (1x/yr)
	Medicinal Chemistry (1x/yr)
	Nutrients (1x/yr)
	Scientific Reports (1x/yr)
2018-Present	*Biomedicine and Pharmacotherapy (1x/yr),*
	Experimental and Therapeutic Medicine (1x/yr)
	Cancers (1x/yr)
	Cells (1x/yr)
	Oncology Letters (2x/yr)
	Cancer Research Frontiers (1x/yr)
	Molecular Medicine Reports (1x/yr)
	BMC Complementary and Alternative Medicine (1x/yr)
	International Journal of Molecular Sciences (1x/yr).
2019	*Biomolecules (1x/yr),*
	Onco Targets and Therapy (1x/yr),
	Frontiers Immunology (1x/yr),
	Oncology Reports (1x/yr),
	Translational Cancer Research (1x/yr),
	Current Stem Cell Research and Therapy (1x/yr),
	Current Pharmaceuticals Pharmacology (1x/yr),
	Antioxidants (1x/yr),
	Oncology Letters (1x/yr),
	Cancer Management and Research (1x/yr),
	Molecular Biology Reports (1x/yr),
	Journal of Gastrointestinal Oncology (1x/yr),
	Biomedicines (1x/yr),
	Journal of Biochemical and Molecular Toxicology (1x/yr),
	Journal of Pharmacy and Pharmacology (1x/yr)
2020	*Artificial Cells Nanomedicine and Biotechnology (1x/yr),*
	Life Sciences (3x/yr),
	Applied Science (1x/yr),

	Journal of Child Science (1x/yr), *Journal of Pediatric Intensive care (1x/yr),* *Methods and Protocol (1x/yr),* *British Journal of Cancer (1x/yr),* *Cellular and Molecular Life Sciences (2x/yr),* *Journal of Biochemical and Molecular Toxicology (1x/yr),* *Hematology and Transfusion (1x/yr),* *Frontiers Pharmacology (1x/yr),* *Clinical Cancer Research (1x/yr),* *Rapid Reviews: COVID-19 (1x/yr),* *Cytotechnology (1x/yr),* *OBM Integrative and Complementary Medicine (1x/yr),* *Biochemical Genetics (1x/yr)*
2021	*Frontiers in Oncology (1x/yr),* *Cellular and Molecular Biology Letters(1x/yr),* *Bioengineered (1x/yr),* *Future Medicinal Chemistry (1x/yr),* *Public Health (1x/yr),* *Cell Cycle (1x/yr).* *Oxidative Medicine and Cellular Longivity (1x/yr),* *World Journal of Gastroenterology (2x/yr),* *World Journal of Hepatology (2x/yr),* *Aging (1x/yr),* *Stem Cells and Development (1x/yr),* *World Journal of Surgical Oncology(1x/yr),* *Clinical and Translational Medicine (1x/yr)*
2022	*Cytokines* (*1x/yr*), *Symbiosis* (*1x/yr*) *Phytomedicines (1x/yr).*

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International Service

2014-2015	Lead Guest Editor, Clinical Medicine Insights Oncology: SAGE Journal (ISSN: 1179-5549). As a lead guest editor, my role was to recruit 5-co-topic editors helping me to collect articles. In addition, I collected articles and send to the Editor.
2021-Present	Topic Editor: Frontiers in Pharmacology (ISSN: 1663-9812).
2021-Present	Associate Editor, Frontiers in Oncology (ISSN: 2234-943X).
2022-Present	Topic Editor: Frontiers in Oncology (ISSN:2234-943X)
2017	Review of Research Grant of the International Cooperation Program of the Chilean National Commission for Scientific and Technological Research (CONICYT).
2020	Review of the Research Grant of UK Research and Innovation (UKRI) COVID-19 R&I Rolling Call Proposal.

