

PUBLICATIONS

1. A Soman, T Pradhan, R Krishna, ES Hermon, T Somanathan, EG Jinto, George, G, **Pothuraju R**, Nair SA. Decoding Early-Onset of Colorectal Cancer: Insights into SERPINA3 Expression Patterns. *Heliyon-Cell Press*, 2024, doi.org/10.1016/j.heliyon.2024.e40119.
2. Mahajan K, Das AV, Alahari SK, **Pothuraju R**, Nair SA. MicroRNA-532-3p Modulates Colorectal Cancer Cell Proliferation and Invasion via Suppression of FOXM1. *Cancers (Basel)*, 2024, 16(17):3061, doi: 10.3390/cancers16173061
3. Parte S, **Pothuraju R**, Kumavath R, Bhatia R, Nimmakayala RK, Gautam S. Editorial: Altered metabolic traits in gastrointestinal tract cancers. *Front. Endocrinol.* 2024, 15:1390877, doi: 10.3389/fendo.2024.1390877.
4. Choudhury D, Ghosh D, Mondal M, Singha D, **Pothuraju R**, Malakar P. Polyploidy and mTOR signaling: a possible molecular link. *Cell Commun Signal.* 2024, 27;22(1):196. doi: 10.1186/s12964-024-01526-9.
5. Abdullah KM, Kaushal JB, Takkar S, Sharma G, Alsafwani ZW, **Pothuraju R**, Batra SK, Siddiqui JA. Copper metabolism and cuproptosis in human malignancies: Unraveling the complex interplay for therapeutic insights. *Heliyon-Cell Press*, 2024. doi:10.1016/j.heliyon.2024.e27496.
6. Abdullah KM, Sharma G, Takkar S, Kaushal JB, **Pothuraju R**, Chakravarti B, Batra SK, Siddiqui JA. α -lipoic acid modulates prostate cancer cell growth and bone cell differentiation. *Sci. Rep.* 2024, 14(1):4404, doi: 10.1038/s41598-024-54479-x.
7. **Pothuraju R***, Khan I*, Jain M, Bouvet M, Malafa M, Roy HK, Kumar S, Batra SK. Colorectal cancer murine models: Initiation to metastasis. *Cancer Letters.* 2024, doi: 10.1016/j.canlet.2024.216704.
8. Barkeer S*, **Pothuraju R***, Malakar P, Pimental TC, Siddiqui JA. Nair SA. Gum Acacia Dietary Fiber: Significance in Immunomodulation, Inflammatory Diseases and Cancer. *Phytotherapy Research.* 2024, DOI: 10.1002/ptr.8125.
9. Jean Wilson E, Sirpu Natesh N, Ghadermazi P, **Pothuraju R**, Shanmugam M, Prajapati DR, Pandey S, Kaifi JT, Dodam JR, Bryan J, Lorson CL, Watrelot AA, Foster JM, Mansel TJ, Joshua Chan SH, Batra SK, Subbiah J, Rachagani S. Red cabbage juice-mediated gut microbiota modulation improves intestinal epithelial homeostasis and ameliorates colitis. *Int. J. Mol. Sci.* 2024. 25(1), 539; doi.org/10.3390/ijms25010539.
10. Sharma, T Sirpu Natesh N, **Pothuraju R**, Batra SK and Rachagani S. Gut microbiota: a non-target victim of pesticide-induced toxicity. *Gut Microbes.* 2023, 15(1):2187578. doi: 10.1080/19490976.2023.2187578.
11. Sharma G, Sultana A, Abdullah KM, **Pothuraju R**, Nasser MW, Batra SK, Siddiqui JA. Epigenetic regulation of bone remodeling and bone metastasis. *Semin Cell Dev Biol.* 2022, S1084-9521(22)00294-4, doi: 10.1016/j.semcdb.2022.11.002.
12. **Pothuraju R**, Pai P, Chaudhary S, Siddiqui JA, Cox JL, Kaur S, Rachagani S, Roy HK, Bouvet M and Batra SK. Depletion of transmembrane mucin 4 (Muc4) alters intestinal homeostasis in a genetically engineered mouse model of colorectal cancer. *Aging.* 2022, 14(5):2025-2046. doi: 10.18632/aging.203935. (*Highlighted in front cover page*).
13. Muniyan S, **Pothuraju R**, Seshacharyulu P and Batra SK. Macrophage inhibitory cytokine-1 in cancer: Beyond the cellular phenotype. *Cancer letters.* 2022, doi.org/10/1016/j.canlet.2022.215664.

14. Sharma G, **Pothuraju R**, Kanchan RK, Batra SK, Siddiqui JA. Chemokines network in bone metastasis: Vital regulators of seeding and soiling. *Semin Cancer Biol.* 2022, S1044-579X(22)00024-4, doi: 10.1016/j.semcancer.2022.02.003.
