

**Report on Skill Development Programme on “Application of Zebrafish as Vertebrate Model for Biological Studies”**

13<sup>th</sup> – 23<sup>rd</sup> August 2019

A Skill Development Programme on “Application of Zebrafish as Vertebrate Model for Biological Studies” was organised during 13<sup>th</sup> – 23<sup>rd</sup> August 2019 at FGB Division, ICAR-CIFE. The program was organised under the overall guidance of Dr Gopal Krishna, Director/Vice Chancellor. Dr Aparna Chaudhari, Head FGB Division was the Course Director and Dr N. S. Nagpure and Dr Mujahidkhan A. Pathan acted as the coordinators. A total of five participants from Sophia College, Mumbai, V.G. Vaze College, Mumbai and Bombay College of Pharmacy, attended the training program. All the participants have been using zebrafish as a research model for their research work. During the training the participants were apprised about zebrafish husbandry, water quality management and breeding followed by stages of embryogenesis and early development; assessment of toxicity of nanoparticles to zebrafish embryos, synthesis of nanoparticles, determination of LC<sub>50</sub> and genotoxicity assays. Participants were imparted hands on training in microinjection of a plasmid construct, quantification of RNA and DNA, real time PCR, cell culture and transfection studies. A training manual was prepared. A post training evaluation was also conducted and the participants performed extremely well. The participants expressed full satisfaction with the training program and found the techniques useful for their research work.

