Z4G Global ZJU For Social Good

SGF 2024 WHS

4th SINO-GERMAN SUSTAINABLE DEVELOPMENT FORUM

Advances in Medical Research and Care

浙江大學 ZHEJIANG UNIVERSITY

WORLD HEALTH SUMMIT

CHARITÉ UNIVERSITÄTSMEDIZIN BERLIN

Time: Wednesday, October 16, 2024 (08:00-17:30, GMT +1)

Venue: Salon 21 Dublin, 2nd floor, JW Marriott Hotel Berlin (On-site only)

SCHEDULE

TIME: Berlin :08:00-08:30	**Registration**
TIME: Berlin :08:30-08:50	**Opening**

Opening & Welcome Remarks

Xiaoming Li
Vice President, Zhejiang University

Axel R. Pries
President, World Health Summit

Joachim Seybold
Deputy Medical Director,
Charité- Universitätsmedizin Berlin

TBC
Chief Representative, DAAD

Moderator: Zhimin Lu
Deputy Dean, School of Medicine, Zhejiang University

TIME:
Berlin :08:50-09:10

Keynote Speech I

George Fu Gao
Academician of Chinese Academy of Sciences; Professor, The D.H. Chen School of Universal Health, Zhejiang Universit
Title:COVID-19: Virus discovery and development of vaccibes and therapeutic monoclonal antibodie

TIME:
Berlin :09:10-10:40

Session I :
Neuroscience & Mental Care

Xiaoming Li
Professor and Director, Institute of Neuroscience; Director, Brain Center, The 2nd Affiliated Hospital, School of Medicine, Zhejiang University
Title: Neural mechanisms and targets of anxiety disorders

Dietmar Schmitz
Professor and Director, Neuroscience Research Center, Charité- Universitätsmedizin Berlin
Title: Synchronization of neuronal networks at high speed

Yunzhe Liu
Professor, Beijing Normal University and the Chinese Institute for Brain Research
Title: Grid Cell-Like Code Development Improves Knowledge Mapping and Assimilation

Maria Böttche
Professor, Clinical psychological intervention, Freie Universität Berlin
Title: Hard to reach - Difficult to treat? Internet-based Interventions for individuals with PTSD

Panel Discussions

Moderator: Shuyan Liu

Professor and Head of the Centre for Population Neuroscience and Stratified Medicine (PONS) and research group Environment and Mental Health, Charité- Universitätsmedizin Berlin

SCHEDULE

TIME: Berlin :10:40-11:00	**Coffee Break**

TIME: Berlin :11:00-12:30	**Session II :** **New Development of Cancer & Immunology Therapy**

Gerhard Krönke
Professor and Director, Department Rheumatology and Clinical Immunology, Charité- Universitätsmedizin Berlin
Title: Resetting autoimunity in inflammatory autoimmune disease

Zhimin Lu
Professor and Dean, Institute of Translational Medicine, Zhejiang University
Title: Metabolic Reprogramming and Immune Evasion in Cancer

Manfred Dietel
Professor, Institute of Pathology, Charité-Universitätsmedizin Berlin
Title: Molecular Pathology and New Trends in Precision Oncology

He Huang
Professor and Director, Bone Marrow Transplantation Center, The First Affiliated Hospital, School of Medicine, Zhejiang University
Title: Clinical research on Novel cellular therapy

Panel Discussions

Moderator: Yi Sun

Professor, Cancer Institute,
The 2nd Affiliated Hospital, and Institute of Translational Medicine,
School of Medicine, Zhejiang University

TIME:
Berlin :12:30-13:30

Lunch
(Restaurant The Market, 1st floor, JW Marriott Hotel Berlin)

TIME:
Berlin :13:30-13:50

Keynote Speech II

Britta Eickholt
Professor and Director, Center for Basic Medicine and Institute of Biochemistry and Molecular Biology, Charité- Universitätsmedizin Berlin
Title: From actin dynamics to membrane trafficking: Intracellular mechanism controlling astrocyte reactivity and scar formation in models of CNS injury

