WORKSHOP ON NANOMEDICINE AND IMMUNOTHERAPY
8 am – 18 pm
8h - 18h

Coordinators *Coordenadores*	Andris Figueiroa Bakuzis / Romualdo Barroso de Sousa *Andris Figueiroa* Bakuzis / Romualdo Barroso de Sousa

MODULE 1
MÓDULO 1

8 am – 8:40 am *8h – 8h40*	Designer nanoparticles for magnetic hyperthermia **Hao Zeng** (University at Buffalo - USA)
8:40 am – 9:00 am *8h40 – 9h*	Magnetic hysteresis Tailored for Nanomedicine applications **Flavio Garcia** (CBPF - RJ)
9 am – 9:20 am *9h – 9h20*	Layer-by-layer engineered MnFe2O4 nanoplatforms for magnetic-assisted release of curcumin. **Marcelo Sousa** (UnB – DF)
9:20 am – 9:30 am *9h20 – 9h30*	Magnetoliposomes for heat-induced drug delivery **Emilio Cintra** (UFG – GO)
9:30 am – 9:40 am *9h30 – 9h40*	Core-shell nanoheaters for low field magnetic hyperthermia **Marcus Araujo** (UFG – GO)
9:40 am –10 am 9h40 – 10h	Hybrid Nanostructures as Multifunctional Tools for Thermal Sensing, Photothermal Therapy and Controlled Magnetic Heating **Ueslen Rocha** (UFAL – AL)
10 am –10:30 am 10h – 10h30	*Break* Intervalo

MODULE 2
MÓDULO 2

10:30 am – 11am *10h30 – 11h*	History and evolution of Cancer Immunotherapy **Romualdo Barroso de Sousa** (Hosp. Sirio-Libanes – DF)

11 am – 11:30 am *11h – 11h30*	Immunotherapy with check point blockade and the 2018 Nobel Prize in Medicine **Simone Fonseca** (UFG – GO)
11:30 am – 11:50 am *11h30 – 11h50*	Specific T cell induction using iron oxide based nanoparticles as subunit vaccine adjuvant. **Ana Junqueira-Kipnis** (UFG – GO)
11:50 am – 12:30 am *11:50h – 12h30*	In situ vaccination for tumor immunotherapy: treat locally, respond systemically **Steven Fiering** (Dartmouth Geisel School of Medicine – USA)
12:30 pm – 12:50 pm *12h30 – 12h50*	Immunogenicity of 4T1 and CT26 cancer cells treated with photodynamic therapy **Luis Muehlmann** (UnB – DF)

MODULE 3
MÓDULO 3

2 pm – 2:40 pm *14h – 14h15*	Prospect of Magnetic Particle Imaging for Breast Cancer Detection **Frank Wiekhorst** (Physikalisch-Technische Bundesanstalt – Germany)
2:40 pm – 3:00 pm *14h40 – 15h*	Combining ultrasound and magnetism in a multi-purpose imaging system **Theo Pavan** (USP – SP)
3 pm – 3:20 pm *15h – 15h20*	Recent progresses in fluorescence and thermal images with applications in nanomedicine **Carlos Jacinto** (UFAL – AL)
3:20 pm – 3:35 pm *15h20 – 15h35*	Multifunctional nanohybrids for thermal therapy, near infrared imaging and nanothermometry **Navadeep Shrivastava** (UFG - GO)
3:35 pm – 3:50 pm *15h35 – 15h50*	Infrared thermometry for non-invasive detection of the intratumoral temperature during magnetic hyperthermia **Harley Rodrigues** (IFG - GO)
3:50 pm – 4:10 pm *15h50 – 16h10*	Magnetoalbumin-based nanocarrier for photothermal therapy **Elisangela Silveira-Lacerda** (UFG – GO)
4 pm – 4:30 pm *16h – 16h30*	Break *Intervalo*

MODULE 4
MÓDULO 4

4:30 pm – 4:50 pm *16h30 – 16h50*	Understanding the role of immune system components on the clearance of drug delivery nanoparticles from circulation **Eliana Lima** (UFG – GO)
4:50 pm – 5:05 pm *16h50 – 17h05*	Erythrocyte membrane-coated magneto-fluorescent nanocarriers for thermal therapy and heat-induced immunological responses **Ailton Sousa-Junior** (UFG - GO)
5:05 pm – 5:25 pm *17h05 – 17h25*	Lymphocytes tumor infiltrated in metastatic lesions treated with Liposomes containing Doxorubicin and Paclitaxel. **Joao Paulo Longo** (UnB – DF)
5:25 pm – 6 pm *17h25 – 18h*	Immunotherapy in Breast Cancer: Where are we, and where are we going to? **Romualdo Barroso de Sousa** (Hosp. Sirio-Libanes – DF)