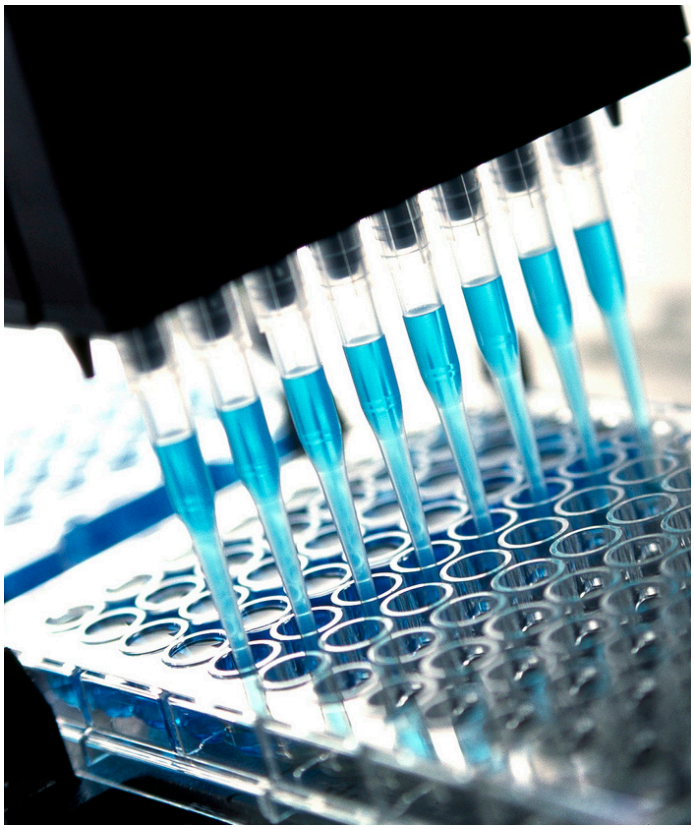
SPOTLIGHT ON SCIENTIFIC LEADERSHIP IN CENTRAL LABORATORIES

In an increasingly complex clinical development environment, access to highly-qualified PhDs who can provide insights to formulate testing strategies are instrumental in delivering seamless and efficient service.

Medpace is known for putting scientific guidance at the forefront of client relationships. Our team of PhD scientists bring specialized knowledge in a variety of testing methodologies and therapeutic clinical development including:

- Biochemistry
- Bioinformatics
- Clinical assay development
- Clinical chemistry
- Coagulation
- ELISA
- Enzyme kinetic assays
- Flow cytometry
- Histology
- Immunoassay systems
- Ligand binding assays
- Molecular oncology
- Nephelometry assays
- Next Gen Sequencing
- PCR, RTPCR
- Sanger Sequencing
- Toxicology
- Translational immunology
- Urinalysis
- Virology



With scientific expertise embedded in each study, we provide a tailored solution from start to finish in a way that isn't readily available elsewhere. We believe that the science of each study comes first, and these leaders help facilitate that philosophy.

GLOBAL LEADERSHIP

Traci Turner, MD
Vice-President, MRL Operations & MARC

Paul Thiam Joo Tan, PhD
Senior Director, Clinical Laboratory Services

El Mustapha Bahassi, PhD
Senior Director, Clinical Laboratory

Robert McGee, MD PhD
Senior Medical Director, Clinical Laboratory

Dean Franckaert, PhD
Senior Director, Clinical Laboratory

John Robbins, PhD
Director, Clinical Laboratory

Santica Marcovina, PhD, ScD FAHA
Senior Director, Clinical Laboratory

Evan Stein, MD, PhD
Director Emeritus

LAB LEADERSHIP

Traci Turner, MD

Vice-President, MRL Operations & MARC

Dr. Traci Turner is board certified in internal medicine and brings 15 years' experience in central laboratory operations in drug development.

Experience Summary

- Board-certified in Internal Medicine and is a Diplomate with the American Board of Clinical Lipidology
- Principal Investigator for over 50 clinical trials with lipid modifying therapies, encompassing Phase 1-3 trials
- Has overseen the successful completion of >250 lipid trials with multiple indications such as hypertriglyceridemia, dyslipidemia, non-FH and FH hypercholesterolemia, lipodystrophies, and FCS, including providing efficacy analyses for PCSK9 inhibitors that supported acceptance of FDA BLAs, European and global filings, and subsequent approvals
- Active member of the American Heart Association, National Lipid Association, and holds certification in Medical Technology from the American Society of Clinical Pathologists

Education Summary

- Doctor of Medicine, University of Cincinnati – Cincinnati, OH
- Residency, Internal Medicine, University Hospital – Cincinnati, OH
- Bachelor of Science in Medical Technology, University of Cincinnati – Cincinnati, OH

Paul Thiam Joo Tan, PhD

Senior Director, Clinical Laboratory Services, Asia-Pac

Dr. Tan is an experienced PhD scientist specialized in next-generation sequencing in pathology and oncology in clinical research.

