

Subcommittee Name: **Radiobiology**

Co-chairs

Name	Country	Term started	Term ends*
Angelica Facoetti	Italy	2025	2029
Takahiro Oike	Japan	2025	2028
Brock Sishc	USA	2026	2029

* The term of office is 3 years and may be renewed once, for a maximum total service of 6 years. It is recommended that the 3 co-chairs come from 3 different continents (America, Asia, Europe). To ensure continuity, it is recommended that the co-chairs step down on a staggered basis following their first three-year term.

Subcommittee Achievements (e.g. white papers, publications, workshops, ...) – max 2,000 characters including spaces

- The PTCOG Radiobiology Subcommittee led the publication of the official report "*Particle Beam Radiobiology Status and Challenges: A PTCOG Radiobiology Subcommittee Report*" (Ahmad R et al., *Int J Part Ther*, 2024). This comprehensive report highlights the Subcommittee's commitment to driving the field forward by synthesizing the current state of particle beam radiobiology, identifying key scientific and technical challenges, and outlining priority directions for future research and clinical translation.
- The Radiobiology Subcommittee supported the publication of the consensus study "*Toward a consensual definition of radioresistance, a PTCOG DELPHI consensus study*." This initiative aimed to bridge the gap between biological research and clinical practice by establishing a shared, consensus-based definition of tumor radioresistance applicable to both radiobiologists and clinicians. <https://www.scivora.io/articles/toward-a-consensual-definition-of->

Do you maintain a mailing list of subcommittee members (Yes/No)? **YES**

Should the subcommittee continue its work (Yes/No)? **YES**

If yes, please describe the planned activities and goals for the next 3 years – max 2,000 characters including spaces

The PTCOG Radiobiology Subcommittee will remain focused on exchanging knowledge and practical experience in radiation biology to support and expand the particle therapy community. Alongside its core mission, the Subcommittee is driving several key initiatives.

First, under the leadership of Walter Tinganelli, we are establishing a Research Beam Facilities Registry. This centralized repository will provide researchers with straightforward access to operational details for particle beam time worldwide, including beam characteristics, application procedures, costs, wet-lab availability, and access to animal facilities.

To foster continuous debate and knowledge sharing, we plan to launch a series of seminars. These sessions aim to bring experts together to address pressing questions and emerging hot topics prioritized by our members, such as immunomodulation in particle therapy and RBE modeling and variability.

Furthermore, we are actively strengthening ties with other PTCOG Subcommittees, having identified a clear need for closer collaboration with the Clinical and Physics Subcommittees. To make these joint efforts more effective, we will be establishing dedicated working groups within our committee.

Please circulate this form to all subcommittee members and, once agreed upon by the subcommittee submit it to: secretariat@ptcog.online (cc: m.durante@gsi.de) within:

August 30, 2026

Please attach the list of subcommittee members (name and country).

The information contained in this form and the list of members will be uploaded on the webpage of your subcommittee (see: <https://ptcog.online/subcommittee/>).