TIME:
Berlin :13:50-15:20

Session III :
Women & Children Diseases and Research

Pumin Zhang
Professor, Institute of Translational Medicine & The First Affiliated Hospital, School of Medicine, Zhejiang University
Title: Identifying Therapeutic Targets for Triple-Negative Breast Cancer

Jalid Sehouli
Professor and Director, Clinic for Gynecology with Centre for Oncological Surgery, Charité- Universitätsmedizin Berlin
Title: Current aspects in the treatment of gynecological malignancies

Yi Sun
Professor, Cancer Institute, The 2nd Affiliated Hospital, and Institute of Translational Medicine,School of Medicine, Zhejiang University
Title:CRL3 E3 ligase regulates glutamine and cystine metabolisms in breast cancer

SCHEDULE

Sonja Entringer
Professor, Institute of Medical Psychology,
Charité- Universitätsmedizin Berlin
Title: Maternal stress during pregnancy
- implications for developmental programming of health and disease risk across the lifespan

Panel Discussions
Moderator: Jing Zhang
Professor and Director, National Brain Bank,
School of Medicine, Zhejiang University

TIME: Berlin :15:20-16:00	**Coffee Break**

TIME: Berlin :16:00-17:30	**Session IV :** **AI & New Technology Implementation in Medicine**

Evgenij V. Potapov
Professor, German Heart Center of the Charité (DHZC),
Charité- Universitätsmedizin Berlin
Title: Durable Mechanical circulatory support
- present and future

Junming Zhu
Professor, The Second Affiliated Hospital,
School of Medicine, Zhejiang University
Title: The study of invasive brain computer interface in motor function reconstruction and clinical transformation

Moritz Queisner
Professor, Experimental Surgery,
Charité- Universitätsmedizin Berlin
Title: Surgery 4.0 – What is Digital Surgery?

Zhan Zhou
Associate Professor, College of Pharmaceutical Sciences,
Zhejiang University
Title:AI-based Tumor Neoantigen Predicition and Personalized Vaccine Design

Panel Discussions

Moderator: Pumin Zhang
Professor ,
Institute of Translational Medicine & The First Affiliated Hospital,
School of Medicine, Zhejiang University

BIOGRAPHIES

Xiaoming Li

Vice President, Zhejiang University
Director, Institute of Neuroscience
Director, Brain Center of the Second Affiliated Hospital
School of Medicine

Xiao-Ming Li, MD/PhD, assumed the role as Vice President of Zhejiang University in October 2022. He is Director of the Brain Center of the Second Affiliated Hospital of Zhejiang University School of Medicine; Director of the Institute of Neuroscience of Zhejiang University; Chairman of the School of Medicine Council Zhejiang University. Prior to his current position, Prof. Li served successively as Deputy Dean of Zhejiang University School of Medicine, Vice President of the Second Affiliated Hospital, Executive Dean of Zhejiang University School of Medicine, etc.

His main research interests focus on understanding the circuit and molecular mechanisms underlying the emotions and related disorders, in identifying targets to develop therapeutic strategies for treating psychiatric disorders such as anxiety and depression disorders. He is the chief scientist of the Major Project of the National Natural Science Foundation "Mechanisms and Clinical Translation of Anxiety Disorder" and the Major Project of the Ministry of Science and Technology "Research on the Neural Circuit Mechanism of Fear Emotion". Representative papers have been published in Cell, Nature Medicine, Nature Neuroscience, Neuron, Biological Psychiatry, etc.

BIOGRAPHIES

Joachim Seybold

Deputy Medical Director
Deputy Director of International Affairs
Charité- Universitätsmedizin Berlin

PD Dr. Joachim Seybold assumed the office of Deputy Medical Director of Charité – Universitätsmedizin Berlin in 2010.

