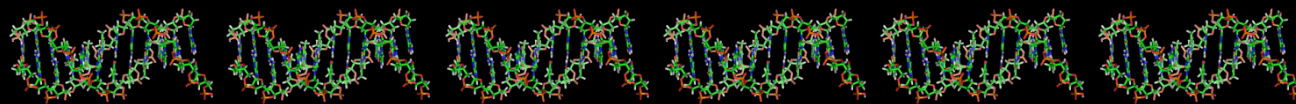
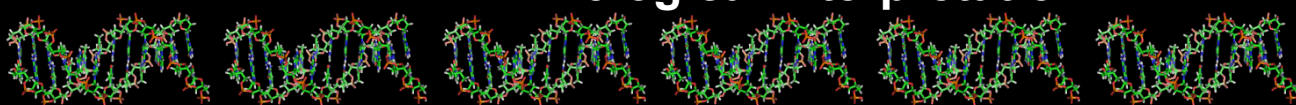


# RNA-seq Workshop Düsseldorf 2012

23<sup>rd</sup> to 25<sup>th</sup> of May  
for PhD students and postdocs



**Basics**  
**Experimental Design**  
**Assembly**  
**Gene expression**  
**Biological Interpretation**



## HandsOn in ComputerLab

**Basics** Unix, Perl and R basics for complete beginners

### Experimental Design

**Assembly** formatting reads, de novo assembly for model and non-model species, annotation, assembly quality controls, interpretation

**gene expression** read mapping, SNP calling, differential splicing, re-sequencing, statistical evaluation of results

**Biological interpretation of data** Unix, command line tools, JAVA based tools, using KEGG, using GO, using publicly available information

## Lectures

Eric Schranz: Genome assembly

Udo Gowik: RNA-seq in plants

Wolfgang Kaisers: R bases analysis

Alice McHardy: Metagenomics

Björn Usadel: The robin platform

CLC: A commercial analysis platform

Korbinian Schneeberger: Mapping mutations by sequencing

Jens Georg: RNA-seq in cyanobacteria

Visit of HHU Genomics Facilities (SOLiD, Ion Torrent, Illumina, Roche machines available on site)

The workshop is **free of charge**. To participate, send (i) a letter of motivation of no more than 2000 characters stating how you (plan to) use NGS in your work and (ii) a recommendation by the head of the lab no later than 31.03.12 to [RNA-seq@hhu.de](mailto:RNA-seq@hhu.de).

36 participants will be chosen from the letters and notified until 15.04.12.

## Important Dates

31.03.12 Application Deadline

15.04.12 Notification of Participation

23.05.12 9am Start of Workshop

25.05.12 1pm End of Workshop



More information can be found at

[RNA-seq.hhu.de](http://RNA-seq.hhu.de)

[RNA-seq@hhu.de](mailto:RNA-seq@hhu.de)



BASF

Weber Lab, Heinrich Heine University Düsseldorf, [www.plant-biochemistry.hhu.de](http://www.plant-biochemistry.hhu.de)