PHAN CHAU TRINH UNIVERSITY · PHAN CHAU TRINH MEDICAL UNIVERSITY HOSPITAL

2026 FMC

THE FUTURE OF MEDICINE

From High-Tech to Personalized Care

DETAILED PROGRAM

FMC 2026 SCIENTIFIC CONFERENCE

The Future of Medicine: From High-Tech to Personalized Care

Theme: "FMC 2026 – Convergence of High Technology towards Precision Medicine"

SATURDAY

December **12** 2026

SHILLA MONOGRAM QUANGNAM DANANG

Lac Long Quan Street, Dien Ban Dong Ward, Da Nang City, Vietnam

Main Conference – Saturday, December 12, 2026

Time	Program
Morning: Opening Ceremony and Plenary Session	
07:30 – 08:00	**Registration and welcome**
08:00 – 08:10	**Welcome performance**
08:10 – 08:20	**Opening announcement, introduction of delegates and program**
08:20 – 08:30	**Opening remarks by Phan Chau Trinh University**
08:30 – 11:30 | Plenary Session: Convergence of High Technology towards Precision Medicine Chairs: [To be announced]	
08:30 – 09:00	**Responsible AI Governance, Clinical AI Evaluation and Validation, and the Future of AI Implementation in Healthcare** ***Dr. Shauna Overgaard*** *– Senior Director of AI Strategy and Frameworks; Co-Director, AI Validation and Stewardship Research Program; Assistant Professor of Clinical Translational Science – Mayo Clinic, USA*
09:00 – 09:30	**Beyond GWAS: Translating Genomic Discoveries into Precision Cancer Medicine** ***Prof. Jyotsna Batra*** *– Professor of Genetics, Faculty of Health Sciences and Medicine; Researcher, Centre for Urology Research – Bond University, Australia*
09:30 – 10:00	**Progress and Challenges in Lung Cancer: From Molecular Profiling to Precision Medicine** ***Prof. David P. Carbone*** *– Director, James Thoracic Center, The Ohio State University (OSU), USA; Past President, International Association for the Study of Lung Cancer (IASLC)*
10:00 – 10:15	Coffee break – Group photo
10:15 – 10:40	**Clinical applications of stem cells** ***Prof. Dr. Nguyen Thanh Liem, MD*** *– Director, Vinmec Research Institute of Stem Cell and Gene Technology (VRISG)*
10:40 – 11:05	**The evolution of mesenchymal stem cell technology in disease treatment** ***Assoc. Prof. Dr. Pham Van Phuc*** *– Director, Stem Cell Institute, University of Science, VNU-HCM*
11:05 – 11:30	**Discussion and closing of the Plenary Session**

11:30 – 13:30 | Lunch and Poster Presentations (40 posters on 3 digital boards by theme)

	Digital board 1 Theme 1 · AI and digital transformation	Digital board 2 Theme 2 · Gene technology and stem cells	Digital board 3 Theme 3 · Personalized clinical research	Each presenter: **max. 5 minutes.** *Full list: pages 5 – 6*
12:00 – 13:15	**13 posters**	**13 posters**	**14 posters**	

