

RESEARCH AND SCHOLARLY ACTIVITIES

A. Publications:

i. Original Papers in Peer-Reviewed Journals

1. Retland N, Thompson KM, Aubee JL, Apprey V, **Ghosh S**, Copeland R, Kanaan Y, Fang Y, Ramadan A, Brim H, Muneer M. Abbas M.M. **Uncovering genetic variations in HTR2A and miRNAs drivers of breast cancer risk in African American women.** J Breast Cancer Res. 2026;6(1):65-83.
2. SYDNEY I. ALLISON; TANMOY MONDAL; CHRISTOPHER LOFFREDO; RUTH QUARTEY; BRENT KORBA; GAIL NUNLEE-BLAND; SOMIRANJAN GHOSH. **Leptin Pathway Dysregulation in African Americans with Type 2 Diabetes.** <https://doi.org/10.2337/db26-2616-P>.
3. Adeyika TA, Datturgi A, Ettinoffe Y, **Ghosh S**, Albanese C, Kwabi-Addo B. Oncotarget. 2026 Mar Epigenetic dysregulation and biological function of PDX1 in prostate cancer. 31;17(1):157-172. doi: 10.18632/oncotarget.28854. Print 2026 Mar 31. PMID: 41955005.
4. Noreen Z, Mondal T, Johnson J, Sahota J, Loffredo CA, Nunlee-Bland G, Korba B, Bhatti A, Chandra V, **Ghosh S**. Exploring shared molecular pathways and gene signatures in type 2 diabetes mellitus and Alzheimer's disease in a Pakistani cohort. J Alzheimers Dis Rep. 2026 Mar;1;10:25424823251403462. doi: 10.1177/25424823251403462. eCollection 2026 Jan-Dec. PMID: 41929972.
5. Mondal T, Korba BE, Loffredo CA, Smith CI, Quartey R, Sahota J, Moses G, Howell CD, Nunlee-Bland G, Sherif ZA, **Ghosh S**. Transcriptomic Profiling of MicroRNA and Non-Coding RNA from Whole Blood of African Americans with MASLD. Int J Mol Sci. 2026 Feb 9;27(4):1666. doi: 10.3390/ijms27041666. PMID: 41751802.
6. Krauss C, Cuffee J, Banerjee N, Armstrong E, Banerjee S, **Ghosh S**, Mondal T, Abedin Z, Mandal S, Banerjee HN. An Investigation to Identify the Anti-Cancer Properties of Novel Rhenium Compounds in Prostate and Lung Cancer Cell Lines. J Biotechnol Biomed. 2026;9(1):20-27. doi: 10.26502/jbb.2642-91280206. Epub 2026 Feb 4. PMID: 41717271.
7. Lake B, Banerjee A, Cuffee J, Banerjee N, Armstrong E, Banerjee S, Blount C, Hunter C, El-Hashash A, Rawat K, Adedeji D, **Ghosh S**, Mondal T, Abedin Z, Banerjee HN. Differential Molecular Transcriptomics and Underlying Biological Pathways between Smokers Lung Cancer (Small Cell Lung Carcinoma) in Comparison to Healthy Human Lung Cells. Comput Mol Biosci. 2025 Jun;15(2):19-36. doi: 10.4236/cmb.2025.152002. Epub 2025 Jun 26. PMID: 41347211 Free PMC article.
8. Mallick D, Ghosh I, Mondal T, Mondal S, Mukhopadhyay R, Joseph J, **Ghosh S**, Jana SS. Cellular elasticity drives mechano-adaptation against fluid shear stress. J Cell Sci. 2025 Nov

