

Ph.D. Students Graduated

Name	Work Period	Thesis Title	Placement
-Nils Rohbohm	Febr. 19-Jun. 24	Investigation of carbon capture technology – Optimization of microbial electrochemical cells: A study on single-chamber, flow cell, and zero-gap reactor configurations.	-Post-doc, Spormann/Angenent Lab at CORC at Aarhus University, Denmark.
-Ulrike Biehn (with Ruth Ley)	Dec. 19-Jun. 24	Human gut microbes under power – Development of a bioelectrochemical system to uncouple and interrogate H ₂ -syntrophic partners in the human gut. Microbiota.	-Post-doc, Ley Lab, MPI biology in Tübingen.
-Han (Angelia) Wang	Oct. 18-Sept. 23	Anaerobic fermentation with ethanol and lactate as co-electron donors for medium-chain carboxylic acid production	-Research Institute in China
-Isabella Casini (with Bastian Molitor)	Sept. 17-Oct. 22	Systems biology for power-to-gas applications with <i>Methanothermobacter</i> spp.	Post-doc Prof. Ralf Takors Group at Stuttgart University
-Sarah Schulz (with Bastian Molitor)	Jan. 19-Oct. 22	Tailoring <i>Clostridium ljungdahlii</i> for improved ethanol production by genetic engineering of the aldehyde:ferredoxin oxidoreductase (AOR) and chemostat fermentation	Projektmangerin Scientific Integration, RWTH Aachen University
-Akanksha Sharma	March 17-Jan. 22	Establishment and optimization of a power-to-food system to produce single cell protein containing cobalamin and folate	Course in Bioinformatics
-Christian-Marco Klask (with Bastian Molitor)	June 17-Nov. 21	Interrogating the energy conservation of <i>Clostridium ljungdahlii</i> by genetic manipulation and bench-scale fermentation	Lab team leader Fermentation at BASF, Ludwigshafen
-Christian Fink (with Dr. Bastian Molitor)	July 17-Oct. 21	Establishment of tools for genetic modification of the thermophilic methanogenic archaeon <i>Methanothermobacter thermoautotrophicus</i> ΔH	Head of the Molecular Biology and Bioinformatics Unit at Arkeen Biotechnologies
-Lauren Harroff Trondsen	Aug. 14-Aug. 19	Using chain elongation of carboxylic acids to inactivate <i>Ascaris</i> eggs and provide new methods for sanitation waste treatment	Managing Director, Feed the Future Innovation Lab for Food Safety (FSIL)
-Juan Guzman	Aug. 12-Dec. 17	Towards developing a novel community-selection tool to unravel the interaction of hydrogen-producing syntrophs	CEO, Capro-X, Inc. a start-up company in Upstate New York, Ithaca.
-Catherine Spirito	Jan. 11-Aug. 17	Using high-throughput gene surveys to investigate the stability of anaerobic digestion and fermentation processes	Assistant Clinical Professor at University of Maryland College Park
-Joseph Usack	June 10-Aug. 16	An evaluation of the barriers to anaerobic digestion technology implementation for energy production and waste stabilization on dairy farms	Assistant Professor, University of Georgia, Athens
-Devin Doud	Aug. 10-Aug. 14	Engineering applications using the innate redox environment of <i>Rhodospseudomonas palustris</i>	Associate Director at Senda Biosciences, Cambridge, Massachusetts
-Michaela TerAvest	Aug. 09-Aug. 13	Biological limitations of <i>Shewanella oneidensis</i> MR-1 in bioelectrochemical systems	Associate Professor at Michigan State University, East Lansing, MI
-Elliot Friedman	Jun. 09-Aug. 13	Microbial electrochemical systems as tools to study subsurface biogeochemical processes	Director for Data Integration; Penn Center for Nutritional Science & Medicine at University of Pennsylvania, Philadelphia, PA
-Arvind Venkataraman	May 08-Nov. 11	The role of intraspecies and interspecies communication of <i>Pseudomonas aeruginosa</i> PA14 towards phenazine and production and virulence	Senior Scientist at P&G, Cincinnati, Ohio
-Matt Agler	Jun. 06-Aug. 11	Improving performance and product specificity of the carboxylate platform for production of biochemicals	Assistant Professor, University of Jena, Germany
-Jeff Fornero	Aug. 06-Aug. 09	Improving the cathode conditions by pressurizing and carbon dioxide addition to enhance the practicality of MFC treatment of wastewater	VP of Engineering of Electrochaëa, LLC a start-up company in Missouri, and then VP of engineering at GlucanBio, LLC
-Sarah Dryden Perkins	Aug. 04-Jan. 09	16S rRNA gene surveys to quantify pathogens in environmental bioaerosols	Post-Doc, Battelle, Indianapolis, IN
-Marcelo Garcia	Jan. 04-Dec. 08	Improving the stability of anaerobic digesters for animal waste treatment	Associate Professor, State University of Sao Paulo, Rio Claro, Brazil

