

# Conference on New Tools in Oncology

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**Thursday 1, Friday 2,  
Monday 5, Tuesday 6  
December 2022**



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Clínica Alemana

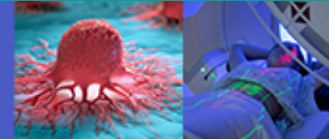
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**6 AÑOS**  
Unidad de  
Accreditación  
EXCELENCIA

**Universidad del Desarrollo**  
ACREDITADA EN TODAS LAS ÁREAS  
**NIVEL DE EXCELENCIA**  
Diciembre 2021 - Diciembre 2027  
Gestión Institucional - Docencia de Pregrado  
Vinculación con el Medio - Investigación - Docencia de Postgrado

## Conference on New Tools in Oncology



### OBJECTIVE

- To introduce the latest trends in radiotherapy, imaging, and immunology.
- To share knowledge and therapeutic strategies.
- To strengthen the ties between the German Cancer Research Center (DKFZ) and Clínica Alemana de Santiago (CAS).

### ADDRESSED TO

Radiation oncologists, hemato-oncologists, medical oncologists, medical specialties related to oncology, researchers in areas of oncology, undergraduate and graduate students, as well as basic science researchers.

### CO-ORGANIZERS

German Cancer Research Center (DKFZ)  
Heidelberg University Hospital (UKHD)  
Oncology Department  
Department of Academic Development and Research  
Clínica Alemana de Santiago

### SPONSORED BY



### INVITATION BY



Bundesministerium  
für Bildung  
und Forschung



Chilean-German Consortium  
for Medical Physics  
in Radiation Oncology



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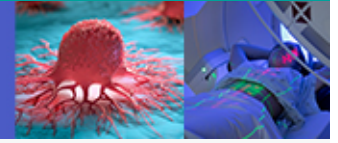
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Modality



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## Conference on New Tools in Oncology



### DIRECTOR

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**Dr. Andrés Córdova**  
Radiation Oncologist  
Oncology Department  
[Clínica Alemana Santiago](#)

### ACADEMIC COORDINATORS

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**Dr. Daniel Ernst**  
Hematologist, lymphoma specialist  
Oncology Department  
[Clínica Alemana Santiago](#)



**Dr. Guillermo Chong**  
Radiologist and Nuclear Medicine  
Imaging Department  
[Clínica Alemana Santiago](#)



**Dra. Mirentxu Iruretagoyena**  
Head of Immunology and Transplantation Unit.  
Laboratory, Blood Bank and Anatomic Pathology Department.  
[Clínica Alemana Santiago](#)



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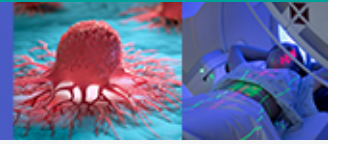
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## Conference on New Tools in Oncology



### NATIONAL SPEAKERS

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**Dr. Andrés Córdova**

Radiation Oncologist  
Oncology Department  
[Clínica Alemana Santiago](#)

**Dr. Daniel Ernst**

Hematologist, lymphoma specialist  
Oncology Department  
[Clínica Alemana Santiago](#)

**Dr. Guillermo Chong**

Radiologist and Nuclear Medicine  
Imaging Department  
[Clínica Alemana Santiago](#)

**Dra. Mirentxu Iruretagoyena**

Head of Immunology and Transplantation Unit.  
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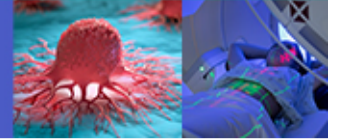
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## Conference on New Tools in Oncology



### INTERNATIONAL SPEAKERS

#### **Martin Kreller, PhD**

Head of Cyclotron  
Helmholtz-Zentrum Dresden-Rossendorf  
Department of Radiopharmaceutical Production  
Institute of Radiopharmaceutical  
Cancer Research  
[Dresden, Alemania](#)

#### **Prof. Jean Bourhis, MD, PhD**

Head of Laboratory  
Department of Oncology  
UNIL CHUV, Laboratory J. Bourhis  
University of Lausanne  
[Lausanne, Suiza](#)

#### **Lukas Bunse, MD, PhD**

Physician Scientist  
German Cancer Research Center  
Clinical Cooperation Unit  
Neuroimmunology and Brain Tumor  
Immunology  
[Heidelberg, Alemania](#)

#### **Prof. Eric Deutsch, MD, PhD**

Head of Division  
Department of Radiotherapy  
Gustave Roussy  
[Paris, Francia](#)

