

Activity report: 21st International Conference on Solid State Dosimetry (SSD21)

I had the privilege to attend the 21st International Conference on Solid State Dosimetry (SSD21) in Mexico City, Mexico from June 8th to 13th. Thanks to the travel grant offered by PIANOFORTE, I had the opportunity to present the progress of my PhD work in two different oral presentations, entitled *“Kinetics of radio-induced free radicals in mouse bone for retrospective dose estimation by EPR spectroscopy: impact of X-ray quality”* as part of the session *“Dose Reconstruction and Dating I”*; and *“Characterization of bone and muscle damage induced by different X-ray beam qualities and correlation to the real absorbed dose using a mouse model”* as part of the session *“Dosimetry for Medicine & Biology III”*.

Moreover, I had the chance to attend several presentations and discussions covering various advancements in solid state dosimetry. Many sessions were dedicated to interesting topics, ranging from theoretical aspects to the application of different dosimeters (TLD, RPL, OSL), the development of new types of detectors for medical dosimetry, and the use of machine learning in dosimetry for example.

The SSD21 conference allowed me to share my work and receive feedback from international experts. It broadened my understanding of dosimetry, the various methods and materials used across different domains from radiation accidents to medical applications.

I am sincerely grateful to PIANOFORTE for giving me the opportunity to attend this highly enriching conference, which was a valuable experience for my future career.

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