Experience Summary

- 10+ years' experience in the direct research and development within a clinical laboratory
- Experienced in the direct management and operations of multi-country laboratories to ensure safe, cost-effective productivity and quality in all laboratory operations
- Previously served as laboratory director for laboratories in Singapore, Hong Kong, and Indonesia
- Pioneered and streamlined whole-genome sequencing workflow for the discovery of novel pathogens and infectious biomarkers using Roche 454 Junior Next Generation Sequencing platform
- Therapeutic area experience includes next-generation sequencing in pathology and oncology, genomics, immunology, blood stem cell banking, infectious diseases, and molecular diagnostics
- Well-published in several scientific journals and posters
- Member of the College of American Pathologists

Education Summary

- Doctor of Philosophy in Bioinformatics, National University of Singapore – Singapore
- Bachelor of Applied Science National University of Singapore – Singapore

El Mustapha Bahassi, PhD

Senior Director, Clinical Laboratory, US

Dr. Bahassi brings 20 years of clinical laboratory research experience specialized in molecular oncology to Medpace.

Experience Summary

- 20 years of experience in the direct research and development within a clinical laboratory
- Served as Laboratory Director and Principal Investigator for ten years with the University of Cincinnati in both the department of Cancer Biology and department of Internal Medicine, division of hematology/oncology in Cincinnati, OH
- Developed a translational line of research where he worked closely with clinical oncologists to develop new companion diagnostics using cutting-edge genomic technologies
- Experienced in biomarker development in liquid biopsies using both circulating tumor cells and circulating tumor DNA
- Strong background in molecular cell signaling and targeted therapies for breast, lung and brain tumors
- Strong experience in immune-therapy modalities especially CAR-T based therapies
- Well-published in numerous peer-reviewed scientific journals and posters
- Member of several organizations including the American Association of Neurosurgeons and the American Association for Cancer Research

Education Summary

- Doctor of Philosophy in Molecular Biology and Biotechnology
- Master of Science in Molecular Biology and Biotechnology

Robert McGee, MD PhD

Senior Medical Director, Clinical Laboratory, US

Dr. McGee is board certified in both anatomic and clinical pathology, and brings 24 years of combined experience in diagnostic and central laboratory anatomic pathology/histology to Medpace.

Experience Summary

- Board certified in both anatomic and clinical pathology, Diplomate of the American Board of Pathology, and Fellow with the College of American Pathologists and American Society of Clinical Pathology
- 20+ years of experience as Laboratory Medical Director in anatomic pathology/histology diagnostic and central laboratories
- Has overseen the successful design, validation and implementation of IVD IHC and ISH based assays for diagnostic purposes and global clinical trials, including companion diagnostic assays, and other histology-based assays used in exploratory biomarker research and development
- Active committee member of the College of American Pathologists, with assignments to the Digital and Computational Pathology Committee and Reproductive Medicine Committee

Education Summary

- Doctor of Medicine, Wake Forest University - Winston-Salem, NC
- Residency, Anatomic and Clinical Pathology, Wake Forest University Baptist Medical Center – Winston Salem, NC
- Doctor of Philosophy in Anatomy and Cell Biology, University of Virginia – Charlottesville
- Post-doctoral Research Fellowship, NIH, Research Triangle Park, NC

Dean Franckaert, PhD

Senior Director, Clinical Laboratory, Belgium

Dr. Franckaert brings several years of clinical laboratory operational and scientific leadership, mostly specializing in soluble and cellular biomarkers.

Experience Summary

- Served as CAP Laboratory Medical Director for high complexity testing for several years, with a strong background in immunology/ proteomics
- Previously held global scientific operations and scientific development leadership roles across laboratory environments driving safe, innovative, cost-effective and high-quality clinical testing
- Therapeutic areas include immune-oncology, vaccine, and infectious disease with a strong background in supporting cell therapy trials
- Well-versed in executing biomarker assay development, transfer and deployment under various quality environments including ISO15189 as well as ISO13485
- Well-published in scientific journals, member of the College of American Pathologists, and member of AAPS

Education Summary

- Doctor of Philosophy in Immunology, VIB – KU Leuven Belgium
- Master of Biomedical Sciences – KU Leuven Belgium
- Bachelor of Biomedical Sciences – KU Leuven Belgium

John Robbins, PhD

Director, Clinical Laboratory, US

Dr. Robbins is an experienced PhD scientist specialized in clinical assay development, enzyme kinetics, protein dynamics, molecular biology, ELISA, hematology, coagulation, and urinalysis.

Experience Summary

- Extensive experience in the research and development of assay validation and implementation
- Previously conducted research aimed at the development of novel biocatalysts by complementing data-driven protein engineering processes with traditional mechanistic and kinetic enzymology techniques and analyses
- Registered Agent with the United States Patent and Trademark Office
- Member of the American Chemical Society, American Society of Biochemistry and Molecular Biology, and National Association for Patent Practitioners

Education Summary

- Doctor of Philosophy in Biochemistry, Auburn University – Auburn, AL
- Bachelor of Science in Chemistry, Hampden-Sydney College – Hampden-Sydney, VA

KOL LEADERSHIP

Santica M Marcovina, PhD, ScD, FAHA

Senior Director, Clinical Laboratory Sciences, US

Dr. Marcovina is a scientist with an international reputation for her research in Lipoprotein(a), production of monoclonal antibodies and assay development, lipoprotein and apolipoprotein method standardization and laboratory management.

