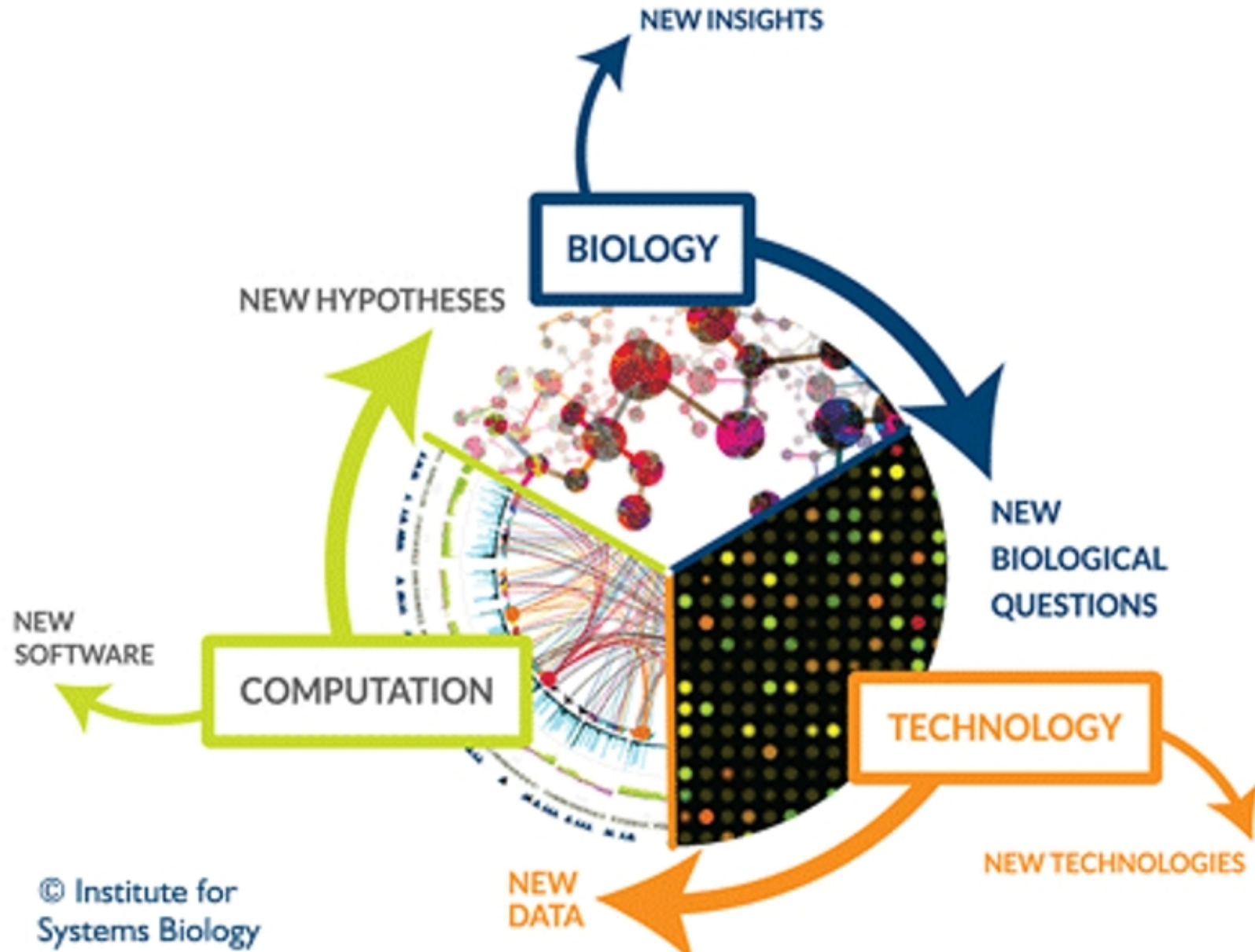




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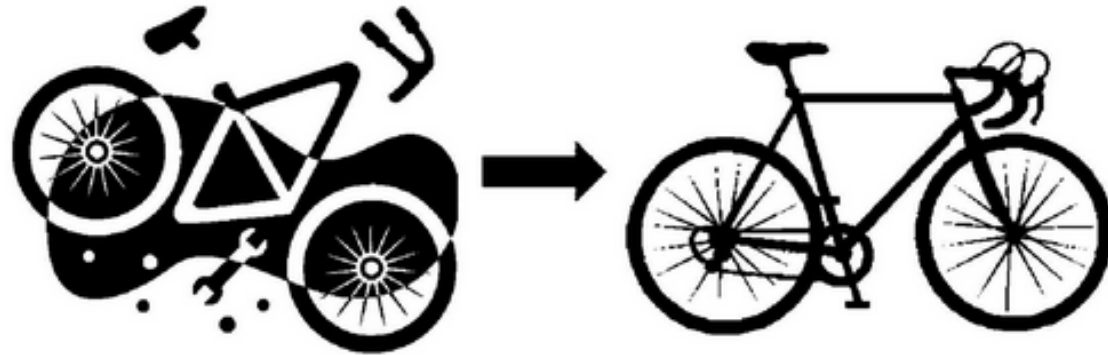
corso di laurea magistrale
**Biotechnologie
mediche e farmaceutiche**



