

## Session Program

9-10 May 2023



**IGFAE**

Instituto Galego de Física de Altas Enerxías



**XUNTA  
DE GALICIA**

**IGFAE workshop on technologies and applied  
research at the future Galician proton-therapy  
facility**

***T: Radiobiology***

## Tuesday 9 May

14:35

### T: Radiobiology

**Session** |**Location:** Sala de Debates Centro de Estudos Avanzados (CEA) Parque de Vista Alegre Rúa Salvadas s/n 15705 Santiago de Compostela |**Convener:** Ana Vega

14:35–15:10

#### **Proton Therapy beyond cancer: Potential benefits for neurodegenerative disorders**

**Speaker**

Carina Coelho

15:10–15:30

#### **New radiobiology detector using scintillating arrays**

**Speaker**

Duarte Guerreiro

15:30–15:50

#### **Unraveling the complexities of radiation damage through Microdosimetric Kinetic Model: The role of clonogenic data in clinical RBE**

**Speaker**

Daniel Suarez-Garcia

15:50–16:10

#### **Installation of a tool based on GAMOS/Geant4 with calculation of the biological effect for the planning of CUN proton therapy treatments**

**Speaker**

Pedro Arce

16:10–16:30

#### **Radiobiology studies in proton therapy: range verification with Zn nanoparticles and studies of cell surveillance after irradiation with different LETs**

**Speaker**

Marta Ibáñez-Moragues

16:30