Joachim Seybold was educated in Germany and the United Kingdom. He read Medicine at the Justus Liebig University in Germany where he qualified in 1994. After junior medical posts at the university hospital, he obtained a research training fellowship from the Deutsche Forschungsgemeinschaft (DFG) to study at the Imperial College in London from 1994 to 1996.

He worked as a research fellow at the National Heart and Lung Institute in London before continuing his medical studies and research at Justus Liebig University. In 1999 he moved to Charite – Universitätsmedizin Berlin.

He specialized in Internal Medicine at the Charité - Universitätsmedizin Berlin in 2003 and became a consultant in the fields of respiratory and infectious diseases. He was awarded an MBA degree from the University of Bradford (UK) in 2004. In 2010 Dr. Seybold earned the status of a university lecturer (Habilitation) at Charité.

Dr. Seybold coordinates the Charité Medical Specialist Training Program, a well-reputated residency program for international doctors. He is involved in humanitarian activities in Berlin as well as abroad. Within this, he coordinates the health screening and vaccination program for newly arrived refugees in Berlin. Dr. Seybold coordinates as a Deputy Director of International Affairs numerous activities of Charité with international partners.

BIOGRAPHIES

Axel R. Pries

President, World Health Summit

Axel Radlach Pries is a professor of physiology. He studied medicine at the University of Cologne and worked as postdoctoral fellow in Cologne, at the Institute of Anaesthesiology of the German Heart Center Berlin. At the Free University Berlin where he became full professor for Physiology (1998), and head of the Charité Institute for Physiology (2001). His scientific interests include microcirculation, endothelium, tumour vasculature, blood rheology, vascular adaptation and angiogenesis. He has served in various prestigious positions throughout his career. He was the general secretary of the European Society for Microcirculation (ESM) and chair of the International Liaison Committee for Microcirculation. He was appointed to the position of Dean of Charité in 2015. From 2015 to 2022, Pries was Dean and member of the board of Charité hospital in Berlin, from 2018 to 2020 he led the Berlin Institute of Health (BIH) as interim CEO. In 2021, he became president of the World Health Summit. In 2023 he was appointed as Prorector for Medicine at the Danube Private University.

BIOGRAPHIES

TBC

Chief Representative, DAAD

TBC

BIOGRAPHIES

George Fu Gao

Academician of Chinese Academy of Sciences
Professor, The D.H. Chen School of Universal Health,
Zhejiang University

George Fu Gao has been a key leader in the public health field, making remarkable contributions to research and discovery through basic research, clinical evaluation and advocacy. He has made many remarkable contributions to the scientific field of control and prevention of emerging infectious diseases. He obtained his DPhil degree from Oxford University, UK and did his postdoc work in both Oxford University and Harvard University (with a brief stay in Calgary University). Gao worked in Beijing Agricultural University (1986-1991), Oxford University (2001-2006), Institute of Microbiology, Chinese Academy Sciences (2004-2008, Director-General). China CDC (Director-General, 2017-2022), National Science Foundation of China (Vice-President, 2018-2022). Gao is a member (academician) of Chinese Academy of Sciences (CAS), an international member of the U.S. National Academy of Sciences (NAS), a foreign member of the U.K. Royal Society (RS), a member of the German National Academy of Sciences Leopoldina, a fellow of African Academy of Sciences and a fellow of The World Academy of Sciences (TWAS).

BIOGRAPHIES

Dietmar Schmitz

Professor and Director, Neuroscience Research Center,
Charité- Universitätsmedizin Berlin

Dietmar Schmitz is a neuroscientist. His research focuses on the question of how brain cells communicate with each other and how learning and memory formation function. At neuronal and psychiatric diseases such as epilepsy, Alzheimer’ s, autism or schizophrenia, these processes are often dysfunctional. His research aims to understand the cellular and molecular mechanisms that underlie many neurological diseases. These findings provide the basis for the improvement of diagnostics and the development of suitable therapies.

