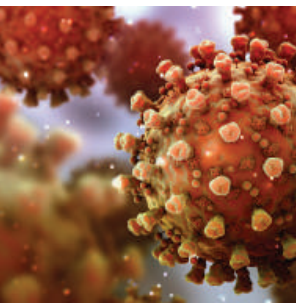
Keynote Forum
December 15, 2021

Biotechnology 2021





3rd World Congress on

Advances in Biotechnology

December 15, 2021 | Webinar

Aliasgar Shahiwala

Dubai Pharmacy College for Girls, Dubai

Nano biotechnology and personalized medicine

The future drug market will be more towards personalized medicine. This requires manipulation of the medicine characteristics at nanoscale to determine its fate in biological system. This has given birth to the field of Nano biotechnology. This talk highlights the definition and scope of personalized medicine and describes how various Nano biotechnologies can contribute to its development. Some of the recent developments in this field will also be discussed.

Speaker Biography

Aliasgar Shahiwala is currently serving as a professor in the department of pharmaceutics and program director-postgraduate studies at Dubai Pharmacy College for girls. Prof. Shahiwala received his masters and a doctorate in pharmaceutics and pharmaceutical technology from the maharaja Sayajirao University of Baroda, India with high research output in the area of novel drug delivery. His postdoctoral research at north-eastern university, USA was specifically focused on applications of nanotechnology in the field of drug delivery and drug targeting. Prof. Shahiwala published several international publications in high-impact peer-reviewed journals, book chapters and filed 2 patents. He is also an editor of five books with internationally renowned publishers.

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Shakira Ghazanfar

Senior Scientific Officer, Pakistan

Impact of buffalo gut associated Pediococcus pentosaceus SPARC2 on growth performance and gut microbiota of tilapia fish (Oreochromis niloticus)

A gut associated probiotic bacterium plays an important role in animal health and production performance. The aim of the present study was to determination the impact of the *Pediococcus pentosaceus* SPARC2 in growth performance blood profile of fish. Buffalo gut isolated and whole genome sequenced based identified (accession number JAHQJK000000000) *Pediococcus pentosaceus* SPARC2 was used for the preparation of the lab probiotic feed for fish. Tilapia fish (Oreochromis niloticus) was used for the *in vivo* feeding trails. The results showed that the body weight of the fish in probiotic fed group was significantly ($p<0.05$) improved after feeding the *Pediococcus pentosaceus* SPARC2 supplementation (1×109 CFU/g) for 90 days. The feed conversion ratio of probiotic fed group showed better (2.85±0.05) results as compared to the control group (3.18±0.76). The *Pediococcus pentosaceus* SPARC2 supplementation significantly ($p<0.05$) improved meat quality in term of crude protein and fats contents. Our results showed that based upon the animal gut isolated *Pediococcus pentosaceus* SPARC2, it could be used as a target-based probiotic in animal feed to improve the growth performance of fish.

Speaker Biography

Shakira Ghazanfar got her Ph. D. degree in Microbiology/ Probiotic Specialists. She is working as Senior Scientific Officer, Functional Genomics and Bioinformatics, National Agricultural Research Centre, Pakistan since 2010. She was regarded among the pioneers, who have initiated animal probiotic product preparation work based on research to improve livestock productivity in Pakistan by using local isolated microbial strains. She worked on various projects related to the improve livestock productivity based on probiotic. She is an active researcher and produced many publications in well reputed journals and conferences and published many research papers and book chapters and engaged in research supervising multiple students at PhD, Graduate and Under-graduate level.

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