Teaching Service

Undergraduate Student Mentoring

1993-2000	Lecturer, Ranaghat College (Govt. sponsored undergraduate College), Ranaghat, India
02/16- 12/19	Research Training, Vivekjyoti Banerjee (16 hours/week) ***Focus****:* Cancer biology; *Outcomes:* International peer-review articles- 4 (#20, 22, 23, 26), Abstract-1 (#47)
05/18- 07/18	Research Training, (20 hours/week) Alicia Mitchell ***Focus****:* Cancer biology
06/18-08/18	Research Training, Krishnapriya Koindala, (20 hours/week) ***Focus****:* Cancer biology, *Outcome:* abstract-1 (#49)
06/18- present	Research Training, (16 hours/week) Neha Sharda ***Focus****:* Cancer biology, *Outcomes:* International peer-review articles- 3 (#20, 22, 23, 26, 32), Book chapter-1 (#3); Presenter- 4th International Conference on Cancer Research and Drug Development, Baltimore, USA, 2019 (abstract#49), and Pediatrics Research Day; UMB (2020).
06/18-12/19	Research Training, (20 hours/week) Dennis Morozov ***Focus****:* Cancer biology; *Outcomes:* International peer-review article- 1 (#23),
2019-present	Research Training (20 hours/week), Damandeep Singh ***Focus****:* Cancer biology; *Outcomes:* International peer-review articles- 1 (#26, 32), Presenter- UMB Pediatrics Research Day (2022).
2019-2021	Research Training, (20 hours/week) Daniil Sokolov ***Focus****:* Cancer biology, *Outcomes:* International peer-review articles- 1 (#26, 32), Presenter- UMB Pediatrics Research Day (2020 and 2021).
2020-present	Research Training (10 hours/week) Charity Lohr ***Focus****:* Cancer biology and molecular mechanisms of neuroprotection, *Outcomes:* International peer-review article (#32), Presenter- UMB Pediatrics Research Day (2021).
2022-present	Research Training (20 hours/week) Keyvonia Dudley ***Focus:*** Learning the laboratory technique: western blot. *Outcomes:* Presenter- BIO 199 (Baltimore Community College presentation day (2022).
2022-present	Research Training (32 hours/week) Natalie May ***Focus:*** Learning the laboratory technique: western blot, and cell culture *Outcomes:* Natalie has started her summer training.

Graduate Student Mentoring

03/18-12/19	Fahad Mubariz, Cellular & Molecular Biomedical Science MS Program, UMB, 15-20 hours/week for 1 year. ***Focus****:* Signaling mechanism for cancer cells death; *Outcomes:* International peer-review articles- 1 (#23); abstract-1 (#49).
03/18-12/19	Sonia A. Garcia, Cellular & Molecular Biomedical Science MS Program, UMB, 15-20 hours/week for 1 year. ***Focus****:* Therapeutic efficacy of patient-derived colon organoid cell death; *Outcomes:* International peer-review articles- 1 (#29).
06/18- 12/20	Jared Huse, Cellular & Molecular Biomedical Science MS Program, UMB,

15-20 hours/week for 1 year.
***Focus**:* Molecular mechanisms of colon cancer cells and colon cancer stem cells death; *Outcomes:* International peer-review articles- 1 (#26); abstract-1 (#49); Book chapter-1 (#3).

2021-present Mentor, Agnieszka Tarasiewicz, Cellular & Molecular Biomedical Science MS Program, UMB, 24 hours/week for 2 months.
***Focus**:* Therapeutic efficacy of colon cancer stem cells and its molecular mechanisms. *Outcomes:* International peer-review article (#32), Presenter- UMB Pediatrics Research Day (2021).

Graduate Student Teaching

2021 Small group preceptor, Advanced Molecular Biology (GPLS 701) 13 students. 4 hours/year

2021 Small group preceptor, GPLS 601 Core Course; 7 students, 4 contact hours/year

2022 Small group preceptor, Ethics course; 11 students, 1.30 hours/year.

Graduate Thesis Committee Member

2019 Member, Exam Committee of Master Thesis, Linda Njonkou Tchoquessi, Mentor- Cynthia Bearer, MD. Program: Cellular & Molecular Biomedical Science (CMBS)-MS/MED-MS

2019 Member, Ph. D Thesis Committee, Diane Terry, Mentor- Scott Devine, Ph.D. GPILS Molecular Medicine Program Qualifying Examination Committee

2022 Member, Exam Committee of Master Thesis, Agnieszka Tarasiewicz. Mentor Alexandre E. Medina de Jesus, D.Sc. Program: Cellular & Molecular Biomedical Science (CMBS)-MS/MED-MS

2022 Member, Ph. D Thesis Committee, Sonia A. Garcia, Mentor- Motomi Enomoto-Iwamoto, Program: Molecular Medicine, Cancer Biology.