- 1;138(21):jcs264293. doi: 10.1242/jcs.264293. Epub 2025 Nov 14. PMID: 40999998 Free PMC article.
9. Saleem A, Volz A, Mondal T, Loffredo CA, Trnovec T, Murinova LP, Conka K, Drobna B, **Ghosh S**. Exploring the associations between prenatal PCB exposures and gene expression: Observations from a study of newborn Slovak infants. *Ecotoxicol Environ Saf*. 2025 Oct 1;304:119059. doi: 10.1016/j.ecoenv.2025.119059. Epub 2025 Sep 20. PMID: 4097593
10. Genetic Variants Linked to Dyslexia Co-Morbid ADHD: A Case Study of a Pakistani Outpatient. Haider S, Mondal T, Nawaz I, Azam M, **Ghosh S**. *J Popul Ther Clin Pharmacol*. 2024 Sep 2;31(9):2698-2711. doi: 10.53555/rd5d9s46. Epub 2024 Sep 22. PMID: 40926959
11. Epidemiological Investigation on the Clinical Status of the Developmental Dyslexia and ADHD comorbidity among school-age children in Pakistan, Haider S, Mondal T, Loffredo CA, Korba B, Nawaz I, Azam M, Sur T, **Ghosh S**. *Open J Epidemiol*. 2025 Aug;15(3):528-541. doi: 10.4236/ojepi.2025.153033. Epub 2025 Aug 1. PMID: 40855875.
12. Developing Non-Invasive Molecular Markers for Early Risk Assessment of Alzheimer's Disease. Tapas K. Sur, Tanmoy Mondal, Zarish Noreen, Jheannelle Johnson, Gail Nunlee-Bland, Christopher A. Loffredo, Brent E. Korba , Vijay Chandra , Siddhartha S. Jana, Bernard Kwabi-Addo, Sumit Sarkar , **Somiranjan Ghosh**. *Biomarkers in Neuropsychiatry*; Volume 12, June 2025, 100120.
13. GENETIC VARIANTS LINKED TO DYSLEXIA CO-MORBID ADHD: A CASE STUDY OF A PAKISTANI OUTPATIENT. Shujjah Haider, Tanmoy Mondal, Irum Nawaz, Maleeha Azam, **Somiranjan Ghosh**. *J. Population Therap. & Clin.c. Pharmacol.*, 23(9) 2024: 2698-2711.
14. Transcriptomic Analysis of Alzheimer's Disease Pathways in a Pakistani Population. Mondal T, Noreen Z, Loffredo CA, Johnson J, Bhatti A, Nunlee-Bland G, Quartey R, Howell CD, Moses G, Nnanabu T, Cotin ST, Clark M, Chandra V, Jana SS, Kwabi-Addo B, Korba BE, Shahzad S, Bhatti MF, **Ghosh S**. *J Alzheimers Dis Rep*. 2024 Mar 19;8(1):479-493.
15. Mondal T, Smith CI, Loffredo CA, Quartey R, Moses G, Howell CD, Korba B, Kwabi-Addo B, Nunlee-Bland G, R Rucker L, Johnson J, **Ghosh S**. Transcriptomics of MASLD Pathobiology in African American Patients in the Washington DC Area †. *Int J Mol Sci*. 2023 Nov 23;24(23):16654. doi: 10.3390/ijms242316654.
16. Cagle E, Lake B, Banerjee A, Cuffee J, Banerjee N, Gilmartin D, Liverman M, Brown S, Armstrong E, Bhattacharya S, **Ghosh S**, Mandal T, Banerjee H. Analysis of Differential Gene Expression and Core Canonical Pathways Involved in the Epithelial to Mesenchymal Transition of Triple Negative Breast Cancer Cells by Ingenuity Pathway Analysis. *Comput Mol Biosci*. 2023 Jun;13(2):21-34. doi: 10.4236/cmb.2023.132002. Epub 2023 May 19.
17. Creighton CJ, Zhang F, Zhang Y, Castro P, Hu R, Islam M, **Ghosh S**, Ittmann M, Kwabi-Addo B Comparative and integrative analysis of transcriptomic and epigenomic-wide DNA methylation changes in African American prostate cancer. *Epigenetics*. 2023 Dec;18(1):2180585.