-Zhen (Jason) He	Aug. 03-Jun. 07	Microbial fuel cells: their application and microbiology	Ful Professor at Washington University in St. Louis
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M.S. Students Graduated with Thesis

<i>Name</i>	<i>Work Period</i>	<i>Thesis Title</i>	<i>Origin/Placement</i>
-Manishkumar Ghodadara (with Andrés Ortiz)	Feb. 23-Jul. 23	Mass balance-based model of the two-stage power-to-protein system in Aspen	AEG/NA
-Beyza Kercin (with Sylvia Lempke)	Nov. 22-May 23	Investigating ψ M2 and <i>Methanothermobacter marburgensis</i> as a model system for methanogen viruses	Biology/Technician at the Max Planck Institute Biology in Tübingen
-Franziska Kühle (with Julia Schumacher)	Nov. 22-May 23	Investigation of the nitrogen-fixation metabolism in <i>Methanothermobacter thermotrophicus</i> Δ H	Biology/Ph.D student in Molitor Lab at the University of Leipzig
-Pius Stuchtey (with Dr. Lisa-Marie Schmitz)	Feb. 23-Apr. 24	Investigating continuous butanol production from methanol by using <i>Eubacterium limosum</i> as a biocatalyst	Geosciences/NA
-Samuel Farmer (with Lucas Mühling)	Jan. 23-Febr. 24	An electroporation technique in <i>Methanothermobacter thermotrophicus</i> Δ H – Optimization and application	AEG/PhD student in our group with Bastian Molitor
-Michael Buchner (with Dr. Joe Usack and Prof. Zarfl)	Jan. 23-Dec. 23	Assessment of spatial demand and protein yield of a power-to-protein system in Ethiopia	GeoEcology/NA
-Olywatoyin Khadijat Alli (with Dr. Rodolfo Briones)	Nov. 22-Oct. 23	Production of medium chain carboxylic acids (MCCAs) using pure cultures, co-cultures, and defined mixed cultures: Conversion of lignocellulose-derived sugars into <i>n</i> -caproic acid	AEG/Bioinformatic studies in Denver, Colorado
-Xuejiao (Julie) Lyu (with Mei Zhou)	Nov. 22-Sept. 23	The toxicity of hydrothermal liquefaction (HTL) process water to anaerobic digestion and prediction of anaerobic digestion performance with biochemical methane potential assays (BMP) and anaerobic toxicity assays (ATA)	AEG/Ph.D. student at the Johns Hopkins University
-Adrien Biguenet (with Dr. Rodolfo Briones)	Oct. 22-Aug. 23	Glycogen production from an acetate-rich medium with cycling aerobic/anaerobic microbes	AEG/NA
-Dorothea Schütterle (with Dr. Richard Hegner)	Sept. 21-Febr. 21	Steering of open-culture biotechnology-based acid whey conversion into D- or L-lactate isomers by controlling temperature and pH	Molecular Medicine, PhD at Jena University
-Sylvia Lempke (with Dr. Bastian Molitor)	April. 20-Oct. 21	Investigations of genetic manipulation and virus isolation strategies for <i>Methanobrevibacter smithii</i>	Biology/Ph.D. in our group
-Laura Gerlach (with Dr. Sebastian Beblawy)	Sept. 20-Jul. 21	<i>In-vivo</i> transposon mutagenesis of the thermophilic archaeon <i>Methanothermobacter thermotrophicus</i>	Biology/NA
-Kurt Gemeinhardt (with Dr. Tian Sun)	Jun. 20-Mar. 21	Impedance measurements and process optimization in an electrochemical cell designed for biomethanation	Geo-Ecology/Ph.D. in our group
-Andrada-victoria Oancea (with Joe Usack)	Apr. 20- Mar. 21	Techno-economic analysis of resource recovery at the wastewater treatment plant from sludge treatment	EHS&S Specialist for the Bavaria Medizin Technologie (BMT)
-Caroline Schläiß (with Dr. Pengfei Xia)	Apr. 20- Mar. 21	Establishing a base-editing tool in <i>Clostridium ljungdahlii</i> based on CRISPR/Cas12a	Geo-Ecology/ Ph.D. in our group
-Luyao (Luna) Li (with Dr. Joe Usack)	Feb. 20- Mar. 21	Life-cycle assessment of chain elongation	AEG/NA
-Ahmed Alhassan Kinbokun (with Dr. Richard Hegner)	Feb. 20- Mar. 21	Extracting bio-oils from fermentation broths	AEG/NA
-Cong Nguyen (with Dr. Byoung Seung Jeon)	Feb. 20-Sep 20	Chain elongation with real organic wastes	AEG/NA
-Monika Temovska (with Sofia Esquivel)	Jan. 19-Sept. 19	Isolating chain-elongating bacteria	AEG/Ph.D. in our group
-Qu Sun (with Joe Usack)	Jan. 19-Juni 19	Chain Elongation from formate with open cultures	AEG/Engineering company in China
-Stefan Petschak (with Bastian Molitor)	July 18-Jan. 19	Homologous and heterologous overproduction of AOR-Enzymes in <i>Clostridium ljungdahlii</i> and <i>Escherichia coli</i>	Biochem/Two-month internship in our group