Medical Student Teaching

2009-2010 Small Group Discussion Leader, Immunology, Cancer, Physiology, 1st Year Medical Students (University of Puerto Rico); 15 students- 5 contact hours/year

Resident and Fellow Teaching

2016-2017 Peds GI Practice, UMSOM, 1 Resident Fellow, Douglas Zabrowski, 6 contact hours/week for 6 months.

2016-2018 Visiting Gastrointestinal Fellow, Department of Pediatrics, University of Maryland School of Medicine, Tamaki Ikuse, 40 hours/week.
***Focus**:* Cancer Biology. *Outcomes:* International peer-review articles- 1 (#29).

Grant Support

Active Grants:

4/1/2021-3/31/23 (Co-Inv 30%) PI: J. Waddell.

"*Facilitating extinction of fear with psilocybin: Model development of biomarkers and mechanisms"* Mydecines Innovation Group
Total Direct and Indirect Costs: $539,579
As Co-I, I am a key part of a multidisciplinary grant and provide essential expertise in molecular biology and biochemistry to the project. I am responsible for training the PI's lab personnel to perform key assays including protein-to-protein interaction, oxidative stress, RNA extraction, purification, and quantification for analysis.

6/1/2021-5/31/2022 PI; Co-PI: J. Waddell.
"Endoplasmic reticulum mediated neuroprotection in neonatal hypoxia ischemia" Department of Pediatrics Richard Schwartz award
Annual Direct costs: $25,000

6/14/2021-6/13/2022 PI
"Toxicity and efficacy of novel RIO-kinase inhibitor (KPTH01) on colon cancer" UMB Institute for Clinical and Translational Research (ICTR) voucher Grant
Annual Direct Costs: $5,000

5/1/2022-4/30/3023 Co-PI; PI: J. Waddell.
"Mechanisms and biomarkers of therapeutic hypothermia in neonatal hypoxia ischemia" UMB Institute for Clinical & Translational Research (ICTR)/ Clinical Translational Science Award (CTSA)
Annual Direct Costs: $34,667
As a Co-PI, I have a key role in this multidisciplinary grant and will provide molecular biology expertise to determine the molecular mechanisms of hypothermia in stress-induced neonatal brain injury.

Completed Grant:

2020-2021 (Co-PI 25%) PIs: P. Purushottomachar, N. Laronde.
"*Synthesis, biochemical characterization, and pre-clinical evaluation of novel anti-colorectal cancer agents targeting RIOK1*". Institute for Bioscience and Biotechnology Research (IBBR) seed Grant, UMB
Annual Direct costs: $35,000
As a Co-PI, I performed the essential roles of determining efficacy and molecular mechanisms of a series of novel RIOK1 inhibitors on metastatic colon cancer cells, and colon cancer stem cells. Assisted all *in vitro* studies, data analysis and prepared manuscripts for publications. The data generated from this study were presented in the Pediatrics Research Day Early Stage Faculty Seminar (2021).

Patents, Innovations and Copyrights:

11/04/2021 International Publication No. (WO 2021/222700A1);
International Application No. PCT/US2021/030084
"Compositions and Methods for Treating Cancer with Andrographolide and Melatonin Combination Therapy"

Publications:

Peer-reviewed journal articles (*equal contribution; #corresponding author)