18. Moore MM, Ayuk MA, Johnson AA, Sims T, Haamen S, Haidara R, Allen AD, Dickson LA, **Ghosh S**, Gugssa A, Ullah H, Bassey GB, Fernando LM, London LY, Irabor EG, Roy SD, Quagraine BK, Smith M; Howard University SEA-PHAGES Students; Anderson WA, Robinson CJ Complete Genome Sequences of Subcluster C1 Mycobacteriophages Blackbrain, Cactojaque, Kboogie, Trinitium, and YoungMoneyMata. *Microbiol Resour Announc*. 2023 Jun 20;12(6):e0025323. doi: 10.1128/mra.00253-23. Epub 2023 May 31.
19. Mondal T, Loffredo CA, Simhadri J, Nunlee-Bland G, Korba B, Johnson J, Cotin S, Moses G, Quartey R, Howell CD, Noreen Z, Arif M, **Ghosh S**. Insights on the pathogenesis of type 2 diabetes as revealed by signature genomic classifiers in an African American population in the Washington DC area. *Diabetes Metab Res Rev*. 2022 Nov 4:e3589. doi: 10.1002/dmrr.3589. Online ahead of print. PMID: 36331813.
20. Arif M, Mondal T, Majeed A, Loffredo CA, Korba BE, **Ghosh S**. Peroxisome Proliferator-Activated Receptor- α (*PPAR α*) Expression in a Clinical Population of Pakistani Patients with Type 2 Diabetes and Dyslipidemia. *Int J Mol Sci*. 2022 Sep 16;23(18):10847. doi: 10.3390/ijms231810847.
21. London LY, Ayuk MA, Black AC, Cheung L, Robinson DM, Thomas DN, Warner MH, Allen AD, **Ghosh S**, Gugssa A, Ullah H, Bassey GB, Fernando LM, Moore MM, Oliver JJ, Irabor EG, Roy SD, Quagraine BK, Smith M; Howard University SEA-PHAGES Students, Anderson WA, Robinson CJ. Complete Genome Sequences of Mycobacteriophages SynergyX, Abinghost, Bananafish, and Delton. *Microbiol Resour Announc*. 2022 Jul 11:e0028622. doi: 10.1128/mra.00286-22. Online ahead of print.
22. Mondal T, Loffredo CA, Trnovec T, Palkovicova Murinova L, Noreen Z, Nnanabu T, Conka K, Drobna B, **Ghosh S**. Gene expression signatures in PCB-exposed Slovak children in relation to their environmental exposures and socio-physical characteristics. *Environ Sci Pollut Res Int*. 2022 Apr 14. doi: 10.1007/s11356-022-20018-2. Online ahead of print. PMID: 35420343.
23. Krauss C, Aurelus C, Johnston K, Hedley J, Banerjee S, Wisniewski S, Reaves Q, Dia K, Brown S, Bartlet V, Gavin S, Cuffee J, Banerjee N, Rawat K, Mandal S, Abedin Z, **Ghosh S**, Banerjee H. A Study of Differential Gene Expression and Core Canonical Pathways Involved in Rhenium Ligand Treated Epithelial Mesenchymal Transition (EMT) Induced A549 Lung Cancer Cell Lines by INGENUITY Software System. *Comput Mol Biosci*. 2022 Mar;12(1):12-19. doi: 10.4236/cmb.2022.121002. Epub 2022 Mar 7. PMID: 35342659
24. Tailor K, Paul J, **Ghosh S**, Kumari N, Kwabi-Addo B. RASAL2 suppresses the proliferative and invasive ability of PC3 prostate cancer cells. *Oncotarget*. 2021 Dec 21;12(26):2489-2499. doi: 10.18632/oncotarget.28158. eCollection 2021 Dec 21. PMID: 34966481
25. London LY, Ayuk MA, Effiom D, Fashina F, Louis BJ, Tolsma SS, Allen AD, Dickson LA, **Ghosh S**, Gugssa A, Ullah H, Bassey GB, Fernando LM, Moore MM, Oliver JJ, Irabor EG, Roy SD, Quagraine BK, Smith M; Howard University SEA-PHAGES Students,, Anderson WA, Robinson CJ. Complete Genome Sequences of Mycobacteriophages Dallas and Jonghyun. *Microbiol Resour Announc*. 2021 Jul 8;10(27):e0030421. doi: 10.1128/MRA.00304-21. Epub 2021 Jul 8. PMID: 34236221

