

Keynote incl. Free Communication

## Research Technology and AI

Saturday, 5 Sep 2026, 1:30 p.m. - 3 p.m., Deck 3-4

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Chair: Dirk Schaefer, Stefan Hummelink (Radboudumc)

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### **Exploring the Role of Artificial Intelligence in Decision-Making for Breast Reconstruction after Malignant Breast Pathologies**

Presentation time: 6 min

Abstract Presenter: L. De Pellegrin (Inselspital University Hospital)

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### **Deep Learning-enabled Costal Cartilage Segmentation via CT Ushers in the Precision Era of Ear Reconstruction**

Presentation time: 6 min

Abstract Presenter: B. H. Wang (Ordos central hospital)

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### **Simulated Microgravity Enhances Post-Exposure Proliferation in Human Adipose Stem Cells for Tissue Engineering Applications**

Presentation time: 3 min

Abstract Presenter: G. Z. Zinner (Geneva University Hospital)

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### **Artificial Intelligence as a Surgical Advisor before a DIEP Breast Reconstruction. A Blinded Comparative Study of Three Large Language Models.**

Presentation time: 6 min

Abstract Presenter: S. Holm (Örebro University Hospital)

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### **AI-assisted ambient dictation reduces documentation time in a multilingual Swiss hospital setting: a proof-of-concept study**

Presentation time: 6 min

Abstract Presenter: M. Gladysz (Cantonal Hospital Aarau AG)

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### **Sensitivity of Photoplethysmography (PPG) to Early Ischemic and Congestive Changes in Free Flap: An In Vitro Phantom Study**

Presentation time: 6 min

Abstract Presenter: H. Kodama (City St George's, university of London)

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### **Application of machine learning in facial palsy diagnosis, prognosis and dynamic functional assessment: A systematic review and meta-analysis**

Presentation time: 6 min

Abstract Presenter: K. Kiew (Imperial College London)