Experience Summary

- 35+ years of experience in performing research in academic setting
- Principal Investigator for >60 NIH-funded, multi-center clinical studies primarily on diabetes, obesity, and diabetes complications both in youths and adults and Phase 1-3 trials
- Strong experience in assay standardization having been the chairman of the International Federation of Clinical Chemistry (IFCC) working group for the standardization of apo AI and apo B, member of the American Diabetes Association working group for the standardization of insulin, member of the NIDDK consortium for the standardization of GAD-65 and IA-2 autoantibodies, and director of one of the Center for Disease Control (CDC) reference laboratories for standardization of lipids
- Fellow American Heart Association, member of the American Diabetes Association, Clinical Chemistry Association, European Atherosclerosis Society, National Lipid Association, European Association for the Study of Diabetes
- Author of 550 papers published in peer-reviewed Journals, >150 of which on Lipoprotein(a)

Education Summary

- Doctor of Philosophy in Biological Sciences with major in Biochemistry of Proteins, University of Pavia – Pavia, Italy
- Doctor of Science in Sociology with major in Sociology of Communication, University of Urbino – Urbino, Italy
- Bachelor in Medical Technology, School for Medical Technologists, Ospedale Umberto I – Ancona, Italy

Evan Stein, MD, PhD

Director Emeritus

Dr. Stein, a founder of Medpace's laboratories, is considered a foremost expert on the study of lipids.

- Founded and built Medical Research Laboratories in 1987
- Founded Medpace Labs in 2006 with the same experienced team
- Has been part of the central lab for virtually all lipid lowering agents approved and marketed since 1986
- Member of the NIH NCEP Lab Committee for methods and standardization of lab guidelines
- Advisor to the NIH NHLBI and CDC Lipid Standardization branch
- Served on FDA Clinical Chemistry and Clinical Toxicology Advisory Panel
- Consults with biopharma companies on the development programs for lipid-lowering drugs and participates in Scientific Advisory Boards

MEET THE PhD TEAM

Ali Aldhumani, PhD
Scientist

Serena Allen, PhD
Principal Scientist

Maria Ines Alvelos, PhD
Scientist

Logan Blancett, PhD
Scientist

Paige Bolcas, PhD
Scientist

Priscillia Bresler, PhD
Scientist

Ariana Cacciatore, PhD
Scientist

Fary Diop, PhD
Scientist

Sumita Elendran, PhD
Scientist

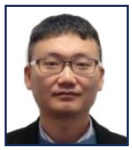
MacKenzie Freeman, PhD
Scientist

Eric Hugo, PhD
Scientist

Malina Ivey, PhD
Scientist

Anja Jaeschke, Dr. rer. nat.
Scientist

Anne-Charlotte Jonckheere, PhD
Scientist


Ilwook Kim, PhD
Bioinformatics Scientist

Sylvia Leo, PhD
Scientist

Kyle Lewis, PhD
Scientist

Mauricio Macossay Castillo, PhD
Scientist

Loriana G. Mascali, PhD
Scientist

Phuong Nguyen, PhD
Scientist

Andre Olsson, PhD
Senior Scientist

Rudy Pelicaen, PhD
Bioinformatics Scientist

Laeticia Perez, PhD
Scientist

Ranju Pokhrel, PhD
Scientist

Wenyi Qin, PhD
Bioinformatics Scientist

Kristen Rehl, PhD
Scientist

Spensor Smith, PhD
Scientist

Layne Weatherford, PhD
Scientist

Mary Wingard, PhD
Scientist

Ali Aldhumani, PhD
Scientist, US

Dr. Aldhumani is a PhD scientist with experience in biochemistry, compound screening assays, computational modeling and simulations.

Experience Summary
- Preparation of Next Generation RNA samples
- RNA based in vitro assay development for compound screening
- Experience in various biochemical techniques including plasmid preparation, polymerase chain reactions (PCR), nucleic acid isolation/ preparation/purification, and protein isolation/purification
- Prior experience in RNA based computational modeling, simulations, and compound screening
- Publications and posters in multiple journals and conferences

Education Summary
- Doctor of Philosophy in Chemistry and Biochemistry, Ohio University – Athens, OH
- Bachelor of Science in Chemistry, Gannon University – Erie, PA

Serena Allen, PhD
Principal Scientist, US

Dr. Allen is a PhD principal scientist experienced in pharmacology and toxicology clinical research.

Experience Summary
- Experienced in research and development with direct oversight of assay validation and implementation
- Specialized in development of in-house analytical chemistry methodologies
- Drove preclinical research projects to successfully characterize the in-vivo pharmacology and toxicology of synthetic drug compounds in animal models
- Member of the American Society for Pharmacology and Experimental Therapeutics and the American Chemical Society
- Well-published in scientific journals and posters

Education Summary
- Doctor of Philosophy in Biomedical Sciences, East Tennessee State University
- Master of Science in Medicinal and Biological Chemistry, University of Edinburgh
- Bachelor of Science in Pre-Medicine, the University of Tennessee at Chattanooga

Maria Ines Alvelos, PhD

Scientist, Belgium

Dr. Alvelos is a PhD scientist with specialized experience in basic and translational biomedical research in diabetes.

