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## Ayurinformatics approach for Drug Discovery: An *in-silico* docking of *Tridax Procumbens* flavonoids against *Zika Flavivirus* (ZIKV)

King Solomon Ebenezer

Bioscience Research Foundation, India

In modernized world of science, the paradigm shift is necessary for the Siddha, Ayurvedha practitioners to know the interactions and treat efficiently the target regions of human system. Recently, one of the most important nightmares for the scientist and medical practitioners is zika virus. Because, globally peoples were infected with Zika virus (Flavivirus) by *Aedes* mosquito species bite. The zika virus interactions with human system and control of viruses were still unknown. Moreover, some herbal product may give a path to treat zika virus. Several herbs controlling various diseases but the herb *Tridax Procumbens* has a wide range of therapeutic values for viral disease. Traditional medicinal practitioner were struggling to know the exact mechanism of binding nature and how to cure the disease, so this new approach Ayurinformatics an emerging area gives an idea for modern system of medicine. Here we are focus the interaction of flavonoids procumbenetin and esculetin of *Tridax Procumbens* with zika virus through *in-silico* docking. This is the first report that interaction of *Tridax Procumbens* flavonoids for zika virus.

### Biography

King Solomon Ebenezer has completed his PhD at the age of 29 years from Bharathidasan University, India and postdoctoral studies from Aravind Medical Research Foundation, India. He is the senior scientist in R&D unit of a leading contract research organization 'Bioscience Research Foundation', Chennai, Tamilnadu, India. He conducting Good Laboratory Practices (GLP) regulatory toxicology researches and exploring herbal drug discovery (phytomedicine) to cure chronic viral diseases for the safety of human public health issues. He has published more than 30 papers in peer review reputed journals. He has been actively involved in educating the public about infectious viral disease, toxicology, particularly at universities and schools. He has delivered lectures on this subject at national, international conferences and invited frequently as a chief guest for schools and colleges. And he has been serving as an editorial board member of several reputed peer review international journals and member for several science forums and also institutional animal ethical committee member (IAEC).

solu.king@gmail.com