Technology for Fish Vaccines against Bacterial Diseases, Edwardsillosis and Columnaris

ICAR-CIFE has transferred the technologies of two fish vaccines developed against two major bacterial diseases, Columnaris caused by *Flavobacterium columnare* and Edwardsillosis caused by *Edwardsiella tarda* to Indian Immunological Private Limited (IIL), Hyderabad, who will develop commercial-scale vaccines for use in fresh water fish. These two vaccines are inactivated vaccines which will protect fish from these bacterial diseases. The technologies were transferred in a non-exclusive mode. This is the first fish vaccine technology for bacterial diseases transferred by an ICAR institute to the industry. Dr. C.N. Ravishankar, Director, ICAR-CIFE, signed MoA with Dr. K Anand Kumar, Managing Director, IIL, Hyderabad on 28th November 2022 in the presence of Dr. N P Sahu, Joint Director, Inventors, co-inventors, Chairperson, ITMU and other officials of ICAR-CIFE and IIL, Hyderabad.

Inventors of the technology are Dr. Megha Kadam Bedekar (Principal Scientist, AEHM Division CIFE), Dr. Rajendran KV (Principal Scientist & Head, AEHM Division, CIFE), Dr. Kundan Kumar (Senior Scientist), Dr. Saurav Kumar (Scientist), Mrs. Puja Vinde (SRF), Dr. Gopal Krishna (Former Director, ICAR- CIFE) and Dr. Gaurav Rathore (Principal Scientist & Head of Division, ICAR-NBFGR, Lucknow). ICAR-CIFE acknowledges funding provided by ICAR Consortium Research Platform on Vaccines and Diagnostics.

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