© Institute for
Systems Biology

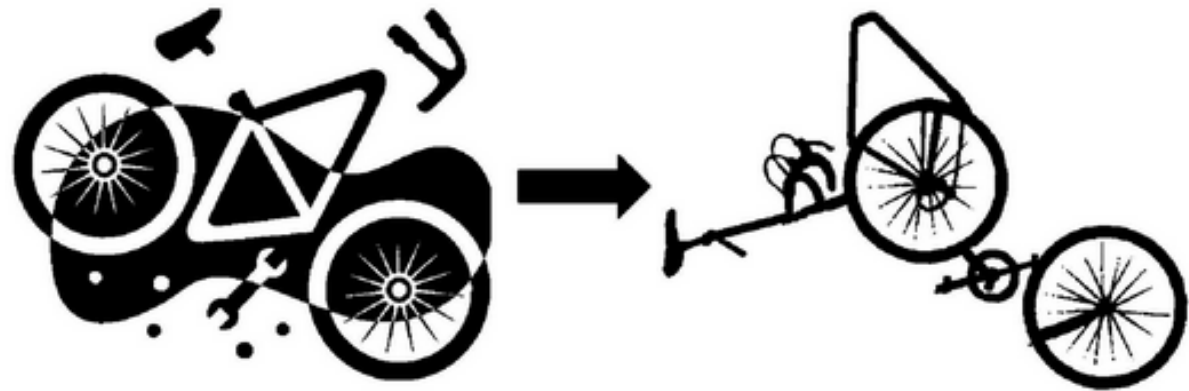


Reductionism

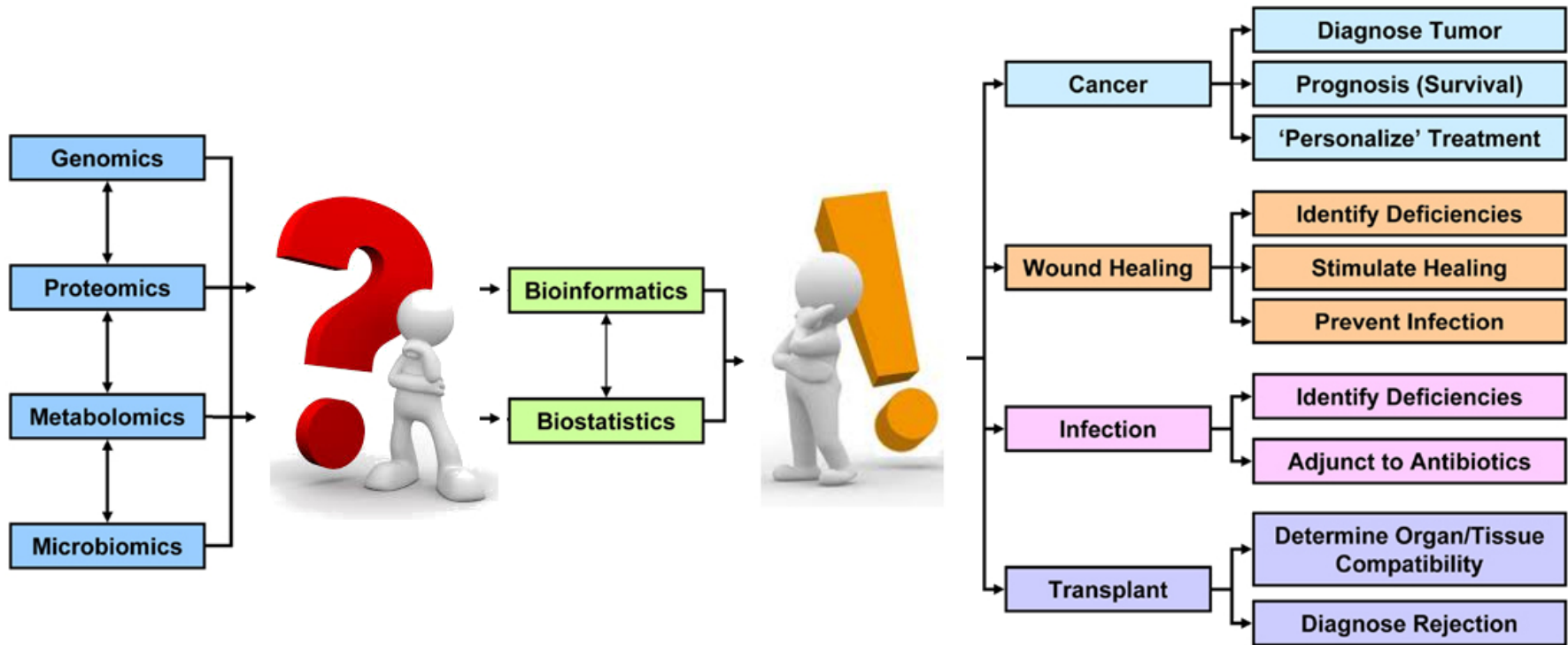


Sum of the parts equals the whole

Holism



Can't reduce the parts and retain
the meaning of the whole



A biotechnologist needs to improve skills in:

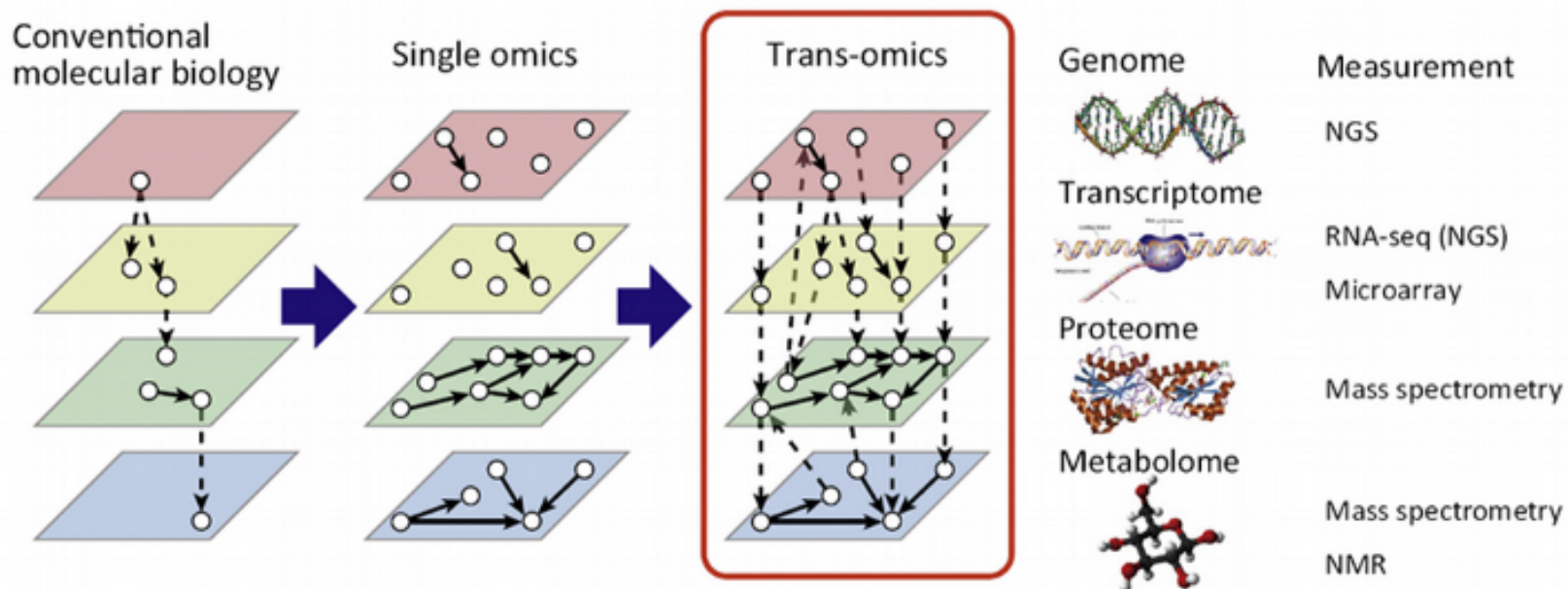
- -omics technologies
- statistics (univariate, multivariate)
- bioinformatics
- computer programming



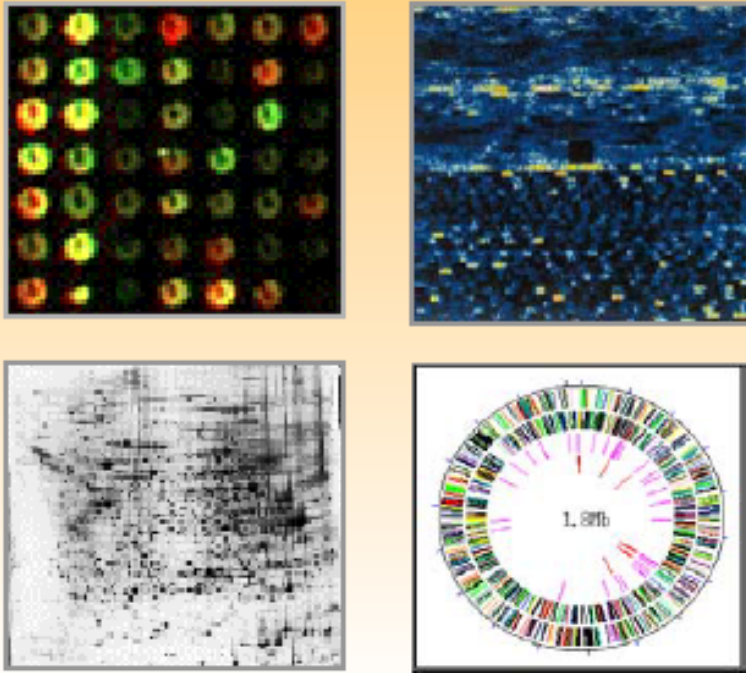
Biotechnologie Informatiche e BigData in Biomedicina

(15 CFU)

- Tecniche di Biochimica Strutturale e Cellulare (Chiti, Giannoni)
- Proteomica e Trascrittomica Computazionale con Laboratorio (Ramazzotti)
- Genomica Computazionale con Laboratorio (Magi, Giusti)
- Tecnologie Metabolomiche con Laboratorio (Gori, Tenori)



High Throughput Data



Cellular Complexity