26. Mondal T, Nautiyal A, **Ghosh S**, Loffredo CA, Mitra D, Saha C, Dey SK. An evaluation of DNA double strand break formation and excreted guanine species post whole body PET/CT procedure. *J Radiat Res.* 2021 Jul 10;62(4):590-599. doi: 10.1093/jrr/rrab025. PMID: 34037214
27. Simhadri JJ, Loffredo CA, Trnovec T, Murinova LP, Nunlee-Bland G, Koppe JG, Schoeters G, Jana SS, **Ghosh S**. Biomarkers of metabolic disorders and neurobehavioral diseases in a PCB-exposed population: What we learned and the implications for future research. *Environ Res.* 2020 Dec;191:110211. doi: 10.1016/j.envres.2020.110211. Epub 2020 Sep 13. PMID: 32937175
28. Noreen Z, Loffredo CA, Bhatti A, Simhadri JJ, Nunlee-Bland G, Nnanabu T, John P, Khan JS, **Ghosh S**. Transcriptional Profiling and Biological Pathway(s) Analysis of Type 2 Diabetes Mellitus in a Pakistani Population. *Int J Environ Res Public Health.* 2020 Aug 13;17(16):5866. doi: 10.3390/ijerph17165866. PMID: 32823525.
29. Banerjee H, Krauss C, Worthington M, Banerjee N, Shawn Walker R, Hodges H, Chen L, Rawat K, Dasgupta S, **Ghosh S**, Mandal S. Differential expression of efferocytosis and phagocytosis associated genes in tumor associated macrophages exposed to African American patient derived prostate cancer microenvironment. *J. Solid. Tumor.* 2019; 9(2): 22-27. doi: 10.3390/ijerph15081582. PMID: 30049934.
30. Halder D, Saha S, Singh RK, Ghosh I, Mallick D, Dey SK, Ghosh A, Das BB, **Ghosh S**, Jana SS. Non-muscle myosin IIA and IIB differentially modulate migration and alter gene expression in primary mouse tumorigenic cells. *Mol Biol Cell.* 2019; 30(12):1463-1476 doi: 10.1091/mbc.E18-12-0790. Epub 2019 Apr 17. PMID: 30995168.
31. Noreen Z, DeJesus J, Bhatti A, Loffredo CA, John P, Khan JS, Nunlee-Bland G, **Ghosh S***. Epidemiological Investigation of Type 2 Diabetes and Alzheimer's Disease in a Pakistani Population. *Int J Environ Res Public Health.* 2018 Jul 26;15(8). pii: E1582. doi: 10.3390/ijerph15081582. PMID: 30049934
32. Washington K, **Ghosh S**, Reeves IV. A Review: Molecular Concepts and Common Pathways Involving Vitamin D in the Pathophysiology of Preeclampsia. *Open Journal of Obstet. Gynecol.* 2018; 8: 198-229. doi: 10.4236/ojog.2018.83023
33. **Ghosh S***, Loffredo CA, Mitra PS, Trnovec T, Murinova LP, Sovcikova E, Hoffman EP, Makhambi KH, Dutta SK. PCB exposure and potential future cancer incidence in Slovak children: an assessment from molecular finger printing by Ingenuity Pathway Analysis (IPA®) derived from experimental and epidemiological investigations. *Environ Sci Pollut Res Int.* 2018; 25(17): 16493-16507. doi: 10.1007/s11356-017-0149-1. Epub 2017 Nov 15. PMID: 29143255.
34. **Ghosh S**, Dutta S, Thorne G, Boston A, Barfield A, Banerjee N, Walker R, Banerjee HN. Core Canonical Pathways Involved in Developing Human Glioblastoma Multiforme (GBM). *International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET).* 2017 February 28; 3(1):458-465. PMID: 28523289
35. **Ghosh S**, Mitra PS, Loffredo CA, Trnovec T, Palkovicova L, Sovcikova E, Ghimbovski S, Zang S, Hoffman EP, Dutta SK. Transcriptional profiling and biological pathway analysis of human equivalence PCB exposure in vitro: indicator of disease and disorder development in humans. *Environmental Res.* 2015; 138C:202-216. doi: 10.1016/j.envres.2014.12.031. Epub 2015 Feb 27. PMID: 25725301

