

Euro Congress on **BIOTECHNOLOGY**

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International Conference on **GENOMICS AND MOLECULAR BIOLOGY**

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### Kampon Sriwatanakul

Vita Stem Co.Ltd, Thailand

#### Biography

Kampon Sriwatanakul is the president of Vita Stem Co.Ltd. Bangkok and an internationally recognized pioneer of stem cell therapy. He is currently engaged in research and development projects related to the application of mesenchymal stem cell in the anti-aging and regenerative medicine.

[drsrikul@gmail.com](mailto:drsrikul@gmail.com)

### INNOVATIVE PRODUCTS DERIVED FROM PROBIOTICS AND NANOTECHNOLOGY

Probiotics are microbial strains that have been proved to be highly beneficial for restoring the composition of the gut's microbiome and provide beneficial functions to gut microbial communities, leading to amelioration or prevention of gut inflammation and various intestinal and systemic diseases. The human body consists of trillions of microbes, mostly within the small intestine and colon. Most probiotic products currently available are developed with several strains of microbes including *Lactobacillus*, *Bifidobacterium*, *Lactococci*, *Streptococci*, *Bacillus Escherichiae*, *Propionibacterium* and *Saccharomyces*. Our group is developing probiotic products for the treatments of diabetes, metabolic syndrome, autoimmune and inflammatory conditions. This presentation will report on some pilot studies being performed on diabetes and irritable bowel syndrome. Developing adequate food delivering matrix and probiotic formulations using nanotechnology will also be addressed. Nanotechnology involves research and technology development at the 1-100 nm range and will be used to increase survival of the probiotics in the stomach; deliver and co deliver of pre and probiotics to the colon and improve survival during technological processing and storage.

