## Scientific Program

**Advancing Particle Therapy** 

# Innovative Research. Global Collaboration.

The PTCOG 63 Scientific Program, taking place from June 4-6, will showcase the latest research, clinical advancements, and technological innovations in particle therapy. With leading experts from around the world, this program offers a comprehensive platform for multidisciplinary collaborations and real-world clinical applications.

<u>View Program at a Glance</u>

#### Latest Updates

Over 100 Scientific Presentations covering clinical applications, physics, radiobiology, and emerging technologies

#### Global Knowledge

40+ Countries Represented with speakers from top research institutions and cancer centers

#### **Comprehensive Insights**

Parallel Tracks in clinical practice, treatment planning, imaging, and biological research

#### Focused Science

Dedicated Subcommittee Sessions focusing on emerging fields such as FLASH, BNCT, and adaptive therapy

### **Key Session Highlights**

- Keynote Lecture: Accelerator-Based BNCT Global & Latin
  American Impact Andres J. Kreiner (Argentina)
- PTCOG-ASTRO Joint Plenary: New Data & Indications in Particle Therapy — Featuring global leaders in CNS, breast, lung, and GI cancers
- Re-Irradiation in Particle Therapy Best practices and case studies on treating recurrent cancers
- Pediatric Proton Therapy Advances in dose reduction,
  toxicity management, and long-term outcomes
- Emerging Use of Carbon Ion Therapy Clinical outcomes and future potential
- Machine Learning & AI in Treatment Planning Cuttingedge research on automated beam angle selection and adaptive planning
- Proton Arc Therapy & Dynamic Delivery Systems —
  Enhancing efficiency and precision in motion-adaptive treatments
- Microdosimetry & Quality Assurance Novel approaches in LET-based dosimetry and Monte Carlo simulations
- FLASH Radiotherapy & Spatially Fractionated Therapy Examining the radiobiological effects and potential clinical applications
- Tumor-Immune Crosstalk & Proton Therapy The role of

- charged particles in enhancing immunotherapy efficacy
- Boron Neutron Capture Therapy (BNCT) Latest breakthroughs in BNCT applications for glioblastoma, head & neck cancers, and lung metastases
- Proton Therapy in Latin America Challenges and opportunities for expanding access in the region
- Physics of Ocular Proton Therapy Precision-based solutions for treating ocular tumors
- Particle Therapy for Gynecological Malignancies —
  Exploring the potential of proton and carbon ion therapy in gynecologic cancers
- Industry Symposia & Exhibition Explore the latest innovations from leading companies in particle therapy
- PTCOG 63 <u>Networking Event</u> Connect with experts, researchers, and peers in a relaxed social setting
- Early Career Researcher Sessions Engage with mentorship programs and career development discussions

Secure Your Spot Today

# Stay at the forefront of particle therapy research and clinical applications.

Register Today