



# Introduction Bioinformatics Module

Susan Steinbusch-Coort, PhD

Dept. Bioinformatics-BiGCaT, NUTRIM, Maastricht University  
[susan.coort@maastrichtuniversity.nl](mailto:susan.coort@maastrichtuniversity.nl)

# Department Bioinformatics (BiGCaT) @ Maastricht University

Head of the Bioinformatics-BiGCaT department  
Prof. dr. Chris Evelo



Assistant professors

Dr. Susan Steinbusch-Coort  
Dr. Lars Eijssen  
Dr. Egon Willighagen



# Department Bioinformatics @ Maastricht University

- Website: [www.bigcat.maastrichtuniversity.nl](http://www.bigcat.maastrichtuniversity.nl)
- Main research areas
  - High-throughput data analysis (e.g. Microarray, sequencing, proteomics, metabolomics)
  - Pathway analysis
  - Network analysis
  - Tool development (e.g. arrayanalysis.org, PathVisio, WikiPathways.org, Cytoscape apps).
  - Nanotoxicity (ontology development, data analysis)
  - Micronutrients (data analysis/vitaminD/vitaminA)

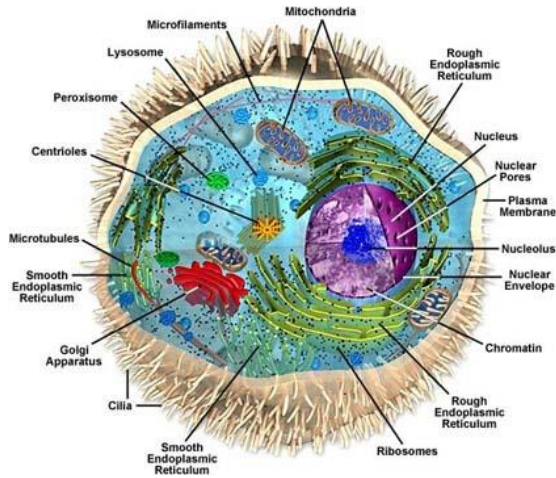
# What is Bioinformatics?

*Movie Intro-Bioinformatics*

Bioinformatics needed to analyse  
biology and medicine

# What is Bioinformatics

## Biology



## Bioinformatics



## Computational Sciences

# Bioinformatics is important

The *goal* of Bioinformatics is *to increase understanding of biological systems* using computationally intensive techniques and large databases with biological information.