1. Swarnakar S, Ganguly K, Kundu P, **Banerjee A**, Maity P and Sharma AV. Curcumin regulates expression and activity of matrix metalloproteinases-9 and -2 during prevention and healing of indomethacin-induced gastric ulcer. The Journal of Biological Chemistry 2005 Mar;280: 9409-9415. *(performed biochemical and histological experiments including statistical analyses).*
2. Ganguly K, Kundu P, **Banerjee A**, Reiter RJ, Swarnakar S. Hydrogen peroxide –mediated downregulation of matrix metalloprotease-2 in indomethacin- induced gastric ulceration is blocked by melatonin and other antioxidants. Free Radical Biology Medicine 2006 Sep;41:911-925 *(determined biochemical, histological experiments and provided statistical analyses).*
3. Kundu P, Mukhopadhya A, Patra R, **Banerjee A**, Berg D, Swarnakar S. Cag pathogenicity island independent upregulation of matrix metalloproteinases -9 and -2 secretion and expression in mice by *Helicobacter pylori* infection. The Journal of Biological Chemistry 2006 Nov;281:34651-34662 (*data generated for biochemical, and histological experiment,, ans statistical analyses)*.
4. Majumdar KN*, **Banerjee A***, Ratha J, Mandal M, Sarkar RN, Das Saha K (*equal contribution). Leishmanial lipid suppresses tumor necrosis factor alpha, interleukin-1 beta and nitric oxide production by adherent synovial fluid mononuclear cells in rheumatoid arthritis patients and induces apoptosis through the mitochondrial-mediated pathway. Arthritis Rheumatism 2008 Mar;58:696-706 *(data acquisition)*.
5. Bakshi K, Zhang Z, **Banerjee A**, Banerjee DK. Cloning and Expression of Mannosylphospho Dolichol Synthase from bovine adrenal medullary capillary endothelial cells. Glycoconjugate Journal 2009 Aug;26:635-645 *(involved in data generation, and analyses).*
6. Zhang Z, **Banerjee A**, Baksi K, Banerjee DK. Mannosylphospho dolichol synthase overexpression supports angiogenesis. Biocatalysis and Biotransformation 2010 Jan;28:90-98 *(performed data acquisition, analyses, and written part of the manuscript)*.
7. **Banerjee A***, Lang JU, Hung MC, Sengupta K, Banerjee SK, Baksi K, Banerjee DK. Unfolded protein response is required in Nu/Nu mice microvasculature for treating breast tumor with tunicamycin. The Journal of Biological Chemistry 2011 Aug;286:29127-29138 *(performed data generation, provided statistical interpretation, prepared first draft of the manuscript).*
8. Longas MO*****, Kotapati A, Prasad KPVRK, **Banerjee A***, Santiago J, Baksi K, Banerjee DK (*equal contribution). Balancing life with glycoconjugates: monitoring unfolded protein response-mediated anti angiogenic action of tunicamycin by Raman Spectroscopy. Pure and Applied Chemistry 2012 Jan;1:1907-1918. (*performed in vitro assays, statistical interpretation).*
9. Vasta GR, Ahmed H, Nita-Lazar M, **Banerjee A**, Pasek M, Shridhar S, Guha P, Fernández-Robledo JA. Galectins as self/non-self-recognition receptors in innate and adaptive immunity: an unresolved paradox. Frontier Immunology 2012 Jul;3:199 *(reviewed and edited the article).*
10. **Banerjee A***, Karen T. Johnson and Dipak K. Banerjee. Nanoformulation enhances anti-angiogenic efficacy of tunicamycin. Translational Cancer Research 2013 Aug;2:240-255 *(performed data acquisition, interpretation, and statistical analyses).*
11. Feng C, Ghosh A, Amin MN, Giomarelli B, Shridhar S, **Banerjee A**, Fernández-Robledo JA, Bianchet MA, Wang LX, Wilson IBH, and Vasta GR. The galectin CvGal1 from the eastern oyster (*Crassostrea virginica*) binds to blood group oligosaccharides on the hemocyte surface. The Journal of Biological Chemistry 2013 Aug;288:24394-24409 *(performed data acquisition, interpretation and statistical analyses).*