Experience Summary

- Expertise in multiple scientific areas including cell and molecular biology, with in-depth knowledge in diabetes pathophysiology
- Extensive research experience in molecular and cell signaling regulation, including mRNA splicing, and post-transcriptional regulation
- Strong background in several molecular assays, including Polymerase Chain Reaction (PCR), RNA sequencing, Sanger sequencing, plasmid design and cloning, immunohistochemistry, next-generation sequencing and bioinformatics approaches
- Post-doctoral training in molecular cell signaling and targeted RNA therapies for type 1 diabetes
- Strong background investigation the role of genetic variants and transcript isoforms in type 1 diabetes
- Well-published in several scientific journal, posters and oral presentation at international meetings

Education Summary

- Doctor of Philosophy in Biomedical and Pharmaceutical Sciences, Université Libre De Bruxelles – Brussels, Belgium
- Master of Sciences in Biomedical Engineering, University of Porto – Porto, Portugal
- Bachelor of Science in Biology, University of Porto – Porto, Portugal

Logan Blancett, PhD

Scientist, US

Dr. Blancett is a PhD scientist with over 10 years of specialized experience in microbiology, fungal immunology, and molecular genetics.

Experience Summary

- Expertise in multiple scientific disciplines within microbiology and molecular biology, with in-depth knowledge of bacteriology, mycology, and study of the host-pathogen interface
- Extensive experience in laboratory operations, laboratory personnel management, experimental design, and assay development
- Well-versed in microbiology techniques and genetic manipulation of microorganisms
- Previous experience in developing multiparametric spectral flow cytometry assays for immunophenotyping T cells, macrophages, dendritic cells, and neutrophils, from mouse lungs during various stages of fungal infection
- Previously conducted research characterizing virulence factors that provide antimicrobial resistance and stress response during intracellular residence of the endemic fungal pathogen Histoplasma capsulatum
- Postdoctoral training in the immunology of infectious diseases and immunometabolism within the Division of Infectious Diseases at the University of Cincinnati School of Medicine
- Well-published in top tier scientific journals and presented numerous posters and oral presentations at national and international meetings within the fields of microbiology and immunology
- Long-standing member of the American Society for Microbiology

Education Summary

- Doctor of Philosophy in Microbiology, The University of Southern Mississippi – Hattiesburg, MS
- Bachelor of Science in Biology with an emphasis on Microbiology, The University of Southern Mississippi – Hattiesburg, MS

Paige Bolcas, PhD

Scientist, US

Dr. Bolcas is a PhD scientist with experience in basic and translational immunological research.

Experience Summary

- Extensive experience in murine models of asthma and allergic disease with a focus on the immunological mechanisms
- Well-versed in assay development and optimization for in vitro cell culturing, ELISA, PCR, Western Blotting, and Flow Cytometry testing
- Previously studied the effects of a single amino acid substitution on the photoreduction of cryptochrome and the effects of magnetism on plant growth at the University of Paris VI: Pierre et Marie Curie in France
- Well published in several scientific journals and posters

Education Summary

- Doctor of Philosophy in Immunology, University of Cincinnati – Cincinnati, OH
- Bachelor of Science in Biology, Xavier University – Cincinnati, OH

Priscillia Bresler, PhD

Scientist, Belgium

Dr. Bresler is a PhD scientist with specialized experience in immunology and analytical assay development using flow cytometry.

Experience Summary

- Well-versed in laboratory operations ensuring accurate, precise, and medically reliable data
- Experienced in the management of laboratory research and clinical development
- Extensive experience investigating neuroinflammation on microglial cells and hiPSC (human induced Pluripotent Stem Cells)
- Strong background investigating the role of microglial cells in neurodegenerative diseases at UCB Pharma in Braine-L'alleud, Belgium
- Specialized experience in mucosal immunology by studying the development and characteristics of innate lymphoid cells at the Necker-Enfants Malades Institute in Paris, France
- Previously studied the inhibitory activity of patient's neutrophils in response to Aspergillus Fungus at Pitié-Salpêtrière University Hospital in Paris, France
- Well-published in several scientific journals and posters
- Holds a Master of Animal Experimentation certificate

Education Summary

- Doctor of Philosophy in Immunology, Paris Descartes University – Paris, France
- Master of Science in Technologies and Health, Pierre et Marie Curie University – Paris, France
- Master of Science in Molecular & Cellular Biology, Pierre et Marie Curie University – Paris, France
- Master of Science in Cancerology, Paris-Sud XI University – Paris, France
- Bachelor of Science in Cellular Biology & Physiology, University of Sherbrooke – Quebec, Canada

Ariana Cacciatore, PhD
Scientist, US

Dr. Cacciatore is a PhD scientist with experience in bioanalytical method development and validation, and a specialized background in enzyme kinetics and oncogenic cell signaling.

Experience Summary

- Extensive experience in design, optimization, and validation of multiple complex bioanalytical and analytical methods
- Technical expertise spanning enzymatic activity, ELISA, PCR, PBMC isolation, cell-based potency assays, Western Blotting, HPLC, and mass spectrometry techniques
- Previously managed bioanalytical team focused on large molecule pharmaceutical analysis within a GMP-regulated environment
- Previously studied the enzymatic modification of the oncogenic protein KRas and its downstream signaling implication in cancers

Education Summary

- Doctor of Philosophy in Chemistry, Purdue University – West Lafayette, IN
- Bachelor of Science in Chemistry, Emmanuel College – Boston, MA

Fary Diop, PhD
Scientist, Belgium

Dr. Diop is a PhD scientist with specialized experience in hematology and clinical research.