With his research group, he has presented a series of internationally acclaimed results that form an important basis for future research on neurological diseases. For example, he succeeded in deciphering the previously unknown circuitry of the entorhinal cortex, which plays a central role in spatial navigation, memory formation and learning processes, as well as in elucidating the disruption of neurons in epilepsy, combined with the development of ideas to reverse this disruption.

BIOGRAPHIES

Yunzhe Liu

Professor, Beijing Normal University

Yunzhe Liu is a cognitive neuroscientist at Beijing Normal University and the Chinese Institute for Brain Research. He and his lab are interested in the neural and computational underpinnings of cognitive map in both health and disease, with a special focus on rest and sleep.

Piaget described an ‘intellectual evolution’ during development, characterized by the emergence of structured knowledge or schemas and the ability to assimilate new information. However, the neural mechanisms driving this development and their connections to broader intelligence measures, such as Intelligence Quotient (IQ), remain largely unexplored. In our study of 203 participants aged 8 to 25 years, we demonstrate that the maturation of knowledge mapping and assimilation is associated with the development of grid-like codes in the entorhinal cortex (EC) and distance coding in the medial prefrontal cortex (mPFC). The grid-like code, similar to grid cell representations found in animals, represents a two-dimensional (2D) knowledge map. These grid codes remain stable between maps, functioning as a schema, and increase with age. The grid-like schema supports the mPFC in building a concrete map of existing knowledge by encoding their distances. When introduced to new information, participants integrated them into existing grid patterns in the EC. This assimilation ability improves with age and aligns with the mPFC's growing capacity to connect new and existing knowledge. The maturation of these neural representations is closely tied to the structural development of the EC and mPFC, as well as their connectivity via the cingulum bundle. Furthermore, these neural developments predict particular IQ scores that reflect children's abstract reasoning and understanding of relational concepts in the real world. Our findings reveal that the development of grid-like codes underpins knowledge mapping and assimilation, bridging the gap between cellular mechanisms and cognitive development, and linking basic neuroscience with real-world IQ measures in humans.’

BIOGRAPHIES

Maria Böttche

Professor, Clinical psychological intervention,
Freie Universität Berlin

Maria Böttche, is a registered psychotherapist and postdoctoral researcher at the division of Clinical Psychological Intervention, Freie Universität Berlin, Germany, specialised on war-affected mental health and on the development of internet-based interventions for hard-to-reach groups (e.g. refugees, older adults, Arab population, Sepsis patients). She is also the co-head of the research Department at Center UEBERLEBEN, Berlin, Germany where she leads research projects (e.g. evaluation of multidisciplinary treatment for war-affected refugees, internet-based treatment for patients in the MENA region) and advises public and government institutions with regard to the mental health care of refugees. She is a member of the board of the German-speaking Society for Psychotraumatology (DeGPT).

BIOGRAPHIES

Shuyan Liu

Professor and Head of the Centre for Population Neuroscience and Stratified Medicine (PONS) and research group Environment and Mental Health, Charité- Universitätsmedizin Berlin

Professor and Head of the Centre for Population Neuroscience and Stratified Medicine (PONS) and research group Environment and Mental Health, Charité- Universitätsmedizin Berlin

Professor Dr. Shuyan Liu holds the esteemed Professorship in Global Mental Health and serves as the Head of the Centre for Population Neuroscience and Stratified Medicine (PONS), where she also leads a research group focused on Environment and Mental Health. Her expertise spans across various domains, including a profound understanding of loneliness, problematic substance use such as alcohol and cannabis, and the emerging field of digital mental health, utilizing sensor- and smartphone-based technologies for ecological momentary assessment and intervention. Furthermore, Professor Liu is a pioneer in exploring the intricate relationships between the environment and global mental health, contributing to the discourse on environmental health ethics.

