

Class presentations:

Status: 29.04.2025

05.05.2025

12:15; Tristan Jamolli: Applications of gold nanoparticles surface plasmon resonances in photomedicine.

12:30; Edward Von Doderer: Liver cancer treatment with integration of laser emission and microwave irradiation with the aid of gold nanoparticles.

12:45; Christian Balea: Systemic and topical strategies to protect the skin from UVs.

13:00; Carole Déruaz: A review of Photodynamic Therapy for Inflammatory Bowel Disease.

13:15; Laurine Desbiolles: Antimicrobial photodynamic therapy.

13:30; Michael Zhang: Photomedicine in Endodontics and Dental Applications.

13:45; Jennifer Jankulovski: FRET-based biosensors.

- Presentation duration: 13 minutes + 2 minutes for Q/A
- Please send your presentation to GW at least one day in advance to save time.
- Use your own laptop if you have videos or if the file format is not ppt or pdf.

On Moodle!

Class presentations:

12.05.2025

12:15; Maxim Hamers: Near Infrared Photoimmunotherapy.

12:30; Marc Tang Vidale: Brain Photomodulation therapy to treat neurological and neurodegenerative conditions.

12:45; Lou-Anne Ducruet: Photobiomodulation as a treatment for retinal diseases.

13:00; Clara Bergonzi: Application of optogenetics in neurodegenerative diseases.

13:15; Daniela Wicki: Translational optogenetics: towards therapeutic application.

13:30; Liam Wiprächtiger: Modular chemigenetic calcium indicators for multiplexed in vivo functional imaging.

13:45; Coline Guillousson: Optical Coherent Tomography: An Application for Cerebral Artery Diseases.

- Presentation duration: 13 minutes + 2 minutes for Q/A
- Please send your presentation to GW at least one day in advance to save time.
- Use your own laptop if you have videos or if the file format is not ppt or pdf.

On Moodle!

Class presentations:

19.05.2025

12:15; Sybille Collignon: *in vivo* Fluorescence Imaging for the Diagnosis of Stem Cells Using Quantum Dots for Regenerative Medicine.

12:30; Xinyu Zhu: Photobleaching and Phototoxicity in Live Cell Imaging.

12:45; Alicia Lauwers: Raman spectroscopy and regenerative medicine.

13:00; Lisa Tancredi: Optimization of the treatment of varicose veins through selective photothermolysis.

13:15; Arthur Micaleff: Carbon Nanomaterials as an Alternative to Metallic Nanoparticles for Photothermal Therapy.

13:30; Guillaume Malherbe: Fiber-Optic Biosensors.

13:45; Nathalie Meuwly: Advances and Trends of Photoresponsive Hydrogels for Bone TissueEngineering.

- Presentation duration: 13 minutes + 2 minutes for Q/A
- Please send your presentation to GW at least one day in advance to save time.
- Use your own laptop if you have videos or if the file format is not ppt or pdf.

On Moodle!