-Sarah Schulz (with Bastian Molitor)	Nov. 17-Sept. 18	Engineering the metabolism of <i>Clostridium ljungdahlii</i> by altering the availability of the Aldehyde:Ferredoxin Oxidoreductase (AOR), a key enzyme in ethanol formation during syngas fermentation	Extern/Ph.D. in our group
-Mytien Nguyen	Aug. 14-Aug. 16	Beyond energy saving: the effect of weatherization on the microbiology of the residential built environment in Upstate New York	BEE, MD-Ph.D. program, Yale University
-Sarah Daly	Aug. 14-Aug. 16	Acidification of food waste during storage after grinding with InSinkErator® technology	BEE, Ph.D. student, Purdue University
-Leo Kucek	Aug. 13-Sept. 15	Extending chain elongation with reactor microbiomes	Extern /Applied Technologies (ATI), Wisconsin, USA
-Ahmet Erkan Uman	Aug. 12-March 15	A Fenton reaction in the recirculated biosolids line of an anaerobic digestion system	Extern/Ph.D. student, University of Southern Florida
-Michael Martin	Aug. 12-July 14	Comparing ethanol production of carboxydophilic <i>Clostridium</i> strains during syngas fermentation with a two-stage continuous culture	Biology/Scientist, LanzaTech, Chicago, IL
-José Miguel Perez	Aug. 09-June 12	Reduction of carboxylic acids to alcohols using syngas and <i>Clostridium ljungdahlii</i> as biocatalysts	Extern/Ph.D. student at University of Madison-Wisconsin, WI
-Eric Kettleson	Aug. 03-Aug. 05	Capture and inactivation of virus aerosol using electrostatic precipitation	Extern/Ph.D. candidate, Washington University in St. Louis, MO
-Rebecca Hoffmann (co-advised with Muthanna Al-Dahhan)	May 03-May 05	The effect of shear on the performance and microbial ecology of anaerobic digesters treating cow manure from dairy farms	ChemE/Horner & Shifrin, Inc. Engineers, St. Louis, MO
-Dan Rauer (co-advised with Jay Turner)	Jan. 03-Febr. 05	Characterization and monitoring of ambient biological PM _{2.5} at the St. Louis-Midwest Supersite	ChemE/Lab Technician, Bayer Corporation USA, Berkeley, CA

M.S. Students Graduated with Project Report or Biochemistry Rotation

<i>Name</i>	<i>Work Period</i>	<i>Report Title</i>	<i>Placement</i>
Niklas Nathusius	Oct. 23-Mar. 24	Genetic modification of <i>C. ljungdahlii</i>	Microbiology
-Alina Gante (with Sylvia Lempke)	Apr. 23-May 23	Gut methanogens and their phages	Biochemistry
-Sebastian Kalkuhl (with Dr. Kim Rennhack)	Jan. 22-Febr. 22	Expressing ferredoxin	Biochemistry MS Program continuation
-Elias Schermuly (with Lucas Mühling)	Nov. 21-Dec. 21	Improving the genetic system of <i>Methanothermobacter thermoautotrophicus</i>	Biochemistry MS Program continuation
-Dorothea Schütterle (with Dr. Richard Hegner)	Feb. 21-March 21	Acid whey to <i>n</i> -caproate conversion with bioreactors	Molecular Medicine, continuation
-Melanie Brauny (with Dr. Sebastian Beblawy)	Jan. 21-Feb. 21	Viruses of methanogens	Molecular Medicine, continuation
-Marco Ernst (with Christian Fink and Christian Klask)	Sept. 20-Mar. 21	Genetic modification of a thermophilic Archaeon and genetic modification of a carboxidotrophic bacterium.	Biochemistry MS Program continuation
-Christoph Oberist (with Sarah Schulz)	Sept. 20-Nov. 20	AOR biochemistry	Biochemistry MS Program continuation
-Daria Evseeva (co-advised with Dr. Daniel Huson)	June 18-Aug. 20	PacBio sequencing of <i>Methanothermobacter thermoautotrophicus</i>	Ph.D., Max Planck Institute for Developmental Biology
-Erik Rasmussen (MEng)	Sept. 14-May 15	Bioprocessing with <i>Clostridium ljungdahlii</i>	Cornerstone Research, New York, NY
-Siddarth Govindarajan (MEng)	Sept. 13-May 14	Weatherization bioaerosol study	Advanced Equipment Engineer, GlobalFoundries Fab 8
-Divya Vasudevan (MEng)	Aug. 12-May 13	Chain elongation in upflow filters with undiluted acetate and ethanol	Engineer I, Genentech Inc.
-Matthew Williams (MEng)	Aug. 12-May 13	Modeling ethanol extraction from syngas fermentation vessels	Consulting analyst, Accenture
-Dylan Webster (MEng)	Jan. 13-May 2013	Modifying <i>Shewanella oneidensis</i> as a bioensing microbe with electric output	Scientist, E. & J. Gallo Winery, CA

