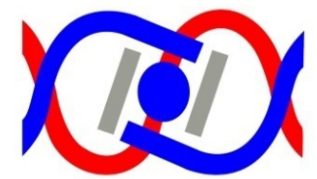
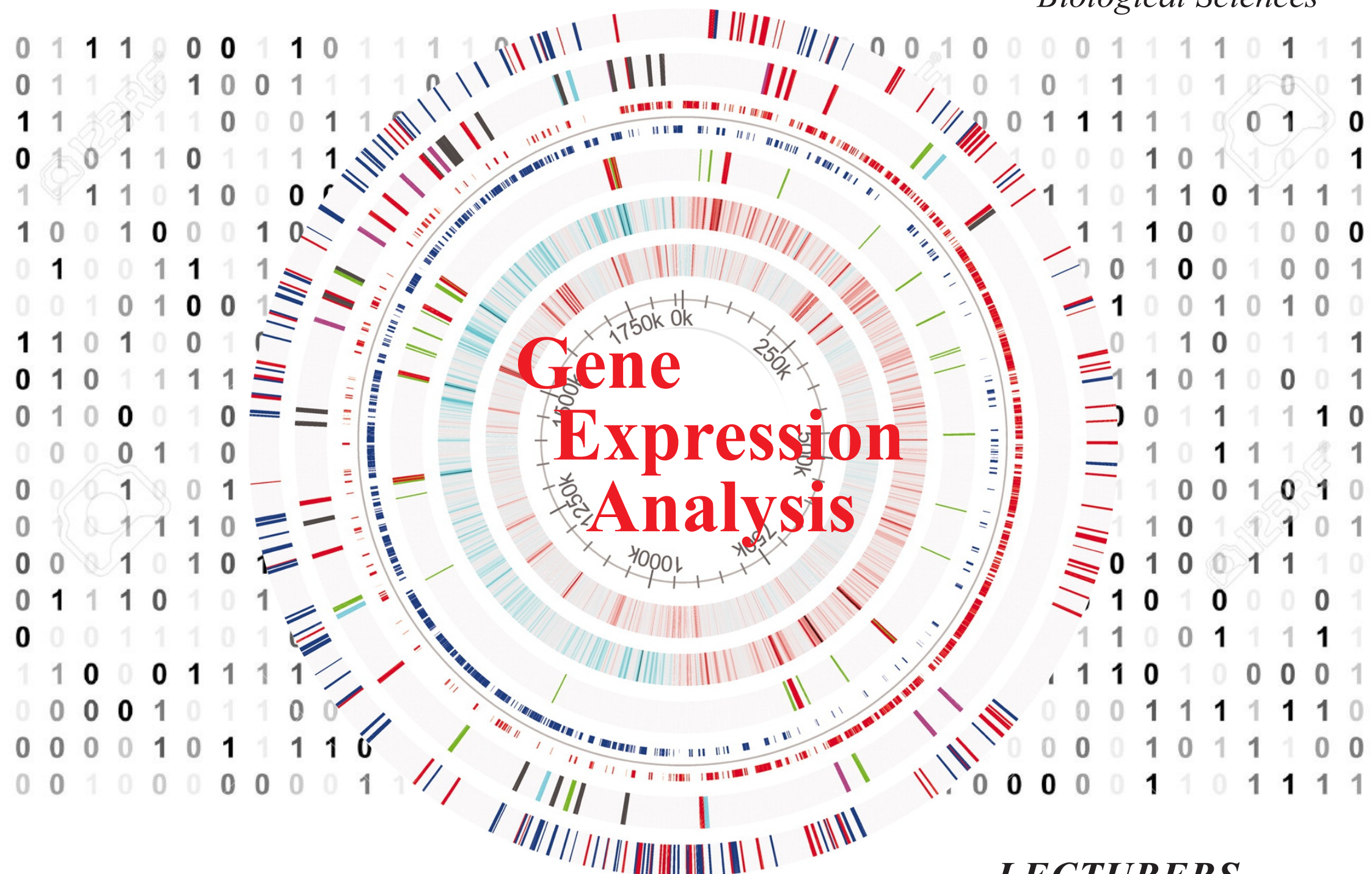


2015 *summer* *school in* *Bioinformatics*

School of Biological Sciences, IPM
Tehran, IRAN . 19 - 22 Sep, 2015



School of
Biological Sciences



REGISTRATION

bs.ipm.ac.ir

TOPICS

- Introduction to MATLAB programming (practical)
- Introduction to expression data and network analysis (practical)
- Cytoscape (practical)
- Understanding of systems biology (theory)
- RNA-Seq analysis in Prokaryotes and Eukaryotes (practical)
- Small RNA-Seq analysis (practical)
- Pathway analysis by Gene Set Enrichment approach and Gene Ontology network analysis (practical)
- Data mining in functional genomics: application of Knowledge discovery, Biosignature, modelling and prediction (theory)
- How to prepare different datasets of protein, SNP, Prosite, nucleotide and transcription factor (practical)
- Attribute weighting models and combination with multivariate analysis (practical)
- Predictive models (Decision trees and association rule mining) (practical)
- Comparative Genomics – A brief Introduction (theory)
- Genome wide association analysis (GWAS) and SNP discovery (practical)
- Variant selection based on amino acids changes, GO analysis, and transcriptomics changes (practical)

LECTURERS

Dr. Esmail Ebrahimie
Dr. Pegah Khosravi
Dr. Elnaz Saberi Ansari
Dr. Yazdan Asgari