12. Helen Wang, Wei Huang, Jared Orwenyo, **Banerjee A**, Gerardo R. Vasta, Lai-Xi Wang. Design and synthesis of glycoprotein-based multivalent glyco-ligands for influenza hemagglutinin and human galectin-3. Bioorganic and Medicinal Chemistry 2013 Apr; 21:2037-2044 *(performed data acquisition, interpretation).*
13. Zawahir S, Li G, **Banerjee A**, Shiu J, Blanchard TG, Okogbule-Wonodi AC. Inflammatory and immune activation in intestinal myofibroblasts is developmentally regulated. Journal of Interferon Cytokine Research 2015 Aug;35(8): 634-640 *(performed data acquisition, interpretation, statistical analyses and written part of the manuscript).*
14. Lazar MN*, **Banerjee A***, Feng C, Amin MN, Frieman MB, Chen WH, Cross AS, Wang LX, Vasta GR (*equal contribution). Desialylation of airway epithelial cells during influenza virus infection enhances pneumococcal adhesion via galectin binding. Molecular Immunology 2015 May;65(1): 1-16 *(performed data acquisition, interpretation).*
15. Feng C, Ghosh A, Amin MN, Bachvaroff T, Tasumi S, Pasek M, **Banerjee A**, Shridhar S, Wang LX, Bianchet MA, Vasta GR. *Galectin CvGal2* from the Eastern Oyster *(Crassostrea virginica*) displays unique specificity for ABH Blood group oligosaccharides and differentially recognizes sympatric perkinsus species. Biochemistry 2015 Aug;54(30): 4711-4730 *(performed data acquisition, interpretation and statistical analyses).*
16. Shiu J, Piazuelo MB, Ding H, Czinn SJ, Drakes ML, **Banerjee A**, Basappa N, Kobayashi KS, Fricke WF, Blanchard TG. Gastric LTi cells promote lymphoid follicle formation but are limited by IRAK-M and do not alter microbial growth. Mucosal Immunology, 2015 Sep;8(5):1047-1059 *(performed data acquisition, interpretation, written part of the manuscript).*
17. Lazar MN*, **Banerjee A***, Feng C and Vasta GR (*equal contribution). Galectins regulate the inflammatory response in airway epithelial cells by modulating the expression of SOCS1 and RIG1. Molecular Immunology 2015 Dec; 68(2 PtA):194-202 *(performed data acquisition, interpretation, statistical analyses and written part of the first draft).*
18. **Banerjee A***, Basu M, Blanchard TG, Chintalacharuvu SR, Guang W, Lillehoj EP, Czinn SJ. Early molecular events in murine gastric epithelial cells mediated by *Helicobacter pylori CagA.* Helicobacter 2016 Oct;21(5):395-404 *(performed data acquisition, interpretation, statistical analyses and written part of the manuscript).*
19. **Banerjee A#**, Ahmed H, Yang P, Czinn SJ, Blanchard TG. Endoplasmic reticulum stress and IRE-1 signaling cause apoptosis in colon cancer cells in response to andrographolide treatment. Oncotarget 2016 Jul;7(27):41432-41444 (*study design, acquisition of data, analysis and interpretation of data, manuscript preparation and statistical analyses)*.
20. **Banerjee A#**, Banerjee V, Czinn SJ, Blanchard TG. Increased reactive oxygen species levels cause ER stress and cytotoxicity in andrographolide treated colon cancer cells. Oncotarget 2017; Apr;8(16):26142-26153 (*study design, acquisition of data, analysis and interpretation of data, manuscript preparation and statistical analyses)*.
21. Serrano-Negrón JE, Zhang Z, Rivera-Ruiz AP, **Banerjee A**, Romero-Nutz EC, Sánchez-Torres N, Baksi K, Banerjee DK. Tunicamycin-induced ER stress in breast cancer cells neither expresses GRP78 on the surface nor secretes it into the media. Glycobiology 2018 Feb;28(2)61-68 (*provided acquisition of data, analysis and interpretation of data, and statistical analyses).*
22. Blanchard T, Lapidus R, Banerjee V, Bafford AC, Czinn SJ, Ahmed H, **Banerjee A#**. Upregulation of RASSF1A in colon cancer by suppression of angiogenesis signaling and Akt activation. Cellular Physiology and Biochemistry 2018 Jul;48(3):1259-1273 (*study design, acquisition of data, analysis and interpretation of data, manuscript preparation and statistical analyses).*
23. Blanchard TG, Czinn SJ, Banerjee V, Sharda N, Bafford AC, Mubariz F, Morozov D, Passaniti A, Ahmed H, **Banerjee A#.** Identification of cross talk between FoxM1 and RASSF1A as a therapeutic target of colon Cancer. Cancers (Basel). 201; Feb;11(2)1-14 (*conceived and design of the experiments, acquisition of data, analysis and interpretation of*

data, manuscript preparation and statistical analyses).

