



Collaborative Research Centre 1076 AquaDiva

Understanding the Links between Surface and Subsurface Biogeosphere



Spokespersons: Prof. Kirsten Küsel, Prof. Susan Trumbore, Prof. Kai Uwe Totsche

Research Projects

A01

Phages as Vectors and Indicators of Biological Information: Selective Transport and Consequences for Nutrient Release and Cycling

Dr. L. Wick
(UFZ)

Prof. A. Chatzinotas
(UFZ)

Konstanze Hild
Felipe Borim Corrêa
Krupa Parmar
Dr. Nawras Ghanem (ass.)

A02

Tracing Metabolic and Organic Signals Through the Earth's Critical Zone

Prof. G. Pohnert
(FSU)

Prof. G. Gleixner
(MPI-BGC)

Dr. Christian Zerfaß
Arina Ivanova
Chen Huang (ass.)
Alice Orme (ass.)
Dr. Simon Schroeter (ass.)

A03

Microbial Responses to Infiltration Inputs into Groundwater of the Hainich CZE

Prof. K. Küsel (FSU)
Dr. M. Taubert (FSU)

Prof. J. Popp (FSU)
Dr. P. Rösch (FSU)

Alisha Sharma
Lucia Winkler (ass.)
Beatrix Heinze (ass.)
Constantinos Xenophonos (ass.)
Dr. Narendrakumar Chaudhari (ass.)
Dr. Cassandre Lazar, UQAM (ass.)
Sara Mostafapour
Dr. Thomas Bocklitz (ass.)
Dr. Thomas Henkel (ass.)

A06

Viral Diversity, Viral De Novo Assembly, and Viral Half-life in Groundwater

Prof. M. Marz
(FSU)

Dr. Christian Hoener zu Siederdisen
Sebastian Krautwurst (ass.)
Dr. Akash Srivastava (ass.)
Dr. Franziska Hufsky (ass.)

A07

Subsurface Planctomycetes as sources for novel biotechnological applications

Prof. C. Jögler
(FSU)

Madeleine Kündgen
Dr. Nicolai Kallscheuer (ass.)

B01

Interactions of Forest Structure and Plant Functional Biodiversity as Drivers of Water, Organic Matter, and Nutrient Fluxes

Prof. B. Michalik
(FSU)

Prof. C. Römermann
(FSU)

Dr. Kerstin Näthe
Dr. Karin Potthast (parental leave)
Dr. Alexander Tischer (ass.)
Dr. Marie-Cécile Gruselle (ass.)
Till J. Deilmann
Apl. Prof. Markus Bernhardt-Römermann (ass.)
Tim Kotulla (techn.)

B02

Evolution of Water and Matter Cycles within the Earth's Critical Zone

Prof. A. Hildebrandt
(FSU)

Gökben Demir
Dr. Ruth Magh (parental leave)
Viktor Schreier (techn.)
Janett Filipzik (techn., parental leave)

B03

Sources and Sinks of Gases in the Earth's Critical Zone: In Situ Sensors and Isotopic Constraints

Prof. S. Trumbore
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Prof. T. Frosch
(IPHT)

Wei Tang
Beatrix Heinze (ass.)
Dr. Valérie Schwab-Lavric (ass.)
Sebastian Wolf
Anne Sieburg

B04

Exploratory Modeling of Water and Biogeochemical Dynamics in the Earth's Critical Zone

Prof. S. Attinger
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Dr. M. Thullner
(UFZ)

Dr. Friedrich Bohn
Timo Houben (ass.)
Dr. Falk Heße (ass.)
Dr. Tino Rödiger (ass.)
Thanh Q. Duong

B05

From the Forest Canopy to the Aquifer: Role of Microbial Processes in the Origin and Fate of Nitrate in the Earth's Critical Zone

Dr. M. Herrmann
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Rassil Nafeh
Markus Krüger

C03

Biogeochemistry in Zones of Fluctuating Groundwater: Alteration of Rock Surfaces and Interactions with Subsurface Colloids

Prof. K. U. Totsche
(FSU)

Dr. Katharina Lehmann
Dinusha C. Eshvara Arachchige
Franz Zilensek
Katharina Stolze (ass.)
Stefanie Wiede (techn.)

C05

Monitoring Migration Pathways in the Subsurface Using Tailored Polymer Tracer Libraries

Dr. T. Ritschel
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Prof. U. S. Schubert
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Nimo Kwarkye
Elisabeth Lehmann
Michaela Brunzel
PD Dr. Ivo Nischang (ass.)

C07

Retroaction of Geochemical Perturbations and Critical Zone Media Reactivity on Trace Element Speciation and Transport Parameters

Prof. T. Schäfer
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Ruth Ewouame
Dr. Dirk Merten (ass.)

Synthesis, Coordination, and Management

D01

Scientific Data Management and Integrative Data Analysis

Prof. B. König-Ries
(FSU)

Prof. C. Steinbeck
(FSU)

Dr. Alsayed Algargawy
Hamdi Hamed
Sven Thiel
Dr. Vinay Singh

D02

Integrated Research Training Group (IRTG) AquaDiva

Prof. A. Hildebrandt
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Prof. K. Küsel
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Dr. Anke Hädrich (scientific coord.)

D03

Site Management, CZE Operation and Synoptic Synthesis

Prof. K. Totsche
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Stefanie Wiede (techn.)
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Dr. Olga Perez Carrascal (ass.)
Dr. Will Overholt (ass.)
Dr. Carl-Eric Wegner (ass.)
Dr. Syrie Hermans (ass.)
Falko Gutmann (techn.)
René Maskos (techn.)
Dr. Simon Schroeter

D04

Central Tasks of the Collaborative Research Centre

Prof. K. Küsel
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Prof. K. Totsche
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Dr. Maria Fabisch (scientific coord.)
Dr. Thomas Fabisch (outreach coord.)