BIOGRAPHIES

Gerhard Krönke

Professor and Director, Department Rheumatology and Clinical Immunology, Charité- Universitätsmedizin Berlin

Gerhard Krönke is a renowned professor and researcher in the field of rheumatology and clinical immunology. He currently serves as the Chair of the Department of Rheumatology and Clinical Immunology at the Charité Medical University in Berlin, Germany. Professor Krönke's research has made significant contributions to understanding the immune system and its role in inflammatory diseases.

One of his notable achievements is the in-depth analysis of the immunosuppressive mechanisms of glucocorticoids, a class of drugs widely used to treat immune-mediated inflammatory diseases. Through his research, Professor Krönke and his team have uncovered that glucocorticoids not only regulate gene expression in immune cells but also profoundly impact cellular metabolism, particularly mitochondrial function. This metabolic reprogramming is crucial for the anti-inflammatory effects of glucocorticoids.

BIOGRAPHIES

Zhimin Lu

Kuancheng Wang Distinguished Chair, Zhejiang University
Foreign member of Academia Europaea
Deputy Dean of Zhejiang University School of Medicine

Zhimin Lu, M.D., Ph.D., is professor and Dean of the Institute of Translational Medicine at Zhejiang University in China. He also holds the Kuangcheng Wang Distinguished Chair and Deputy Dean of the Medical School positions. He was recruited by Zhejiang University in 2019 after a distinguished tenure spanning over 16 years at MD Anderson Cancer Center. He was elected as a fellow of American Association for the Advancement of Science in 2017 and a foreign member of Academia Europaea in 2021. His significant discoveries include demonstration of the protein kinase activity of metabolic enzymes, discovery of protein phosphatase activity of metabolic enzymes, and revelation of instrumental mechanisms underlying the Warburg effect and the pivotal and non-metabolic functions of metabolic enzymes and metabolites in tumorigenesis. He has published more than 150 research articles, and more than 50 of these papers were published in Nature, Science, and Cell series journals. He serves as Editor-in-Chief for Metabolic Discovery and Visualized Cancer Medicine and Depute Editor for Journal of National Cancer Center. He received The Chinese Medical Science and Technology Award in 2022, Wuxi AppTec Life Science and Chemistry Outstanding Achievement Award in 2022, and the Dallas/Fort Worth Living Legend Faculty Achievement Award in Basic Research (MD Anderson) in 2016.

BIOGRAPHIES

Manfred Dietel

Professor, Institute of Pathology, Charité- Universitätsmedizin Berlin

Manfred Dietel, a highly accomplished professor at the Institute of Pathology, Charité-Universitätsmedizin Berlin, boasts an impressive academic portfolio with 300 peer-reviewed publications in esteemed scientific journals and numerous contributions to books. Over a span of 30 years, he has lectured extensively on pathology, delivering additional courses and specialized seminars to both undergraduate and graduate students, while also presenting keynotes internationally. His scientific-political involvement spans two decades in Berlin and beyond. His research focuses on molecular tumor pathology, biomarker evaluation, targeted therapy/precision medicine, exploring resistance mechanisms in oncology, and advancing telepathology. Dietel has held esteemed positions such as Dean of the Medical Faculty at Charité, Humboldt University (1997-1999), President of the 18th Congress of the European Society of Pathology (2001-2004). Additionally, he served as Medical Director and Chairman of the Executive Board of Charité (2001-2004), Chairman of the Sino-German Health Care Group e.V. (2005-2019), and currently heads the Scientific Advisory Board of AYOXXA (2022).

BIOGRAPHIES

He Huang

Professor of Hematology
Director of Bone Marrow Transplantation Center
The First Affiliated Hospital, Zhejiang University School of Medicine

He Huang, M.D., Ph.D., Director of Bone Marrow Transplantation Center of The First Affiliated Hospital, Zhejiang University School of Medicine; Director of Hematology Institution of Zhejiang University. Prof. Huang is also actively involved in and holds key positions in a number of professional organizations and scientific committees, including being Vice Chairman of Experts Committee of Chinese Marrow Donor Program; Executive Committee Member of Asia-Pacific Bone Marrow Transplantation Group (APBMT); Committee member of European Society of Hematology (EBMT); Vice President of Asian Cellular Therapy Organization (ACTO).

