



Anthocyanin Biofortified Wheat: A healthy choice to prevent diet induced Obesity

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Intake of energy dense food is one of the primary causal factors of obesity and causing dyslipidemia, insulin resistance, hyperglycemia and its co-morbidities. Several researchers reported the protecting/preventing effects of anthocyanins in contradiction of obesity, and its related metabolic disorders. Anthocyanins are surplus in dark-colored fruits and vegetables, but because of their seasonal availability and cost-intensive storage, they are not easily available to developing and underdeveloped countries. On the another hand, presence of anthocyanins in colored grains promoted the cereals among health-promoting food. Therefore, we designed a study to compare an effective response of anthocyanin-rich color and white whole wheat on a high-fat diet (HFD) induced alterations using mouse model. Mice were fed with HFD supplemented with isoenergetic white, purple and black whole wheat for 12 weeks and assessed physiologically and biochemically along with nutrigenomics study using RNA-Seq analysis. Black



Saloni Sharma completed her MSc in Biotechnology from Himachal Pradesh University, Shimla in 2009. After that, she worked as JRF and SRF in CSK HPKV, Agriculture University for 4 years. In 2014, she joined as a research fellow at National Agri-Food Biotechnology Institute, Mohali and registered her PhD in 2015 at Punjab University, Chandigarh. In 2020, she will be going to submit her PhD thesis. She has published 9 papers in reputed journals and attended 3 international conferences to deliver oral and poster presentations.

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