

METABOLOMICS

JUNE 23–27 2019

T H E H A G U E

Metabolomics 2019 Career Night Companies and Institutions

Agilent Technologies

Focus/Mission: Whether a laboratory is engaged in environmental testing, academic research, medical diagnostics, pharmaceuticals, petrochemicals or food testing, Agilent provides laboratory solutions to meet their full spectrum of needs. Our instruments, software, services and consumables address the full range of scientific and laboratory management needs—so our customers can do what they do best: improve the world around us.

Website: <https://www.agilent.com/>

Positions: Not specified

BGI Group

Focus/Mission: Omics for All

Website: <http://www.genomics.cn/>

Positions: BGI Group has several positions opening at different levels and different fields that related to metabolomics. PhD or master's degree in biochemistry, analytical chemistry, organic chemistry or computer science with experiences on metabolomics research are welcome to apply.

National Center for Toxicological Research, Food and Drug Administration

Focus/Mission: Food and Drug Administration-focused systems biology and toxicology research

Website: www.fda.gov

Position: Ph.D., Must be an US citizen or lived in the US for 3 of 5 previous years

Institute for Molecular Medicine Finland FIMM

Focus/Mission: Precision medicine

Website: <https://www.fimm.fi/en/services/technology-centre/metabolomics>

Positions: Biostatistician Post-doc (MSc/Ph.D with few years of experience)

Karolinska Institute

Focus/Mission: The Integrative Molecular Phenotyping laboratory focuses on the molecular sub-phenotyping of obstructive lung disease. We have a strong interest in the role that bioactive lipids, diet and environmental factors play in disease etiology.

Website: <http://www.metabolomics.se>

Positions:

Post-doctoral researcher in the metabolic profiling of lipid mediators in lung disease

Post-doctoral researcher in the molecular profiling of urinary markers of lung disease

Post-doctoral researcher in metabolomics of pulmonary medicine

PhD Student in the role of bioactive lipids in rheumatoid arthritis

Core Facility Director in metabolomics

Research Engineer in metabolomics and bioanalytical chemistry

Industrial PhD Student in organic chemistry and biosynthesis of lipid mediators

Laberca

Focus/Mission: National Laboratory with activities in food chemical safety, including mass spectrometry and metabolomics.

Website: www.laberca.org

Positions:

Master's student interested in obtaining a PhD

PhDs (or Post-Docs) interested in postdoctoral positions

MS-Omics

Focus/Mission: Service provider of metabolomics to academia and industry in both Europe and the US. MS-Omics is located just north of Copenhagen, Denmark

Website: www.msomics.com

Positions: MS-Omics will likely employ one to two additional scientists within the next 6 months. They are looking for an experienced LC-MS/MS scientist (e.g. Q Exactive experience) and a data scientist with experience with high resolution metabolomics data.

Nightingale Health

Focus/Mission: Nightingale Health is a biotech company aiming to solve the global burden of chronic disease. With our proprietary blood testing technology, we reveal unique molecular insights that are otherwise invisible using standard technologies. This broader visibility allows us to predict the future risk of a person developing a disease, empowering people to make a positive impact on their health.

Website: <https://nightingalehealth.com/>

Positions: Various (Data Scientists, research sales, bioinformatics, medical researchers).

Northwest Metabolomics Center/ University of Washington

Focus/Mission: The Northwest Metabolomics Center focuses on the development and application of cutting edge targeted and global metabolomics technologies. The Center works with many collaborators and research groups on a wide range of disease and related studies.

Website: <https://northwestmetabolomics.org/Home/>

Positions: Research Scientist 3/4. Education: BS or BA required, MS or PhD desired. Experience: 5-7 years in mass spectrometry.

Osaka University

Focus/Mission: Pharmaceutical or Food company

Website: <http://linkedin.com/in/artnice-mega-fathima-171070122>

Position: PhD candidate, third year

Philip Morris Products SA

Focus/Mission: Demonstrate with scientific evidence the reduced risks for health with heated tobacco as compared to conventional cigarettes.

Website: <Pmiscience.com>

Positions: Two post-doctoral fellowships for two years focusing on protein-adducts and breathomics to be filled as soon as possible (PhD levels required).

SCIEX

Focus/Mission: SCIEX is a global leader in life science and analytical technologies, offering innovative breakthroughs in mass spectrometry. Together We Are Advancing Science. To find life changing answers

Website: www.sciex.com

Positions: Applications scientists and technical marketing positions available (Local and Global)

Syngenta

Focus/Mission: Agrochemical and seeds

Website: <https://www.syngenta.com/>

Positions: Two-year industrial Postdoc focusing on metabolomics data processing automation tool development, required: PhD, data science experience

The Netherlands X-omics Initiative

Focus/Mission: The Netherlands X-omics Initiative aims to establish a X-omics research infrastructure across the Netherlands consisting of several large-scale facilities with various expertise's (genomics, proteomics, metabolomics and data analysis, integration and stewardship).