#### **Stefan Dorsch, PhD**

Postdoctoral Researcher  
German Cancer Research Center,  
Division of Medical Physics in  
Radiation Oncology  
[Heidelberg, Alemania](#)

#### **Prof. Stefan Eichmüller, PhD**

Head of Division  
German Cancer Research Center,  
Research Group GMP &  
T Cell Therapy  
[Heidelberg, Alemania](#)

#### **Kristina Giske, PhD**

Research Group Leader  
German Cancer Research Center,  
Division of Medical Physics in  
Radiation Oncology  
[Heidelberg, Alemania](#)

#### **Semi Harrabi, MD**

Senior Physician  
Department of Radiation Oncology  
University Hospital Heidelberg  
[Heidelberg, Alemania](#)

#### **Carsten Herskind, PD, PhD**

Head of Division  
Lab head Cellular and Molecular  
Radiation Oncology Laboratory  
Universitätsmedizin Mannheim,  
[Mannheim, Alemania](#)

#### **Prof. Oliver Jäkel, PhD**

Head of Division  
German Cancer Research Center,  
Division of Medical Physics in Radiation  
Oncology  
[Heidelberg, Alemania](#)

#### **Jeannette Jansen, PhD**

Postdoctoral Researcher  
German Cancer Research Center,  
Division of Biomedical Physics  
in Radiation Oncology  
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#### **Prof. Christian Karger, PhD**

Research Group Leader  
German Cancer Research Center,  
Division of Medical Physics in  
Radiation Oncology  
[Heidelberg, Alemania](#)

#### **Ina Kurth, PhD**

Head of Laboratory  
Division of Radiooncology / Radiobiology  
German Cancer Research Center  
[Heidelberg, Alemania](#)

#### **Annett Linge, PD, MD**

Clinical Scientist  
OncoRay  
[Dresden, Alemania](#)

#### **Kristin Lang, MD**

Senior Physician  
Department of Radiation Oncology  
University Hospital Heidelberg  
[Heidelberg, Alemania](#)

#### **Eva Meixner, MD**

Radiation Oncologist  
Department of Radiation Oncology  
University Hospital Heidelberg  
[Heidelberg, Alemania](#)

#### **Sebastian Regnery, MD**

Assistant Physician  
Department of Radiation Oncology  
University Hospital Heidelberg  
[Heidelberg, Alemania](#)

#### **Prof. Heinz Schlemmer, MD, Dipl.-Phys**

Head of Division  
Division of Radiology  
German Cancer Research Center  
[Heidelberg, Alemania](#)

#### **Luisa Schubert, MD**

Assistant Physician  
University Hospital Heidelberg,  
Clinic for Haematology, Oncology and  
Rheumatology  
[Heidelberg, Alemania](#)

#### **Prof. Joao Seco, PhD**

Head of Division  
Division of Biomedical Physics in  
Radiation Oncology  
German Cancer Research Center  
[Heidelberg, Alemania](#)

#### **Catherine Vozenin, PhD**

Associate Professor  
Research group: Radiation Oncology  
Lausanne University Hospital  
CHUV and University of Lausanne  
[Lausanne, Suiza](#)

#### **Niklas Wahl, PhD**

Research Group Leader  
Division of Medical Physics in Radiation  
Oncology  
German Cancer Research Center  
[Heidelberg, Alemania](#)

#### **Daniela Thorwarth, MD**

Professor of Biomedical Physics,  
Department of Radiation Oncology,  
University of Tübingen  
[Tübingen, Alemania](#)



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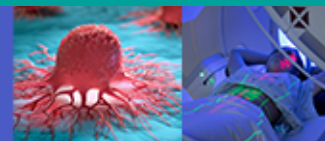


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
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## Conference on New Tools in Oncology



### PROGRAM

 Zoom Webinar Platform  
Auditorium at Clínica Alemana La Dehesa  
Av. José Alcalde Délano #12205  
La Dehesa, Lo Barnechea

