

JUNE 20  
BUILD.349

**PHD  
STUDENT  
DAY**

9h30 Coffee time

9h50 Welcome talk

## Presentations

Chairperson - Thomas NOBLET

10h00 Aicha BOURAOUÏ / 3rd year / Bio  
Poldip2: a new regulation for Nox2

10h20 Sarah AL GHARIB / 2nd year / TEMiC  
Key role of the oxidized citrate free radical in the nucleation mechanism of the metal nanoparticles  
Turkevich synthesis

10h40 Hana ILLICHOVA / 2nd year / Bio  
Study of constitutive NADPH oxidase activity in living cells using FP-labeled chimera protein of regulatory subunits

11h00 Xuefan SONG / 2nd year / TheoSim  
Molecular modeling and experimental characterization of key polymeric material in reverse-osmosis membranes and of their interactions with water

11h20 Slava SHCHERBAKOV / 1st year / TEMiC  
First demonstration of chemical effect of gold nanoparticles in radiosensitization

11h40 Poster session

12h10 Lunch

## Presentations

Chairperson - Waeytens JEHAN

13h40 Jan BOHL / 3rd year / RISMAS  
Characterization of the human prion protein under gamma irradiation

14h00 Teseer BAHRY / 3rd year / TEMiC  
Radiation induced synthesis of polythiophene derivatives in dichloromethane and in aqueous solution

- 14h20 Alexandra ZAK / 3rd year / Bio  
Viscoelastic properties of neutrophils during phagocytosis
- 14h40 Mario MENENDEZ-MIRANDA /Post-doc/TEMiC  
Infrared nanospectroscopy (AFM-IR): an innovative characterization tool applied to drug loaded polymeric nanoparticles
- 15h00 Jeremy JOLY / 3rd year / Bio  
Studying Nox2 in microscopy: an unexpected journey
- 15h20 Poster contest / Group photo /  
Coffee time
- Presentations  
Chairperson - Alexandra Zak
- 15h40 Jian LI / Post-doc / TEMiC  
Superhydrophilic graphdiyne accelerates interfacial mass/electron transpotation to boost electrocatalytic and photoelectrocatalytic water oxidation
- 16h00 Stephenson Boakye OWUSE /2nd year/Bio  
Effect of radiation-induced oxidative stress of the functioning of human neutrophils
- 16h20 Thomas NOBLET / 3rd year / TEMiC  
Short-range vibroelectronic coupling between quantum dots and organic molecules
- 16h40 Floriant DOUNGMENE / Invited speaker
- 17h00 Award ceremony

## Posters

1. Jehan WAEYTENS / 3rd year / Bio  
Atomic Force Microscopy - Infrared (AFM-IR) characterization of bio-functionalized gold and germanium surface
2. Xiaojiao YUAN / 3rd year / TEMiC  
Polypyrrole nanostructures for application in photocatalysis
3. Yali WANG / 1st year / RISMAS  
Infrared isomer-specific fragmentation for the identification of aminobutyric acid isomers separated by differential
4. Cong WANG / 1st year / TEMiC  
Short-range vibroelectronic coupling between quantum dots and organic molecules
5. Marija KNEZEVIC / M2 student / TEMiC  
Photoactive core-shell nanostructures for environment and energy
6. Pierre HALIPRÉ / M1 student / RISMAS  
Kinetic study of reactions in a mass spectrometer
7. Aisara AMANOVA / M2 student / TEMiC  
Conductive nanoinks for electronic applications
8. Anouchka GATIN / M2 student / Bio  
Oxidative stress and human centrin 2-PL7XPC complex
9. Rika TANDIANA / M2 student / TheoSim  
Modelization of the interface of Gold nanoparticles and water to Rationalize the Overproduction of Hydroxyl Radicals
10. Ning CHEN / M1 student / TEMiC  
Chemical effect of gold nanoparticles affecting the yield of oxidation in radiosensitization