



SUMMER SCHOOL

2 July 2024 - 10 July 2024

ESI ARCHAMPS, GREATER GENEVA

Recent advances in **precision medicine** have allowed healthcare providers to move away from a one-size-fits-all approach. More personalised care for cancer patients has led to enhanced prevention, improved treatment selection, and ultimately better clinical outcomes and quality of life.

Many challenges remain, however:

- limited access to personalised approaches
- treatment resistance
- less than optimal adaptation to evolving tumours
- time-consuming and costly implementation
- compatibility with current healthcare systems

Overcoming these challenges requires the emergence of new ideas, driving start-up ventures and accelerating the progress of precision medicine in oncology.

Join this exciting 9-day school and get a taste of what it means to be part of an international, multidisciplinary team, transforming an initial idea into a business model and pitching it to a jury of specialists in the field.

During your time at ESI, you will benefit from:

- ⚡ A series of **INSPIRATIONAL TALKS** given by key players from the world of precision oncology and patient-centred innovation: start-uppers, practitioners, researchers, patient associations ...
- ⚡ A **ROUND-TABLE discussion** with leading entrepreneurs in cancer research and treatment
- ⚡ A visit of **CERN's IDEASQUARE** and medical applications group
- ⚡ An insight into the **INNOVATION PROCESS** with sessions on entrepreneurship, communication, intellectual property, finance & investment
- ⚡ Scientific mentoring and innovation coaching during your **TEAMWORK** sessions

The Precision Oncology summer school will examine the impact of **ENTREPRENEURIAL INNOVATION** on cancer research and healthcare, opening a window on your future career possibilities.

- Learn what it means to embark upon a collaborative venture in an international team of biotech engineers, medical physicists, cancerologists, and doctoral researchers from world-leading institutions.
- Work with young like-minded scientists to cultivate a diverse perspective through interactions with leading experts from international organisations.
- Undergo a unique experience and develop skills to transcend traditional boundaries.

INTERNATIONAL

INNOVATIVE

CHALLENGING

INTENSIVE

MULTIDISCIPLINARY

DISRUPTIVE

MIND-BROADENING



INTERNATIONAL
TEAMWORK



IDEASQUARE
AT CERN



PROJECT
PITCHING

INNOVATION PROJECTS

When registering for the Precision Oncology summer school, participants must submit an innovation idea / project proposal in one of four areas:

- ⚡ Prevention
- ⚡ Personalised treatment
- ⚡ Early detection & extended diagnosis
- ⚡ Follow-up / Quality of life / Survivorship

Ideas should be **innovative but realistic** and as far as possible address unmet needs in cancer research or care.

The Steering Committee will select up to six of these ideas to form the basis of the innovation and entrepreneurship teamwork sessions.

Project initiators will not necessarily be the team leaders. Each team is free to organise itself and assign roles.

EXAMPLES OF INNOVATION PROJECTS FROM 2023

Nasalyzer: A device that allows to identify gastric cancer patients from patient's breath during an early screening.

Diet-cision: An AI-enabled app that extracts the most relevant information from tumor imaging and molecular data to generate a personalized diet.

BonesAI: An AI-powered consulting company that supports physicians in selecting the most suitable endoprosthesis for their patients.

FEEDBACK FROM THE PARTICIPANTS OF THE 2023 SUMMER SCHOOL



⚡ "This school taught us to manage our stress like never before, improve our team building, push our boundaries and get out of our comfort zone. It showed us that scientific research is more efficient when translated into a direct solution for the patient, in the form of a drug, a product or a service."



⚡ "School showed me how passionate I'm about making an impact and being at the forefront of healthcare research and innovation while also cultivating and allowing me to explore a new passion and curiosity for entrepreneurship which has re-shaped my professional goals."



⚡ "...but we also laughed, we learned, we explored new horizons... and made precious friends and memories that will stay with us forever."



A COLLABORATIVE PARTNERSHIP INVOLVING



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For all practical questions regarding the organisation of the school, contact: biohc@esi-archamps.eu