2nd Joint Symposium between the University of Macau and the Islands Healthcare Complex — Macao Medical Center of Peking Union Medical College Hospital

17

January 2026

澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU

健康科學學院
Faculdade de Ciências da Saúde
Faculty of Health Sciences

離島醫療綜合體北京協和醫院澳門醫學中心
Complexo de Cuidados de Saúde das Ilhas — Centro Médico de Macau do Peking Union Medical College Hospital

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Programme Rundown

Date : 17 January 2026
Location : N1-Multi Function Hall, University of Macau

Date	Event
17 January	08:30 – 09:00 Registration 09:00 – 09:15 Opening Ceremony - Welcome Address Director of CMM-PUMCH, Dr. Zhengyin LIU Vice Rector (Research) of UM, Prof. Wei GE - Group Photo 09:20 – 12:20 Morning Session 14:00 – 18:20 Afternoon Session 18:20 – 18:30 Closing Remarks

Talk Schedule

Morning Session

Moderators

Prof. Hanming SHEN, Faculty of Health Sciences, University of Macau

Dr. Xiaomei LENG , The Islands Healthcare Complex — Macao Medical Center of Peking Union Medical College Hospital

Time	Talk
09:20 – 09:40	**光聲-超聲雙模態成像在炎症性疾病中的應用** 趙辰陽 – 醫技科室超聲醫學專業組主治醫生
09:40 – 10:00	**Engineered Immune Cells and Vesicles for Disease Treatment** Qi ZHAO 趙琦 – Associate Professor, University of Macau
10:00 – 10:20	**可塑性生物材料的研發與臨床應用** 朱威 – 外科部骨科專業組顧問醫生
10:20 – 10:40	**Preclinical Evaluation of Herbal Medicine Formula JCM-16021 for the Treatment of Inflammatory Bowel Disease** Emily Ying WANG 王穎 – Associate Professor, University of Macau
10:40 – 11:00	*Coffee Break*
11:00 – 11:20	**乾燥綜合症-從治療困境到發病機製研究** 冷曉梅 – 內科部風濕免疫科專業組主任醫生
11:20 – 11:40	**Epigenetic Dysregulation and Molecular Subtyping Reveal Precision Targets in Neuroendocrine Malignancies** Ningyi SHAO 邵寧一 – Associate Professor, University of Macau
11:40 – 12:00	**毛囊源性黑素細胞在白癜風治療中的療效研究** 樊蕊蕊 – 醫技科室病理科專業組主治醫師
12:00 – 12:20	**Targeting Neurodegeneration: Pathology-Based Strategies for Neuroprotection** Aifeng CHENG 程愛芳 – Assistant Professor, University of Macau

Afternoon Session

Moderators

Prof. Renhe XU, Faculty of Health Sciences, University of Macau

Dr. Bei TAN, The Islands Healthcare Complex — Macao Medical Center of Peking Union Medical College Hospital

Time	Talk
14:00 – 14:20	**現代人類MUTYH基因胚系突變的進化起源** 肖鳳霞 – 內科部腫瘤內科專業組主治醫生
14:20 – 14:40	**Multi-omics Integration to Decipher the Interaction between Alzheimer's Disease and Pathological Ageing** Chen MING 明晨 – Assistant Professor, University of Macau
14:40 – 15:00	**微生態-腸-腦軸與胰腺疾病：聚焦自身免疫性胰腺炎、胰性腦病、胰腺癌** 王巍峰 – 內科部消化內科專業組主治醫生
15:00 – 15:20	**Counteracting Obesity-induced Inflammation to Ameliorate Metabolic Diseases** Li WANG 王麗 – Assistant Professor, University of Macau
15:20 – 15:40	**皮膚科領域中精準診斷指導下的精準治療** 蘇飛 – 國際醫療中心皮膚科專業組主治醫生
15:40 – 16:00	**Proteomics Driven Precision Medicine and the π-HuB Project (the Proteomic Navigator of the Human Body)** Terence C.W. POON 潘全威 – Associate Professor, University of Macau
16:00 – 16:20	*Coffee Break*
16:20 – 16:40	**兒童自身炎症性疾病** 李冀 – 內科部兒科專業組主任醫生
16:40 – 17:00	**Carbon Dots Based Biomedical Investigation** Songnan QU 曲松楠 – Professor, University of Macau
17:00 – 17:20	**智慧手錶的使用與醫生健康的相關研究** 楊勝男 – 外科部麻醉疼痛科專業組主治醫生
17:20 – 17:40	**Explaining Cancer Gene Dependency with Deep Learning** Peng WANG 王鵬 – Assistant Professor, University of Macau
17:40 – 18:00	**菌群-代謝-免疫互作驅動irAE結腸炎：基於發病機制精準防治** 譚蓓 – 內科部消化內科專業組主任醫生
18:00 – 18:20	**Application of Drug Sensitive Platforms for Precision Oncology** Chuxia DENG 鄧初夏 – Chair Professor, University of Macau
18:20 – 18:30	*Closing Remarks*