15. Siddiqui JA, Seshacharyulu P, Muniyan S, **Pothuraju R**, Khan P, Vengoji, R, Chaudhary S, Maurya S, Lele S, Jain M, Datta K, Nasser MW, Batra SK. GDF15 promotes prostate cancer bone metastasis and colonization through osteoblastic CCL2 and RANKL activation. *Bone Research*, 2022. 10(1):6, doi.org/10.1038/s41413-021-00178-6.
16. Siddiqui JA, **Pothuraju R**, Khan P, Sharma G, Muniyan S, Seshacharyulu P, Muniyan S, Jain M, Nasser MW, Batra SK. Pathophysiological role of growth differentiation factor 15 (GDF15) in obesity, cancer, and cachexia. *Cytokine & Growth Factor Reviews.* 2021. 64:71-83, doi: 10.1016/j.cytogfr.2021.11.002.
17. Athira S, Mann B, Sharma R, **Pothuraju R**, Bajaj RK. Preparation and characterization of iron-chelating peptides from whey protein: An alternative approach for chemical iron fortification. *Food Research International*, 2021, 141, 110133, doi.org/10.1016/j.foodres.2021.110133.
18. **Pothuraju R**, Chaudhary S, Rachagani S, Kaur S, Roy H, Bouvet M, Batra SK. Mucins, gut microbiota, and postbiotics role in colorectal cancer. *Gut Microbes.* 2021, 13(1):1974795. doi: 10.1080/19490976.2021.1974795.
19. Chaudhary S, **Pothuraju R**, Rachagani S, Siddiqui JA, Atri P, Mallya K, Nasser MW, Sayed Z, Lyden ER, Smith L, Gupta SD, Ralhan R, Lakshmanan I, Jones DT, Ganti AK, Macha MA, Batra SK. Dual blockade of EGFR and CDK4/6 delays head and neck squamous cell carcinoma progression by inducing metabolic rewiring. *Cancer Letters.* 2021, 510:79-92. doi: 10.1016/j.canlet.2021.04.004.
20. Kisling SG, Natarajan GK, **Pothuraju R**, Shah A, Batra SK, Kaur S. Implications of prognosis associated genes in pancreatic tumor metastasis: lessons from global studies. *Cancer and Metastasis Reviews.* 2021, 40(3):721-738. doi: 10.1007/s10555-021-09991-1.
21. **Pothuraju R**, Rachagani S, Krishn SR, Chaudhary S, Nimmakayala RK, Siddiqui JA, Ganguly K, Lakshmanan I, Cox JL, Mallya K, Kaur S, Batra SK. Molecular implications of MUC5ACCD44 axis in colorectal cancer progression and chemoresistance. *Mol Cancer.* 2020, 19(1):37. doi: 10.1186/s12943-020-01156-y .
22. **Pothuraju R**, Krishn SR, Gautam SK, Pai P, Ganguly K, Chaudhary S, Rachagani S, Kaur S, Batra SK. Mechanistic and Functional Shades of Mucins and Associated Glycans in Colon Cancer. *Cancers (Basel).* 2020, 12(3). doi: 10.3390/cancers12030649.
23. Ganguly K, Krishn SR, Rachagani S, Jahan R, Shah A, Nallasamy P, Rauth S, Atri P, Cox JL, **Pothuraju R**, Smith LM, Ayala S, Evans C, Ponusamy MP, Kumar S, Kaur S, Batra SK. Secretory mucin 5AC promotes neoplastic progression by augmenting KLF4-mediated pancreatic cancer cell stemness. *Cancer Res.* 2020 81(1):91-102, doi: 10.1158/0008-5472.CAN-20-1293.
24. Mallya K, Haridas D, Seshacharyulu P, **Pothuraju R**, Junker WM, Krishn SR, Muniyan S, Vengoji R, Batra SK, Rachagani S. Acinar transformed ductal cells exhibit differential mucin expression in a tamoxifen-induced pancreatic ductal adenocarcinoma mouse model. *Biology Open.* 2020, 9(9):bio052878. doi: 10.1242/bio.052878.
25. Jangra S, **Pothuraju R**, Sharma RK and Bhakri G. Co-administration of soluble fibres and lactobacillus casei NCDC19 fermented milk prevents adiposity and insulin resistance via modulation of lipid mobilization genes in diet-induced obese mice. *Endocr Metab Immune Disord Drug Targets.* 2020, 20(9):1543-1551, doi: 10.2174/1871530320666200526123621.