24. Ghosh A, **Banerjee A**, Amzel LM, Vasta GR, Bianchet MA. Structure of the zebrafish galectin-1-L2 and model of its interaction with the infectious hematopoietic necrosis virus (IHNV) envelope glycoprotein. Glycobiology 2019 May;29(5):419-430 *(provided part of data acquisition, interpretation, reviewed the draft of the manuscript).*
25. **Banerjee A#**, Czinn SJ, Reiter RJ, Blanchard TG. Crosstalk between endoplasmic reticulum stress and anti-viral activities: A novel therapeutic target for COVID-19. Life Sci 2020 Aug 15;255:117842 (*idea generated, graphic design of the figure, prepared the first draft).*
26. Banerjee V, Sharda N, Huse J, Singh D, Sokolov D, Czinn SJ, Blanchard TG, **Banerjee A#.** Synergistic potential of dual andrographolide and melatonin targeting of metastatic colon cancer cells: using the Chou-Talalay combination index method. European Journal of Pharmacology. 2021 Apr;897:173919 (*study design, technical support, analyses and interpretation of data, manuscript preparation).*
27. Giri B, Seamon M, **Banerjee A**, Chauhan S, Purohit S, Morgan J, Baban B, Wakade C. 2021. Emerging Urinary Alpha-synuclein and miRNA biomarkers in Parkinson's disease. Metabolic Brain Disease. 2021 Apr (*reviewed, edited, and illustrated the graphic design).*
28. Guha R, Yue B, Dong J, **Banerjee A**, Serrero G. Anti-progranulin/GP88 antibody AG01 inhibits triple negative breast cancer cell proliferation and migration. Breast Cancer Research and Treatment. 2021 Apr;186(3):637-653 *(provided material and technical support).*
29. Sharda N, Ikuse T, Hill E, Garcia S, Czinn SJ, Bafford A, Blanchard TG, **Banerjee A#**. Impact of Andrographolide and Melatonin combinatorial drug therapy on metastatic colon cancer cells and organoids. Clinical Medicine Insights: Oncology. 2021 15:11795549211012672 *(study design, technical support, interpretation of data, manuscript preparation).*
30. Waddell J, **Banerjee A,** Kristian T. Acetylation in Mitochondria dynamics and neurodegeneration. Cells. 2021 Nov;10(11) *(reviewed and edited the manuscript).*
31. Morningstar-Wright L, Czinn SJ, Piazuelo MB, **Banerjee A**, Godlewska R, Blanchard T. The TNF-alpha inducing protein is associated with gastric inflammation and hyperplasia in a murine model of *Helicobacter pylori* infection. Frontiers in Pharmacology 2022 Feb;13:817237 *(acquisition data, analysis, interpretation of data, and statistical analyses).*
32. Sokolov, D., Sharda, N., Giri, B., Hassan, MS., Singh, D., Tarasiewicz, A., Lohr, C., Holzen, UV., Kristian, T., Waddell, J., Reiter, RJ., Ahmed, H., **Banerjee, A.** Melatonin and Andrographolide synergizes colospheroids phenotype inhibition targeting Wnt/beta-catenin signals. Journal of Pineal Research 2022 May 26 10.1111/jpi.12808. Online ahead of Print. (*study design, technical support, analyses and interpretation of data, manuscript preparation).*

Book Chapters

1. Banerjee DK, Oliveira CM, Tavárez JJ, Katiyar VN, Saha S, Martínez JA, **Banerjee A,** et al: Importance of a factor VIIIc-like glycoprotein expressed in capillary endothelial cells (eFactor VIIIc) in angiogenesis. The Molecular Immunology of Complex Carbohydrates-3. Advances in Experimental Medicine and Biology. Vol 705:453-464. Edited by Albert M. Wu, Springer, Boston, MA. 2011.
2. **Banerjee A**, Martínez JA, Longas MO, et al: N-acetylglucosaminyl 1- Phosphate transferase: An excellent target for developing new generation breast cancer therapeutic. Advances in Experimental Medicine and Biology. Biochemical Roles of Eukaryotic Cell Surface Macromolecules. Vol 842:355-374. Edited by Chakrabarti A and Surolia A. Springer International Publishers, Switzerland, 2015.
3. **Banerjee A**, Sharda N, Huse J, et al. Andrographolide: from bench to bedside in colorectal cancer. Biological Sciences: Impacts on Modern Civilization, Current and future Challenges. Pages:1-10. Edited by Anupam Guha New Delhi Publishers, New Delhi, India, 2020.