36. **Ghosh S**, Palkovicova L, Trnovec T, Loffredo CA, Washington K, Mitra PS, Dutta SK. Biomarkers Linking PCB Exposure and Obesity, *Current Pharmaceutical Biotechnology*. 2014; 15 (11): 1058-1068. doi: 10.2174/1389201015666141122203509. PMID: 25420728
37. **Ghosh S**, Trnovec T, Palkovicova L, Hoffman EP, Washington K, Dutta SK. Status of LEPR Gene in PCB-exposed Population: A Quick Look. *Int J Hum Genet*. 2013; 13(1): 27-32. doi: 10.1080/09723757.2013.11886193. PMID: 23741107
38. Dutta SK, Mitra PS, **Ghosh S**, Zang S, Sonneborn D, Hertz-Picciotto I, Trnovec T, Palkovicova L, Sovcikova E, Ghimbovschi S, Hoffman EP. Differential Gene Expression and Functional Analysis of PCB-exposed Children: Understanding Disease and Disorder Development. *Environment International*. 2012; 40: 143-154. doi: 10.1016/j.envint.2011.07.008. Epub 2011 Sep 8. PMID: 21855147.
39. Mitra PS, **Ghosh S**, Zang S, Sonneborn D, Hertz-Picciotto I, Trnovec T, Palkovicova L, Sovcikova E, Ghimbovschi S, Hoffman EP, Dutta SK. Analysis of the toxicogenomic effects of exposure to persistent organic pollutants (POPs) in Slovakian girls: correlations between gene expression and disease risk. *Environment International*. 2012; 39: 188-199. doi: 10.1016/j.envint.2011.09.003. Epub 2011 Dec 8. PMID: 22208759.
40. **Ghosh S**, Zang S, Mitra PS, Ghimbovschi S, Hoffman EP, Dutta SK. Global gene expression and Ingenuity biological functions analysis on PCBs 153 and 138 induced human PBMC in vitro reveals differential mode(s) of action in developing toxicities *Environment International*. 2011; 37: 838-857. doi: 10.1016/j.envint.2011.02.010. Epub 2011 Apr 5. PMID: 21470681.
41. **Ghosh S**, De S, Chen Y-Q, Sutton DC, Ayorinde FO, Dutta SK. Polychlorinated biphenyls (PCB-153) and (PCB-77) absorption in human liver (HepG2) and kidney (HK2) cells in vitro: PCB levels and cell death. *Environment International*. 2010; 36: 893-900. doi: 10.1016/j.envint.2010.06.010. Epub 2010 Aug 17. PMID: 20723988.
42. De S, **Ghosh S**, Chatterjee R, Chen Y-Q, Moses L, Kesari A, Hoffman EP, Dutta SK. PCB congener specific oxidative stress response by microarray analysis using human liver cell line. *Environment International*, 2010; 36: 907-917. doi: 10.1016/j.envint.2010.05.011. Epub 2010 Jul 17. PMID: 20638727.
43. Mitra P, **Ghosh S**, Zang S, Sonneborn D, Hertz-Picciotto I, Trnovec T, Lubica Palkovicova L, Sovcikova E, Ghimbovschi S, Hoffman EP, Dutta SK. Persistent Organic Pollutants (POP) and their Effect on Gene Expression in Exposed Children, in 2010 Joint Conference of International Society of Exposure Science & International Society for Environmental Epidemiology (ISES-ISEE 2010) at Seoul, Korea, 28th August-1st September. *Epidemiology*. 2010; 22 (1) p-S94, 2011. doi: 10.1097/01.ede.0000391955.79176.0c
44. Dutta SK, Mitra P, **Ghosh S**, Zang S, Sonneborn D, Hertz-Picciotto I, Trnovec T, Palkovicova L, Sovcikova E, Ghimbovschi S, Hoffman EP. Gene Expression Analysis of PCB exposed Children: Understanding Toxicity and Disease Process, in 2010 Joint Conference of International Society of Exposure Science & International Society for Environmental Epidemiology (ISES-ISEE 2010) at Seoul, Korea, 28th August-1st September. *Epidemiology*. 2010; 22 (1) p-S33, 2011. doi: 10.1097/01.ede.0000391759.48334.51.
45. Dutta S, **Ghosh S**, Zang S, Trnovec T, Palkovicova L, Sovcikova E, Sonneborn, Dean Hertz-Picciotto, Irva, Ghimbovschi Svetlana Hoffman, Eric Identification of Early Disease Biomarkers