Speaker's Biography

光聲-超聲雙模態成像在炎症性疾病中的應用

趙辰陽

醫技科室超聲醫學專業組主治醫生

離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Chenyang ZHAO is the Attending Physician in the Ultrasound Medicine Division, Department of Medical Technology. She is proficient in ultrasound diagnosis of a wide range of routine, emergency, and complex diseases. She studied molecular imaging technology at the Academy for Advanced Interdisciplinary Studies, Peking University. As first author or corresponding author, she has published more than twenty *SCI-indexed* articles in leading journals, including *Radiology*, *European Radiology*, and *Patterns*. She has led one National Natural Science Foundation of China (Youth Program) project, participated in several national and provincial-level research grants.

The research topics of Dr. Zhao include the clinical applications of photoacoustic-ultrasound imaging artificial intelligence in ultrasound imaging. She specializes in the ultrasound diagnosis of liver diseases, thyroid and breast disorders, superficial soft tissue tumours, inflammatory joint diseases, and gynecological tumours. She also has expertise in CEUS lymphatic mapping for LVA surgery.

Engineered Immune Cells and Vesicles for Disease Treatment

Prof. Qi ZHAO

Associate Professor, Faculty of Health Sciences, University of Macau

Prof. Qi ZHAO is an Associate Professor at Faculty of Health Sciences, University of Macau and the Associate Director of the Immunotherapy Branch of the Guangdong Precision Medicine Application Association. He has extensive experience in antibody drug development and cellular immunotherapy for oncology. Prof. Zhao has published over 90 papers in prestigious peer-reviewed journals, including *Nature Communications*, *Leukemia*, *Journal of Hematology & Oncology*, and *Journal of Biological Chemistry*. He holds 17 invention patents in China and the United Stated of America. His accolades include the US NIH Federal Technology Transfer Award and recognition as a Shenzhen Overseas High-Caliber Personnel. Recently, he was awarded a National R&D Key Grant from the Ministry of Science & Technology.

The technology developed in Prof. Zhao's laboratory has been instrumental in discovering novel monoclonal antibodies and nanobodies targeting solid tumours and acute lymphocytic leukemia. These antibodies can be humanised and affinity-matured using in silico-derived yeast display technology. When utilised as vehicles, these antibodies have enabled the creation of bispecific antibodies and chimeric antigen receptors (CARs) that engage natural killer (NK) or T cells to effectively lyse tumours. This approach has shown remarkable therapeutic effects in treating non-small cell lung cancer in both mouse and patient-derived xenograft (PDX) models.

可塑性生物材料的研發與臨床應用

朱威
外科部骨科專業組顧問醫生
離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Wei ZHU is a Consultant Physician in the Orthopedics Division, Department of Surgery.

Dr. Zhu is an orthopedic surgeon at Peking Union Medical College Hospital. He holds both a Doctor of Medicine degree and a postdoctoral fellowship in Clinical Medicine. He has long been engaged in the surgical treatment of hip and knee osteoarthritis, femoral head necrosis, and lumbar and leg pain, with particular expertise in hip and knee joint replacement surgery. He has published more than thirty academic papers in domestic and international journals, undertaken multiple national and Beijing-level research projects, and was awarded the Second Prize of the Beijing Science and Technology Progress Award.

