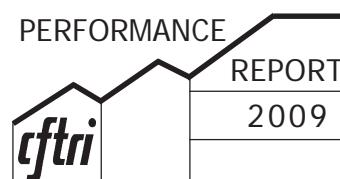


CONSULTANCY ASSIGNMENTS

Forty four projects were undertaken during the period, out of these, Thirty five were completed and nine are in progress.

Completed Assignments

- Consultancy assistance on shelf life studies on ready to drink tea
- Bioefficacy studies of 0.005% metofluthrin mosquito coil
- Detailed project report on (DPR) for handling and packaging of banana (20 MT/ day) by the banana producers of the Darangiri area of Goalpara district of Assam
- Studies on evaluation of carbohydrates in selected processed cereals, legume and their products
- Bioefficacy and persistence of three aerosol formulations against three flying insects and two crawling insects on four surfaces for four weeks
- Consultancy assistance for evaluation of polypropylene home polymer grade HO34SG as per USFDA and BIS for food contact applications
- Technical assistance for implementation of the process for production of rice with low carbohydrate digestibility
- Consultancy assistance on global migration studies for one grade of PET bottle as per USFDA and BIS for food contact applications
- Evaluation of RIL grades of polyolefins (polyethylene & polypropylene) films / moulded articles for food contact applications
- Shelf-life studies on green tea samples
- Global migration studies for four different grades of pet bottles for food contact applications
- Demonstration of decaffeination enzyme in tea and coffee
- Shelf-life studies on confectionery products
- Bioefficacy and persistence of cheapie crawlle aerosol against cockroaches *Periplaneta americana* and *Blatella germanica*
- Consultancy assistance on maintenance of quality of wheat and milled wheat products
- Shelf-life studies on candy samples



- Bioefficacy of five aerosol formulations against cockroaches (*Periplaneta americana* and *Blattella germanica*), mosquitoes (*Aedes aegypti* and *Culex quinquefasciatus*)
- Bioefficacy and persistence of all insect killers (dual sample) against cockroaches (*Periplaneta americana* and *Blattella germanica*) mosquitoes (*Aedes aegypti* and *Culex quinquefasciatus*)
- Bioefficacy of X-PEL aerosol and ACI aerosol against cockroaches (*Periplaneta americana*, *Blattella germanica*) mosquitoes (*Aedes aegypti* and *Culex quinquefasciatus*) and houseflies (*Musa domestica*)
- Advisory assistance in the commercialization of value added products from lower grade cashew
- Bioefficacy and persistence of three aerosol formulations against three flying insects on four surfaces for 8 weeks
- Consultancy assistance on quality evaluation of biscuits
- Bioefficacy of mosquito coils against *Culex quinquefasciatus* and *Aedes aegypti* at different time points and bioefficacy of gel formulation against cockroaches *Blattella germanica* and *Periplaneta americana*
- Study of technical procedures in processing of crab meat
- Consultancy assistance on quality evaluation of biscuits
- Consultancy assistance in determining the shelf-life of nutritive food samples
- Technical consultancy assistance on global migration studies for three different grades of pet bottles for food contact applications
- Consultancy assistance for validation studies of retorts
- Consultancy assistance for evaluation of polyester films as per USFDA 177.1630 in contact with aqueous, alcoholic and fatty foods
- Consultancy assistance on maintenance of wheat and milled wheat products
- Technical consultancy assistance on global migration studies for one grade of pet bottle for food contact applications
- Bioefficacy and persistence of roach gels (fipronil 0.05% and imidacloprid 2.15%) against cockroaches *Periplaneta americana* and *Blattella germanica*
- Consultancy assistance for extraction of thymoquinone from black cumin seeds (*Nigella sativa L.*) by super critical CO₂ extraction

- Evaluation of protein powder samples
- Shelf-life evaluation of flavoured tea

Assignments in Progress

- Shelf-life evaluation of herbal green tea samples in tea bags
- Consultancy assistance on quality evaluation of biscuits
- Standardization of shelf-stable sugarcane juice concentrate in glass bottles at pilot plant level as well as few commercial trials
- Consultancy assistance on global migration studies on polyester films and metallized paper for aqueous, alcoholic and fatty foods contact applications
- Organoleptic evaluation of sucralose
- Bioefficacy of transfluthrin based mosquito repellent and bioefficacy and persistence of three aerosols against mosquitoes and houseflies
- Bioefficacy of metofluthrin based on prallethrin based mosquito repellent liquid vaporisers against two species of mosquitoes
- Consultancy assistance on evaluation of wheat and milled wheat products
- Sensory evaluation of few rice varieties milled to different degree of polish



SPONSORED RESEARCH PROJECTS

Nine sponsored research projects were underway during the period. Out of these, two projects were completed and seven are in progress as shown below:

Completed Assignments

- Processing of rice to lower its carbohydrate digestibility
- Studies on corrosion and leaching of iron, chromium, nickel and copper in different food products when cooked in stainless steel containers

Assignments in progress

- Development of value added products from palash (*Butea monosperma*)
- Studies on roasting of lower grade cashew kernels
- Development of know-how for preparation of cereal and cashew nut based breakfast cereals
- Development of high content fructooligosaccharides (FOS), a prebiotic nutraceutical
- Convenience foods in the form of extruded snacks and instant soup mix based on pulses
- Studies on characterization of peptides obtained from protein hydrolysates
- Continuous production of fermented dry *dosa* and *idli* mix

Dr. M.D. Nair, Former Vice President, R&D, SPIC and former member, CFTRI Research Council, inaugurating the National Technology Day celebration on May 11, 2008 at CFTRI. Other dignitaries: (from left) Dr. G. Venkateswara Rao, Head, Flour Milling, Baking & Confectionery Technology; Dr. V. Prakash, Director, CFTRI and Shri T.R. Prabhu, Head, Technology Transfer & Business Development Department

