



# IV Geant4 International User Conference at the physics-medicine-biology frontier

## Wednesday, 26 October 2022

### Geant4 for DNA Damage evaluation - Centro Congressi "Federico II", (08:30 - 10:20)

time	[id] title	presenter
08:30	[125] Keynote: DNA damage simulation and prediction of biological endpoints using Geant4-DNA - Development of molecularDNA	SAKATA, Dousatsu
08:53	[20] MINAS TIRITH: a Geant4-DNA-based tool for modeling damage at the cell population scale	THIBAUT, Yann
09:05	[23] Simulation of radio-induced DNA damages and their repair by means of Geant4-DNA Monte Carlo Track Structure code	Dr PERROT, Yann
09:17	[39] Simulation and validation of plasmid DNA irradiation by electrons using Geant4-DNA	Dr ZEIN, Sara
09:29	[95] Evaluation of dose rates and DNA damage on microorganisms living in naturally radioactive mineral springs using GATE and Geant4-DNA	KOLOVI, Sofia
09:41	[43] In-silico calculations of DNA damage induced by DaRT for a better understanding of the radiobiological effectiveness of this treatment	BALLISAT, Laura
09:53	[94] Monte Carlo simulations of microdosimetry and radiolytic species production for preclinical proton beam using GATE and Geant4-DNA as part of the FLASHMOD project	MAIGNE, Lydia
10:05	[97] A Geant4-DNA simulation of human cancer cells irradiated with helium ion beams	DORDEVIC, Milos