



**IAEA Regional Workshop TC Project RER1019
“Status, Advances and Applications of Ionizing Radiation
on Bio-medical Materials”**

11-14 June 2019”



**Radiation Chemistry and Dosimetry Laboratory
Ruđer Bošković Institute**

ZAGREB, CROATIA

AGENDA

Tuesday, 11 June 2019

9.30 - 10.00 Arrival and check-in

Introductory Session

10.00 – 10.15 Opening of the meeting
Election of the Chairperson(s)
Adoption of the agenda

Session I: Invited lectures - basic radiation research topics on polymers

10.15 – 11.15 **Piotr ULANSKI:**
Radiation synthesis and modification of polymers, in particular hydrogels; exemplary application: synthesis of hydrogel dressings (the Rosiak method)

11.15 – 11.45 *Coffee break*

11.45 - 12.45 **Piotr ULANSKI:**
Nanogels and other nanoparticles synthesized by radiation technique – future of drug, gene- and radioisotope delivery

12.45 – 14.00 *Lunch break*

Session II:**Session I: Status of Radiation Processing and New Applications - overview of applied research topics and the most important achievements in polymer-based biomaterials**

14.00 – 14.45

Luis Miguel MOTA FERREIRA – Portugal*Research on Radiation Processing of Biomedical Materials at C²TN/IST*

14.45 – 15.05

Tanja JURKIN - Croatia**Ivan MARIĆ***Research and experience in Croatia: Gamma irradiation synthesis of nanomaterials in Croatia – gold and magnetic nanoparticles and nanocomposite hydrogels*

15.05 – 15.30

Coffee Break

15.30 - 17.00

Visit to RBI facilities

Wednesday, 12 June 2019**Session III A****The most important achievements in applied radiation research on biomaterials**

10.00 – 11.00

Piotr ULANSKI (Invited):*Case studies from IARC laboratory – examples of polymer biomaterials obtained by radiation technique*

11.00 – 11.30

Coffee break

11.30 – 12.15

Diana ADLIENE – Lithuania*Medical applications of dose gels*

12.15 – 13.00

Piotr ULANSKI (Invited):*Radiation chemistry of polysaccharides (incl. examples of applications)*

13.00 – 14.30

*Lunch break***Session III B****The most important achievements in applied radiation research on biomaterials**

14.30 – 15.15

Luis Miguel MOTA FERREIRA – Portugal*Radiation induced functionalization of polymeric based biomaterials: from preparation to in vivo assays*

15.15 – 16.00	Katarina MARUSIC - Croatia Branka MIHALJEVIC <i>Research and experience in Croatia: Radiation protection of steel for medical implants</i>
16.00 – 16.30	<i>Coffee break</i>
18.00 – 20.00	Guided tour to the city center
20.00	Dinner

Thursday, 13 June 2019

Session IV Participant's presentations – Status of Radiation Processing and experience in new applications

10.00 – 10.20	Zaur KHALILOV - Azerbaijan
10.20 – 10.40	Sviatoslav BRINKEVICH - Belarus
10.40 – 11.00	Marinko ZELJKO – Bosnia and Herzegovina
11.00 – 11.20	Gatis BERLAKOVIS – Latvia
11.20 – 11.50	<i>Coffee Break</i>
11.50 – 12.10	Tsvetelin TSRUNCHEV - Bulgaria
12.10 – 12.30	Imre MADAR - Hungary
12.30 – 14.00	<i>Lunch break</i>
14.00 – 14.20	Aleksandar KRLESKI – North Macedonia
14.20 – 14.40	Marta WALO – Poland
14.40 – 15.00	Maria DEMETER – Romania
15.00 – 15.20	Stepan ZYRYANOV – Russian Federation
15.20 – 15.50	<i>Coffee break</i>
15.50 – 16.10	Ivica VUJČIĆ – Serbia
16.10 – 16.30	Pavol RAGAN – Slovakia
16.30 – 16.50	Busra AYDIN – Turkey

Friday, 14 June 2019

Session V	Participants' Discussions : ALL PARTICIPANTS
9.30 – 11.00	Status and Needs of Member States related to knowledge transfer and experience in new applications of ionizing radiation on biomaterials
11.00 – 11.30	<i>Coffee Break</i>
11.30 – 12.30	Summary the workshop Closing