-Christian Pichard (MEng)	Aug. 11-Aug. 12	Economic analysis and life-cycle assessment of the carboxylate platform	Consultant, TetraTech, Santiago, Chili
-Sarah Clement (MEng)	Aug. 11-Jul. 12	Investigating neutral theory in a bacterial community	Consultant, Accenture
-Bob Frost (MEng)	Aug. 10-May 11	House-hold digester for kitchen waste	Consultant, Hazen and Sawyer, New York City, NY
-Adam Garnica (MPS)	Aug. 09-May 10	Toxicity of line lubricants in UASB bioreactor treatment of brewery waste	Law School, Cornell University
-Ben Bocher (MS)	May 05-Dec. 06	Shear-enhanced anaerobic digestion of secondary biosolids from upflow anaerobic bioreactors	Assistant Professor, University of Wisconsin, Platteville, now at BP

B.S. Students Graduated with Thesis

<i>Name</i>	<i>Work Period</i>	<i>Thesis title</i>	<i>Origin/Placement</i>
-Tabea Miller	Dec. 23-April 24	From genes to structures: Cloning of plasmids for tagged Glycine- and Proline-Reductase in <i>Clostridioides difficile</i> for structure elucidation	Biochemistry/MS in Biochemistry at the University of Köln
-Johanna Krastel (with Hiroki Yoshida)	Dec. 23-April 24	Screening of promising substrates and strains to utilize methyl group compounds as alternative carbon sources for thermophilic acetogens	Environmental Science/M.Sc. in Environmental Science at the University of Freiburg
-Verena Wellmann (with Julia Schuhmacher)	Apr. 23-Sept. 23	Establishment of an in-vivo reporter system for <i>Clostridium sporogenes</i> and <i>Clostridium perfringens</i>	Geo-Ecology/NA
-Leo von Bank (with Dr. Kim Rennhack)	Apr. 23-July 23	Homologous protein production and construction of a vector system for the synthesis of aldehyde:ferredoxin oxidoreductase isoforms in <i>C. ljungdahlii</i>	Biochemistry/ M.Sc. student at Tübingen University
-María Rodríguez Sánchez (with Caroline Schläiß)	Jan. 23- Jun. 23	Developing a dCas12 Base-editing system for <i>Clostridium ljungdahlii</i>	University of Barcelona (Erasmus Program), M.Sc. at Wageningen University
-Hendrik de Veer (with Dr. Kim Rennhack)	Nov. 22-May 23	Construction of a clostridial vectorsystem for homologous aldehyde:ferredoxin oxidoreductase production in <i>Clostridium ljungdahlii</i>	Biochemistry
-Raphael Thomas Mayer (with Dr. Jean Nepo Ntihuga)	Jan. 23-May 23	Effect of <i>n</i> -caprylic acid addition on chain elongation process	Geosciences
-Tim Render (with Caroline Schläiß)	Oct. 22-Dec. 22	Characterization of a dFnCpf1-guided base-editing system for <i>Clostridium ljungdahlii</i>	BS Biochemistry
-Elijas Schüz (with Dr. Kim Rennhack)	May 22-Oct. 22	Heterologous production of holo-aldehyde ferredoxin oxidoreductase from <i>Clostridium ljungdahlii</i> for enzymatic metabolic studies	BS Biochemistry
-Ferran Agulló Manobens (with Lucas Mühling)	Mar 22-Sept. 22	Establishing transposon insertion mutagenesis in <i>Methanothermobacter thermautotrophicus</i> ΔH	University of Barcelona (Erasmus Program)
-Andrea Benaiges Carne (with Dr. Lisa Schmitz)	Nov. 21-Jul. 22	Growth behavior and vitamin B9 production of <i>Clostridium ljungdahlii</i> in absence of vitamin B9	University of Barcelona (Erasmus Program)
-Oskar Geissel (with Lucas Mühling)	Oct. 21-Jul. 22	Thermoadaptation of the selectable marker puromycin acetyltransferase in <i>Methanothermobacter thermautotrophicus</i> ΔH	BS Biology
-Sebastian Winterhalder (with Dr. Jean Nepo Ntihuga and Dr. Joe Usack)	Oct. 21-Mar. 22	Converting bread waste into medium chain carboxylic acids via the chain-elongating bioprocess	BS Geosciences/TBD
-David Keßler (with Sarah Schulz)	Mar. 2021-Oct. 21	Production and characterization of holo ferredoxins in <i>Escherichia coli</i> .	Biology/MS student at the University of Graz, Austria
-Fabienne Kreutter (with Akanksha Mishra)	Sept. 20-Mar. 21	Power-to-protein	Biology/HIWI in our group
-Tilman Schramm (with Lucas Mühling)	Sept. 20-Mar. 21	Genetic modification of a thermophilic methanogen	Biology/HIWI in our group
-Andreas-Mark Enkerlin (with Christian Fink)	Sep. 2019-May 2020	Construction of a modular shuttle vector system and investigation of interdomain conjugation for the genetic manipulation of <i>Methanothermobacter thermautotrophicus</i> Delta H	Biology/HIWI in our group

