
Curriculum Vitae

Marko Knoll

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Date & Place of Birth

October, 19th 1981 in Berlin, Germany

Graduate studies

10/2004 ongoing

University of Kassel

Reading for a masters degree (German Diplom)
major: genetics, cellbiology and biochemistry
to be completed in 2007

Undergraduate studies

10/2004

Examined subjects: genetics, developmental biology,
zoology, physiology of organisms, chemistry and physics
(grade: 2.1)

10/2002 -10/2004

University of Kassel

Reading for a bachelor degree (German Vordiplom)
Major: Biology

School Education

1994 - 2001

High School, Archenhold Gymnasium, Berlin
Majors: Biology, Geography, German and Art

1991 - 1994

Elementary School, 10th School of Treptow, Berlin

1988 - 1991

Elementary School, 10th School „Heinz Kapelle“ Treptow,
Berlin

Research Experience / Lab Rotations

01 - 03 / 2005

Charité Universitätsmedizin Berlin, Institute for Pharmacology

A two month research internship focusing on the analysis of
Vasopressin receptor (V2R) mutants

02 / 2005

Institute of Plant Genetics and Crop Plant Research, Gatersleben

Special practical work experience on Cytogenesis

05 - 06 / 2002

**Alfred – Wegener – Institut for Polar & Marine Research,
Berlin**

A two-month research internship focusing on the analysis of
Siberian soil samples

Research Experience / Lab Rotations at the University of Kassel

06 - 07 / 2005

Research Group: Cell Biology

Topic: Endocytotic pathways in *D. discoideum*

Prof. Dr. Markus Maniak

05 - 06 / 2005

Research Group: Biochemistry

Topic: Preparation of the regulatory (R-) subunit of the
protein kinase A and further studies

Prof. Dr. Friedrich Herberg

04 - 05 / 2005

Research Group: Genetics

Topic: Working on RNAi mechanisms beginning a complete
new project with research on eri-1 and its homologue
in *D. discoideum*

Prof. Dr. Wolfgang Nellen

03 - 04 / 2005

Research Group: Botany

Topic: Molecular family tree analysis on Plants

Prof. Dr. Kurt Weising

01 - 02 / 2005

Research Group: Developmental Biology

Topic: Working on the model organism *D. melanogaster* and
perform mutagenesis and research with P- Elements

Prof. Dr. Mireille A. Schäfer

Oral Presentations / Seminars

07 / 2005

Seminar: Chromatin with special view on techniques to
investigate chromatin and interaction partners

07 / 2005

Seminar: Cellular hereditary diseases with special view on the
Pelger – Huet anomaly

05 / 2005

Seminar: Presentation of the research results from my work in
the biochemistry lab

04 / 2005

Seminar: RNA processing with special view on small
regulatory RNAs

Methodical skills

Molecular and microbiological techniques

Isolating of genomic DNA from *D. discoideum*, *D. melanogaster*, Plants
PCR, Reverse transcriptase- and inverse PCR
Cloning and subcloning (*D. discoideum*)
Cultivating of *E. coli*
Mini-, Midi-, Maxipreparation
Gelelektrophoresis
Isolating a fragment from a DNA - gel
Measuring the concentrations of DNA and RNA
Digestion with restriction enzymes
Ligation
Transformation of *E. coli* and *D. discoideum* via heatshock and electroporation
Characterising of recombinant clones
Northern Blot and Developmental Northern Blot
Construction of (x-ray) marked probes (DNA and RNA) for Blot research
Sequencing with x-ray as well as fluorescence (Li-cor) dideoxy method
Isolating of RNA with BEADS and working with RNA

Microscopy

Light microscope
Fluorescence microscope
Laser Scanning microscope
Confocal Laser Scanning microscope (CLSM)
Raster electron microscope
Video microscopy

Proteinbiochemistry techniques

Induction of Protein expression in *E. coli*
Preparation of proteins
Dialysis
Stripping of Proteins
SDS – PAGE
Commassie staining of SDS gel
Bradford Assay
Cook Assay
Measuring of fluorescence polarisation
Biacore linkage studies
Fast Protein Liquid Chromatography (FPLC)

Immunological techniques

Western Blot
Immunostaining
FISH and PRINCE

Other techniques

Phagocytosis Assay (*D. discoideum*)
Different staining techniques i.e. Calcufluor staining

Further Education

22 / 02 / 2006

Genetic therapy in Germany? Berlin

Actual biomedical, economic and ethic aspects.

03 – 05 / 04 / 2006

Molecular Interactions Workshop, Berlin

Skills

since 2005

Diving

since 2000

Volleyball, Academy of Science Sport Club

since 1998

Snowboarding

Languages:

Fluent in speech in English and German (mother tongue)

Miscellaneous:

European Driving Licence (since 2000)

PADI Open Water Divers Licence (since 2005)

Software:

Adobe Photoshop, MS Office, Macromedia Flash and Dreamweaver

References

Available upon request

Prof. Dr. Wolfgang Nellen

(University of Kassel)

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Prof. Dr. Markus Maniak

(University of Kassel)

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Prof. Dr. Friedrich Herberg

(University of Kassel)

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