He specializes in the diagnosis and treatment of osteoarthritis (particularly of the hip and knee), rheumatoid arthritis, femoral head necrosis, and various joint replacement surgeries.

Preclinical Evaluation of Herbal Medicine Formula JCM-16021 for the Treatment of Inflammatory Bowel Disease

Prof. Emily Ying WANG

Associate Professor, Institute of Chinese Medical Sciences, and
State Key Laboratory of Mechanism and Quality of Chinese Medicine
University of Macau

Prof. Emily Ying WANG is an Associate Professor at the Institute of Chinese Medical Sciences, and State Key Laboratory of Mechanism and Quality of Chinese Medicine, University of Macau. She obtained her PhD from the University of Hong Kong and Postdoctoral training from Yale University, United States of America.

The primary objective of Prof. Wang's research is the development of small molecule inhibitors derived from natural products and their derivatives, with the aim of regulating the innate immune response. This field of study is of great importance, as it has the potential to address a number of diseases that are linked to immune system dysfunction.

Prof. Wang's research focused on signal transduction pathways associated with Toll-like receptors, inflammasomes, ubiquitination and deubiquitination processes, mitochondrial fitness, and nuclear receptor signaling. These pathways play a pivotal role in immune regulation, and a deeper comprehension of them may pave the way for groundbreaking treatments for immune-related conditions. At present, her research is focused on the potential therapeutic efficacy of these inhibitor candidates in the management of diseases such as inflammatory bowel disease, macrophage polarization, and sepsis. The objective is to identify novel therapeutic strategies by elucidating the mechanisms through which these inhibitors modulate the immune response in these conditions.

乾燥綜合症－ 從治療困境到發病機製研究

冷曉梅

內科部風濕免疫科專業組主任醫生
離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Xiaomei LENG is a physician at the Department of Rheumatology and Immunology, Peking Union Medical College Hospital. She also serves as a doctoral supervisor and postdoctoral mentor. Having long been engaged in the diagnosis, treatment, teaching and research of rheumatic and immunological diseases, she has published nearly 100 academic papers in domestic and international journals, and has presided over or participated in a number of international and national clinical research projects. Her clinical expertise lies in the diagnosis and management of systemic lupus erythematosus, Sjögren's syndrome, polymyositis, dermatomyositis, systemic sclerosis (scleroderma), systemic vasculitis, IgG4-related disease, rheumatoid arthritis, ankylosing spondylitis, psoriatic arthritis, osteoarthritis, and other rheumatic and immunological disorders.

Epigenetic Dysregulation and Molecular Subtyping Reveal Precision Targets in Neuroendocrine Malignancies

Prof. Ning-Yi SHAO

Associate Professor and Programme Coordinator (BSc in Bioinformatics),
Faculty of Health Sciences, University of Macau

Prof. Ning-Yi SHAO received his PhD in computational biology from the Institute of Computational Biology, Chinese Academy of Sciences (CAS-MPG Partner Institute for Computational Biology) in 2011. Afterwards, he engaged in postdoctoral research at the Icahn School of Medicine at Mount Sinai in New York and Stanford University School of Medicine, and joined the University of Macau in 2019. Prof. SHAO has published more than 50 peer-reviewed articles, including in high-impact journals such as *Nature*, *Circulation*, *Cell Stem Cell*, and *Circulation Research*. Prof. Shao's research integrates multi-omics data analysis, bioinformatics modeling, machine learning, and molecular mechanism studies to elucidate mechanisms of development and disease. He has made several important discoveries in decoding the role of histone modifiers in regulating gene transcriptional dynamics in development and diseases.

毛囊源性黑素細胞在白癜風治療中的療效研究

樊蕊蕊
醫技科室病理科專業組主治醫師
離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Ruirui FAN (PhD) is an attending physician in the Department of Pathology and an undergraduate mentor at Xiamen University. She has been engaged in pathological diagnosis for nine years, focusing particularly on dermatology and molecular pathology diagnosis.

