

# Molecular Biology Course in ITB

Jan. 14 (Mon) – 18 (Fri), 2013



## ➤ Aim

This course aims at acquiring knowledge and hands on experience of Reverse Transcription - Polymerase Chain Reaction (RT-PCR), which is widely used in the field of molecular biology. You will have a chance to practice and design your own research project.

## ➤ Contents

You will investigate the effects of electrophiles present in foods and chemicals in the environment. The expression of Nrf2 target genes will be evaluated by RT-PCR. Lectures will be provided by professors for you to understand the scientific background and to help you develop presentation skills.

1. Various stimulants will be exposed to cells. The mRNA will be extracted from the cells and RT reaction and PCR will be performed.
2. After obtaining the results, each group will discuss and design additional experiments.
3. Finally, each group will prepare Power Point slides to share their experiences in the form of a presentation.