BioSpectrum the business of Bio & Health Sciences

Technologies transferred / launched during 2003-2005

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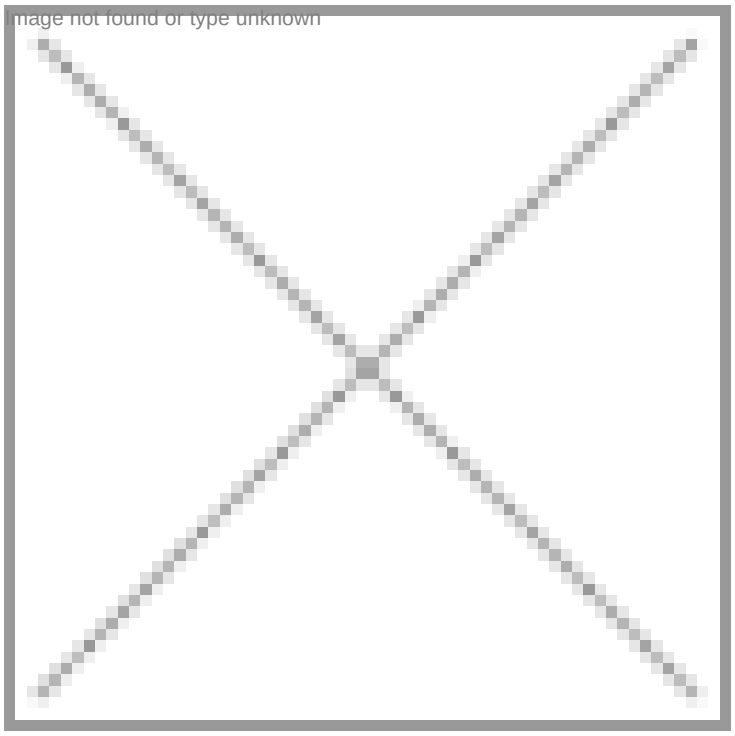

Technologies transferred / launched during 2003-2005

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

Rolly Dureha