Experience Summary

- Well-versed in laboratory operations ensuring accurate, precise, and medically reliable data
- Extensive experience researching activities on hematological diseases through a next-generation sequencing approach
- Previous experience with diagnostic activities on hematological diseases using molecular biology techniques
- Well-published in several scientific journals and posters

Education Summary

- Doctor of Philosophy in Science and Medical Biotechnologies, University of Eastern Piedmont – Novara, Italy
- Master of Science in Medical Biotechnologies, University of Eastern Piedmont – Novara, Italy
- Bachelor of Science in Biological Sciences, University of Eastern Piedmont – Alessandria, Italy

Sumita Elendran, PhD
Scientist, Singapore

Dr. Sumita Elendran is a PhD scientist specialized in pharmaceutics, drug delivery systems and pharmacology and brings three years of clinical research laboratory experience to Medpace.

Experience Summary

- Skilled in extracting, isolating and characterizing phytochemicals with potential nutraceutical and pharmaceutical content
- Well-versed in developing successful drug delivery systems for phytochemicals to address challenges such as bioavailability subsequently enhancing their therapeutic potential for pharmaceutical applications
- Drove pre-clinical research projects to successfully characterize the in-vivo pharmacology and toxicology of bioactive compounds in animal models
- Experiences in laboratory operations ensuring accurate, timely and medically reliable data
- Well-published in scientific journals, posters and oral presentations at international meetings Member of the Royal Pharmaceutical Society

Education Summary

- Doctor of Philosophy in Pharmacology, Monash University, Australia
- Bachelor of Science in Biotechnology, Monash University, Australia

MacKenzie Freeman, PhD
Scientist, US

Dr. Freeman is a PhD scientist with experience in virology, as well as cellular and molecular biology, with an emphasis on the mechanisms of G protein coupled receptor signaling.

Experience Summary

- Well versed in assay development and optimization for in vitro cell culture, GPCR signaling, and flow cytometry
- Experienced in molecular assays, including polymerase chain reaction (PCR), plasmid design and cloning, and protein isolation/purification

Education Summary

- Doctor of Philosophy in Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati College of Medicine – Cincinnati, OH
- Bachelor of Science in Biochemistry and Molecular Biology, Wittenberg University – Springfield, OH

Eric Hugo, PhD

Scientist, US

Dr. Hugo is a PhD scientist with over 20 years specialized experience in adipocyte and cancer biology clinical research and leadership roles in academia.

Experience Summary

- Expertise in multiple scientific areas including cell and molecular biology, with in-depth knowledge of cancer biology
- Participated in drug discovery using high throughput screening with in-house developed bioassays
- Developed immunohistochemical procedures for identifying new tumor biomarkers in breast and head and neck cancers
- Extensive knowledge of adipocyte biology including human cell line creation
- Skilled with CRISPR-based genomic editing and recombinant lentivirus design and production
- Extensively published in multiple scientific journals and posters
- Over 15 years' experience as a grant reviewer for NIH, GACR, and ANR
- Postdoctoral training in protein biophysics at Washington University School of Medicine
- Postdoctoral training in endocrinology, metabolism and cancer biology at the University of Cincinnati College of Medicine
- Member of the American Society of Biochemistry and Molecular Biology

Education Summary

- Doctor of Philosophy in Molecular Genetics, The Ohio State University – Columbus, OH
- Master of Science in Microbiology, The Ohio State University – Columbus, OH
- Bachelor of Science in Biology, Northern Kentucky University – Highland Heights, KY

Malina Ivey, PhD

Scientist, US

Dr. Ivey is a PhD scientist specialized in cardiovascular, molecular, and cellular biology.

Experience Summary

- Expertise in multiple scientific areas including cell and molecular biology, with in-depth knowledge of both cardiovascular and fibroblast biology
- Experience in various techniques including flow cytometry, immunohistochemistry, Polymerase Chain Reaction (PCR), RNA isolation/preparation/purification, primary cell isolation and *in-vitro* cell culture
- Extensive experience using transgenic mouse models to trace and manipulate cardiac fibroblasts in vivo for identification of pre clinical molecular targets
- Well-published in several scientific journals
- Numerous poster and oral presentations at scientific meetings

Education Summary

- Doctor of Philosophy in Cell and Molecular Biology, University of Hawaii at Manoa – Honolulu, HI
- Master of Science in Molecular Biosciences and Bioengineering, University of Hawaii at Manoa – Honolulu, HI
- Bachelor of Science in Biology, Gonzaga University – Spokane, WA

Anja Jaeschke, Dr. rer. nat.

Scientist, US

Dr. Jaeschke is a scientist with experience in metabolic and cardiovascular diseases, signal transduction, and oncology.

