WORKSHOP ON NANOMEDICINE AND IMMUNOTHERAPY
8 am – 18 pm

Coordinators
Andris Figueiroa Bakuzis - GO
Romualdo Barroso de Sousa - DF

MODULE 1
8 am – 8:40 am
Designer nanoparticles for magnetic hyperthermia
Speaker: Hao Zeng - USA

8:40 am – 9 am
Magnetic hysteresis Tailored for Nanomedicine applications
Speaker: Flávio Assad Garcia - RJ

9 am – 9:20 am
Layer-by-layer engineered MnFe2O4 nanoplatorms for magnetic-assisted release of curcumin.
Speaker: Marcelo Sousa - DF

9:20 am – 9:30 am
Magnetoliposomes for heat-induced drug delivery
Speaker: Emilio Cintra - GO

9:30 am – 9:40 am
Core-shell nanoheaters for low field magnetic hyperthermia
Speaker: Marcus Araujo - GO

9:40 am – 10 am
Hybrid Nanostructures as Multifunctional Tools for Thermal Sensing, Photothermal Therapy and Controlled Magnetic Heating
Speaker: Ueslen Rocha - AL

10 am – 10:30 am
Break

MODULE 2
10:30 am – 11 am
History and evolution of Cancer Immunotherapy
Speaker: Romualdo Barroso de Sousa - DF

11 am – 11:30 am
Immunotherapy with check point blockade and the 2018 Nobel Prize in Medicine
Speaker: Simone Fonseca - GO

11:30 am – 11:50 pm
Specific T cell induction using iron oxide based nanoparticles as subunit vaccine adjuvant.
Speaker: Ana Paula Junqueira Kipnis - GO

11:50 am – 12:30 pm
In situ vaccination for tumor immunotherapy: treat locally, respond systemically
Speaker: Steven Fiering - USA
12:30 pm – 12:50 pm  
**Immunogenicity of 4T1 and CT26 cancer cells treated with photodynamic therapy**  
Speaker: Luis Muehlmann - DF  

**MODULE 3**

2 pm – 2:40 pm  
**Prospect of Magnetic Particle Imaging for Breast Cancer Detection**  
Speaker: Frank Wiekhorst - GER  

2:40 pm – 3 pm  
**Combining ultrasound and magnetism in a multi-purpose imaging system**  
Speaker: Theo Pavan – SP  

3 pm – 3:20 pm  
**Recent progresses in fluorescence and thermal images with applications in nanomedicine**  
Speaker: Carlos Jacinto - AL  

3:20 pm – 3:30 pm  
**Multifunctional nanohybrids for thermal therapy, near infrared imaging and nanothermometry**  
Speaker: Navadeep Shrivastava - GO  

3:30 pm – 3:40 pm  
**Infrared thermometry for non-invasive detection of the intratumoral temperature during magnetic hyperthermia**  
Speaker: Harley Rodrigues – GO  

3:40 pm – 4:00 pm  
**Magnetolalbumin-based nanocarrier for photothermal therapy**  
Speaker: Elisangela Silveira-Lacerda - GO  

4 pm – 4:30 pm  
**Break**  

**MODULE 4**

4:30 pm – 4:50 pm  
**Understanding the role of immune system components on the clearance of drug delivery nanoparticles from circulation**  
Speaker: Eliana Lima – GO  

4:50 pm – 5:05 pm  
**Erythrocyte membrane-coated magneto-fluorescent nanocarriers for thermal therapy and heat-induced immunological responses**  
Speaker: Ailton Sousa Junior - GO  

5:05 pm – 5:25 pm  
**Lymphocytes tumor infiltrated in metastatic lesions treated with Liposomes containing Doxorubicin and Paclitaxel.**  
Speaker: Joao Paulo Longo - DF  

5:25 pm – 6 pm  
**Immunotherapy in Breast Cancer: Where are we, and where are we going to?**  
Speaker: Romualdo Barroso de Sousa - DF