ONLINE

DAY 1: THURSDAY DECEMBER 1ST, 2022

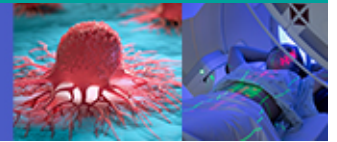
RADIOTHERAPY: STATUS QUO, PERSPECTIVES & OPEN QUESTIONS

#### GMT-3 CHILE


- 13:30 - 13:40 Welcome words and introduction (online)  
**Andrés Córdova (CAS)**
- 13:40 - 14:00 Overview IGRT technologies and devices based on X-Rays (online)  
**Oliver Jäkel (DKFZ)**
- 14:00 - 14:20 Image registration & segmentation for adaptive RT (online)  
**Kristina Giske (DKFZ)**
- 14:20 - 14:40 Overview IGRT technologies and devices without X-Rays (online)  
**Oliver Jäkel (DKFZ)**
- 14:40 - 15:15 Pro & Contra of IGRT - What's the patients benefit from IGRT & adaptive concepts? (recording, online)  
**Eva Meixner (UKHD)**
- 15:15 - 15:30 Discussion (online)  
**Moderator: Andrés Córdova (CAS)**
- 15:30 - 15:50 Break
- 15:50 - 16:10 Scientific and clinical advantages of online adaptive RT using MRI Linacs (online)  
**Oliver Jäkel (DKFZ)**
- 16:10 - 16:30 Improving treatment approaches in rectal cancer - total neoadjuvant therapy versus standard treatment in RO (online)  
**Kristin Lang (UKHD)**
- 
- 16:30 - 16:50 Modern management of esophageal cancer: radio-oncology options in neoadjuvancy, adjuvancy and palliation (online)  
**Kristin Lang (UKHD)**
- 16:50 - 17:10 Adaptive RT Status Quo (online)  
**Sebastian Regnery (UKHD)**
- 17:10 - 17:30 Open Questions for IGRT & Adaptive RT (online)  
**Sebastian Regnery (UKHD)**
- 17:30 - 17:45 Questions and answers  
**Moderator: Oliver Jäkel (DKFZ)**



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**HYBRID MODALITY**

**DAY 2: FRIDAY, DECEMBER 2ND, 2022**

**IMAGING FOR RT - STATUS QUO, PERSPECTIVES & OPEN QUESTIONS**

#### GMT-3 CHILE

- 08:30 - 09:00 Accreditation
- 09:00 - 09:10 Welcome words and introduction  
**Guillermo Chong (CAS)**
- 09:10 - 09:30 Functional MR Imaging for RT (online)  
**Heinz Schlemmer (DKFZ)**
- 09:30 - 09:50 MR Imaging in adaptive Radiotherapy - Challenges  
**Stefan Dorsch (DKFZ)**
- 09:50 - 10:10 Imaging for IGRT & Adaptive RT - What do we really need?  
**Oliver Jäkel (DKFZ)**
- 10:10 - 10:30 Future directions: Developments on AI applications for Imaging in RT (online)  
**Heinz Schlemmer (DKFZ)**
- 10:30 - 10:40 Questions and answers
- 10:40 - 11:00 Coffee break
- 11:00 - 11:20 PET/CT and PET/MRI for radiotherapy treatment planning (online)  
**Daniela Thorwarth (Tübingen University)**
- 11:20 - 11:40 Radionuclides for diagnostic and therapy  
**Martin Kreller (HZ Dresden Rossendorf)**

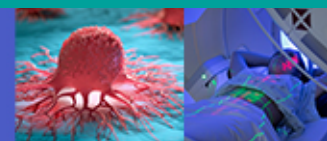
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- 11:40 - 12:00 Dose painting (online)  
**Daniela Thorwarth (Tübingen University)**
  - 12:00 - 12:20 PET for RT - Clinical experience from Heidelberg  
**Semi Ben Harrabi (UKHD)**
  - 12:20 - 12:50 Discussion: Where will the IGRT & ART go?  
**Moderator: Guillermo Chong (CAS)**

#### PROTON THERAPY - IS THERE A NEED FOR LATIN AMERICA?


- 13:40 - 13:45 Welcome words and introduction  
**Andrés Córdova (CAS)**
- 13:45 - 14:15 Overview on Proton Therapy -Physics & technological aspects  
**Oliver Jäkel (DKFZ)**
- 14:15 - 14:45 Radiobiology for Proton Therapy (online)  
**Christian Karger (DKFZ)**
- 14:45 - 15:15 Status on Proton Therapy  
**Semi Ben Harrabi (UKHD)**
- 15:15 - 15:45 Prescription Ethics  
**Karen Goset (CAS)**
- 15:45 - 16:05 Coffee break
- 16:05 - 16:35 Case presentations Proton Therapy Pediatric tumors  
**Semi Ben Harrabi (UKHD)**
- 16:35 - 16:55 What patients in LA could benefit from Proton Therapy?  
**Semi Ben Harrabi & Andrés Córdova**
- 16:55 - 17:25 Discussion: Is there a need for LA (cost effectiveness versus benefit)?  
**Andrés Córdova (CAS) Closing**



