

Samina Anwar

Present status: Junior Scientist

Academic record:

M. Sc. University Of Agriculture, 2001, *Chemistry Ist division.*

B. Sc. University of the Punjab, Lahore,
1998, *Botany, Chemistry, Geography*
1stdivision.

Research experience:

Three years research experience as trainee research fellow in field of biotechnology at NIBGE. I am doing research work on biodegradation or bioremediation of pesticide contaminants. I have isolated bacterial strains capable of degrading six pesticides belonging to different chemical classes. Using a bacterial strain belonging to bacillus species capable of utilizing chlorpyrifos, an organophosphate pesticide, degradation under different environmental conditions like minimal salt media, temperature, pH, effect of nutrients in is being studied.

M.Sc Thesis summary

Quantitative determination of heavy metals like lead, cadmium, chromium and nickel was done in Environmental Tobacco Smoke (ETS). Since ETS is casually linked with a number of health effects in smokers as well as non-smokers. Heavy metals present in ETS and smoked filters were determined by atomic absorption spectrometry. Heavy metals were found in both samples suggesting that some part of heavy metals also get absorbed in foamy filters and ETS also contains considerable amount of heavy metals.

Technical skills:

Well versed with some modern molecular and analytical techniques e.g. High Performance Liquid Chromatography (HPLC), isolation and enrichments of

bacterial cultures, molecular Biology Techniques viz DNA extraction, PCR amplification and RT-PCR, Phase Contrast Microscopy, UV-Visible Single/Double Beam Spectrophotometers and Flame Photometer etc.

Training Course

National training courses on “Molecular detection of RNA viruses” a practical and theoretical approach at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan.

Poster presentation

One poster presented in “Microbial Technologies for Sustainable Agriculture, an International Symposium” March 12-16, 2007, pp: 102.