Experience Summary

- 15+ years of experience in performing research in academic setting
- Principal investigator for NIH-funded research focusing on fatty liver disease
- Extensive research experience in murine models of obesity, type 2 diabetes, fatty liver disease and atherosclerosis
- Generated knock-in mouse model for the chemical-genetic analysis of JNK2
- Well versed in immunological, histological, cellular, molecular and biochemical methods and assays
- Well-published in high-impact scientific journals and invited oral presentations at international meetings

Education Summary

- Postdoctoral Fellow in Molecular Medicine, UMass Medical School – Worcester, MA
- Postdoctoral Fellow in Mechanisms of Cancer, Friedrich Miescher Institute – Basel, Switzerland
- Doctor of Natural Sciences in Biology, Albert Ludwigs-University Freiburg – Freiburg, Germany
- Diploma in Biology, University of Kaiserslautern – Kaiserslautern, Germany

Anne-Charlotte Jonckheere, PhD

Scientist, Belgium

Dr. Jonckheere is a PhD scientist with experience in fundamental research, immunology, flow cytometry as well as in vivo murine models.

Experience Summary

- Extensive experience in murine models for non-allergic asthma with a focus on immunological mechanisms
- Well-versed in ELISA, PCR and Flow Cytometry testing
- Extensive experience in mucosal immunology by investigating innate lymphoid cells and regulatory T cells in asthma at the KU Leuven, Belgium
- Experience in patient recruitment and setting up clinical trial to characterize innate lymphoid cells in asthma patients at UZ Leuven, Belgium
- Well-versed in laboratory operations and experimental design
- Experienced in management of lab research
- Well-published in several scientific journals and posters and oral presentations at several international meetings

Education Summary

- Doctor of Philosophy in Biomedical Sciences, KU Leuven, Leuven, Belgium
- Master of Science in Biochemistry and Biotechnology, KU Leuven, Leuven, Belgium
- Bachelor of Science in Medical Laboratory Technology, UC-Leuven Limburg, Leuven, Belgium
- Master of Animal Experimentation certificate, KU Leuven, Leuven, Belgium

Ilwook Kim, PhD

Bioinformatics Scientist, Belgium

Dr. Kim is a PhD scientist with experienced in cancer genomics, next-generation sequencing (NGS) and molecular biology.

Experience Summary

- Well-versed in the analyzation of clinical data produced by next-generation sequencing
- Experience in the machine learning and biomarker discovery
- Strong background in both computational biology and experimental biology
- Experience in the development of R packages for the next-generation sequencing analysis

Education Summary

- Doctor of Philosophy in Biology, Friedrich-Schiller-University Jena – Jena, Germany
- Master of Science in Biology, Kyonggi University – Suwon, Korea

Kyle Lewis, PhD

Scientist, US

Dr. Lewis is a PhD scientist with experience in immunology, hepatology, and stem cell biology.

Experience Summary

- Extensive experience in laboratory operations and experimental design
- Expertise in designing and conducting complex flow cytometry assays
- Deep understanding of the fields of immunology, hepatology, and iPS cell derived therapeutics
- Well-published in scientific journals as well as poster and oral presentations at international meetings

Education Summary

- Doctor of Philosophy in Molecular and Cellular Biology, Baylor College of Medicine – Houston, TX
- Bachelor of Science in Biological Sciences, Wright State University – Dayton, OH

Sylvia Leo, PhD

Scientist, Singapore

Dr. Leo is a PhD scientist specialized in enterology, immunology, molecular and stem cell biology.

Experience Summary

- Expertise in iPS cell derived therapeutics with a focus on stem-cell derived enterocyte drug model systems
- Extensive experience in pharmacokinetic testing of drugs on iPS derived cell models
- Experienced in PBMC isolation and T-cell maturation and differentiation
- Well-versed in molecular biology techniques such as in-vitro cell and organoid culture, qPCR and next-generation sequencing (NGS)
- Skilled in ELISA and other immunofluorescent and cell-based assays

Education Summary

- Doctor of Philosophy in Life Science and Technology, Tokyo Institute of Technology – Japan
- Master of Engineering in Life Science and Technology, Tokyo Institute of Technology – Japan
- Bachelor of Science in Biological Sciences, Nanyang Technological University – Singapore

Mauricio Macossay Castillo, PhD

Scientist, Belgium

Dr. Macossay Castillo is a PhD scientist with experience in fundamental research, as well as in the hospital clinical laboratory and clinical research.

Experience Summary

- Experienced in the study of the relationship between protein structure and function through bioinformatics approaches
- Well-versed in several areas of the hospital clinical laboratory, such as hematology, coagulation, microscopy, clinical chemistry, urinalysis, immunoassay, nucleic acid extraction, viral load, and T-cell count
- Participated in the development of a molecular test for the detection of viremia and genotyping of the hepatitis C virus
- Well-published in several scientific journals and posters

Education Summary

- Doctor of Philosophy in Bioengineering Sciences, Vrije Universiteit Brussel – Brussels, Belgium
- Master of Science in Molecular Biology, Vrije Universiteit Brussel – Brussels, Belgium
- Bachelor's Degree in Pharmacy, Chemistry and Biology, Universidad Autonoma de Yucatan – Merida, Mexico

Loriana G. Mascali, PhD

Scientist, Belgium

Dr. Mascali is a PhD scientist with specialized experience in endocrinology, neuro-immunology and analytical assay development using flow cytometry.

