

EuSARC 2019



The Biology of Sarcoma
From Basic Mechanisms
to Innovative Therapies



30 MAY - 1 JUNE

ZENTRUM FÜR UMWELT UND KULTUR
(ZUK)
BENEDIKTBEUERN
GERMANY

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Welcome to Benediktbeuern!

The next two days will be full of science, knowledge exchange, and human interaction, with the purpose to shape a network of scientists and clinicians that strongly wish to further improve outcome for patients affected with sarcomas. Sarcomas differ in many ways from other, more common, types of cancer. They are relatively rare, their histogenesis is often unclear, and many of them show an aggressive clinical course.

Despite great advances in the treatment of localized disease have been achieved in past decades, outcome for patients with metastatic or relapsed disease still remains unacceptably low.

We believe that further advancements and in particular the development of less toxic and targeted therapies should be based on a thorough understanding of the underlying biology of sarcoma. In accordance, the EuSARC 2019 conference is dedicated to the topic 'From basic mechanisms to innovative therapies' and shall provide a forum to help bridging the gap between molecular discoveries and clinical translation. To improve the outcome of sarcoma patients, a joint effort of many disciplines is required, and I hope that the EuSARC 2019 conference will contribute to this aim.

Thomas Grünewald,
EuSARC 2019
Chair

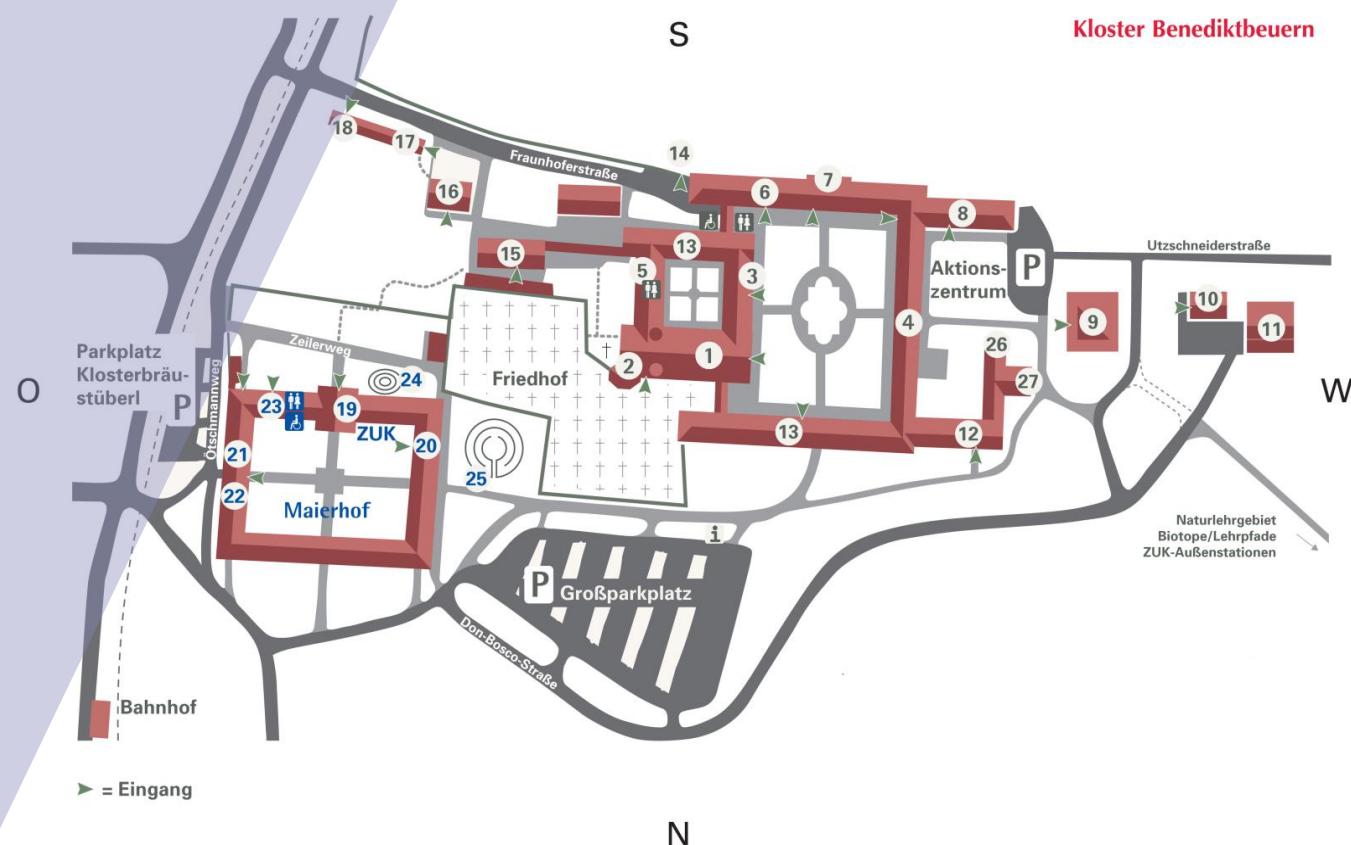
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MAP