- in 45 Months PCB-Exposed Slovak Population [Abstract]. In ISEE 21st Annual Conference Proceedings, Dublin, Ireland, August 25-29. *Epidemiology*. 2009; 20(6): 6-pS131. doi: 10.1097/01.ede.0000362450.40526.30.
46. **Ghosh S**, Dutta S, Zang S, Trnovec T, Palkovicova L, Sovcikova E, , Ghimbovschi Svetlana , Hoffman, Eric PCB Exposure PCB Exposure In Vitro (P BMC): Differential Gene Expression, Pathway Analysis for Possible Mode(s) of Actions, and Disease Development in Comparison with PCB-Exposed Slovak Population In ISEE 21st Annual Conference, Dublin, Ireland, August 25-29, *Epidemiology*. 2009; 20(6): p S130. doi: 10.1097/01.ede.0000362447.94784.b4
 47. Dutta SK, **Ghosh S**, De S, Hoffman EP. CYP1A1 and MT1K are Congener Specific Biomarker Genes for Liver Diseases Induced by PCBs. *Environ. Toxicol. Pharmacol.* 2008; 25: 218-221. doi: 10.1016/j.etap.2007.10.018. Epub 2007 Oct 16. PMID: 21783860.
 48. **Ghosh S**, De S, Dutta SK. Altered Protein Expressions in Chronic PCB-153 Induced Human Liver (HepG2) cells. *Int. J. Toxicol.* 20007; 26: 203-212. doi: 10.1016/j.etap.2007.10.018. Epub 2007 Oct 16. PMID: 21783860
 49. Chen YQ, De S, **Ghosh S**, Dutta SK. Congener Specific Polychlorinated Biphenyl-Induced Cell Death in Human Kidney Cells In Vitro: Potential Role of Caspase. *Inter. J. Toxicol.* 2996; 25: 1-7. DOI: , PMID: **16940006**.
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 51. **Ghosh S**, Hazra A K, Banerjee S, Mukherjee B. Ecological monitoring for ascertaining the bio-safety of liver lipids from some Indian marine puffer fishes. *Fisheries Science*. 2005; 71(1), 29-37.
 52. **Ghosh S**, Hazra, AK, Banerjee S, and Mukherjee B. The seasonal toxicological profile of four puffer fish species collected along Bengal coast. *India, Indian J. Mar. Sci.* 2004; 33(3), 276-280.
 53. Dasmahapatra GP, Didolkar P, Alley MC, **Ghosh S**, Sausville EA, Roy K*. In Vitro Combination Treatment with Perifosine and UCN01 Demonstrate Synergism against Prostate (PC-3) and Lung (A549) Epithelial Adenocarcinoma Cell Lines. *Clinical Cancer Research*. 2004; 10: 5242-5252. doi: 10.1158/1078-0432.CCR-03-0534. PMID: 15297428
 54. **Ghosh S**, Hazra A K, Banerjee S, Mukherjee B. The Multifaceted Health Benefits of Fish Oil. *Science and Culture*. 2003; 69 (9-10), 326-330.
 55. Banerjee S, **Ghosh S**, Hazra A K, Dutta P, Besra S E, Vedasiromoni R, Bhattacharyya D. Mukherjee B. Puffer Toxin: Unusual Molecular Structure, in the Proceedings of Asian Symposium on Medicinal Plants and Species (ASOMPS X), Dhaka, 18-23 November 2000; 149-159.
 56. Hazra A K, **Ghosh S**, Banerjee S, Mukherjee B. Studies on Lipid and Fatty Acid Compositions of Puffer Liver from Indian Coastal waters with Seasonal Variation. *J. Am. Oil. Chem. Soc.* 1998; 75(1), 1673-1678.