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### DAY 3: MONDAY, DECEMBER 5TH, 2022 RADIOBIOLOGY - SCIENTIFIC WORKSHOP

#### GMT-3 CHILE

- 08:15 - 08:35 Accreditation
- 08:35 - 08:45 Welcome words and introduction  
**Mirenxu Iruretagoyena (CAS)**
- 08:45 - 09:15 Radiobiological models in radiotherapy (online)  
**Christian Karger (DKFZ)**
- 09:15 - 09:45 Radiobiological models in proton therapy (online)  
**Christian Karger (DKFZ)**
- 09:45 - 10:15 New biological concepts for radiobiology  
**Ina Kurth (DKFZ)**
- 10:15 - 10:45 Coffee break
- 10:45 - 11:15 Normal tissue reactions - prediction and mechanisms (online)  
**Carsten Herskind (University Hospital of Mannheim)**
- 11:15 - 11:45 Effect on low dose irradiation  
**Eric Deutsch (Institute Gustave Roussy París)**
- 11:45 - 12:15 Inverse treatment planning with radiobiological models  
**Niklas Wahl (DKFZ)**

- 12:15 - 12:45 Biology driven studies (online)  
**Annett Linge (OncoRay Dresden)**
- 12:45 - 13:15 Ongoing Research & Outlook  
**Eric Deutsch (Institute Gustave Roussy Paris)**
- 13:15 - 13:25 Discussion

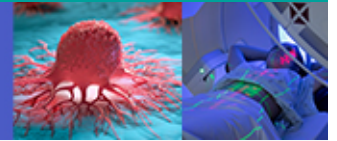
#### CAR-T CELLS - SCIENTIFIC OVERVIEW

- 14:10 - 14:20 Welcome words and introduction  
**Daniel Ernst (CAS)**
- 14:20 - 15:05 CAR-T cells: State of the art and challenges  
**Stefan Eichmüller (DKFZ)**
- 15:05 - 15:10 Questions and answers
- 15:10 - 15:30 Coffee break
- 15:30 - 16:00 Clinical implementation of CAR-T cell therapy (online)  
**Luisa Schubert (UKHD)**
- 16:00 - 16:30 Manufacturing GMP compatible CAR-T Cells  
**Stefan Eichmüller (DKFZ)**
- 16:30 - 17:00 Car-T cells for solid brain tumors (online)  
**Lucas Bunse (DKFZ)**
- 17:00 - 17:10 Questions and answers, Discussion  
**Moderator: Daniel Ernst (CAS)**






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#### DAY 4: TUESDAY, DECEMBER 6TH 2022 FLASH & MICRO BEAMS: OVERVIEW

##### GMT-3 CHILE

- 08:30 - 09:00 Accreditation
- 09:00 - 09:10 Welcome words and introduction  
[Andrés Córdova \(CAS\)](#)
- 09:10 - 09:40 Introduction to Flash (online)  
[Joao Seco \(DKFZ\)](#)
- 09:40 - 10:10 Flash models and recent developments  
[Jeannette Jansen \(DKFZ\)](#)
- 10:10 - 10:30 Coffee break
- 10:30 - 10:50 Evidence on Flash radiotherapy and potential for clinical application (online)  
[Joao Seco \(DKFZ\)](#)
- 10:50 - 11:05 Treatment planning for Flash  
[Jeannette Jansen \(DKFZ\)](#)
- 11:05 - 11:20 Flash: Pre-Clinical studies (online)  
[Marie-Catherine Vozenin \(University of Lausanne\)](#)
- 11:20 - 11:35 Flash: Clinical studies (online)  
[Jean Bourhis \(University of Lausanne\)](#)
- 
- 11:35 - 11:50 Is FLASH ready for clinical application?  
[Oliver Jäkel \(DKFZ\)](#)
- 11:50 - 12:20 Flash Pro & Contra:  
Joao Seco (online) vs. Oliver Jäkel  
Moderator: [Jeannette Jansen \(DKFZ\)](#)
- 12:20 - 12:30 Discussion & Closing  
[Andrés Córdova \(CAS\)](#)



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La Dehesa, Lo Barnechea

## FEES

**CLP \$40.000**  
Free of charge:  
CAS Staff, HPH and students

## CONTACT

Karina Cerda  
[karina.cerda@udd.cl](mailto:karina.cerda@udd.cl)

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