LAGEPLAN KLOSTER BENEDIKTBEUERN

1. Basilika St. Benedikt (Pfarrikirche)
 2. Anastasiakapelle
 3. Klosterpforte
 - Information
 - Führungen
 - Klosterladen
 - Kreuzgang
 - Kloster-Café
 - Barocksaal (2 Stock)
 4. Westbau I: Bildungsräume, Jugendwohnen, Gästezimmer
 5. Institut für Salesianische Spiritualität (ISS)
 6. Jugendpastoralinstitut Don Bosco (JPI)
 7. Hauskapelle, Saletti
 8. Jugendbildungsstätte Aktionszentrum (AZ)
 9. Westbau II (KSH) Bibliothek
 - Übungsräume
 - Mensaria
 - Bibliothek
 10. Energiezentrale
 11. Energiepavillon (ZUK)
 12. Jugendherberge Don Bosco
 13. Kath. Stiftungshochschule (KSH)
 14. Klostergärtnerei
 15. Gästebereich des Klosters (Rezeption)
 16. Kloster-Gästehaus Meichelbeck und
 17. Kloster-Gästehaus Fraunhofer
 18. Fraunhofer-Museum
- Maierhof**
19. Zentrum für Umwelt und Kultur (ZUK)
 - Rezeption
 - Erwachsenenbildung/Akademia
 - Gäste - und Tagungsbereich ZUK
 - Allianzsaal
 - Akademie Benediktbeuern
 20. Umweltjugendbildungsstätte (ZUK)
 21. Fachberatung heimatpflege (Bez. Obb)
 22. Trachten Informationszentrum (Bez. Obb)
 23. Klosterbräustüberl
 24. Kräutergarten, Kräutelerlebnisladen
 25. Meditationsgarten
 26. Don Bosco Club
 27. Fraunhofer-Zentrum für energetische Alltbausanierung und Denkmalpflege



GENERAL INFORMATION

ROOM RECEPTION

Zentrum für Umwelt und Kultur – ZUK
 Zeilerweg 2
 83671 Benediktbeuern
 Germany

Tel.: + 49 (0) 8857/ 88-707
 or +49 151 52105409 (Thursday)

The room reception is open on 30 th of May from 2 pm to 6 pm.
 (ph. +49 151 52105409)

CONFERENCE ROOM

“ August von-Finck-Saal” at ZUK

SOCIAL DINNER
 will be held at a typical restaurant in Benediktbeuern: “Klosterbräustüberl”
<https://www.klosterwirt.de/index.php/getr%c3%a4nke.html>

HOW TO REACH ZUK:

If you are traveling with public transportation you can take a train from Munich city or airport: <https://www.bahn.de/it/view/index.shtml>
 This is the train line: Munich Tutzing Kochel (regional train / hourly service)
 Benediktbeuern station is about 100 meters walking distance from the ZUK

If you are travelling by car:
 Motorway Munich - Garmisch-Parthenkirchen (A95),
 Exit Sindelsdorf direction Bichl on the B 472 turnoff Benediktbeuern monastery
 Route planner: <http://www.viamichelin.de/web/Routenplaner>