ii. Reviews or Editorials in Refereed Journals

N/A

iii. Books or Chapters in Books

1. **Ghosh S**, Hazra A K, Mitra S K, Mukherjee B. Poisonous Fishes: Potential Begetter of Bioactive Substances. In: Ed. Devadasan K et al. Nutrients and Bioactive Substances in Aquatic Organisms. Cochin, India: Society of Fisheries Technologists, 1994; 44-58.

vi. Other Publications (PATENT)

1. **Ghosh S**, Hazra AK. and Mukherjee B., A Novel Process for the Extraction of Non-toxic Oil Having High EPA & DHA Content from the Livers of Marine Non-Edible Fishes, (Indian Patent No. AA-2468).

v. Abstracted for Conference papers and posters (100+ more as invited lectures).

1. Zarish Noreen, Tanmoy Mondal, Christopher A. Loffredo, Gail Nunlee-Blnad, Jyothirmai J. Simhadri, Jheannelle Johnson, Sharleine T. Cotin, Brent E. Korbe, Ruth Quartey, Charles D. Howell, Maria Arif, Attya Bhatti, Vijay Chandra, Siddhartha S. Jana, Sharoon Shahzad, **Somiranjan Ghosh**. **Similarities in Pathobiology of Alzheimer's Disease and Type 2 Diabetes Mellitus: A Proof of Concept by a Case Study**. <https://doi.org/10.1002/alz.062039>.
2. Morinne Osborne, Tanmoy Mondal, C. Smith, C. Loffredo, R. Quartey, C. Howell, B. Korba, Z. Sherif, G. Nunlee-Bland, L. Rucker, G. Moses, **S. Ghosh**. **Characterizing IL-6-Related Inflammatory Signaling Associated with The PNPLA3 RS738409 Variant in African Americans with MASLD**. 2026 RCMI Consortium National Conference. Bethesda, MD. July 19-22.
3. Tanmoy Mondal, Coleman I Smith, Christopher A. Loffredo, Ruth Quartey, Charles Howell, Brent Korba, Zaki A Sherif, Gail Nunlee-Bland, Gemeyel Moses, **Somiranjan Ghosh**. **Non-Coding RNA Regulation of TGFB1-E2F Signaling in MASLD**. 2026 RCMI Consortium National Conference. Bethesda, MD. July 19-22.
4. **Somiranjan Ghosh**, Tanmoy Mondal, Zarish Noreen, Abhay Maghekar, Gail Nunlee-Bland, Vijay Chandra. **Cross-Population Alzheimer's Disease Risk in Chronic Type 2 Diabetes**. 2026 RCMI Consortium National Conference. Bethesda, MD. July 19-22.
5. Jasneet Sahota; L Berry; T Mondal; CI Smith; C A Loffredo; B Korba; CD Howell; G Nunlee-Bland; G Moses; **S Ghosh**. **Transcriptomic Profiling and Analysis of E2F1 Polymorphisms in African Americans with MASLD**. 2026 RCMI Consortium National Conference. Bethesda, MD. July 19-22.
6. Sydney Allison; Tanmoy Mondal; Christopher A Loffredo; Ruth Quartey; Brent Korba; Gail Nunlee-Bland; **Somiranjan Ghosh**. **The Role of Transcriptional Dysregulation and LEP Polymorphisms in African Americans with T2DM**. 2026 RCMI Consortium National Conference. Bethesda, MD. July 19-22.
7. Tanmoy Mondal, J Johnson, TK Sur, CA. Loffredo, ST Cotin, J Sahota, BE Korba, G Nunlee-Blnad, **S Ghosh**. 2025. **Metabolic Dysfunction and Alzheimer's Disease Risks in African Americans**. *Alzheimer's & Dementia*. e086476. 20(S2). <https://doi.org/10.1002/alz.086476>
8. Sahota J, **Ghosh S**, Tanmoy Mondal, Simhadri J, Loffredo C, Howell C. Conceptual Framework for Understanding the Association between Type 2 Diabetes Mellitus and Alzheimer's Disease Risks in African Americans. *Diabetes* 2025;74(Supplement_1):1579-P. <https://doi.org/10.2337/db25-1579-P>