Prof. Huang specializes in clinical and basic research on hematopoietic stem cell transplantation, cellular immunotherapy and stem cell biology research. He created an integrated treatment system of CAR-T cell therapy combined with haploidentical hematopoietic stem cell transplantation for refractory/recurrent malignant hematological diseases. As corresponding author, he has published 278 original papers in SCI-cited journals including New England Journal of Medicine, Nature, Cell Research, Lancet Haematology, Cell Metabolism etc. He has been awarded 21 national invention patents. He also organized APBMT annual meetings in 2005 and 2014 in Hangzhou as the chairman of the conferences. For his outstanding achievement on hematopoietic stem cell transplantation, Prof. Huang was awarded the national prizes by State Council twice in 2003 and 2015, respectively.

BIOGRAPHIES

Britta Eickholt

Professor and Director, Center for Basic Medicine and Institute of Biochemistry and Molecular Biology, Charité- Universitätsmedizin Berlin

Britta Eickholt is Professor for “Molecular Biology and Biochemistry” at the Charité – University Medicine Berlin. After a PhD in Biochemistry from Guy’s Hospital / King’s College London in 1998, she carried out a postdoc at the MRC Centre for Neurodevelopmental Biology in London. This is also where she started her own laboratory in 2001. In 2009, she became part of the evaluation committee of the École Normale Supérieure Paris and one year later evaluated the Centre de génétique et de physiologie moléculaire et cellulare Mouchiroud . Since 2011 she has been Professor of Cellular and Molecular Neurobiology and Center Director at the Charité in Berlin.

The research in the Eickholt lab broadly focuses on the cellular mechanism controlling the development, maturation and maintenance of neurons and astrocytes in the brain. Her lab uses a multidisciplinary approach to understand how neurons and astrocyte establish and modify their complex shapes in the healthy brain and during disease or injury. Her main expertise centers on spatial and temporal control of signaling events and cytoskeleton dynamics.

BIOGRAPHIES

Pumin Zhang

Professor of Molecular Biology
Institute of Translational Medicine & The First Affiliated Hospital
Zhejiang University School of Medicine

Dr. Pumin Zhang obtained his Ph.D. degree in Biochemistry from University of Wisconsin-Madison in 1993 and completed his postdoctoral training in the molecular biology of cell cycle regulation with Dr. Stephen Elledge in 1998 in Baylor College of Medicine. In the same year, he established his own lab in National Jewish Medical and Research Center in Denver, Colorado. Two years later, his lab was relocated back to Baylor where he moved up academic ranks and became a full professor in 2010. In 2020, Dr. Zhang joined the First Affiliated Hospital and the Institute of Translational Medicine, Zhejiang University School of Medicine. Dr. Zhang has contributed greatly to the understanding of the control of cell division in development and diseases including cancer. In more recent years, Dr. Zhang has devoted to the development of novel cancer therapeutics by exploiting the ubiquitin-protease system. His lab identified USP25/28, two homologous deubiquitinases, as pan-cancer targets. He founded a biotech company, Chaser Therapeutics, to develop small molecule inhibitors against the two deubiquitinases. Now, one of the inhibitors developed, CT1113, is in first-in-human trial in The First Affiliated Hospital of Zhejiang University School of Medicine.