26. Siddiqui JA, **Pothuraju R**, Jain M, Batra SK and Nasser MW. Advances in cancer cachexia: intersection between affected organs, mediators, and pharmacological interventions. *Biochim Biophys Acta Rev Cancer*. 2020, 1873(2):188359, doi: 10.1016/j.bbcan.2020.188359.
27. Jangra S and **Pothuraju R**. Functional significance of gum acacia in the management of obesity. *Curr Pharm Des*. 2020, 26(3):293-295, doi: 10.2174/138161282603200306092307.
28. Jangra S, Sharma RK, **Pothuraju R** and Bhakri G. Milk fermented with Lactobacillus casei NCDC19 improves high fat and sucrose diet alters gene expression in obese mice. *International Dairy Journal*. 90, 2019, <https://doi.org/10.1016/j.idairyj.2018.11.002>.
29. Jangra S, Kurva RS, Sharma RK, **Pothuraju R**, Mohanty AK. Ameliorative Effect of Fermentable Fibres on Adiposity and Insulin Resistance in C57BL/6 Mice Fed High-Fat and Sucrose Diet. *Food & Function*. 2019, 10(6):3696-3705. doi: 10.1039/c8fo02578a.
30. Chaudhary S, Ganguly K, Muniyan S, **Pothuraju R**, Sayed Z, Jones DT, Batra SK and Macha MA. Immunometabolic Alterations by HPV Infection: New Dimensions to Head and Neck Cancer Disparity. *J Natl Cancer Inst*. 2019, 111(3):233-244. doi: 10.1093/jnci/djy207.
31. Uz M, Kalaga M, **Pothuraju R**, Ju J, Junker WM, Batra SK, Mallapragada S and Rachagani S. Dual delivery nanoscale device for miR-345 and gemcitabine co-delivery to treat pancreatic cancer. *J Control Release*. 2018;294:237-46, doi: 10.1016/j.jconrel.2018.12.031.
32. **Pothuraju R**, Rachagani S, Junker WM, Chaudhary S, Saraswathi V, Kaur S and Batra SK. Pancreatic cancer associated with obesity and diabetes: an alternative approach for its targeting. *J Exp Clin Cancer Res*. 2018;37(1):319, doi: 10.1186/s13046-018-0963-4.
33. **Pothuraju R**, Sharma RK. Interplay of Gut Microbiota, Probiotics in Obesity: A Review. *Endocr Metab Immune Disord Drug Targets*. 2018;18(3):212-20, doi: 10.2174/1871530318666180131092203.
34. Chugh S, Barkeer S, Rachagani S, Nimmakayala RK, Perumal N, **Pothuraju R**, Atri P, Mahapatra S, Thapa I, Talmon GA, Smith LM, Yu X, Neelamegham S, Fu J, Xia L, Ponnusamy MP, Batra SK. Disruption of C1galt1 Gene Promotes Development and Metastasis of Pancreatic Adenocarcinomas in Mice. *Gastroenterology*. 2018;155(5):1608-24, doi: 10.1053/j.gastro.2018.08.007.
35. **Pothuraju R** and Hussain SA. Probiotics: An important player in the obesity management alone? *Obesity Medicine*, 2017,8,13-14. <https://doi.org/10.1016/j.obmed.2017.09.003>
36. Hussain SA, Patil GR, Reddi S, Yadav V, **Pothuraju R**, Singh RRB and Kapila S. Aloe vera (Aloe barbadensis Miller) supplemented probiotic lassi prevents Shigella infiltration from epithelial barrier into systemic blood flow in mice model. *Microb Pathog*. 2017;102:143-7, doi: 10.1016/j.micpath.2016.11.023.
37. Kavadi PK, **Pothuraju R**, Chagalamarri J, Bhakri G, Mallepogu A, Sharma RK. Dietary incorporation of whey protein isolate and galactooligosaccharides exhibits improvement in glucose homeostasis and insulin resistance in high fat diet fed mice. *J Intercult Ethnopharmacol*. 2017;6(3):326-32, doi: 10.5455/jice.20170526091235.
38. Singh S, Sharma RK, Malhotra S, **Pothuraju R**, Shandilya UK. Lactobacillus rhamnosus NCDC17 ameliorates type-2 diabetes by improving gut function, oxidative stress and inflammation in high-fat-diet fed and streptozotocintreated rats. *Benef Microbes*. 2017;8(2):24355, doi: 10.3920/BM2016.0090.

39. Sharma M, Mann B, Athira S., Sarkar P, Sharma R, Bajaj R and **Pothuraju R**. Sodium caseinate stabilized clove oil nanoemulsion: Physicochemical properties. *Journal of Food Engineering*, 2017;212, 38-46, doi.org/10.1016/j.jfoodeng.2017.05.006 .
40. **Pothuraju R** and Minaxi. New Insights of Probiotics for Obesity and its Metabolic Disorders: Big Hope from the Small Micro-organisms. *Annals of Obesity & Disorders*. 2016, 1,2(2).
