



Biomedical Smart Devices and Characterization Tools



November 18 to November 20, 2020

Bilateral Virtual Symposium

France 09:00-12:10

Taiwan 16:00-19:10

18

Opening Session

Micro/Nanofluidics for Biological/Medical Detection and Therapies

- Philippe ROGER* Surface functionalization of polymers for antibacterial purposes and other applications
Cheng-Hsien LIU Bio Lab Chip for Exploring in-vitro Disease Models
Edmond GRAVEL Micellar nanocarriers for biomedical applications
Chi-Shuo CHEN Reactive Oxygen Species and Inflammatory Responses of Macrophages to Substrates with Physiological Stiffness
Anne-Marie HAGHIRI Optimization of molecular enrichment in nanofluidic devices
Jen-Huang HUANG Fabrication of a Self-Breathing Bronchial-like Platform toward Pulmonary Drug Screening
Jean GAMBY Microfabrication and electrochemical activation of amorphous carbon nitride a-CNx working microelectrode integrated in microfluidic chips

19

Energy and Information for Biomedical Devices

Nano-tools for health

- Antoine DIET* Near Field power and data transfer for health monitoring
Zong-Hong LIN A textile-based triboelectric nanogenerator with humidity-resistant output characteristic and its applications in self-powered healthcare sensors
Nicolas VIGNAIS Preventing musculoskeletal disorders with on-body sensors and real-time biofeedback
Emile MARTINCIC Porous polymer pressure sensors by sacrificial PVA patterning: a new way of tuning the sensors features
Keng-Ku LIU Low-dimensional Nanomaterials for Chemical and Biological Sensing
Bernard BARTENLIAN Gold surface nanostructuring for SPR/SERS biosensors and their potential use for Coronavirus diseases studies
Ta-Jen YEN Three plasmonic devices for bio-sensing and bio-imaging: UTLC-SERS chip, UV photodetector and plasmonic NSOM tip

20

Simulation and Optical tools for Physiology

Closing remarks

- Vincent VIGNERON* Learning things – machine learning for designing smart system
Li-An CHU Whole organ imaging in single cell resolution
Frederic PAIN Wide field imaging of cerebral blood flow using multiple exposure speckle imaging
Yi-Wen LIU Recent progress in modeling the mammalian cochlea
Dan BENHAMOU A French vision of simulation in Healthcare
Benoit LARRAT or Anthony NOVELL TBD



Joining Instructions

1. Test

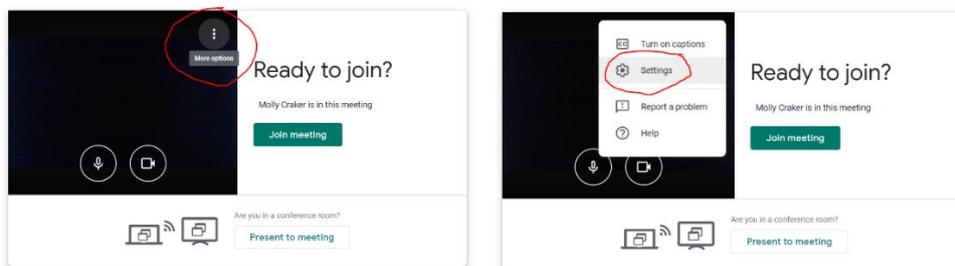
The host account will be available on November 16th for testing. Please feel free to login and confirm the voice and the webcam. (France: 08:00-21:00, Taiwan: 15:00-17th 04:00)

2. Get the password / link

To check the exact date and time of the meeting in your time zone, the participants are recommended to visit the registration form to get the password / link for each session. We will send the link to all the presenter even without registration.

3. Equipment

Before joining the session, ensure your microphone and/or webcam is connected if needed. Click on the three dots and choose Settings to connect your microphone and/or webcam. The two circles representing the microphone and webcam can be clicked and turned red, meaning they are turned off. To turn them back on, click on them to make them white.

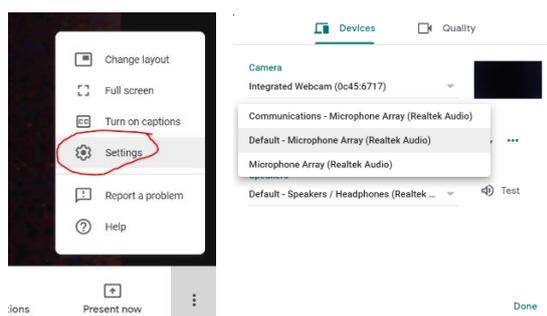


4. Join the Meeting

When you are ready, click “Join Meeting”. Rename your screen name into the following format [Name, Name of University].

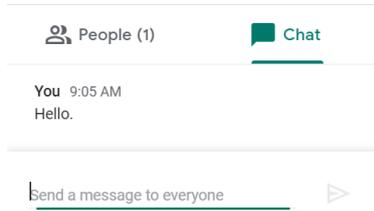
5. Audio or video issues during the meeting

If you are experiencing audio or video issues, click on the three dots in the bottom right corner and click Settings. You can use the drop-down arrows to reconnect your microphone, webcam, or speakers.



6. Chat

Consider using the chat feature in the top right corner to instant message session participants.



7. Mute and exit

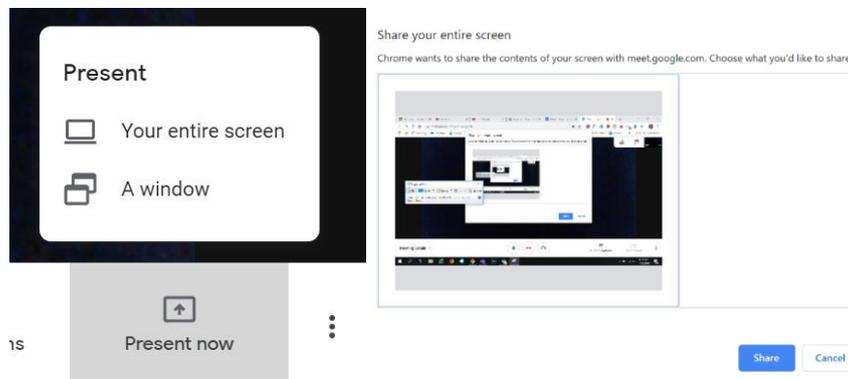
Use the buttons in the bottom center of the session to mute your microphone or webcam. All participants' video will be turned on and mics are muted by default basically. In addition, use the red phone button to exit the session.



8. Share screen

- (1). If you need to share your screen with all participants, click “Present Now” in the bottom right corner. Select either your entire screen or just a window.

On the window that opens, click on the screen or window you'd like to share, then click Share. To stop sharing your screen, click “Stop Sharing” in the bottom right corner.



9. Problem solve

- (1). If you have any problem logging in the meeting on the day of the virtual symposium, please email the NTHU at dic@my.nthu.edu.tw .
- (2). If you have any questions during the meeting, please message the staff **NTHU-DIC** using the in-meeting chat.
- (3). If you have any questions related to the meeting or if you would like to schedule a test before the meeting, please contact Ms Audrey Chen at anchi_chen@mx.nthu.edu.tw