As first or corresponding author, she has published 27 SCI and core journal articles, 19 conference papers, and 21 national popular science articles. She has presided the Natural Science Foundation of Fujian Province of China, the Natural Science Foundation of Xiamen, and the Guidance in Medical and Health Program of Xiamen.

In addition, she has received the First Prize in the Science Popularization Competition of the Chinese Medical Association; the First Prize in the Science Popularization Competition of the West China International Forum on Rare Diseases, the First Prize in the Guangdong Provincial Science Popularization Competition and the Second Prize in the Fujian Province Pathology Teaching Competition.

Targeting Neurodegeneration: Pathology-Based Strategies for Neuroprotection

Prof. Aifang CHENG

Assistant Professor, Faculty of Health Sciences, University of Macau

Prof. Aifang CHENG is an Assistant Professor at Faculty of Health Sciences, University of Macau with research expertise in neurodegenerative diseases and neuroprotection. She is a committee member of the Macau Society for Stem Cell Research, and an active member of the Chinese Neuroscience Society, the Neurobiology Branch of the Chinese Society for Cell Biology, and the Whangpoo Laboratory Leadership Academy (WLLA), and the Macao Association for Higher Education Development. She also serves as Guest Editor for leading journals, including *Pharmacological Research*, *Biomedicines*, and *Frontiers in Microbiology*.

With an h-index of 18, Prof. Cheng has published over 20 research articles in high-impact journals. As first or corresponding author, her work have appeared in *PNAS*, *Autophagy*, *Journal of Medicinal Chemistry*, *Journal of Advanced Research*, *iScience*, among others. Her research focuses on elucidating the pathogenesis of neurodegenerative disorders and identifying neuroprotective lead compounds through multidisciplinary approaches. She has led two major research projects funded by the Hong Kong Research Grants Council (RGC) and the Macao Science and Technology Development Fund (FDCT), and two research grants funded by the University of Macau, aiming to translate neuroprotective compounds into potential biomedicines.

現代人類MUTYH基因胚系突變的進化起源

肖鳳霞

內科部腫瘤內科專業組主治醫生
離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Fengxia XIAO is an attending physician in the Department of Medical Oncology at Macau Union Hospital. She was graduated from University of Nebraska Medical Center in the United States of America. She has long been engaged in the treatment of cancer, accumulating extensive experience. She specializes in the treatment of solid tumors, particularly nasopharyngeal carcinoma, lung cancer, breast cancer, colorectal cancer, and liver cancer. Her expertise includes systemic chemotherapy and intrathoracic/abdominal perfusion chemotherapy, immunotherapy with PD-1 and PD-L1 inhibitors, targeted therapy with EGFR inhibitors, as well as palliative care for advanced malignant tumors.

She has participated in research on genetic factors in breast cancer and the evolution of human gene mutations, and has published more than ten SCI papers.

Multi-omics Integration to Decipher the Interaction between Alzheimer's Disease and Pathological Ageing

Prof. Chen MING

Assistant Professor, Faculty of Health Sciences, University of Macau

Prof. Chen MING is an Assistant Professor at Faculty of Health Sciences, University of Macau. Her research focuses on integrating multi-omics molecular data to construct molecular functional regulatory networks and on employing computational biology methods to explore how genetic mutations and cellular interactions regulate the pathological traits of neurodegenerative diseases, particularly Alzheimer's disease. She has published more than 20 SCI papers in many high-profile journals, such as *Neuron*, *Alzheimer's & Dementia*, *Molecular Neurodegeneration*, and *Molecular Biology and Evolution*. Her publications have been cited more than 2000 times, and the H-index is 18.

Prof. MING serves as a committee member of the Neuroregeneration and Repair Professional Committee of the Chinese Research Hospital Association, the Subsociety for Mitochondrial Biology in Biophysics Society of China, and the Macau Society for Stem Cell Research. She is also a young editorial board member and special issue editor for the *Journal of Genetics and Genomics* (*JGG*). Over the past five years, she has led several research grants funded by the Macau Science and Technology Development Fund (including the joint FDCT-NSFC and joint FDCT-MOST grants), two research grants funded by the University of Macau, and participated in one key R&D project funded by FDCT.