Experience Summary

- Expertise in multiple scientific areas including cell and molecular biology, with in-depth knowledge of neuro-immunology
- Well-versed in laboratory operations ensuring accurate, precise, and medically reliable data
- Experienced in the management of laboratory research
- Strong background investigating the role of Tregs cells in brain diseases
- Developed immunohistochemical procedures for identifying immune cells activation and interaction in brain diseases
- Skilled with CRISPR-based genomic editing
- Strong background in molecular cell signaling and targeted therapies for T1DM and T2DM
- Well-published in numerous peer-reviewed scientific journals and posters

Education Summary

- Doctor of Philosophy in Endocrinological Science, University of Catania – Catania, Italy
- Master of Science in Cellular and Molecular Biology, University of Catania – Catania, Italy
- Bachelor of Science in Biology, University of Catania – Catania, Italy
- Master of Animal Experimentation certificate, KU Leuven – Leuven, Belgium

Phuong Nguyen, PhD

Scientist, US

Dr. Nguyen is a PhD scientist with specialized experience in molecular pharmacology, cancer biology, and cancer immunobiology.

Experience Summary

- Extensive experiences in multiple scientific areas including molecular pharmacology and molecular biology with a focus on cancer biology and cancer immunobiology
- Well versed in designing and conducting polychromatic- flow cytometry assays for immunotyping of T cells, B cells, plasma cells including CD4, CD8, and Treg cells
- Expertise in investigating the role of tumor-intrinsic Cdc42, an oncogene in regulation of T cells activity, which involves in tumor immunogenicity in the Department of Hematology, Cancer and Blood Diseases at Cincinnati Children's Hospital Medical Center
- Well-published in top reputative scientific journals and several poster presentations at international meetings in her field

Education Summary

- Doctor of Philosophy in Pharmaceutical Chemistry, Chosun University – Kwangju, South Korea
- Master of Pharmacy in Molecular Pharmacology, Chosun University – Kwangju, South Korea
- Bachelor of Pharmacy, Hanoi University of Pharmacy – Hanoi, Vietnam

Andre Olsson, PhD

Senior Scientist, US

Dr. Olsson is an experienced PhD senior scientist specialized in experimental hematology as well as immunobiology.

Experience Summary

- Extensive experience in multiple scientific areas including cell and molecular biology with focus on myeloid cell fate
- Well versed in developing multiparametric flow cytometry assays for detection of hematopoietic cell populations
- Previously combined flow cytometry sorting with single cell RNA-seq and single cell ATAC seq for novel discovery of cell lineage decisions
- Well-published in top tier scientific journals and have made several poster and oral presentations at international meetings in his field

Education Summary

- Doctor of Philosophy in Experimental Hematology, Lund University – Lund, Sweden
- Master of Science in Molecular Biology, Lund University – Lund, Sweden

Rudy Pelicaen, PhD

Bioinformatics Scientist, Belgium

Dr. Pelicaen is a PhD scientist with specialized experiences in bioinformatics and microbiome research.

Experience Summary

- Well-versed in the analysis of experimental data produced by next-generation sequencing
- Developed genome-scale metabolic models of bacterial species and bioinformatic pipelines for microbiome data analysis
- Well-published in several scientific journals and posters
- Previous experience with the Université Catholique de Louvain as a Postdoctoral Research Associate at the Louvain Drug Research Institute

Education Summary

- Doctor of Philosophy in Sciences and Bioengineering Sciences, Université libre de Bruxelles and Vrije Universiteit Brussel, Brussels, Belgium
- Master of Science in Bioinformatics and Modeling, Université libre de Bruxelles
- Master of Science in Bioengineering Sciences, Vrije Universiteit Brussel

Laeticia Perez, PhD

Scientist, Belgium

Dr. Perez is a PhD scientist with experience in toxicology, fundamental research, molecular biology and big data analyses.

Experience Summary

- Extensive experience in particle and fiber toxicology.
- Well-versed in in vitro culture, RT-qPCR, NGS and contrast microscopy.
- Experience in clinical chemistry, ELISA and bioinformatics.
- Well-published in several scientific journals and posters and oral presentations at several international meetings.

Education Summary

- Doctor of Philosophy in Biomedical & Pharmaceutical Sciences, Université Catholique de Louvain, Brussels, Belgium
- Junior Data analyst certificate, Université Catholique de Louvain, Brussels, Belgium
- Master of Science in Biomedicine, specialized in toxicology, Université Catholique de Louvain, Brussels, Belgium
- Bachelor of sciences in Biomedicine, Université Catholique de Louvain, Brussels, Belgium

Ranju Pokhrel, PhD

Scientist, US

Dr. Pokhrel is a PhD scientist with specialized experience in biochemistry, analytical chemistry and assay development.

Experience Summary

- Well-versed in laboratory operations ensuring accurate, precise, and medically reliable data
- Expertise in basic microbiology and molecular biology techniques
- Previous experience with protein purification and characterization, peptide synthesis and purification and designing and development of binding assays
- Well-published in several scientific journals and posters

Education Summary

- Doctor of Philosophy in Chemistry and Biochemistry, Ohio University – Athens OH
- Master of Science in Microbiology, Tribhuwan University – Kathmandu, Nepal

Wenyi Qin, PhD

Bioinformatics Scientist, US

Dr. Qin is a PhD scientist with specialized experienced in bioinformatics and clinical research.

