



EU - India S&T Cooperation Days

Research lines

Session 1

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SEVENTH FRAMEWORK
PROGRAMME

Researcher name	Suggested research line
K. Kolstad	Balanced breeding and biodiversity
N. B. Sarin	Biotechnological approaches to enhancing heat, drought and ozone tolerance in plants for sustainable agriculture
R. Saravanane	Climate change and Energy perspectives – offshore Algae Cultivation
Rakesh Bhatnagar	Development of DNA vaccine against rabies
Rameshwar Singh	Development of functional dairy foods using health promoting herbs and other functional ingredients
R. Saravanane	Development of Hydrogen Production Technology from Renewable Industrial Waste Streams
Rakesh Bhatnagar	Development of improved anthrax vaccine

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Researcher name	Suggested research line
N. B. Sarin	Development of pest and disease resistant plants using biotechnological approaches for sustainable agriculture.
RS. Chauhan	Immunomodulation
N. B. Sarin	Mass propagation of economically important, recalcitrant crop/horticultural/medicinal plants
Rameshwar Singh	Molecular typing of casein genes in indigenous breeds of cattle and buffalo to explore their health promoting attributes
R. Saravanane	Pharmaceutical wastes Treatment and micro pollutants removal from water and wastewaters for sustainable water resource
D. Breviario	Plant and tree architecture, plant cell elongation
Rakesh Bhatnagar	Programmed cell death in bacteria

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Researcher name	Suggested research line
D. Breviario	Plant and tree architecture, plant cell elongation
Rakesh Bhatnagar	Programmed cell death in bacteria
K. Kolstad	Selection and breeding for Robust, Adapted, healthy animals
K. Kolstad	Socio-economic research including IPR
P. Hazra	Sustainable production and management of genetic resources of vegetable crops, Introgression of resistance against biotic and abiotic stresses through both conventional breeding and biotechnology, enhancement of nutritional quality of the produce, Environmental Biotechnology and bioremediation
Raj K. Bhatnagar	Vector Biology for disease transmittance Genome sequencing of Anopheles vector



Discussion of research lines identified so far

Plant sciences

- Improving understanding of plant growth at a molecular level and how it might be influenced by environmental factors
- Co-generation of bio-energies (bio-fuels, bio-gas) from plant and waste biomass (2nd generation) and from solar energy (algae, cyanobacteria; 3rd generation)
- Plant resistance to abiotic stress

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Animal health/production

- Development of sustainable aquaculture production taking into account welfare, ethics and acceptability aspects
- Development of tools for the sustainable control of parasitic conditions (incl. of poultry and ruminants)
- New generation vaccines for major infectious diseases of livestock
- Insect vector – pathogen interactions (viruses and parasites)
- Maintaining and exploiting genetic resources of animals for present and sustainable future production (incl. fish)
- Novel alternatives to anti-biotics (incl. exploiting programmed cell death of bacteria and immunomodulators)

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