微生態–腸–腦軸與胰腺疾病：聚焦自身免疫性胰腺炎、胰性腦病、胰腺癌

王巍峰

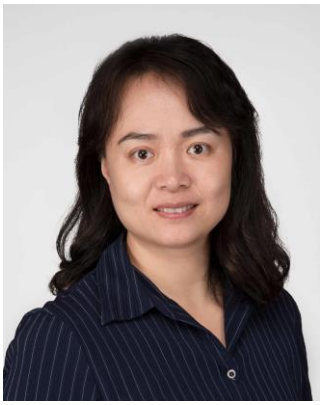
內科部消化內科專業組主治醫生

離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Weifeng WANG is the Attending Physician in the Gastroenterology Division, Department of Internal Medicine. He has the experience in the field of digestive diseases for more than 20 years. He spent one year studying in the United States of America and is highly experienced in the diagnosis and treatment of common gastroenterological conditions. Over the course of his career, he has accumulated substantial expertise in managing critical, severe, and complex cases. As a supervisor of master's students and a mentor for standardized residency training, he has successfully guided numerous students to graduation.

He specializes in the diagnosis and treatment of functional and gastrointestinal motility disorders, as well as gastrointestinal endoscopic procedures. His skills include colon polyp removal, foreign body extraction, endoscopic management of gastrointestinal bleeding and early-stage gastrointestinal cancers, and endoscopic ultrasound (EUS) examinations of submucosal lesions.

Counteracting Obesity-induced Inflammation to Ameliorate Metabolic Diseases



Prof. Li WANG

Assistant Professor, Faculty of Health Sciences, University of Macau

Prof. Li WANG is an Assistant Professor at the Faculty of Health Sciences, University of Macau. Prof. Wang's research is dedicated to elucidating the core molecular mechanisms governing the onset and progression of metabolic diseases, with a parallel focus on translating these scientific discoveries into clinical strategies for prevention and treatment. Prof. Wang's current works focus on: systematically investigating how metabolic stress like obesity induce systemic inflammation and related disorders such as insulin resistance, type 2 diabetes, non-alcoholic fatty liver disease etc.; exploring the developmental processes of key metabolic tissues and the regulatory mechanisms maintaining their microenvironmental homeostasis; and uncovering the pivotal role of energy metabolism reprogramming in cancer initiation and progression. Employing an integrated methodology that combines molecular and cellular biology, histochemistry, animal disease models, and deep multi-omics sequencing, the team has established a comprehensive research framework. Prof. Wang has published many papers in SCI journals such as *Circulation Research, Nature Structural & Molecular Biology*, *Diabetes, Arteriosclerosis, Thrombosis and Vascular Biology*, *Cell Death & Disease*, etc., as first or corresponding author. Additionally, Prof. Wang has filed three invention patents.

皮膚科領域中精準診斷指導下的精準治療

蘇飛

國際醫療中心皮膚科專業組主治醫生
離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Fei SU is an Attending Physician in the Dermatology Division, International Medical Center. He is a dermatologist with over 15 years of clinical experience. He holds the qualification of Associate Chief Physician and earned his MD from Peking Union Medical College. Since October 2025, he has been serving as an attending dermatologist in the Department of Dermatology at the Macao Union Hospital.

Dr. Su completed advanced training as an international visiting scholar in dermatopathology at the Medical University of South Carolina. His clinical interests include inflammatory skin diseases such as atopic dermatitis and psoriasis, as well as the diagnosis and management of rare and complex dermatologic conditions. He has also recognized expertise in dermatopathology and laser-based dermatologic therapies. Dr. Su is actively engaged in academic exchange and multidisciplinary collaboration.

He is an active member of several national professional organizations, including the Chinese Society of Dermatology and Venereology, the Chinese Medical Doctor Association, the Chinese Society of Integrative Medicine, the China International Exchange and Promotive Association for Medical and Health Care, the Chinese Anti-Cancer Association, and the Chinese Alliance for Rare Diseases.