Experience Summary

- Well-versed in the analyzation of experimental data produced by next-generation sequencing
- Developed novel data integration statistical framework in identifying disease-related genes and pathways
- Well-published in several scientific journals and posters
- Previous experience with the Yale University School of Medicine as a Postdoctoral Research Associate, Department of Genetics

Education Summary

- Doctor of Philosophy in Bioinformatics, the University of Illinois at Chicago – Chicago, IL
- Bachelor of Science in Biological Science, Fudan University – Shanghai, China

Kristen Rehl, PhD

Scientist, US

Dr. Rehl is a Ph.D. scientist with experience in cancer biology, molecular biology and assay development.

Experience Summary

- Strong background in multiple scientific areas including molecular biology and molecular pharmacology with a focus on cancer biology
- Extensive experience in in-vitro assay development and optimization, and experimental design
- Well-versed in molecular biology techniques such as *in-vitro* cell culturing, Western blotting, Polymerase Chain Reaction (PCR), molecular cloning, immunohistochemistry and fluorescent microscopy
- Previously conducted research aimed at investigating the molecular mechanisms of action of novel anti-cancer therapies in pancreatic and lung cancer cell models
- Well-published in several peer-reviewed journals and has made several poster and oral presentations at conferences

Education Summary

- Doctor of Philosophy in Biomedical Sciences, Wright State University – Dayton, OH
- Bachelor of Science in Molecular Genetics, The Ohio State University – Columbus, OH

Spenser Smith, PhD

Scientist, US

Dr. Smith is a PhD scientist specialized in skeletal, cellular, and molecular biology.

Experience Summary

- Extensive experience in molecular and cell signaling regulation, including microRNAs, mRNA stability, and post-transcriptional regulation
- Strong background in assay development, and experimental optimization and validation.
- Well versed in genetic experimental techniques and modifications
- Experienced in several molecular assays, including Polymerase Chain Reaction (PCR), RNA sequencing, plasmid and viral design and cloning, protein purification, immunohistochemistry, RNA-immunoprecipitation, and reporter assays
- Well published in several scientific journals and numerous poster and oral presentations at international meetings in his field

Education Summary

- Doctor of Philosophy in Biomedical Science, University of Connecticut – Farmington, CT
- Bachelor of Arts in Biology and History, The College of Idaho – Caldwell, ID

Layne Weatherford, PhD
Scientist, US

Dr. Weatherford is a PhD scientist experienced in immunology and cancer biology basic and translational research.

Experience Summary

- Broad experience in cell and molecular biology with a focus on mechanisms related to carcinogenesis and resistance to therapy
- Experienced in performing translational research using primary tumor cells and analyzing biomarker data from cancer immunotherapy clinical trials
- Strong background in molecular signaling pathways dysregulated in cancers
- Postdoctoral training in cancer biology at Vanderbilt University School of Medicine
- Postdoctoral training in immunology and cancer biology at University of Cincinnati College of Medicine

Education Summary

- Doctor of Philosophy in Cancer Biology, Wayne State University – Detroit, MI
- Bachelor of Science in Biology, Michigan State University – East Lansing, MI

Mary Wingard, PhD
Scientist, US

Dr. Wingard is a PhD scientist with specialized experienced in cardiovascular science.

Experience Summary

- Expertise in multiple scientific areas including cardiovascular physiology
- Extensive experience in cellular and molecular basis of cardiac dysfunction
- Developed and conducted studies identifying sex specific effects of western-type diet on cardiac outcomes in ATM deficient mice
- Experienced in the management of laboratory research
- Well published in several scientific journals and conferences
- Member of the American Heart Association

Education Summary

- Doctor of Philosophy in Biomedical Sciences, James H. Quillen College of Medicine – Johnson City, TN
- Bachelor of Science, Charleston Southern University – Charleston, SC

GLOBAL CENTRAL LABORATORIES

Medpace provides customized, high-quality central laboratory services to pharmaceutical and biotech clinical development industries. Our four wholly-owned laboratories offer full-service support to six continents for phase I-IV studies in a wide range of complexity and scale. Our standardized testing platforms, comprehensive test menu, scientific leadership, and stellar project management teams allow Medpace to set up fully customized projects for our clients.

Central Laboratories Highlights:

- Serving some of the world's largest, most complex clinical trials
- Extensive capacity and global scalability in state-of-the-art facilities
- Fully-harmonized, high throughput instrumentation delivering high quality data
- On-time data transfers
- Biomarker development, validation and PD analysis
- Industry-leading quick validation timelines
- Web-based data portal – ClinTrak® Lab – provides seamless data management delivered in a single integrated global database

SUPPORTING CLINICAL TRIALS IN 75+ COUNTRIES

FULL-SERVICE CLINICAL DEVELOPMENT

Medpace is a scientifically-driven, global, full-service clinical contract research organization providing Phase I-IV clinical development services to the biotechnology, pharmaceutical and medical device industries. Medpace's mission is to accelerate the global development of safe and effective medical therapeutics through its high-science and disciplined operating approach that leverages local regulatory and deep therapeutic expertise across all major areas including oncology, cardiology, metabolic disease, endocrinology, central nervous system and anti-viral and anti-infective.

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