-Nicolai Kliem-Kuster (with Christian Klask)	Feb. 2019-Aug. 19	Anaerobic fermentation of <i>Clostridium ljungdahlii</i> in a Multi-Bioreactor-System	Reutlingen/Technician in our group
-Michael Buchner (with Patrick Schweizer)	May 19-Aug. 19	Production of short- and medium-chain carboxylates using anaerobic fermentation of an open culture	Geosciences/NA
-Sylvia Lemke (with Christian Klask)	May 19-Aug. 19	Synthesis of cyanophycin in <i>Clostridium ljungdahlii</i>	Biology/HIWI and Ph.D. in our group
-Meike Rattay (with Dr. Joe Usack)	Sept. 18-Febr. 19	Medium-chain carboxylic acid production with continuously-fed bakery waste	Geosciences/NA
-Caroline Schläiß (with Dr. Claudia Tominski)	June 18-Sept. 18	Isolation of bacteria producing medium chain carboxylic acids at pH 5	Geo-ecology/MS in our group

Post-Doctoral Researchers/(Senior) Research Associates Supervised

<i>Name</i>	<i>Work Period</i>	<i>Project Title</i>	<i>Placement</i>
-Rodolfo Palomo Briones	Jun. 21-Jan. 24	Defined mixed cultures for product formation	Marie Curie Postdoctoral Fellow, University of Valladolid, Spain
-Lisa-Marie Schmitz	Dec. 21-Oct. 23	Nutritional value of power-to-protein	Jr. Group leader in our group
-Andrés Eduardo Ortiz Ardila	Oct. 21-Sept. 23	Microbial ecology of chain elongation	Jr. Group leader in our group
-Saskia Baur	May 22-Feb. 23	CO ₂ and CO conversions with modified acetogens	Jr. Group leader in our group.
-Gabriela Contreras (with Dr. Bastian Molitor)	Aug. 20-Febr. 23	Genetic modification and bioprocessing of a thermophilic methanogenic Archaeon.	NA
-Richard Hegner	April 19-Dec. 22	Converting acid whey into alkanes	Research Engineer, BASF
-Sebastian Beblawy (with Dr. Bastian Molitor)	Jan. 19-Feb. 22	Genetic modification of <i>Methanothermobacter thermautotrophicus</i>	Project Manager for Bioeconomy at Umwelttechnik BW GmbH
-Jose Antonio Magdalena Cadelo (with Dr. Joe Usack)	June 20-Oct 21	Measuring trace gases in biological systems	Post-doc research associate, INRA, France
-Byoung (John) Seung Jeon	Sept. 18-Dec. 20	The biochemistry of chain elongation	Independent Group leader, KICET, South Korea
-Tianran (Tian) Sun	Oct. 14-Dec. 20	Microbial electrochemistry and biochar/minerals in soil	Assistant Professor, Chinese Academy of Sciences in Beijing.
-Sofia Esquivel Elizondo (with Dr. Ruth Ley)	Apr. 18-Nov. 20	Syntrophy of acetogens and methanogens in human guts	Scientist, Low-Carbon Energy, Environmental Defense Fund
-Pengfei Xia (with – Dr. Bastian Molitor)	Nov. 18-Oct. 20	Genetic modifications of <i>Clostridium ljungdahlii</i>	Assistant Professor, Shandong University, China
-Joseph Usack	Aug. 16-Aug. 19	Chain elongation	Assistant Professor, University of Georgia, Athens, USA
-Claudia Tominski	Jan. 17-Oct. 18	Anaerobic microbiology	Scientist, ÖHMI Analytik, Magdeburg
-Roy Posmanik	Aug. 14-July 17	Coupling hydrothermal systems to digestion with Prof. Jeff Tester	Principal Investigator, Volcani Institute at The Volcani Center, Israel
-Jiajie (JJ) Xu	Sept. 14-June 17	Extracting <i>n</i> -caproic acid from fermentation broth	Assistant Professor, Chinese Academy of Sciences in Beijing.
-Bastian Molitor	Jun. 15-May 17	Genetic modification of carboxydrotrophic bacteria	Junior Professor, Environmental Biotechnology Group, University of Tübingen, Germany
-Hanno Richter	Nov. 08-June 16	Conversions with <i>Clostridium</i> spp.	Principle Engineer, Corbion, California
-Rodrigo Labatut	Oct. 14-Oct. 15	Biological methane potential test	Assistant Professor, Pontifical Catholic University of Chile, Santiago, Chile
-Denina Hospodsky	Jan. 13-May 14	A pilot study of the changes in airborne microbiota after weatherization of older two-story homes in the U.S. Northeast	Director of Molecular Product Development, Adaptive

