

Niek de Klein

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🐙 github.com/npklein

🔗 scholar.google.com/citations?user=QNwjBnwAAAAJ&hl

Education

- May 2015 – **PhD Bioinformatics / Genetics**
Genetics Department of University Medical Center Groningen, Groningen, Netherlands.
- Sep 2012 – Aug 2014 **M. Sc. Bioinformatic**
Vrije Universiteit, Amsterdam, Netherlands
grade 8.6/10 (Cum laude)
- Sep 2008 – Aug 2012 **B. Sc. Bioinformatics**
HAN University of Applied Sciences, Nijmegen, Netherlands
grade 8.2/10

Employment and internships

During M.Sc.

- Jan – Jun 2014 **Connecting multiple gene expression signatures with candidate drugs for boosting heart regeneration potential.**
Supervisor Dr. Francisco Azuaje
Institute CRD-Sant  , Luxembourg, Luxembourg
Grade 9/10
<https://github.com/npklein/drugFinder>
- Aug – Dec 2013 **Clustering of MS/MS spectra to improve peptide and protein identification.**
Supervisor Dr. Tham Pham
Institute Cancer Center Amsterdam, Amsterdam, Netherlands
Grade 9/10
- Dec 2012 – Aug 2013 **Assistant Webmining**
Company TextKernel, Amsterdam, Netherlands

During B.Sc.

- Feb – Jun 2012 **Methods to assess the reproducibility and coverage of tandem mass spectrometry data in phosphoproteomics experiments.**
Supervisor Dr. David Martin
Institute Wellcome Trust, Dundee, Scotland
Grade 9/10
<https://github.com/npklein/pyMSA>
- Oct 2011 – Oct 2012 **Junior Developer**
Company iVention, Amesfoort, Netherlands
- Sep – Dec 2010 **How widespread are microProteins and how did they evolve?**
Supervisor Dr. Sue Rhee
Institute Carnegie Institute for Life Sciences, Stanford, USA
Grade 8/10
<https://github.com/npklein/miP3>

Teaching

Courses and seminars

- Sep 2019 **Lecture + workshop gene expression**
Lecture on gene expression + workshop differential gene expression and pathway analysis
Data Science for Life Sciences Master students of the Hanze University of Applied Sciences Groningen
Course material at npklein.github.io/Teaching-modules/.
- Sep – Oct 2017 **Introduction to Biomolecular Sciences**
Co-coordinated, created, and supervised various genetics workshops. Biomolecular Science Master students of the Rijksuniversiteit Groningen
Course material at npklein.github.io/iBMS.
- 26 Aug 2016 **Invited Talk + Workshop Genotyping from RNAseq**
Lecture + workshop on how to call genotypes from RNAseq data at the Estonian Genome Center.
- 22 Jun 2016 **Enriching biobanks using genotype data**
BIKE Summer School seminar

Student supervision





- Apr 2019 – **Fabian VogelPohl**
Bachelor internship
Unraveling the brain specific molecular network of the SCGE gene, the major gene for myoclonus dystonia.
- Sep 2018 – Apr 2019 **Omar El Garwany**
Master thesis
Brain eQTLs show more enrichment for neuro-psychotic diseases than blood eQTLs
- Feb – Jul 2017 **Anne Tjallingii**
M.Sc. internship
Influence of a diabetes mellitus type II on the susceptibility of getting tuberculosis
- Jan – Jun 2016 **Carlos Urzua**
M.Sc. internship
Allele-specific signals in gluten sensitive t-cell clones

Grants




- 07 Mar 2016 **One tool to interpret and assess impact of genetic variants and predict disease-causing genes using the BBMRI – BIOS data (Co-Applicant)**
€ 60,000

Miscellaneous Experience





Conference (poster) presentations

- 17 October 2019  **eQTL analysis in brain cortex samples of 3,833 individuals and 31,684 blood samples reveals distinct regulatory effects of disease-associated genetic variants**
ASHG (Poster)
- 17 June 2018  **Allele specific expression identifies rare variants as cause for extreme allelic imbalance**
ESHG (Poster)
- 25 May 2016  **Genotyping of all public RNA-sequencing data for large scale trans-QTL and ASE studies**
ESHG (Poster)
- 8 Sep 2014  **Connecting multiple gene expression signatures with candidate drugs for boosting heart regeneration potential**
ECCB (Poster)

Other

- Sep 2019 –  **Oncode Investigator**
- Aug 2018  **Leena Peltonen Summer School**
Summer school
- Jul 2016  **Microsoft Research PhD Summer School**
Summer school

Skills

- Languages  Strong reading, writing and speaking competencies for English and Dutch.
- Coding  Python, R, Java, Bash
- Databases  MySQL, SQLite
- Misc.  Academic research, teaching

References

Available on Request