

Technologies transferred / launched during 2003-2005

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Title of the technology	Institute where developed	Technology transferred to
Mycorrhiza biofertilizer mass	TERI, New Delhi	M/s SHEEL Bio-tech, New Delhi
production technology		
Technology for production of high	CFTRI, Mysore	
protein biscuits		
A polyclonal antibody-based	1. Centre for Biotechnology,	Poseidon Biotech, Chennai- an
immunodiagnostic	Anna University and 2. C. Abdul	aquaculture-based company.
assay for the detection of white	Hakeem College,	
spot syndrome virus - a simple	Melvishram	
diagnostic test kit		
The technology for	NEERI, Nagpur	The pilot plant commissionedat
biological deodorization of gaseous		Jubilant Organosys Ltd., Gajraula.
effluents has been demonstrated		
at pilot plant level.		
DNA/MVA based HIV-I Subtype	AIIMS, New Delhi	Under negotiation for transfer to
'C' candidate vaccine		PanaceaBiotec Ltd., New Delhi
Farmer level monoclonal antibody	College of Fisheries, UAS Mangalore	Being transferred to GenexBiotech, G
based kit for the detection of white		forcommercialization.
spot shrimp virus		
Microbial desulphurisation of	NEERI, Nagpur	Vam Organics Chemical Ltd.,UP
fossil fuels and biogas		
Technologies for nutritional	CFTRI, Mysore	Suresh Exports, Bangalore;Mysore
enrichment – A large-scale		Chikbidarkal Farms, Bangalore;
production of oyster mushrooms		Growtech Agro (I) Ltd.,Hyderabad;
		KarnatakaHorticulture Dept.,
		Mysore;GAMS & Sons Industries,
		Burdwan, West Bengal;Mizoram
		Mushroom ProductionUnit, Mizoram;
		MushroomCanning Unit, Ahmednaga
Technologies for nutritional	CFTRI, Mysore	Best Bilt Bio-techMysore Ltd.,
enrichment – Spirulina as		Nanjangud; ShamalAgrotech Pvt Ltd
nutrient supplement		Jalgaon;Wonder Herbs Pvt. Ltd., Bho
Tissue culture protocol of	Kerala Agricultural University,	Growmore Biotech, Hosur
black pepper	Thrissur	
Technology /Processes for the	NII, New Delhi	Panacea Biotech Ltd., New Delhi Lalr
production of tissue culture derived,		Punjab
formalin inactivatedJapanese		
Encephalitiscandidate vaccine		
An ELISA test system to detect JEV	Jointly by NIMHANS, Bangalore; KGMC,	M/s XCyton Diagnostics Ltd.,Bangalo
IgM antibodies in CSF of patients	Lucknow and NII, New Delhi	
Multi-epitope protein-based	ICGEB	Tulip Group of Cos.,
HCV detection		
Biopesticidal formulation	ICGEB	Nirmal Organo Biotech

Technology transfer

Mass production technologies of several biocontrol agents/biopesticides have been developed and standardized. Fermentation based mass production technology of Trichoderma viride, has been transferred to Prathista Industries Ltd in Nalgonda, Andhra Pradesh. Myrothecium verrucaria, a potential biopesiticides developed through a collaborative project implemented at NCL, Pune and RRL, Jammu is being up scaled and fine tuned for commercialization. The toxicological data is being generated and negotiations are being made for the technology transfer to the industry.

The commercial viability of Beauvaria bassiana and Verticilium lecanii as a potential biopesticides against tea pest is being pursued at AAU, Assam. Mechanized system for mass production/ rearing has been developed for Trichogramma and Cocyra cephaoinca at IARI, New Delhi and technology is ready for transfer. At AMU, Aligarh, the powder formulation of Trichoderma harzaniam, Pochonia clamidosporia, Pseudomonas fluorescence have been developed, field-tested and techno-economic feasibility has been established. The culture protocols for large-scale production of the algae Dunaliella salina and D. bardawil have been developed and methods have been standardized for isolation of stable and high quality b-carotene. The protocol is ready for transfer to the

industry.

Food Biotechnology

AIIMS, New Delhi; NDRI Karnal; RRL Jammu; CFTRI, Mysore; and ITRC Lucknow are developing rapid PCR diagnostic kits for the detection of various food borne pathogens like E. coli, Salmonella and Shigella spp. At CFTRI, Mysore, efforts are on for the technology transfer of high protein biscuits containing 14 percent protein with high protein digestibility. The validation of PCR and ELISA assays developed to detect transgenic traits in genetically modified foods is being carried out in five research laboratories and the process for production of astaxanthin from green alga Haematococcus pluvialis has been perfected.

This is just a representative snapshot of the research activity is happening in the Indian public laboratories. With the right thrust, regulatory and policy support and infrastructure facilities the number of technologies emerging from the Indian labs could increase multifold and the resulting products would have a lasting impact on the people.

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