

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

**Main learning objective: to recognise the conception and the practical uses of artificial intelligence tools in radiation oncology**

*International in person course, English-spoken, conducted by Dr. Arnaud Beddok, MD PhD*

### Duration

8 hours

### Place

Genolier Innovation Hub  
Route du Muids 3  
1272 Genolier, Switzerland

### Deadline for registration

**31st december 2025**

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

### Price per participant

**850€ TTC**

### 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,  
department heads,  
healthcare administrators

### Degree required

From beginner to expert

### Requirements

None

### Assessment procedures Before the course

Placement questionnaire

### During the course

Attendance sheet

Formative & sommative  
assessments

### After the course

Satisfaction questionnaire

End of course certificate

### Organisational features

Lunch included

Transport and accommodation  
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

**Speaker: Dr. Arnaud Beddok** (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. Noémie Elhadad PhD**

**Speakers: 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** (Institut Godinot, France)

*Attending radiation oncologist and AI researcher.*

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

**Prof. Noémie Elhadad PhD** (Columbia University, USA)

*Associate Professor of Biomedical Informatics, expert in clinical big data and federated learning.*

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

**Judge Moïse Serero** (Tribunal des activités économiques de Paris, France)

*Lawyer and specialist in digital health law.*

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 PhD**

**Speakers: 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. Loïg 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 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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**13:15 – 14:15** Lunch Break

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

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

**Speakers: 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**

**Speakers: 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)**

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**

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.*