Proteomics Driven Precision Medicine and the π-HuB Project (the Proteomic Navigator of the Human Body)

Prof. Terence POON

Associate Professor, Faculty of Health Sciences, University of Macau

Prof. Terence Chuen Wai POON is an Associate Professor at Faculty of Health Sciences, University of Macau. He holds several prestigious positions in the field of proteomics, including President of the Asia Oceania Human Proteome Organisation and Vice President of the China Human Proteome Organisation. Additionally, he serves as the President of the Hong Kong Proteomics Society. His expertise and contributions to the field are further recognised through his role as an Associate Editor for Clinical Proteomics. Prof. Poon has published over 80 papers with many in topnotch international journals such as *Gastroenterology*, *Gut*, *Journal of Clinical Investigation*, *Annals of Surgery*, *Clinical Chemistry*, *Clinical and Translational Medicine* and *EMBO Reports*.

Prof. Poon's research projects for "Next Generation Protein Analytical Products and Services for Clinical and Research Markets" has received the Fosun Protechting Award and IEEAC Award (The Innovation & Entrepreneurship Education Alliance of China) at the 'Parafuturo de Macao' Innovation and Entrepreneurship Competition in 2018 and 2019. Recently, with collaborating with Kiang Wu Hospital, Prof. Poon identified key metabolites in blood and developed a new equation for estimating glomerular filtration rate in patients with chronic kidney disease. In 2024, the Proteomic Navigator of the Human Body (π-HuB Project), which is supported by the Ministry of Science and Technology of China (MOST), was initiated. This international project, spearheaded by Chinese scientists, includes Prof. Poon as one of its founding committee members.

兒童自身炎症性疾病

李冀
內科部兒科專業組主任醫生
離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Ji LI is a Chief Physician of the Pediatrics Division, Department of Internal Medicine. Dr. Li is a pediatrician at Peking Union Medical College Hospital and a supervisor of master's students. He has long been engaged in the diagnosis and treatment of pediatric rheumatic and immunological diseases, kidney disorders, allergic conditions, as well as child growth, development, and health care. He has published more than 40 academic papers in domestic and international journals, served as chief editor of Handbook for Pediatric Residents at Peking Union Medical College Hospital, and contributed to the compilation of Guidelines for the Diagnosis and Treatment of Rare Diseases, among others.

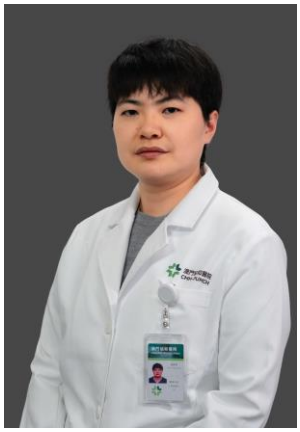
He specializes in the management of systemic lupus erythematosus, juvenile idiopathic arthritis, periodic fever syndromes, pediatric short stature, child growth and development care, immune thrombocytopenia, and pediatric allergic diseases.

Carbon Dots Based Biomedical Investigation

Prof. Songnan QU

Professor, Institute of Applied Physics and Materials Engineering,
University of Macau

Prof. Songnan QU achieved his PhD degree in Jilin University. From 2009 to 2018, he worked in State Key Laboratory of Luminescence and Applications at CIOMP, CAS. In 2019, he moved to University of Macau as a Full Professor. His research interests focus on development and applications of luminescent carbon dots. He has published over 150 SCI- indexed papers in prestigious international journals such as *Advanced Materials*, *Light: Science & Applications* and *Angewandte Chemie International Edition*, with citation of more than 14,700.



智慧手錶的使用與醫生健康的相關研究

楊勝男
外科部麻醉疼痛科專業組主治醫生
離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Shengnan YANG is an Attending Physician in the Anesthesiology and Pain Medicine Division, Department of Surgery.

Dr. Yang is a physician in the Department of Anesthesiology and Pain Medicine at Macau Concord Hospital. She has long been engaged in clinical anesthesia and the treatment of both acute and chronic pain. She is skilled in composite clinical anesthesia techniques such as nerve blocks, as well as interventional pain management procedures.