BIOGRAPHIES

Jalid Sehouli

Professor and Director, Clinic for Gynecology with Centre for Oncological Surgery, Charité- Universitätsmedizin Berlin

Jalid Sehouli is a gynaecologist and oncologist who specializes in peritoneal and ovarian cancer. He is a professor at Berlin's Charité hospital. In 2005 he was appointed to teach gynaecology and obstetrics. In 2007 he accepted the offer of a W2 professorship at Berlin's Charité hospital. In 2014 he was selected for the W3 full Professorship for Gynaecology for life at the Charité and has since been Director of the Clinic for Gynaecology and a full professor at the Charité.

Sehouli specializes in experimental surgical gynaecology and oncosurgery as well as the subject of doctor-patient communication (e.g. breaking bad news). Sehouli is co-editor of various professional journals and author (first, senior, or co-author) of several hundred articles in national and international journals on all aspects of gynaecology with an emphasis on diagnosis, therapy, and aftercare in gynaecological oncology. He has been, and is, the lead of various national and international phase I, II, and III studies of targeted therapies. He is also the editor and author of numerous scientific books or contributions to them.

BIOGRAPHIES

Yi Sun

Professor of Cancer Biology
Cancer Institute, The 2nd Affiliated Hospital,
and Institute of Translational Medicine
Zhejiang University School of Medicine

Dr. Sun is a Qiushi chair professor at Zhejiang University School of Medicine. He was endowed as Lawrence-Krause Research Professor in Radiation Oncology at University of Michigan. He also served as a founding Dean at the Institute of Translational Medicine, Zhejiang University, China in 2014-2018, and has been a Fellow of the American Association for the Advancement of Science (AAAS) since 2012.

The main research focus of Sun laboratory is to define the role of Cullin RING ligases (CRLs) and protein ubiquitylation/neddylation in regulation of tumorigenesis. His laboratory has validated CRLs and protein neddylation, upon abnormal activation in cancer, are promising cancer targets, and is actively engaging in the discovery of small molecule inhibitors of CRLs-neddylation for cancer therapy.

Dr. Sun authored ~290 peer reviewed articles, published in several prestigious journals as the corresponding author, including Dev Cell, eLife, J Cell Biol, J Clin Invest, Mol Cell, Nature Communs, PNAS, Science Advs, with more than 39,000 citations and an H index of 78. He has been a highly cited scholar in China for 8 consecutive years. His research was continuously supported by various national and international funding agencies.

BIOGRAPHIES

Sonja Entringer

Professor, Institute of Medical Psychology,
Charité- Universitätsmedizin Berlin

Sonja Entringer’ s main research interest is in the area of Developmental Origins of Health and Disease risk. The basic premise of this concept is that developmental conditions during early life can shape the physiology of the growing organism in a way that permanently alters the risk of disease later in life. Factors she studies in this context range from individual factors such as maternal psychological stress and nutritional during pregnancy to societal determinants such as migration and social inequality. She is particularly interested in the biological mechanisms by which these experiences can be transmitted and permanently biologically embedded during fetal and child development. In her team’ s interdisciplinary research projects, which include aspects of gynecology, obstetrics, neonatology, pediatrics, psychiatry, sociology, biology and psychology, they employ molecular biology and ecological momentary assessment (EMA) based methods. Her team’ s research has a high relevance for prevention and the development of new.

BIOGRAPHIES

Jing Zhang

Professor of Pathology
Director of National Brain Bank
Zhejiang University School of Medicine

Dr. Jing Zhang, MD, PhD, holds a leadership role in Pathology at Zhejiang University's First Affiliated Hospital. He's not just the Director of Zhejiang University's National Brain Bank (over 600 brains), but also oversees quality control for the entire national brain bank network (around 3,000 brains total). Board-certified in the US for over 20 years, Dr. Zhang excels in clinical practice, education, and research. A pioneer in biomarker discovery for Alzheimer's and Parkinson's, his work focuses on using blood-borne CNS specific exosomes and red blood cells to diagnose, track disease progression, and even understand the root causes of these debilitating conditions. Widely respected for his achievements, Dr. Zhang has garnered numerous awards and grants, publishing roughly 250 scientific papers cited over 24,000 times (H-Index: 84, June 2024).

