

Dr. Alka Rao

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Designation:

Principal Scientist, CSIR-Institute of Microbial Technology,
Chandigarh & Adjunct Associate Professor, Academy of
Scientific & Innovative Research (AcSIR), Chandigarh

Brief Profile: Research background of twelve plus years with measurable outcomes in the form of patents, copyrights and international publications in the field of protein science, protein engineering and directed evolution of proteins. Successfully developed hitherto unknown enzymatic methods for S-diglycosylation of protein and peptides using bacterial enzymes. This may lead to a significant breakthrough in the field of food preservation, antibiotic resistance management, pharmaceuticals and industrial enzyme production. Developed a growth-promoting product for crop applications for industry partner (Criyagen Agri and Biotech Pvt. Ltd.) leading to successful market launch. Now endeavoring to develop a versatile enzymatic tool-kit for utilitarian manipulation of peptides and development of alternate methods for assessment of critical quality attribute of biologicals. In addition to National Biodiversity Authority, MoEF&CC, Govt. of India also serving as a member of Navodaya Vidyalaya Samiti (NVS) & Executive Committee of NVS, MHRD, Govt. of India, member of Scientific panel on food additives, FSSAI, MoHFW, Govt. of India, member of the Editorial Board of Scientific Reports (Nature Publishing Group), Member of Department of Biotechnology (DBT) Biocare Task Force, member of Board of Management of Educational Multimedia Research Centre (UGC EMRC) Mysore, Honorary Consultant under Poshan Abhiyan (National Nutrition Mission), Department of Women and Child Care, Govt. of Haryana, on board of Institutional ethics and biosafety committees, Life Member of Indian Red Cross Society, Haryana, Founder Member of Friends' Club, Advisor and Life Member of Haryana Welfare Society For Persons With Speech And Hearing Impairment, Haryana and intermittently served as a Consultant to Indian start-ups in the related technology field.

Vision for NBA: To strengthen the NBA-Scientist connect and promote the mutual interests of the Authority and the scientific community of the country