



Advancing Medical Physics Research: Building a Global Community

DESCRIPTION:

This five-day workshop aims to establish an international consortium dedicated to addressing critical challenges in medicine through physics-based methodologies. The 2026 theme is:

Advancing Medicine Through Imaging for Cancer Treatment

Medical imaging provides critical insights for **personalizing cancer treatment**. By extracting quantitative parameters from images, we can:

- Automate cancer detection and treatment planning
- Establish international benchmarks to improve care quality
- Understand tumor dynamics and adapt treatments over time

The ultimate goal is to **create a global consortium** that advances cancer care through imaging biomarkers, characterizing tumor evolution, treatment interactions, and enabling automation in detection and therapy.

MORE INFORMATION:

Participants are invited to submit a proposal using the template provided in the webpage. Projects may focus on:

- **Research:** Addressing a scientific question
- **Open-Source Development:**
Creating tools (software, phantoms, methodologies) for shared use

Each proposal will be discussed during the workshop.



14 - 18 September 2026



Trieste, Italy



**Deadline:
15 March 2026**

DIRECTORS:

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Robert Jeraj
Medical Physics, University of Wisconsin-Madison, USA

LOCAL ORGANIZER:

Marco Esposito, ICTP, Italy

FURTHER INFORMATION:

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Web: <https://indico.ictp.it/event/11161/>

Female scientists are encouraged to apply.

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