Afternoon: Parallel Oral Sessions in 3 Halls | 13:30 – 15:00

12-minute presentation and 3-minute Q&A per talk · 15:00 – 15:15: Coffee break

	Hall 1 Theme 1: AI and Digital Transformation in Healthcare and Medical Education	Hall 2 Theme 2: Gene Technology and Stem Cells	Hall 3 Theme 3: Clinical Research towards Personalized Medicine
13:30 – 15:00	**Session 1: AI and Digital Transformation in Healthcare** Chair: [To be announced]	**Session 3: Gene Technology in Personalized Screening, Diagnosis and Treatment** Chair: [To be announced]	**Session 5: Clinical Research towards Personalized Medicine (1)** Chair: [To be announced]
	A1 **Automating Expert-Level Genomic Interpretation: An AI-Agent System for BRCA1/BRCA2 Variant Classification Aligning with ClinGen Specifications** ***Ong Xuan Hong*** *– ARiHA, Thong Nhat Hospital*	**B1** **Longitudinal Cancer Tracking Using Integrated cfDNA Methylation and Fragmentomic Signals** ***Nguyen Dinh Khac Chan*** *– Phan Chau Trinh University*	**C1** **Diagnosis of MET gene dysregulation by next-generation sequencing and immunohistochemistry in advanced non-small cell lung cancer** ***Nguyen Son Lam*** *– Tuberculosis and Lung Disease Specialty Clinic, Ho Chi Minh City*
	A2 **THP-GATv2: Integrating molecular graph attention and physicochemical descriptors for tumor-homing peptide prediction** ***Pham Tuan Duong*** *– University of Science, VNU-HCM*	**B2** **Applications of CRISPR/Cas9: from modifying target proteins to targeted therapeutic strategies in cardiovascular disease** ***Dinh Phong Son*** *– School of Medicine and Pharmacy, Duy Tan University*	**C2** **Advances in Food Allergy Research: Integrating In Vivo and Ex Vivo Models to Unravel Mechanisms and Improve Translational Outcomes** ***Trinh Hoang Kim Tu*** *– University of Medicine and Pharmacy at Ho Chi Minh City*
	A3 **Artificial intelligence-assisted embryo assessment from static and time-lapse images: Towards a domestic analysis platform in Vietnam** ***Bui Vinh Ha Thuyen*** *– Ho Chi Minh City University of Technology, VNU-HCM*	**B3** **Allele combinations and interaction between rs4791171 and rs3923087 in the AXIN2 gene and breast cancer risk in Vietnamese people** ***Le Nguyen Cuc Phuong*** *– University of Science, VNU-HCM*	**C3** **Value of image-enhanced endoscopy combined with artificial intelligence in detecting colorectal polyps and predicting their histopathology at Phan Chau Trinh Medical University Hospital** ***Nguyen Duc Quang*** *– Phan Chau Trinh Medical University Hospital*
	A4 **End-to-end deep learning model for segmentation and severity staging of anterior cruciate ligament injuries from MRI** ***Nguyen Tan Dung*** *– C Hospital, Da Nang*	**B4** **How can Spatial and Single-Cell Transcriptomics help Non-Small Cell Lung Cancer patients?** ***Luu Phuc Loi*** *– ARiHA, Thong Nhat Hospital*	**C4** **A model for classifying multiple traditional medicine syndromes in type 2 diabetes: a diagnostic and clinical decision support system** ***Nguyen Le Van*** *– Faculty of Traditional Medicine, University of Medicine and Pharmacy at Ho Chi Minh City*
	A5 **Empirical antibiotic selection supported by AI and digital transformation in the treatment of infections** ***Tran Dinh Binh*** *– University of Medicine and Pharmacy, Hue University*	**B5** **Somatic and germline mutation spectrum of retinoblastoma patients in Vietnam** ***Nguyen Phuoc Dung*** *– Center for Gene and Protein Research, Hanoi Medical University*	**C10** **Comprehensive clinical and genetic characteristics of congenital hearing loss in Vietnamese children: a multicenter whole-exome sequencing study** ***Nguyen Thanh Tra*** *– Precision Gene JSC*
	General discussion and session wrap-up	**General discussion and session wrap-up**	**General discussion and session wrap-up**