-Erik Bland -Jeffrey Werner -Miriam Rosenbaum	Febr. 13-April 14 June 09-Aug. 2011 March 07-May 11	Photobioreactors with monochromatic light Stability in upflow anaerobic bioreactors Bioelectrochemical systems	Biotechnologies Corp., Seattle, WA Industry Professor, SUNY Cortland Professor of Synthetic Biotechnology at the Hans Knöll Institute, Jena University, Germany Post-Doc, Battelle, Indianapolis, IN Post-doc, University of Pittsburgh, PA
-Sarah Dryden Perkins -Balathiagarani Ramaswami	Feb. 09-May 09 April 04-May 05	Syntrophic acetate oxidation in anaerobic digesters Bacteriophages as indicators for human fecal contamination in Table Rock Lake, MO	

Group Leaders (Nachwuchsgruppenleiters) - previously

<i>Name</i>	<i>Work Period</i>	<i>Title</i>	<i>Placement</i>
-Joseph Usack	Aug. 19-Jan. 23	Dependent group leader	Assistant Professor, University of Georgia, Athens, USA

Technicians

<i>Name</i>	<i>Work Period</i>	<i>Research Project</i>
-Markus Maisch	Aug. 19-Oct. 19	Coupling chemostats to MS
-Sarah Daly	June 14-Aug. 14	Food waste hydrolysis and storage
-Mytien Nguyen	June 14-Aug. 14	Weatherization study
-Lauren Harroff	Sept. 13-Aug. 14	Toilet system to kill pathogens
-Divya Vasudevan	June 13-Feb. 14	Chain elongation
-Nina Voulis	Feb. 13-Feb. 14	Photobioreactors
-Michael Martin	Dec. 11-Aug. 12	Syngas Fermentation
-Wendy Hoose	June 10-April 11	Genetically-modifying photosynthetic microorganisms
-Alex Lee	Jan. 10-June 10	Building cheap potentiostats
-Joe Usack	Dec. 09-May 10	Co-digestion of cow manure with lipid-rich wastes
-Nick Scalfone	Nov. 08-Jun. 09	16S rRNA gene surveys and FISH

Visiting Scholars and Professors

<i>Name</i>	<i>Work Period</i>	<i>Research Project</i>	<i>Placement/Current Position</i>
-Qingyan (Doris) Wang	Dec. 23-Nov. 25	Food waste to <i>n</i> -caproate conversions	PhD student, Beijing Forestry University, Beijing, China
-Filip Brodowski	Oct. 23-Dec. 23	TEA of acid whey conversion into <i>n</i> -caproate	Post-doc, Poznan University of Technology, Poland
-Emma Jones	Sept. 23-Mar. 24	Extraction of <i>n</i> -caproate	PhD student, University of Bologna
-Carlos Bautista (with Dr. Bastian Molitor)	Apr. 23-June 23	Clostridia pathogens	B.S. student, Universidad de las Américas Puebla (UDLAP)
-Yihua Liu (with Dr. Ruth Ley)	March 23-present	Gas fermentation with <i>Methanobrevibacter smithii</i>	Ph.D. student, Max Planck Institute for Biology, Tübingen
-Felipe Filgueiras de Almeida	Dec. 22-May 23	Extracting <i>n</i> -caproate from a chain elongating system	Ph.D. student, Federal University of Pernambuco, Recife, Brasil
-Joana Madjarov	Mar. 22-Aug. 22	Microbial electrosynthesis with acetogens	TBD
-Prof. Ludmilla Aistilde	Jan. 22-June 22	Metabolomics for biological systems to recover carbon from wastes	Associate Professor, Northwestern University, Chicago, USA
-Laura Rovira Alsina	Jan. 21-June 21	Power-to-gas with a bench-scale biomethanation bioreactor	Ph.D. student, University of Girona
-Andrés Eduardo Ortiz Ardila	Sept. 20-Febr. 21	Microbial ecology in anaerobic fermenters	Ph.D. Student, Pontificia Universidad Católica de Chile
-Dr. Catherine Spirito	Jan. 20	Metagenomics to study chain elongation	Assistant Clinical Professor, Frank Stiftung, University of Maryland
-Heather Ailinger	Jan. 20	<i>Methanothermobacter therautotrophicus</i> cell membranes	BS student, Frank Stiftung, University of Maryland