BIOGRAPHIES

Evgenij V. Potapov

Professor, German Heart Center of the Charité (DHZC),
Charité- Universitätsmedizin Berlin

Evgenij Potapov is consultant senior surgeon and co-chairman of the MCS programme in the Department of Thoracic and Cardiovascular Surgery at the German Heart Centre, Berlin. He completed is medical training at Free University, Berlin in 1996 and his PhD in Cardiac Surgery at Humboldt University, Berlin in 2009. He has been appointed adjunct professor by the Charite - University Medicine Berlin. He has been working at the German Heart Center Berlin since 1997. His main research interests are in heart failure, pathophysiology, diagnosis and treatment, ventricular assist devices and heart transplantation.

BIOGRAPHIES

Junming Zhu

Professor of Neurosurgery
The Second Affiliated Hospital, Zhejiang University School of Medicine

Dr. Junming Zhu, MD, PhD. Professor of Neurosurgery. Board member of the Neuromodulation Committee of the Chinese Medical Doctor Association, Vice president of the Zhejiang Association Against Epilepsy, Board member of the 7th Functional Neurosurgery Committee of the Chinese Medical Association, Board member of the Hydrocephalus Task Force of the Chinese Society of Microcirculation Neurodegenerative Diseases Committee,Member of the Zhejiang Neurosurgery Committee of the Chinese Medical Association.

Since 2004, he has been mainly engaged in the work of functional neurosurgery. Mainly engaged in the treatment of normal pressure hydrocephalus, intractable epilepsy, Parkinson's disease and other movement disorders, intractable pain etc. In recent years, he published more than 20 papers at home and abroad, and participated in the compilation of 6 professional books on modern neurosurgery and modern epilepsy.

BIOGRAPHIES

Moritz Queisner

Professor, Experimental Surgery,
Charité- Universitätsmedizin Berlin

Moritz Queisner is an expert in health technologies with a focus on future applications, technology assessment, knowledge transfer, and design principles. He is Professor for Interdisciplinary Technology Transfer and Digitization in Surgery at Charité – Universitätsmedizin Berlin, where he leads the Digital Surgery Lab. He has an academic background in in media studies, science and technology studies and digital health. His academic work investigates the impact of contemporary media technology on medical practice, with a particular focus on extended reality, imaging technologies and 3D/4D simulation in healthcare. He is the co-founder of the Adaptive Imaging group, a collective of scholars, designers and scientists who study image-guided practices in contemporary media technology.

BIOGRAPHIES

Zhan Zhou

Associate Professor, College of Pharmaceutical Sciences,
Zhejiang University

Dr. Zhan Zhou, Associate Professor at the College of Pharmaceutical Sciences, Zhejiang University. Currently, Dr. Zhou serves as the Associate Director of the Department of Pharmacy, Associate Director of the Institute of Drug Metabolism and Pharmaceutical Analysis, and Assistant Director of the Innovation Institute for Artificial Intelligence in Medicine, College of Pharmaceutical Sciences, Zhejiang University. Dr. Zhou's research focuses on artificial intelligence in pharmaceutical sciences, where he utilizes big data and artificial intelligence techniques to precisely identify genetic drivers of tumor development and progression. Through antigen recognition systems, he screens for specific targets and employs protein design techniques to develop novel immunotherapy strategies. His group has developed several artificial intelligence algorithms and software such as DeepHLApan, TSNAD, CanDriS, and MODIG for predicting tumor-driving mutations and neoantigens, as well as databases such as OncoTriMD, TSNAdb, and TRAIT to facilitate research in this field. He has led and participated in numerous nationally funded research projects and has published over 80 academic papers in journals such as Nat Commun, Mol Biol Evol, Mol Ther, and so on. His innovative work has also led to several patents and software copyrights.

Registration https://www.wjx.cn/vm/wevMzLw.aspx