Afternoon (continued): Parallel Oral Sessions in 3 Halls | 15:15 – 16:45

12-minute presentation and 3-minute Q&A per talk

	Hall 1 Theme 1: AI and Digital Transformation in Healthcare and Medical Education	Hall 2 Theme 2: Gene Technology and Stem Cells	Hall 3 Theme 3: Clinical Research towards Personalized Medicine
15:15 – 16:45	**Session 2: AI and Digital Transformation in Medical Education** Chair: [To be announced]	**Session 4: Stem Cells in Personalized Screening, Diagnosis and Treatment** Chair: [To be announced]	**Session 6: Clinical Research towards Personalized Medicine (2)** Chair: [To be announced]
	A6 **The AIBDML doctrine: a self-orchestrating medical training architecture driven by artificial intelligence and big data** ***Nguyen Huu Tung*** *– Phan Chau Trinh University*	**B6** **Stem Cell Therapies for Restoring Vision: From Cornea to Retina** ***Mijeong Park*** *– Clem Jones Centre for Regenerative Medicine, Bond University*	**C5** **Development of an ultra-low-flow, pressure-limited pneumatic system for intussusception reduction** ***Nguyen Huu Phung*** *– Phan Chau Trinh Medical University Hospital*
	A7 **Research and application of a hybrid RAG architecture with a knowledge graph for searching and navigating university library resources** ***Tran Trung Tin*** *– Deep Medicine Unit (DMU), Phan Chau Trinh University*	**B7** **Mesenchymal Stem Cell-Derived Exosomes Modulate De Novo Lipogenesis via the AMPK–SREBP-1c Axis: Evaluation in Two Steatotic HepG2 Cell Models** ***Truong Hai Nhung*** *– University of Science, VNU-HCM*	**C6** **Pituitary abscess mimicking a prolactinoma: a case report and lessons from endoscopic transsphenoidal surgery** ***Dinh Thi Phuong Hoai*** *– Hue University of Medicine and Pharmacy Hospital*
	A8 **Efficacy and effectiveness of robot-assisted therapy for autism spectrum disorder: From lab to reality** ***Cao Hoang Long*** *– Vrije Universiteit Brussel (Belgium); Can Tho University*	**B8** **Human umbilical cord-derived mesenchymal stem cell sheet positively impacts bone defect healing** ***Le Hung Phat*** *– Stem Cell Institute, University of Science, VNU-HCM*	**C7** **Immature granulocyte index in early-onset neonatal sepsis in preterm infants at Family Hospital, Da Nang** ***Tran Duy Thai Khang*** *– Family Hospital, Da Nang*
	A9 **Disease classification and automated generation of Vietnamese chest X-ray reports using a multimodal artificial intelligence model combining imaging and clinical data** ***Tran Trong Hieu*** *– FSB Institute of Management and Technology, FPT University*	**B9** **Extracellular vesicles from human umbilical cord mesenchymal stem cells promote long-term functional recovery and neuronal preservation after severe spinal cord injury** ***Dao Thuy Vy*** *– Stem Cell Institute, University of Science, VNU-HCM*	**C8** **Characteristics of patients with bronchiectasis at the respiratory clinic of Tam Tri Saigon General Hospital** ***Phan Vuong Khac Thai*** *– Tam Tri Saigon General Hospital*
	A10 **Combining Grad-CAM++ and B-spline active contours for pneumonia localization on chest radiographs using only diagnostic labels** ***Phan Thanh Tra*** *– FPT University Da Nang*	**B10** **Efficacy of mesenchymal stem cells in the treatment of COPD: a review and report of two clinical cases** ***Phan Le Minh Tu*** *– Center for Biomedical Research and Application, Phan Chau Trinh University*	**C9** **Cemented total knee arthroplasty for advanced knee osteoarthritis: a case series** ***Le Duc Thanh Nhan*** *– Phan Chau Trinh Medical University Hospital*
	General discussion and session wrap-up	**General discussion and session wrap-up**	**General discussion and session wrap-up**

11:30 – 13:30 | Lunch and Poster Presentations: 12:00 – 13:15

Continuous presentations on 3 digital boards by theme · Each presenter: max. 5 minutes