Parking: Large parking available at “Salesian Don Bosco”

ORGANIZING SECRETARIAT

Centro Residenziale Universitario
 di Bertinoro Ce.U.B.
 Via Frangipane 6 - 47032 Bertinoro (FC)
 +39 0543 446555
mmichelacci@ceub.it

VENUE

Zentrum für Umwelt und Kultur – ZUK
Zeilerweg 2
83671 Benediktbeuern
Germany
Tel.: + 49 (0) 8857/ 88-707
or +49 151 52105409 (Thursday)

REGISTRATION

Registration, including coffee-breaks,
lunches and welcome cocktail: 160 €.

TRANSFER

There is a local train going every hour from
the Munich main train station (München
HBF) to Benediktbeuern.

This train (red in color) usually leaves from
platform 27-31 and consists of three parts
each of which goes in the middle of the trip
to a distinct final destination.

You can check the train times using the DB
website:
<http://www.bahn.de/p/view/index.shtml>

ACCOMMODATION

Board and lodging will be available to
all attendees at ZUK of Benediktbeuern
or in a hotel in the nearby.

Single room, shared shower/WC:

€ 39,00

Double use single, with own shower/WC:

€ 57,00

Double room, with own shower/WC:

€ 46,00 per person

Double room, shared shower/WC:

€ 36,00 per person

SOCIAL PROGRAM

Coffee breaks and lunches are included
in the registration fee.

A welcome cocktail will be offered to all
registered attendees on May 30 at 19.30.

Social dinner: on May 31 at typical re-
staurant next to ZUK, € 28,00

SPEAKERS

Marta M. Alonso
University of Navarra, Pamplona, Spain
"Oncolytic immunoviruses for the treatment of pediatric osteosarcoma"

Nicola Baldini
Istituto Ortopedico Rizzoli, Italy
University of Bologna, Bologna, Italy
"Photodynamic therapies of sarcomas"

Ana Banito
German Cancer Research Center in Heidelberg (DKFZ), Germany
"Genetic and epigenetic mechanisms of sarcoma development"

Javier Garcia-Castro
Instituto de Salud Carlos III, Madrid
"The beginning and the end of osteosarcomas"

Christian Koelsche
University of Heidelberg, Germany
"DNA methylation-based classifier for accurate molecular diagnosis of sarcomas"

Benjamin Ory
University of Nantes, France
"Implication of super-enhancers in osteosarcoma development"

Eleni Tomazou
St. Anna Kinderkrebsforschung e.V. Children's Cancer Research institute, Austria
"Epigenetic heterogeneity and tumor evolution in Ewing sarcoma"

SCIENTIFIC COMMITTEE

Thomas Grünewald (Chair)
Institute of Pathology, LMU Munich (Germany)

Nicola Baldini (Co-Chair)
University of Bologna, Istituto Ortopedico Rizzoli (Bologna, Italy)

Dominique Heymann
Institut de Cancérologie de l'Ouest (Univ. Nantes, France)

Sofia Avnet
Istituto Ortopedico Rizzoli (Bologna, Italy)

SCIENTIFIC SECRETARIAT

Francesca Schirru
University of Bologna and Istituto Ortopedico Rizzoli
secretariat@eusarc.com

EuSARC 2019

The Biology of Sarcoma

AIMS

- **INCREASE KNOWLEDGE** - To provide a forum to increase knowledge in sarcoma biology and pathophysiology in order to offer a more effective patient care.
- **FILL THE GAP** - To fill the gap between biological and clinical research.
- **NETWORK** - To establish and consolidate a network of scientists who are keen to collaborate in the field of sarcoma.
- **PROMOTE ACTIONS** - To promote actions to encourage and support in-training scientists in sarcoma research.
- **RAISE PUBLIC AWARENESS** - To raise public awareness on the clinical relevance of sarcomas and the importance of promoting sarcoma research.