41. Kumar DD, Mann B, **Pothuraju R**, Sharma R, Bajaj R, Minaxi. Formulation and characterization of nanoencapsulated curcumin using sodium caseinate and its incorporation in ice cream. *Food Funct*. 2016;7(1):417-24, doi: 10.1039/c5fo00924c.
42. Pai P, Rachagani S, Dhawan P, Sheinin YM, Macha MA, Qazi AK, Chugh S, Ponnusamy MP, Mallya K, **Pothuraju R** and Batra SK. MUC4 is negatively regulated through the Wnt/beta-catenin pathway via the Notch effector Hath1 in colorectal cancer. *Genes Cancer*. 2016;7(5-6):154-68, doi: 10.18632/genesandcancer.108.
43. **Pothuraju R**, Sharma RK, Kavadi PK, Chagalamarri J, Jangra S, Bhakri G and De, S. Anti-obesity effect of milk fermented by *Lactobacillus plantarum* NCDC 625 alone and in combination with herbs on high fat diet fed C57BL/6J mice. *Benef Microbes*. 2016;7(3):375-85, DOI: 10.3920/BM2015.0083.
44. **Pothuraju R**, Sharma RK, Onteru SK, Singh S, Hussain SA. Hypoglycemic and Hypolipidemic Effects of Aloe vera Extract Preparations: A Review. *Phytother Res*. 2016;30(2):200-7, doi: 10.1002/ptr.5532.
45. **Pothuraju R**, Sharma RK, Rather SA, Singh S. Comparative evaluation of anti-obesity effect of Aloe vera and *Gymnema sylvestre* supplementation in high-fat diet fed C57BL/6J mice. *J Intercult Ethnopharmacol*. 2016;5(4):403-7, doi: 10.5455/jice.20160623122710.
46. Sawale PD, **Pothuraju R**, Abdul Hussain S, Kumar A, Kapila S, Patil GR. Hypolipidaemic and anti-oxidative potential of encapsulated herb (*Terminalia arjuna*) added vanilla chocolate milk in high cholesterol fed rats. *J Sci Food Agric*. 2016;96(4):1380-5, doi: 10.1002/jsfa.7234.
47. **Pothuraju R**, Sharma RK, Chagalamarri J, Kavadi PK, Jangra S. Influence of milk fermented with *Lactobacillus rhamnosus* NCDC 17 alone and in combination with herbal ingredients on diet induced adiposity and related gene expression in C57BL/6J mice. *Food Funct*. 2015;6(11):3576-84, doi: 10.1039/c5fo00781j.
48. **Pothuraju R**, Sharma RK, Chagalamarri J, Jangra S, Kumar Kavadi P. A systematic review of *Gymnema sylvestre* in obesity and diabetes management. *J Sci Food Agric*. 2014;94(5):834-40, doi: 10.1002/jsfa.6458.
49. Basannavar S, **Pothuraju R**, Sharma RK. Effect of Aloe vera (*Aloe barbadensis* Miller) on survivability, extent of proteolysis and ACE inhibition of potential probiotic cultures in fermented milk. *J Sci Food Agric*. 2014;94(13):2712-7, doi: 10.1002/jsfa.6615.
50. **Pothuraju R**, Sharma RK and Raju PN. Anti-Hyperglycemic and Hypolipidemic Effects of Different Aloe vera (*Aloe Barbadensis* Miller) Extracts in the Management of Obesity and Diabetes. *Current Nutrition and Food Science*, 2014;10: 1-10.
51. Ahmed S, **Pothuraju R**, Sharma RK, De S, Mir NA and Jangra S. Anti-obesity effects of feeding probiotic dahi containing *Lactobacillus casei* NCDC 19 in high fat diet-induced obese mice. *International Journal of Dairy Technology*, 2014, doi: 10.1111/1471-0307.12154).
52. Giri A, Kanawjia SK, **Pothuraju R** and Kapila S. Effect of inulin incorporated processed cheese spread on lipid profile of blood serum and liver in rats. *Dairy Science and Technology*, 2014; (DOI 10.1007/s13594-014-0191-4).

53. **Pothuraju R** and Kaul G. Effect of silver nanoparticles on functionalities of buffalo (*Bubalus bubalis*) spermatozoa. *Advanced Science, Engineering and Medicine*, 2013;5: 91-95.
54. Singh S, Sharma RK, Malhotra S, **Pothuraju R**, Umesh Shandilya UK and Kumar A. Probiotic attributes of *Lactobacillus rhamnosus* of dairy origin and effectiveness of almond in stimulation of its growth in vitro. *Indian Journal of Dairy Science*, 2012;65: 305-313.