9. Tanmoy Mondal, Loffredo CA, Quartey R, Moses G, Howell C, Korba BE, Nunlee-Bland G, Noreen Z, **Ghosh S. Gene Expression and Pathway Analysis in African Americans with T2DM and HCV Comorbidity. Diabetes** 2025;74(Supplement_1):1535-P. <https://doi.org/10.2337/db25-1535-P>
10. Tanmoy Mondal, Jheannelle Johnson, Tapas K. Sur, Christopher A. Loffredo, Sharleine Cotin, Jasneet Sahota, Charles D. Howell, Brent Korba, Gail Nunlee-Bland, **Somiranjan Ghosh. Metabolic Dysfunction and Alzheimer's Disease Risks in African Americans. AAIC 2024, Philadelphia, USA.**
11. Tanmoy Mondal, Maia Pohlhaus, Christopher A. Loffredo, Brent E. Korba, Ruth Quartey, Gemeyel Moses, Charles Howell, Gail Nunlee-Bland, Lucy Berry, **Somiranjan Ghosh. Understanding Noncoding RNAs in African American Patients with Type 2 Diabetes Mellitus and Hepatitis C Virus. Cell Symposia: Precision genomics for human health. September 17-19, 2025 | Paradise Point, San Diego, CA, USA**
12. Osborne M, Tanmoy Mondal, Smith CI, Loffredo CA, Quartey R, Howell C, Korba B, Sherif ZA, Nunlee-Bland G, Rucker LR, Moses G, **Ghosh S. Impact of PNPLA3 RS738409 Variant on IL-6 Mediated Inflammation in African Americans with MASLD. Hepatology. 82(S1):S1-S2308, October 2025. DOI: 10.1097/HEP.0000000000001493**
13. Tanmoy Mondal; CA Loffredo; R Quartey; G Moses; C Howell; BE Korba; G Nunlee-Bland; Z Noreen; JJ Simhadri; **S Ghosh. HCV Infection and Diabetes Comorbidity Risks in African Americans. RCMC Coordinating Center Conference 2025. Bethesda MD, US.**
14. Tanmoy Mondal, CA. Loffredo, R Quartey, G Moses, C Howell, B Korba, G Nunlee-Bland, **S Ghosh. Gene Expression and Pathway Analysis in African Americans with T2DM and HCV Co-Morbidity. ADA Meetings 2025. Chicago, US**
15. Saimoen Anderson, Miranda Newheart, **Tanmoy Mondal**, Tapas Kumar Sur, **Somiranjan Ghosh. Decoding Latent Autoimmune Disease (LADA) in African American Adults: A Comprehensive Study on the Role of PFKFB3 Gene and Pathway's T2DM Patient. 18th Annual Undergraduate Research Conference 2024. Virginia State University.**
16. Miracle Gabriels, **Tanmoy Modal**, Somiranjan Ghosh. **Role of E2F1 Signaling Pathways in Progression of MASLD in African Americans: An Ethnicity Based Comparative Study. 18th Annual Undergraduate Research Conference 2024. Virginia State University.**
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