SCIENTIFIC PROGRAM

THURSDAY, 30 MAY

- 18.00–18.15 **Opening & Organizational aspects**
(Heymann, Baldini, Grünewald)
- 18.15–19.30 Keynote lecture
Javier Garcia Castro, *Instituto de Salud Carlos III, Madrid, Spain*
“The beginning and the end of osteosarcomas”
- 19.30–20.30 Welcome cocktail & buffet

FRIDAY, 31 MAY

SESSION 1
BASIC MECHANISMS I
(Chair: Thomas Grünewald, Co-chair: Marcel Trautmann)
8.10 – 10.00

- 8.10–8.40 Invited lecture
Ana Banito, *German Cancer Research Center (DKFZ), Germany*
“Genetic and epigenetic mechanisms of sarcoma development”
- 8.40–9.00 Talk 1
Marcel Trautmann, *Gerhard-Domagk-Institute, Münster, Germany*
“Aberrant YAP1 signaling in myxoid liposarcoma”
- 9.00–9.20 Talk 2
Agamemnon Grigoriadis, *King’s College London, UK*
“FGFR and mTOR signaling cooperate in osteosarcoma pathogenesis and metastasis”
- 9.20–9.40 Talk 3
Kristina Schiavone, *University of Sheffield, UK*
“Contribution of interleukin-34 in inflammation and osteosarcoma”
- 9.40–10.00 Talk 4
Thomas Grünewald, *Institute of Pathology, LMU Munich, Germany*
“Oncogenic hijacking of a developmental transcription factor evokes therapeutic vulnerability for ROS-induction in Ewing sarcoma”
- 10.00–10.20 Coffee Break

FRIDAY, 31 MAY

SESSION 2

BASIC MECHANISMS II

(Chair: Sofia Avnet, Co-chair: Florencia Cidre-Aranaz)

10.20 – 12.10

- 10.20–10.50

Invited lecture

Benjamin Ory, University of Nantes, France

“Implication of super-enhancers in osteosarcoma development”
- 10.50–11.10

Talk 1

Julia Visgauss, Duke University Medical Center, Durham, NC, USA

“Molecular drivers of metastasis in chondrosarcoma: alterations in NFkappaB offer a potential therapeutic target”
- 11.10–11.30

Talk 2

Sofia Avnet, Istituto Ortopedico Rizzoli - University of Bologna, Italy

“Acid-induced sphingolipid-dependent metabolism is a major cause of resistance to apoptosis and increased aggressiveness in osteosarcoma”
- 11.30–11.50

Talk 3

Gemma Di Pompo, Istituto Ortopedico Rizzoli - University of Bologna, Italy

“The role of innervation in osteosarcoma”
- 11.50–12.10

Talk 4

Raimo Tanzi, Menarini Silicon Biosystems, Castel Maggiore, Italy

“DEPArray™ digital cell sorting to improve genetic analysis of rare tumor cells”
- 12.15–13.30

Lunch

SESSION 3

SARCOMA HETEROGENEITY & INNOVATIVE BIOMARKERS

(Chair: Agamemnon Grigoriadis, Co-chair: Julia Visgauss)

13.40 – 15.40

- 13.40–14.10

Invited lecture

Eleni Tomazou, Children's Cancer Research institute, Vienna, Austria

“Epigenetic heterogeneity and tumor evolution in Ewing sarcoma”
- 14.10–14.30

Talk 1

Laura González-González, Instituto de Salud Carlos III, Madrid, Spain

“Matrix Gla-Protein (MGP) downregulation is associated to poor prognosis in Ewing sarcoma”
- 14.30–14.50

Talk 2

Julian Musa, Institute of Pathology, LMU Munich, Germany

“Cooperation of cancer drivers with regulatory germline variants shapes clinical outcomes”
- 14.50–15.10

Talk 3

Francesca Perut, Istituto Ortopedico Rizzoli - University of Bologna, Italy

“Emerging roles of extracellular vesicles in osteosarcoma”
- 15.10–15.30

Talk 4

Manuela Krumbholz, University Hospital Erlangen, Germany

“Genomic EWSR1 fusion sequences represent liquid biopsy marker in Ewing sarcoma”
- 15.30–15.40

Sponsor presentation, Bertin Technologies

FRIDAY, 31 MAY

SESSION 4

INNOVATIVE THERAPIES I

(Chair: Nicola Baldini, Co-chair: Maria Vela)

