



In association with

ACCURAY

Endorsed by  
**ESTRO**

and

**UNITRAD**

unicancer

**Special offer**  
**450€ until 1st**  
**december**



**Artificial Intelligence  
in Radiation Oncology:**

FROM FOUNDATIONS TO CLINICAL INTEGRATION

**15th january 2026 at Genolier Innovation Hub, Switzerland**

*International in person course*

*Conducted by Dr. Arnaud Beddok, MD PhD HDR*

*Educational engineers: Sergio Rabenjason, MSc & Gaëtan Raymond, PhD*

**Main learning objective:**

to recognise the conception and the practical uses of artificial intelligence tools in radiation oncology

## Duration

7 hours

## Place

Genolier Innovation Hub  
Route du Muids 3  
1272 Genolier, Switzerland

## Deadline for registration

**20th december 2025**

[c-pinto@unicancer.fr](mailto:c-pinto@unicancer.fr)

## Price per participant

**450€ until 1st december**  
**instead of 850€**

## Limited places

## Details

### Administrative features

Céline Pinto  
[c-pinto@unicancer.fr](mailto:c-pinto@unicancer.fr)

### Scientific features

Arnaud Beddok  
[a.beddok@gmail.com](mailto:a.beddok@gmail.com)

## Target audience

Radiation oncologists, medical physicists, dosimetrists, RTTs, biomedical engineers, department heads, IT security officers, lawyers, healthcare administrators, healthcare decision-makers

## Degree required

From beginner to expert

## Requirements

None

## Assessment procedures Before the course

Placement questionnaire

## During the course

Formative & sommative assessments

## After the course

End of course questionnaire  
Satisfaction questionnaire

## Organisational features

Lunch included  
Transport and accomodation at trainees' expense

## Accessible to people with disabilities

For any specific request, please contact our disability officer

David Aubry

[d-aubry@unicancer.fr](mailto:d-aubry@unicancer.fr)

## Day 1 – Scientific Course (Plenary Sessions)

### 9:00 – 9:30 Opening Session

**Lead trainer: Dr. Arnaud Beddok MD PhD HDR** (Institut Godinot, France)

*Attending radiation oncologist and AI researcher.*

Introduction to the course and educational objectives.

### 9:30 – 11:15 Session 1 – Foundations of AI in Medicine: Concepts, Data, and Law

**Moderator: Prof. Charlotte Robert PhD**

**Experts: Prof. Stéphanie Allasonnière PhD** (Université Paris Cité, France) - in remote

*Full Professor, mathematician specialized in AI and health modeling.*

Will present core algorithmic concepts and their link with medical data.

**Dr. Arnaud Beddok MD PhD HDR** (Institut Godinot, France)

*Attending radiation oncologist and AI researcher.*

Will give an overview of current and future AI applications in radiotherapy.

**Prof. Gamze Gürsoy PhD** (Columbia University, USA)

*Faculty Member at Columbia University, expert in the use of data for the development of artificial intelligence in healthcare.*

Will address multimodal data integration, FAIR principles, and federated infrastructures.

**Prof. Moïse Serero, judge at the commercial Chamber** (Tribunal des activités économiques de Paris, France)

*Professor in commercial law and digital law, president of the digital committee for the French commercial judges*

Will explain GDPR, legal accountability and the implications of AI in clinical workflows.

### 11:15 – 11:45 Coffee Break

### 11:45 – 13:15 Session 2 – Clinical AI in Radiotherapy: From Segmentation to Dosimetric Applications

**Moderator: Dr. Eliana Vasquez-Osorio PhD**

**Experts: Prof. Thibaut Marin PhD** (Yale School of Medicine, USA)

*Assistant Professor, deep learning researcher.*

Will present technical principles and clinical uses of tumoral AI-based segmentation in radiation oncology.

**Dr. Loïc Vaugier MD PhD & Dr. Alexandra Moignier PhD** (ICO, France)

*Attending radiation oncologist and medical physicist, leading a cardiac segmentation AI project.*

Will present their clinical experience with auto-contouring tools and implementation challenges.