-Spyridon (Spyros) Karakoulak	Feb. 20-April 20	OD sensor with cheap smart watch	BS student, Erasmus Program, Technical University of Crete, Greece
-Ramiro Blasco Gómez	Sept. 18-present	Ethanol production at biocathodes	Ph.D. student, University of Girona
-Byung-Chul (Roy) Kim	Mar. 18-Sept. 18	Producing caproate from real organic waste	Ph.D. student, Seoul National University
-Jiuxiao Hao	Oct. 15-Sept. 16	Producing <i>n</i> -caproic acid from organic wastes	Ph.D. student, Tsinghua University, Beijing, China
-Sylvia Gildemyn	Oct. 15-Feb. 16	Producing <i>n</i> -caproic acid from syngas fermentation effluent	Ph.D. student, Ghent University, Belgium
-Jiajie (JJ) Xu	Sept. 12-Aug. 14	Extracting and separation of <i>n</i> -caproic acid from fermentation broth	Ph.D. student, China Agricultural University, Beijing, China
-Yaping Zhang	Sept. 12-Mar. 14	<i>Enterobacter aerogenes</i> and <i>Pseudomonas aeruginosa</i> and bioelectrochemical systems	Ph.D. student, South China University of Technology, China
-Leticia Regueiro Albelleira	July 13-Jan 14	Reactor microbiome characterization for a co-digestion study	Ph.D. student from the University of Santiago de Compostela, Spain
-Sávia Gavazza	Sept. 12-Sept. 13	Azo-dye removal in reduced environments	Professor, Federal University of Pernambuco, Brazil
-Po-Heng (Henry) Lee	June 13-Aug 13	Syngas fermentation	Assistant Professor, The Hong Kong Polytechnic University, Hong Kong
-Victor Robertsson	May 13-Aug 13	Syngas fermentation	MS student from KTH Royal Institute of Technology, Stockholm, Sweden
-Maria Jesus Sanchez-Corral	Febr. 13-Aug. 13	Syngas fermentation and proteomics	IMETE MS student, Ghent University, Belgium
-Isabel del Agua Lopez	Febr. 13-Aug. 13	Anaerobic digestion of pumpkin waste	IMETE MS student, Ghent University, Belgium
-Kaiyan Qiu	Apr. 13-May 13	Microbial electrolysis cells	Post-doc
-Shijian Ge	Sept. 11-March 13	Medium-chain carboxylate production and extraction	Ph.D. student, Beijing University of Technology, China, now Assistant Professor at Nanjing University of Science and Technology, China.
-Christine Solis	Summer 12	Microcosm studies in Barrow, Alaska (through PolarTrec Program)	High-school teacher in Los Angeles, CA
-Viktor Hällman (visiting MS student)	June 12-Aug. 12	Scaling up syngas fermentation	MS student from KTH Royal Institute of Technology, Stockholm, Sweden
-Adrianus van Haandel	May 12-June 12	<i>n</i> -Caproate production in Brazil	Professor at the Federal University of Campina Grande, Brazil
-Kyoung-Yeol Kim	Dec. 11-Jun. 12	Microfluidic bioelectrochemical sensor	Ph.D. student, Gwangju Institute of Science and Technology (GIST), Republic of Korea
-Wei Zhang	Nov. 10-Nov. 11	Undefined mixed cultures in bioreactors and soil	Assistant Prof., North China Electric Power University
-Zhongjian Li	Sept. 09-Sept. 11	Mechanisms of electron transfer in biofilms	Ph.D. student, Zhejiang University, China, now Associate Professor of Zhejiang University.
-James Miller	Summer 11	Cyclic voltammetry at Barrow, Alaska (through PolarTrec Program)	High-school teacher, Cleveland, Ohio
-Nebiyu Merdekios (visiting MS student)	May 10-Aug. 10	Selective removal of caproate with pertraction	MS student, Wageningen University, The Netherlands
-Sebastian Heger	June 10-Aug. 10	EcoTox studies for biofuels production	MS student, Technical University Aachen, Germany
-Marianna Villano	Jan. 10-June 10	Making chemical products on the cathode	Ph.D. student, Sapienza University of Rome, Italy
-Wiratni	Jul. 09-Apr. 10	Low-tech anaerobic digester for farmers in Indonesia	Associate Professor, Gadjah Mada University, Indonesia
-Renato Carrhá Leitão	Sept. 09-Nov. 09	Solids digestion	Researcher, Brazilian Agricultural Research Corporation (Embrapa)