Abstracts and/or Proceedings

1. **Banerjee A,** Trujillo U, Banerjee DK. Tunicamycin-induced *unfolded protein response* arrests capillary endothelial cells in G1. Experimental Biology (late breaking), Washington DC, 2007
2. **Banerjee A,** Trujillo U, Martinez JA, Banerjee DK. ER Stress arrests capillary endothelial cells in G1. The FASEB Journal 21 (6), LB33-LB33, 2007
3. Banerjee DK, **Banerjee A,** Martinez JA, Baksi K, Multani A, Pathak S. Significance of protein N-glycosylation in angiogenesis. 8th International Symposium on Eukaryotic Cell Surface Macromolecules, Hyderabad, India, 2008
4. Banerjee DK, Martinez JA, **Banerjee A,** Baksi K. Down-regulation of mannosylphospho dolichol synthase (DPMS) in tunicamycin treated capillary endothelial cells. The FASEB Journal 22, 809.3-809.3, 2008
5. **Banerjee A,** Baksi K, Burgos M, Banerjee DK. Anti-angiogenic potential of tunicamycin is *not* reversible by vascular endothelial growth factor VEGF165. The FASEB Journal 22, 809.2-809.2, 2008
6. **Banerjee A,** Baksi K, Banerjee DK. Tunicamycin inhibits VEGF-induced vessel sprouting in Matrigel™ Plug. Cancer Research 68 (9 Supplement), 377-377, 2008
7. **Banerjee A**, Baksi K, Cress WD, Hung MC, Banerjee DK. Anti-angiogenic glycotherapeutic (tunicamycin) survives tumor microenvironment. 9th International Meeting on "Angiogenesis: Basic Science and Clinical Developments", Patras, Greece, June 22-26, 2008.
8. Baksi K, Saha S, Martínez JA, **Banerjee A**, Banerjee DK. Significance of eFactor VIIIc in angiogenesis. The FASEB Journal 23, 693.11-693.11, 2009.
9. **Banerjee A**, Miller M, Baksi K, Banerjee DK. Dolichol-linked oligosaccharide synthesis inhibitor reduces the survival potential of capillary endothelial cells. The FASEB Journal 23, 693.9-693.9, 2009
10. **Banerjee A**, Lang JY, Hung MC, Chakraborty K, Banerjee S, Baksi K, Banerjee DK. Tunicamycin inhibits angiogenesis and reduces breast tumor growth in nude mice. Cancer Research 69 (9 Supplement), 126-126, 2009
11. Longas MO, Kotapati K **Banerjee A**, Banerjee DK. Monitoring anti- angiogenic action of tunicamycin by Raman Spectroscopy. Glycoconjugate J 26 (7), 69-69, 2009.
12. Johnson KT, Gonzalez ML, Fuentes J, Ayala N, **Banerjee A**, Santiago J, Hernandez CJ, Banerjee IA, Banerjee DK. Conjugated tunicamycin nanoparticles and nanotubes for breast cancer therapy. Glycoconjugate J 26 (7), 152-152, 2009
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50. Mikio Hayashi, Sheikh Irshad Ali, **Banerjee A**, Subhash Verma, Normand Leblanc, Nadia Ameen, Caroline J Zeiss, Kazi Mirajul Hoque. Elevated 50hydroxytryptamine in COVID-19 stimulates ANO1 mediated CI secretion in lung and Intestinal epithelial cells. Experimental Biology, Philadelphia, Pennsylvania, USA, 2019.

Other Brief Communications

Commentary (Invited)

1. **Banerjee A.** Organoid culture and its importance. Gastroenterology & Hepatology International Journal**. 2017:**2 (2):000122
2. Guha R, Wadell J, **Banerjee A.** Commentary on: Preclinical platforms to study the therapeutic efficacy of human γδ T cells. Clinical and Translational Discovery. (Accepted on May 9, 2022)

Major Invited Speeches

Local

1. **Banerjee, A.,** Andrographolide inhibits angiogenesis and induces tumor suppressor gene RASSF1A expression in colon cancer cells, 2nd International Cancer Study & Therapy Conference, Baltimore, Maryland, February 21, 2017.
2. **Banerjee, A.,** RASSF1A regulation via andrographolide induced anti-angiogenic signal, Head and Neck Cancer Research Meeting, John Hopkins, Baltimore, Maryland, October 5, 2018.
3. **Banerjee, A.,** Inhibition of Angiogenic Signaling Upregulates RAASSF1A expression, Fourth International Conference on Cancer Research and Drug Development Cancer Meeting, Baltimore, Maryland, October 22, 2019.
4. **Banerjee, A.,** The Impact of Combinatorial Drug Therapy on Young-Onset Colon Cancer Models, Department of Pediatrics Grand Round, UMB, May 28, 2020.

