

Radiobiology Subcommittee

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Co-Chairs:

John Eley, [Walter Tinganelli](#), [Shimokawa Takashi](#)

Charges:

- To exchange knowledge and experience in radiation biology to support, expand and enhance treating patients with particle therapy for specific tumor indications
- To foster discussions and collaborative efforts between PTCOG Subcommittees
- To coordinate and manage radiobiology activities and propose new topics to be supported by PTCOG
- To organize dedicated meetings and symposia at the annual PTCOG Conferences in accordance with the PTCOG Executive Committee
- To promote and foster research interactions among members and PTCOG Subcommittees
- To support the Education Subcommittee
- To write White Papers on specific topics. Suggested topics are:
 - a. Biomarkers
 - b. Normal tissue toxicity
 - c. Radiobiology data translation to the clinic
 - d. Omics
 - e. What we can learn from the space radiation radiobiology research
 - f. New mechanistic models that include increased biological complexity

- g. Radioprotection of normal tissues
- h. Radio-immune therapies
- i. Combined therapies

Bibliography:

- IJPT: [Special Issue on Charged Particle Radiobiology](#)
- [Particle Beam Radiobiology Status and Challenges: A PTCOG Radiobiology Subcommittee Report](#)