Website: www.x-omics.nl

Positions: Data scientist / Postdoctoral researcher X-omics (PhD in a relevant discipline: data science, biology, bioinformatics, computer science, artificial intelligence)

The Ohio State University

Focus/Mission: The mission of The Ohio State University (OSU) Department of Biomedical Informatics (BMI) is to improve people's lives through innovation in research, education, and patient care.

Website: <https://www.osu.edu/>

Positions: We are seeking a metabolomics expert with computational analysis skills to work in a multi-disciplinary environment including the Campus Chemical Instrument Center core (<https://www.ccic.osu.edu/>) and the Department of Biomedical Informatics (<https://medicine.osu.edu/bmi/Pages/index.aspx>). The applicant would work collaboratively to analyze metabolomics datasets (from pre-processing to data interpretation) collected in the CCIC core for investigators within and outside OSU.

Thermo Fisher Scientific

Focus/Mission: Our mission is to enable our customers to make the world healthier, cleaner and safer. We help our customers accelerate life sciences research, solve complex analytical challenges, improve patient diagnostics, deliver medicines to market and increase laboratory productivity.

Website: www.thermofisher.com

Positions: Sales, Support, Service, R&D

University of Natural Resources and Life Sciences, Vienna; IFA Tulln

Focus/Mission: Untargeted metabolomics of fungi and microbes, agricultural plants and their interactions

Website: <https://boku.ac.at/ifa-tulln/analytikzentrum/forschungsaktivitaeten/metabolomics>

Positions: 3 PhD positions (bioinformatics)

Metabolomics 2019

Career Night Roundtable Discussants

Careers in Academia

Darren Creek, Ph.D.
Monash University, Melbourne, Australia



Dr. Darren Creek is a NHMRC Career Development Fellow and group leader of the Malaria & Metabolomics laboratory at the Monash Institute of Pharmaceutical Sciences, Monash University, Australia. Dr Creek gained his PhD in Pharmaceutics in 2008, which was followed by post-doctoral experience in clinical trials in Uganda, pharmaceutical research in Australia and parasitology research in Scotland, before starting his own academic research group in 2014. Dr Creek now leads a team of 12 researchers using metabolomics to advance pharmaceutical research.

Jessica Lasky-Su, Ph.D.
Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA



What I do:

As an epidemiologist who is focused on disease prevention, my focus is to use multi-omic data in large population-based cohorts to understand disease pathophysiology, improve precision medicine approaches for disease treatment and strive towards disease prevention. As the cumulative sum of both genetic and environmental exposures, metabolomics has proven tremendously helpful and provided valuable insight for this endeavor.

Insight into careers in academia:

I have found my career in academia to be extremely rewarding in the freedom it allows to study what is personally most interesting from a scientific point of view. While an academic career does require that you have personal drive or 'grit' in order to get things done, it also has flexibility that allows for work-life balance. I have found the interactions with my other academic colleagues to be some of the most rewarding parts of academic life, as this engagement creates scientific synergy and lasting friendships at the same time, and both of these things are essential to a fulfilled career and life!

Careers in Government

Christina Jones, Ph.D.

National Institute of Standards and Technology, Gaithersburg, Maryland, USA



Dr. Christina M. Jones is currently a Research Chemist in the Chemical Sciences Division of the National Institute of Standards and Technology (NIST) where she leads programmatic efforts focused on quality assurance and quality control for metabolomics, a tool for precision medicine. Dr. Jones joined NIST as a National Research Council Postdoctoral Associate in 2015 at the Hollings Marine Laboratory (HML) campus. While at HML, she helped establish mass spectrometry-based environmental metabolomics and lipidomics programs. Before joining NIST, she received her doctoral degree in Analytical Chemistry from the Georgia Institute of Technology where she was both a Presidential and FACES Fellow. Dr. Jones, a native of Baton Rouge, Louisiana, obtained her B.S. in Chemistry from Louisiana State University and A&M College.

Merlijn van Rijswijk, MSc, MBA

Netherlands Metabolomics Centre, Utrecht, Netherlands



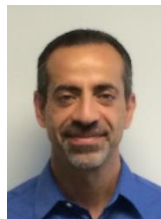
Merlijn van Rijswijk obtained Masters degrees in Chemistry (Utrecht University) and Biotechnology (Delft University of Technology). Managing Public-private programmes and working as an intermediate between Science, Policy and Industry is the red line in his career.