	Digital board 1 (13 posters) Theme 1: AI and Digital Transformation in Healthcare and Medical Education	Digital board 2 (13 posters) Theme 2: Gene Technology and Stem Cells	Digital board 3 (14 posters) Theme 3: Clinical Research towards Personalized Medicine
12:00 – 13:15	**P1** Building a model to evaluate and select coverage-based copy number variation detection tools for PGT-A analysis *Nguyen Ha Phuong Truc – University of Science, VNU-HCM*	**P10** Dynamic gene expression gene across the hepatocellular carcinoma development from MASLD-cirrhosis: A multi-stage time series transcriptomics study *Hoang Nhu Quynh * – International University, VNU-HCM*	**P20** Biofilm-associated medical device infections: from formation mechanisms to treatment and prevention strategies *Tran Khanh Toan – University of Medicine and Pharmacy, Hue University*
	P2 Development of a two-tier AI-integrated telemedicine system for case-based medical training *Pham Quoc Cuong – Deep Medicine Unit (DMU), Phan Chau Trinh University*	**P11** NIPTorrent: development and validation of an open-source bioinformatics pipeline for non-invasive prenatal testing on the Ion Torrent platform *Duong Tan Phat – Phuong Chau International Hospital*	**P21** Molecular allergen profile of fish proteins binding IgE in patients sensitized to tuna in Vietnam *Trinh Hoang Kim Tu * – University of Medicine and Pharmacy at Ho Chi Minh City*
	P3 Artificial intelligence for estimating blood pressure trends from multi-wavelength photoplethysmography (PPG) signals on a wearable device (with device demonstration) *Nguyen Tan Si – Deep Medicine Unit (DMU), Phan Chau Trinh University*	**P12** Uncovering the genomic landscape of carrier screening in the Vietnamese population using next-generation sequencing *Nguyen Manh Hung – Precision Gene JSC*	**P22** Self-care status and needs of patients with early-stage breast cancer at K Hospital *Vuong Hong Hanh * – K Hospital*
	P4 From longitudinal health context to safe action: co-versioned governance contracts for stateful medical AI *Nguyen Ngoc Thien – Independent researcher, Hue*	**P13** Bioinformatics pipeline for higher-grade Klinefelter syndrome detection in non-invasive prenatal testing with simulated and clinical data *Nguyen Tan Loc – University of Science, VNU-HCM*	**P23** Quality of a continuing training course for school health staff in Ho Chi Minh City at Pham Ngoc Thach University of Medicine *Dang Thi Thuy Linh – Pham Ngoc Thach University of Medicine*
	P5 AI's standard of care? LLM deviations toward foreign and outdated guidelines compared with Vietnam Ministry of Health guidelines *Ngo Binh Minh – Ton Duc Thang University*	**P14** Artificial intelligence and next-generation sequencing for building a treatment-relevant lung cancer gene database *Vu Thi Huyen * – Hanoi Medical University*	**P24** Clinical and paraclinical characteristics and antibiotic resistance in children with pneumonia at Phan Chau Trinh Medical University Hospital *Pham Thi Minh Thuy – Phan Chau Trinh Medical University Hospital*
	P6 AI and digital transformation for overcoming patient–dentist communication barriers in odonto-stomatology *Tran Duc Dai – University of Economics, The University of Da Nang*	**P15** Potential diagnostic value of serum microRNAs across 19 cancer types: an integrated bioinformatics analysis *Tran Chau My Thanh – School of Medicine and Pharmacy, Duy Tan University*	**P25** ERAS in perioperative care and rehabilitation of elderly patients undergoing lumbar spine surgery *Dinh Thi Phuong Hoai – Hue University of Medicine and Pharmacy Hospital*
	P7 Factors influencing nursing students' acceptance and use of artificial intelligence in learning: a quantitative study based on a modified UTAUT model *Pham Thi Kien – Faculty of Nursing, Phan Chau Trinh University*	**P16** Mutations in the HNF1A, GCK, HNF4A, HNF1B and PAX4 genes in patients with suspected MODY in Central Vietnam *Nguyen Anh Thu * – Phan Chau Trinh University*	**P26** Efficacy of auricular acupuncture in reducing anxiety among students with anxiety symptoms at the University of Medicine and Pharmacy at Ho Chi Minh City *Vo Thi Ngoc Huyen * – Faculty of Traditional Medicine, University of Medicine and Pharmacy at Ho Chi Minh City*

Name * *Presenter not yet confirmed (internal draft)*

Poster Presentations (continued) | 12:00 – 13:15

Continuous presentations on 3 digital boards by theme · Each presenter: max. 5 minutes

