



# APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

DEC 2 - 5, 2025 | ICC JEJU, Jeju Island, Korea

Session Title:	[TG3] RF and Microwave for Medical Applications
Session Date:	December 4 (Thu.), 2025
Session Time:	13:20-15:00
Session Room:	Room G (303)

[TG3-1] [Invited]

13:20-13:40

### Integration of RF MEMS and CMOS RFIC for Infrared Sensing

Huei Wang and Pei-Hsiang Wang (National Taiwan University, Taiwan); Zhixing Lin (University of California, Davis, USA); Yuen-Sum Ng (National Taiwan University, Taiwan); Melisa Gulseren and Matthew Benson (University of California, Davis, USA); Yunshan Wang, Jun-Han Lin, Chun-Wei Hsu, Sheng-Fu Zhuang, Xin-Hao Huang, Sheng-Chun Chen and Sheng-Wei Shih (National Taiwan University, Taiwan); Qun Jane Gu (Georgia Institute of Technology, USA); Juan Sebastián Gomez-Díaz (University of California, Davis, USA)

[TG3-2] [Invited]

13:40-14:00

### Evolution of Human Exposure Research in Response to Changes in Radiofrequency Service

Jung Ick Moon (Electronics and Telecommunications Research Institute, Korea (South))

[TG3-3]

14:00-14:20

### In Vivo Signal Attenuation of Ingestible Electronics: Propagation Across Frequency Bands and pH Levels

Ziyao Zhou and Hen-Wei Huang (Nanyang Technological University, Singapore)

[TG3-4]

14:20-14:40

### Application of mmWave FMCW Radar to Measure Thickness of Materials and 3D Imaging

Edrick Baijukya (Ulsan National Institute of Science and Technology, Korea (South)); EunMi Choi (UNIST, Korea (South))

[TG3-5]

14:40-15:00

### A Low-Profile Circumgyrated Shaped GCPW Patch Antenna for Wireless Medical Telemetry Services

Nayab Gogosh (COMSATS University Islamabad, Pakistan); Sohail Khalid (Riphah International University, Pakistan); Musa Hussain (Griffith University, Queensland, Australia); Adnan Iftikhar (COMSATS Institute of Information Technology, Islamabad, Pakistan); Muhammad Farhan Shafique (COMSATS Institute of Information Technology, Pakistan); Syed Muzahir Abbas (Macquarie University, Australia)