After his graduations, Merlijn pursued his career working for the Grant Agency of the Ministry of Economic Affairs in the Netherlands. There he coordinated a public-private research program on Catalysis and other subsidy programmes. Thereafter he joined the Ministry of Economic Affairs and was a policy officer in the field of Innovation, working on Foresighting, Biotechnology, Aeronautics and Robotics. Thereafter he was commissioned to assist the Innovation Platform, a think-tank of the Netherlands government on Innovation and Competitiveness. Thereafter he joined the Netherlands Metabolomics Centre as Director, obtained a Master of Business Administration from Rotterdam School of Management and he is currently also part-time manager of the Dutch Techcentre for Life Sciences Projects Foundation.

Careers in Industry

Fadi Abdi, Ph.D.

Biocrates Life Sciences AG, Boston, Massachusetts, USA



Fadi Abdi, Head of Biocrates Life Sciences North American Business Development obtained his PhD in Biochemistry from the University of Houston in 1999. Fadi has about 20 years of experience in Mass Spectrometry and Mass Spectrometry related businesses. During these 20 years, he has completed two postdoctoral fellowships at Harvard Medical School and Los Alamos National Lab. On the business side Fadi worked for Sciex for 14 years managing the MALDI Mass Spectrometry and the Metabolomics businesses. In 2016 Fadi joined Biognosys AG (Zurich, Switzerland) as the global Director of products sales. Last year Fadi joined Biocrates Life Sciences (Innsbruck, Austria) as the head of NA business development managing the sales and support teams.

Doris Jacobs, Ph.D.

Unilever, Rotterdam, Netherlands



Doris Jacobs joined Unilever in August 2006 in the role of Science Leader and is responsible for developing and executing the Metabolomics approach for foods. She has applied Metabolomics to food quality, food processing and nutrition across different foods. Her experience spans various analytical techniques focusing on NMR spectroscopy, data analysis and interpretation. She holds a PhD in Physical Chemistry.

Career Transitions

Charmion Cruickshank-Quinn, Ph.D.
Agilent, Santa Clara, California, USA



Charmion Cruickshank-Quinn, PhD was a Post-doctoral fellow at National Jewish Health hospital in Denver Colorado for 3 years, followed by the University of Colorado Anschutz Medical Campus in Aurora, Colorado for 2 years. During this time, she focused not only on research and publishing, but also took part in career development activities that would provide her with the teaching, writing, networking and leadership skills required to be successful in many aspects of her scientific career. This allowed her to transition to Instructor in the School of Pharmacy and then subsequently into an Application Scientist position in Agilent.

Stacey Reinke, Ph.D.
Edith Cowan University, Joondalup, Australia



Stacey Reinke received her PhD in Canada in 2011. Since then, she has made two international relocations, first to Sweden and finally to Australia. Stacey is currently a Senior Research Fellow; however, she has a passion for tertiary level teaching. She is currently studying part-time to obtain a Postgraduate Diploma in Tertiary Education, with the aim of moving into a teaching/research position.

Networking

Candace Ulmer, Ph.D.

Centers for Disease Control and Prevention, Atlanta, Georgia, USA



As a graduate student, Dr. Candice Ulmer quickly associated networking with an invaluable opportunity to better herself professionally. She applied for and received numerous travel grants to attend domestic and international conferences for the purpose of networking. It was actually through these networking efforts that she secured both her post-doctoral fellowship and current position as a clinical research chemist at the CDC.

Justin van der Hooft, Ph.D.

Wageningen University & Research, Wageningen, Netherlands



After joining his first Metabolomics Society conference in 2009 (Edmonton, Canada), Justin also joined the metabolomics community. Through various he has gotten and stayed involved with the community explaining and promoting his work on enhancing metabolite annotation workflows. He also joined the Early-career Members Network (EMN) of the MetSoc and chaired this committee. He then got elected into the Board of Directors of the MetSoc. Through this and other positions of trust he extended his network. Other examples include being a Metabolites Special Issue Editor and his activities for MetSoc Task Groups. Most recently, he championed the launch of YoungNMC, a network for early-career metabolomics scientists in area of Belgium, The Netherlands, and Luxembourg. Justin frequently visits conferences but is also active on scientific Twitter, LinkedIn, and Facebook to spread the exciting developments in metabolomics and early-career scientists related activities.

Obtaining a Postdoctoral Position

Caroline Birer, Ph.D.

University of Pittsburgh, Pittsburgh, Pennsylvania, USA



After getting my PharmD at University of d'Auvergne and my PhD at University of French Guiana in France, I applied to multiple postdoc positions abroad. I went through the steps of sending applications (cover letter, cv, email), having a Skype interview with a PI, being invited to do an interview to meet each person of the lab, and to give a job talk. I was offered a postdoc position at University of Pittsburgh in the United States and went through the visa J1 application. I do know which postdoctoral fellowship program I could have applied for as a European going to the United States based on the experiences of other postdocs I know.