**Dr. Eliana Vasquez-Osorio PhD** (University of Manchester, UK)

*Senior Research Fellow, computer scientist specialized in deformable registration.*

Will discuss image registration and online adaptive workflows guided by AI.

**Kélian Poujade MSc** (IUCT-Oncopole, France)

*PhD student in Artificial Intelligence*

Will present an ESTRO-selected study on AI-based failure prediction



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## Day 1 – Scientific Course (Plenary Sessions)

**13:15 – 14:00** Lunch Break

**14:00 – 14:15** Individual Interactive quiz 15'

**14:15 – 15:15** Session 3 – Radiomics & Predictive Modelling

**Moderator:** Prof. Laurent Dercle MD PhD

**Experts:** Prof. Laurent Dercle MD PhD (MSKCC, USA)

*Associate Professor, radiologist and radiomics expert.*

Will discuss radiomic features, reproducibility, and model validation strategies.

**Prof. Laura Rozenblum MD PhD** (Sorbonne Université, France)

*Associate Professor, nuclear medicine physician and AI researcher.*

Will present use cases of early AI integration into clinical nuclear imaging.

**15:15 – 16:45** Session 4 – Ethics, Bias & Societal Impact: Designing Responsible Oncology Tools

**Moderator:** Prof. Bernice Simone Elger MD PhD

**Experts:** Prof. Bernice Simone Elger MD PhD (University of Basel, Switzerland)

*Full Professor, ethicist and physician.*

Will address ethical foundations of AI in healthcare, transparency, and physician responsibility.

**Dr. Kamyar Shahrooz EdD** (Northeastern University, USA)

*Senior Leader in Healthcare Innovation & Equitable AI Design*

Will present how bias in training data and algorithms can lead to inequitable outcomes.

**Mickaël Berrebi** (Groupe Diot-Siaci, France)

*Economist*

Will explore institutional and economic consequences of AI deployment in oncology

**16:45 – 17:15** Final Discussion – Open Questions & Future Perspectives

**Moderator:** Dr. Arnaud Beddok MD PhD HDR

Open-floor discussion with all speakers and participants

Live course evaluation (satisfaction questionnaire, knowledge review)

Review of participant expectations (through post-quiz or feedback forms)

Closure and key takeaways

*Participants will also receive a follow-up email with a post-training evaluation and knowledge assessment to complete within 7 days.*



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Artificial Intelligence  
in Radiation Oncology:

FROM FOUNDATIONS TO CLINICAL INTEGRATION

**16th january 2026 at Genolier Innovation Hub, Switzerland**

*Hands-on workshop*

*Conducted by Dr. Arnaud Beddok, MD PhD HDR*

*Endorsed by UNITRAD*

*Educational engineers: Sergio Rabenjason, MSc & Gaëtan Raymond, PhD*

**Main learning objective:**

to use AI tools in radiotherapy departments

**Duration**

3 hours and 30 minutes

**Place**

Genolier Innovation Hub  
Route du Muids 3  
1272 Genolier, Switzerland

**Deadline for registration**

**20th december 2025**

[c.pinto@unicancer.fr](mailto:c.pinto@unicancer.fr)

**Price per participant**

**200€** taxes  
included

**Limited places**

**Details**

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officers, lawyers, healthcare  
administrators, healthcare  
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**Degree required**

From beginner to expert

**Requirements**

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## Day 2 – Optional hands-on workshop

**Choose from two parallel workshops focused on practical, case-based learning:**

**9:00 – 12:30      Workshops A&B**

### Workshop A: Adaptative Radiotherapy in Practice

From daily imaging to plan re-optimisation

- Presentation and analysis of clinical cases
- Daily decision-making in imaging for adaptation
- Practical contour deformation and revision
- Guided plan adaptation and discussion

**Experts:**

**Dr Susan Lalondrelle MD PhD** (The Royal Marsden NHS Foundation Trust, United Kingdom)

**Dr Sebastian Klüter PhD** (University Hospital Heidelberg, Germany)

### Workshop B: Managing Motion

From 4D imaging to real-time adaptative workflows

- Cyberknife® system real-time tracking demonstration
- AI-based tracking algorithm principles
- Practical workflow troubleshooting

**Experts:**

**Fabien Lebeaux** (Accuray, Switzerland)