She specializes in anesthesia for elderly patients, cardiovascular surgery, and plastic surgery. Her expertise also includes the diagnosis and treatment of various acute and chronic pain conditions, such as myofascial pain, shoulder joint pain, lumbar pain, cancer-related pain, and postherpetic neuralgia.

Explaining Cancer Gene Dependency with Deep Learning

Prof. Pang WANG

Associate Professor , Faculty of Health Sciences, University of Macau

Prof. Peng WANG is an Associate Professor at Faculty of Health Sciences, University of Macau. He focuses on cancer systems biology and algorithms for biological big data. His primary interest lies in developing novel algorithms to analyse and integrate biomedical big data to facilitate the understanding of tumourigenesis, particularly the dynamic mechanisms underlying metastasis. He has published more than 30 papers in many top notch journals such as *Cancer Cell*, *Nature Communications* and *Advanced Science*, which have been cited more than 5,000 times.

菌群-代謝-免疫互作驅動irAE結腸炎：基於發病機制精準防治

譚蓓

內科部消化內科專業組主任醫生

離島醫療綜合體北京協和醫院澳門醫學中心

Dr. Bei TAN is a Chief Physician of the Gastroenterology Division, Department of Internal Medicine.

Dr. Tan is a physician in the Department of Gastroenterology at Peking Union Medical College Hospital, a supervisor of master's students and postdoctoral co-mentor. In 2016, she was a visiting scholar at the Division of Gastroenterology, University of Michigan Medical School. In 2019, she specialized in inflammatory bowel disease at Erasmus Medical Center in the Netherlands, and later served as a visiting scholar at the Digestive Endoscopy Center of Kyushu University Hospital in Japan.

She has long been engaged in the clinical diagnosis treatment and research of gastrointestinal diseases, with a particular focus on intestinal disorders. Her expertise includes the diagnosis and management of inflammatory bowel disease—such as ulcerative colitis and Crohn's disease—as well as colitis associated with cancer immunotherapy.

As a lead author, she contributed to the development of two national-level clinical practice guidelines. She has led ten national, provincial, and institutional research projects, published more than 100 articles in international and domestic journals, delivered multiple oral presentations at international academic conferences, and contributed to the writing and translation of more than ten medical textbooks and scholarly monographs.

Application of Drug Sensitive Platforms for Precision Oncology

Prof. Chuxia DENG

Dean and Chair Professor, Faculty of Health Sciences, University of Macau
Chief Scientist of MoE Frontiers Science Center for Precision Oncology, University of Macau

Prof. Chuxia DENG is the Founding Dean of Faculty of Health Sciences and the Chief Scientist of MoE Frontiers Science Center for Precision Oncology, University of Macau. He received MS from Chinese Academy of Sciences in 1984, and PhD from University of Utah in 1992 under the supervision of Prof. Mario R. CAPECCHI, Winner of 2007 Nobel Prize in Physiology or Medicine. After his postdoctoral fellow training at Harvard Medical School, he has been Investigator, Senior Investigator and Chief of Mammalian Genetics Section, Genetics of Development and Disease Branch of National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK) of National Institutes of Health (NIH), the United States of America from 1995 to 2014.

Prof. Deng has received numerous awards in recognition of his outstanding achievements in teaching and research, including the NIH-APAO Outstanding Achievement Award (2000, NIH), the Outstanding Overseas Scholar from National Science Foundation (2002, China), NIDDK "You Make A Difference Award" (2005, 2013), the NIDDK Director's Award (2011), and Second Prize in the Natural Science Award awarded by the Macao SAR Government (2024). He was elected as a fellow of the American Association for the Advancement of Science (2012), topped the list in biology and biochemistry among all Chinese scientists in Best Scientists Ranking (2023) announced by Research.com, and named in Stanford University's World Top 2% Scientists 2024 for his career-long citation impact.

He is the author or co-author of over 470 peer-reviewed papers. As at August 2025, Prof. Deng has an H-index at 156 with a total citation over 86,400. He is currently Editor-in-Chief of *International Journal of Biological Sciences*. Prof. Deng has a remarkable track record in cancer research, with particular focuses lately on precision oncology, oncogenes and tumour suppressor genes, as well as gene targeting and drug development.

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