National

5. **Banerjee, A.,** Tunicamycin inhibits angiogenesis and breast tumor growth by modulating the cell survival signal XX International Symposium on Glycoconjugates, San Juan, Puerto Rico, USA. 2009.
6. **Banerjee, A.,** A new anti-angiogenic therapeutic for the treatment of breast cancer 30er Foro Anual de Investigación y Educación Salud Integral: Enlazando Ciencia y Sociedad, University of Puerto Rico, PR. 2010.
7. **Banerjee, A.,** Anti-angiogenic glycotherapeutic inhibits triple negative breast cancer 31er Foro Anual de Investigación y Educación Salud Integral: Enlazando Ciencia y Sociedad, University of Puerto Rico, PR. 2011.

International

8. **Banerjee, A.,** Loss of survival potential of capillary endothelial cells due to unfolded protein response" IXth International Symposium on Biochemical Roles of Eukaryotic Cell

Surface Macromolecules (ISCSM), Thiruvananthapuram, Kerala, India. January 11, 2011.

9. **Banerjee, A.,** Breast Cancer: Are we winning the battle? Fakir Chand College, University of Calcutta, India. February 5, 2011.
10. **Banerjee, A.,** Andrographolide: From Bench to Bedside in Colorectal Cancer International Symposium, Tripura, India, September 25, 2020.
11. **Banerjee, A.,** Diagnosis and Treatment regimen for future perspective of metastatic colon cancer 3rd International Saliva Summit of India (SALSI), Bangalore, India. January 29, 2021.
12. **Banerjee, A.,** Could dual natural compound be a clinical target for metastatic colon cancer? REVA Research Conclave 2021. REVA University., Bengaluru, India. December 17, 2021.

Proffered Communications

National

1. **Banerjee, A.** A study of septate gregarines from insect pests of West Bengal. XI National Congress of Parasitology. Rajasthan, India. Poster presentation, 1994
2. **Banerjee, A.,** Bakshi D., Banerjee, A., et al. Clinical Efficacy of Traditional Acupuncture in the Management of Rheumatoid Arthritis (RA). 24th Annual Conference of Indian Immunol Society. Calcutta, India. Poster presentation, 1997
3. **Banerjee, A.,** Basu, K., Basu, S., et al. Some aspects of Synovial Fluid cells in Late onset Rheumatoid Arthritis. International Conference on Geriatrics & Gerontology. New Delhi, India. Oral presentation, 2002
4. **Banerjee, A.,** Basu, K., Basu, S., et al. Growth Regulatory Response of Ceramide to Synovial Cell population in Rheumatoid Arthritis. International Symposium on Molecular Endocrinology and Cellular Signals. New Delhi, India, Poster presentation, 2002
5. **Banerjee, A.,** Das, K., et al. Sphingolipid from *Leishmania donovani* modulate the responses of synovial fluid cells of Rheumatoid Arthritis Patients. 10th Congress of the Federation of Asian and Oceanic Biochemists and Molecular Biologists. India. Poster presentation, 2003
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10. **Banerjee, A.,** Claudio, AO., Hernandez, J. et al. Vascular endothelial growth factor (VEGF165) failed to revert the anti-proliferative action of tunicamycin in capillary endothelial cells. Annual Meeting for Society for Glycobiology, Boston. MA, USA, Poster presentation, 2007

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13. Nita-Lazar, M., Pasek, M., **Banerjee, A.,** et al. Expression and secretion of galectins in the murine lung is modulated during influenza and pneumococcal infection. Annual Conference of The Society for Glycobiology, Seattle, WA, Poster presentation, 2011
14. **Banerjee A,** Baksi K, Banerjee DK. A pyrimidine nucleoside inhibits angiogenesis and reduces breast tumor growth. 30th Annual convention of the Indian Association for Cancer Research, Kolkata, India, Poster Presentation, 2011
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