	Digital board 1 (continued) Theme 1: AI and Digital Transformation in Healthcare and Medical Education	Digital board 2 (continued) Theme 2: Gene Technology and Stem Cells	Digital board 3 (continued) Theme 3: Clinical Research towards Personalized Medicine
12:00 – 13:15	**P8** Adapting to retirement in Vietnam and a framework of technology-based solutions for pre-retirees and retirees ***Nguyen Thi Thanh Van*** – *Faculty of Psychology, Phan Chau Trinh University*	**P17** Shotgun Metagenomic Sequencing for Diagnosing Severe Polymicrobial Empyema and Septic Shock Involving Stenotrophomonas maltophilia: A Case Report ***Pham Hieu Dan*** – *Thong Nhat Hospital*	**P27** Causes of fever among patients at the outpatient department of Tam Tri Saigon General Hospital: a real-world study ***Phan Vuong Khac Thai*** – *Tam Tri Saigon General Hospital*
	P9 Efficacy and potential mechanisms of traditional medicine combined with standard medical therapy in heart failure related to coronary artery disease ***Trieu Tu Duong*** – *University of Medicine and Pharmacy, Hue University*	**P18** Frequency of pathogenic variants in the Vietnamese population revealed by low-coverage whole-genome sequencing ***Tran Duc Phuc*** – *Precision Gene JSC*	**P28** Optimizing the choice of cardiovascular drugs in patients with chronic kidney disease ***Do Thi Ngoc Thuy*** – *Tam Tri Da Nang Hospital*
	P34 Awareness and use of generative AI in learning among medical students ***Hoang Nguyen Thanh Thuy**** – *Phan Chau Trinh University*	**P19** The awareness - knowledge gap in stem cell science among healthcare professionals and students ***Nguyen Ky Anh Huy*** – *Center for Biomedical Research and Application, Phan Chau Trinh University*	**P29** Vancomycin dose adjustment through therapeutic drug monitoring: a Bayesian approach ***Dinh Thi Thuy Ha**** – *Faculty of Pharmacy, Lac Hong University*
	P35 Application of artificial intelligence in medical record documentation and patient health education in Vietnamese private clinics: The MediNote AI model ***Hoang Anh*** – *University of Economics, The University of Da Nang*	**P37** Wound-healing effects of Kalanchoe pinnata (Lam.) Pers. extract in vitro and in an in vivo CO2 laser-induced skin injury model ***Mai Huynh Nhu**** – *University of Medicine and Pharmacy at Ho Chi Minh City*	**P30** Malignant transformation of ectopic liver tissue in the abdominal cavity: a case report and literature review ***Tran Hoa*** – *C Hospital, Da Nang*
	P36 Machine learning-assisted interpretation of embryo aneuploidy from sequencing data: Towards a domestic analysis pipeline in Vietnam ***Le Ngoc Tuong Vy*** – *Ho Chi Minh City University of Technology, VNU-HCM*	**P38** Flow cytometric evaluation of exosomes from the secretome of human adipose-derived mesenchymal stem cells ***Nguyen Thanh Binh**** – *Pham Ngoc Thach University of Medicine*	**P31** Ormond disease (retroperitoneal fibrosis, RPF): a case report and literature review ***Tran Hoa**** – *C Hospital, Da Nang*
	P40 Developing rapid clinical reasoning with the One Minute Preceptor (OMP) method for medical students at Hanoi Medical University ***Ha Luong Duy Khanh**** – *Hanoi Medical University*	**P39** SSEA3^{+}CD105^{+} cells from skin-derived MSCs promote motor recovery after spinal cord injury in mice ***La Linh Phuong**** – *Stem Cell Institute, University of Science, VNU-HCM*	**P32** Anaphylaxis in a newborn after BCG vaccination: a case report ***Nguyen Cong Tien*** – *Hoan My Da Nang Hospital*
			P33 Efficacy and safety of pneumatic intussusception reduction at a constant flow of 0.5 L/min with an 80 mmHg pressure ceiling: a retrospective study ***Nguyen Huu Phung*** – *Phan Chau Trinh Medical University Hospital*

Name * *Presenter not yet confirmed (internal draft)*

Closing Ceremony and Gala Dinner – Saturday, December 12, 2026	
Time	**Program**
16:45 – 17:00	Delegates move to the main hall
17:00 | Closing Ceremony	
17:00 – 17:10	**Cultural performance**
17:10 – 17:20	**Conference summary remarks**
17:20 – 17:45	**Best Presenter Awards (Oral and Poster), certificates and group photo**
18:00 – 20:30	**Gala Dinner**
20:30	**End of program**
Side Event	
Friday evening, December 11, 2026	**Welcome Dinner for invited guests and presenters** *(time and venue to be announced by the Organizing Committee)*

Notes

- The Conference comprises a Plenary Session, 6 oral sessions (30 presentations) in 3 halls and 40 poster presentations on 3 digital boards.
- Presentation languages: English and Vietnamese.
- Conference information: conference.pctu.edu.vn · Conference Secretary: Dr. Do Hoang Minh Thu – +84 799 309 316

** Program updated as of November 17, 2026.*