-Arjan Dekker (visiting MS student)	Jul. 09-Nov. 09	Selective removal of n-butyrate with pertraction and the effect on butyrate fermentation	MS student, Wageningen University, The Netherlands
-Nathan Ball	Jun. 09-Aug. 09	Pure-culture studies in bioelectrochemical systems	MS student, KAUST, Saudi-Arabia
-Brett Barron	Summer 07, 08, 09	MFC labs and kits for high-school students	Chemistry high-school teacher, Hazelwood Central High School District, MO
-Amanda Scampini	April 09-May 09	Upflow anaerobic sludge blanket treatment of acidified brewery wastewater	MS student, MIT, MA
-Khalidah Jafaar (Cornell Humphrey Fellow)	Sept. 08-April 09	Anaerobic digestion of date-palm waste	M.Eng. student, Cornell
-Zeynep Aydinkaya (visiting MS student)	Jan. 08-Jan. 09	Anaerobic digestion of domestic wastewater in UASB and AMBR systems	MS student, Bogaziçi University, Turkey
-Jan Arends (visiting MS student)	Oct. 07-April 2008	Mechanisms of exocellular electron transfer with knock-out strains of <i>Pseudomonas aeruginosa</i>	Ph.D. student, Verstraete Lab, Gent University, Belgium
-Erin Roades	Summer 07	Research Experience for Teachers project	Chemistry high-school teacher, Hazelwood Central High School District, MO
-Young Whan Kim	Sept. 02-Sept. 04	Effect of sonification on sludge characteristics and methanogenic activity	Governmental Position, Busan, South-Korea

Rotation Ph.D. Student Research Instruction

Supervised graduate students who rotated in my lab for a semester: Miya Tseng-West (Summer 2022, Uni-Tübingen); Ginés Martínez-Cano (Summer-Winter 2021); Vienvilay Phandanouvong Lozano (Fall 2012-Spring 2013, Microbiology); Alex Esche (Fall 2010, BEE); Devin Doud (Spring 2010, Microbiology); Armanda Roco (Spring 2010, Microbiology); Hnin Aung (Fall 2008, BEE); Larry Page (Spring 2008, DBBS); Joost Groot (Fall 2007, EECE); Abhas Singh (Spring 2006, EECE).

HIWI Students

Supervised BS and MS students during regular academic semesters: Hanna Heinzmann, Pauline Just, Alina Gante, Nils Botzen, Abha Al-Qoteby, Fady Samir Isaiyah Isaac; Winnie Iu; Ferran Agullé i Manobens; Johann Moore; Johanna Oefele; Diana-Sheila Heberle (May 22-present; Chemistry); Dorothea Schütterle (June 22-present; MS Molecular medicine); Annika Lilli Duczmal (April 2022-present; BS Biology); Manishkumar Ghodadara (Feb. 22-present; MS AEG); Lisa Öning (Dec. 21-present; BS Chemistry); Alli (Toyin) Oluwatoyin (Nov. 2021-present; MS Geosciences); Steffen Erdle (Oct. 2021-Dec. 2022; BS biochemistry); Elias Schermuly (Sept. 2021-present; MS Biochemistry); Janet Just (Aug. 2021-present; BS Biologie); Tilman Schramm (Apr. 21-present; BS Biology); Benedikt Jäger (Dec. 2020-Oct. 2021; BS Physics); David Keßler (Nov. 2020-Feb. 2021; BS Biology); Raphael Thomas Mayer (Jan. 2020-present; BS Umweltnaturwissenschaften); Sylvia Lemke (Sep. 2019-Mar. 2021; BS/MS Bio); Laura Gerlach (Aug. 2019-Dec. 2020; MS Bio); Daniel Boateng (Jul. 2019-Aug. 2019; MS AEG); Andreas-Mark Enkerlin (Jul. 2019-Aug. 2019 and June 2020-Sept 2021; BS Bio); Kurt Gemeinhardt (Jan. 19-Mar. 2021; MS Geo-Ecology); Nicholas-Alexander Behrens (Oct. 2018-Oct. 2019; MS Geo); Michael Buchner (Oct. 2018-Nov. 2018; BS Geosciences); Caroline Schläiß (Sept. 2018-present; BS/MS Geo-Ecology); Nicole Smith (May. 2018-Mar. 2021; MS Applied and Environmental Geoscience [AEG]); Panunporn (Elli) Tutiyaarn (Febr. 2018-present; MS AEG); Monika Temovska (Febr. 2018-present; MS AEG); and Elena Schiller (May 2017-Oct. 2018; BS Biochemistry).