



VIT
UNIVERSITY
(Estd. via 3 of UGC Act 1956)

Hands-on Training on PCR-RFLP Based Bacterial Ribotyping

September 3-5, 2010

Concept:

The approach of bacterial molecular typing by targeting the rRNA genes and their spacer region is at its peak, among the interests of molecular microbiology research beginners in India. This training will bring confidence, know-how knowledge, reasoning and troubleshooting abilities in performing molecular characterization of any number of strains, isolates and species of bacteria by the individual trainee themselves, which would help them in their present and future research.

Highlights of the programme:

- No lectures.
- Trainees will perform the experiments individually with cent-percent guidance and assistance by faculty.
- On-spot trouble shooting, reasoning and interpretation of results.
- Theoretical part will be taught through informal discussion in the lab, while performing the experiments.
- More emphasis on "Why" and "Why not", than "How" and "What".
- The most interactive trainee will be rewarded.

Beneficiaries: Students, Scholars, Teachers & Research beginners

Participants: 50

Registration Fee: 1000 INR

Organized by
School of Bio Sciences and Technology
VIT University, Vellore 632014, Tamil Nadu, India.

www.vit.ac.in

VIT- A place to learn; A chance to grow

PROGRAMME DETAILS

Day (-1):

Plating of bacterial cultures (will be done by us).

Day (1):

Inauguration.

Session I: Introductory notes for fault-less and tidy execution of experiments and handling tips.

Session II: Colony PCR amplification of rRNA genes from different food borne bacterial species using universal primers.

Session III: Gel analysis of the PCR products, interpretation and excision.

Day (2):

Session IV: Elution of PCR products from gel and cleaning up of DNA.

Session V: Quantification and analysis of eluted DNA.

Session VI: Restriction digestion of the DNA (double digestion).

Day (3):

Session VII: Gel analysis of restriction fragments and documentation of rRNA gene and ITS region polymorphism. Comparative typing of bacteria at genus and species level.

Session VIII: Hands-on training on designing of universal primers and primer sequence editing.

Session IX: Quiz.

Valedictory.

Registration details: Demand Draft for Rs. 1000/- drawn in favor of VIT University, Vellore payable at Vellore. DD should be accompanied by a cover letter with full name, affiliation, complete contact details of the applicant and a brief note on how this training would be useful in their research.

Training kit, lunch and refreshment will be provided.

Accommodation: Contact us, for details.

Last date for registration: August 16, 2010.

ORGANIZING COMMITTEE

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Organizing Faculty

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Dr. Asit Ranjan Ghosh

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Walk-in as trainee; Walk-off as scientist