Oana Zeleznik, Ph.D.

Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA



Oana Zeleznik obtained her PhD in Bioinformatics from the Graz University of Technology in Austria. After finishing her graduate studies, she applied for four post-doctoral researcher positions and was offered all four (two in the US, one in Austria and one in Sweden). She is currently a post-doctoral research fellow at the Channing Division of Network Medicine at Brigham and Women's Hospital and Harvard Medical School in Boston, USA working on the identification of novel metabolomics risk factors for breast and ovarian cancer.

Setting Up and Managing Your First Lab

Rick Dunn, Ph.D.

University of Birmingham, Birmingham, UK



Setting up your first lab and research group is both a daunting and exciting time similar to the move from home to university for the first time, it provides independence. There are many factors to consider and the most important to me when setting up my first lab were (1) What science will I focus on?, (2) What equipment do I need?, (3) What staff/students would be ideal?, (4) Where do I apply for early funding to develop my CV?, (5) Which collaborations should I foster? and (6) What is the ethos of the group?

Maria Eugenia Monge, Ph.D.

Centro de Investigaciones en Bionanociencias, Unidad Ejecutora del Consejo Nacional de Investigaciones Científicas y Técnicas, Buenos Aires, Argentina



In 2006, I obtained my Ph.D. in Inorganic, Analytical, and Physical Chemistry from the University of Buenos Aires, Argentina. In 2014, I was recruited by the National Research Council of Argentina (CONICET), after having worked for nearly 6 years in Italy, France and the USA, to start a new laboratory at CIBION, a recently founded research center of CONICET, where I am head of the Bioanalytical Mass Spectrometry (MS) Group (<https://cibion.conicet.gov.ar/mass-spectrometry/?lan=en>). My group aims to apply advanced MS techniques for biomarker discovery and early disease detection, with special emphasis on untargeted metabolomics-based diagnostics. Managing my research group has been very fulfilling and challenging, but my prior experiences equipped me with the skills to select highly qualified staff, negotiate a start-up instrumentation package, set up the laboratory, and initiate collaborations with biobanking systems and hospitals, among other things.

Women in Science

Adriana Carvalho de Souza, Ph.D.
DSM Biotechnology Center, Delft, Netherlands

Adriana Carvalho de Souza has 13 years of experience in Science in Industry. During this period, she had different positions moving from NMR hands-on Scientist at DSM Biotechnology Center in Delft to Principal Scientist. In the past 5 years, she is responsible for the Scientific Strategy and results of the full analytical lab with about 80 employees.

Nichole Reisdorph, Ph.D.
University of Colorado Anschutz Medical Campus, Aurora, Colorado, USA



Dr. Nichole Reisdorph is an Associate Professor in the Department of Pharmaceutical Sciences at the University of Colorado Anschutz Medical Campus, USA. Nichole manages a clinical metabolomics research program, directs a mass spectrometry core facility, and serves in leadership positions. She's also raised a family of 2 biological and 3 step children.

Working Abroad

Matthew Lewis, Ph.D

Imperial College London, London, UK



Matthew joined the Department of Surgery and Cancer at Imperial College London (ICL) in 2010 after successfully working to establish a metabolomics program in the core research facility at Colorado State University. He was recruited to ICL to oversee mass spectrometry operations within the Division of Computational Systems Medicine, later designing and launching the MRC-NIHR National Phenome Centre (NPC). As the Chief Operations Officer for the NPC, Matthew is responsible for the development and execution of analytical strategies as well as the Centre's portfolio of research collaborations, overseeing them from design to delivery. Working abroad has provided an opportunity to meet and collaborate with a rich diversity of talented researchers which has ultimately led to a broader and more informed perspective within the field of metabolomics and related areas of application. Ultimately these interactions and the opportunities associated with broader exposure have been key in developing rewarding and fulfilling contributions to the advancement of the field.

Sastia Putri, Ph.D.

Osaka University, Osaka, Japan



Sastia is an Assistant Professor at the Department of Biotechnology, Graduate School of Engineering, Osaka University. Sastia received her B.Sc. degree in 2004 from Bandung Institute of Technology (ITB) Indonesia. After her undergraduate study, she received a fellowship from UNESCO to take part in a one-year training program in Biotechnology at Osaka University. She then continued her graduate studies and received her master's degree in 2008 and PhD degree in 2010 from International Center for Biotechnology, Osaka University. She worked as postdoctoral researcher for 2 years before getting a faculty position in 2014 and got an adjunct lecturer position in her former university in Indonesia in the same year. She obtained a tenured position in 2016 and is managing active research collaborations in the field of microbial and food metabolomics with various academic institutions and private companies.