17.00 – 18.50

- 15.40–16.50 Coffee break & Poster session
Sponsor microscope demo
- 16.50–17.00 Group photo
- ▣ 17.00–17.30 Invited lecture
Christian Koelsche, *University of Heidelberg, Germany*
“DNA methylation-based classifier for accurate molecular diagnosis of sarcomas”
- 17.30–17.50 Talk 1
Miguel Pereira-Silva, *University of Coimbra, Portugal*
“Nanomedicine in osteosarcoma therapy: micelleplexes and nanocomposites for co-delivery of nucleic acids and drugs for osteosarcoma targeting”
- 17.50–18.10 Talk 2
Maria Vela, *Hospital La Paz Institute for Health Research (IdiPAZ), Madrid, Spain*
“Memory T cells expressing an NKG2D-CAR efficiently target osteosarcoma cells”
- 18.10–18.30 Talk 3
Maria Vela, *Hospital La Paz Institute for Health Research (IdiPAZ), Madrid, Spain*
“Combined immunotherapy treatment to prevent sarcoma metastasis”
- 18.30–18.50 Talk 4
René Rodriguez, *Instituto de Investigación Sanitaria del Principado de Asturias, Oviedo, Spain*
“Unraveling the role of SOX2 in sarcoma genesis”
- 20.00–23.00 Social dinner “Klosterwirt”

FRIDAY, 31 MAY

POSTER SESSION

15.40 – 16.50

- P1. Merve Kasan, *Institute of Pathology, LMU Munich, Germany*
“Analysis of (epi)genetic, transcriptional, and phenotypic evolution of pediatric translocation-positive sarcoma cell lines”
- P2. Claudia Madrigal-Esquivel, *University of Sheffield, UK*
“VEGFA isoform switching in soft tissue sarcoma is associated with decreased survival”
- P3. Nada AL Shaaili, *University of Sheffield, UK*
“Characterisation of mesenchymal gene expression in undifferentiated pleomorphic sarcoma”
- P4. Luigi Falzetti, *Istituto Ortopedico Rizzoli - University of Bologna, Italy*
“Early recognition of bone mineral density reduction in young patients with bone sarcomas using chest computed tomography scans”
- P5. Martin Distel, *Children's Cancer Research institute, Vienna, Austria*
“A cross-species enhancer activity analysis approach to identify the Ewing sarcoma cell-of-origin”
- P6. Silvia Lemma, *Istituto Ortopedico Rizzoli - University of Bologna, Italy*
“Mesenchymal stromal cells promote pulmonary metastasis of osteosarcoma in response to tumor acidosis”
- P7. Florencia Cidre-Aranaz, *Institute of Pathology, LMU Munich, Germany*
“Harnessing systems biology to identify therapeutic vulnerabilities in Ewing sarcoma”
- P8. Snehadri Sinha, *Department of Oral and Maxillofacial Diseases, University of Helsinki, Finland*
“Epigenetic alterations in mesenchymal stem cells by osteosarcoma-derived extracellular vesicles”

SATURDAY, 1 JUNE

SESSION 5 INNOVATIVE THERAPIES II

(Chair: Dominique Heymann, Co-chair:Álvaro Morales-Molina)

8.10 – 10.20

- 8.10–8.40

Invited lecture
Marta M. Alonso, *University of Navarra, Pamplona, Spain*
"Oncolytic immunoviruses for the treatment of pediatric osteosarcoma"
- 8.40–9.00

Talk 1
Stefan Burdach, *Technical University of Munich (TUM), Germany*
"Targeting metastasis in Ewing sarcoma with T cell receptor based immunotherapy"
- 9.00–9.20

Talk 2
Shabnam Shaabani, *University of Groningen, The Netherlands*
"The PD1-PDL1 pathway and possible interventions beyond antibodies"
- 9.20–9.40

Talk 3
Shunya Ohmura, *Institute of Pathology, LMU Munich, Germany*
"Overcoming chemo-resistance by targeting RRM2 in Ewing sarcoma"
- 9.40–10.00

Talk 4
Álvaro Morales-Molina, *Instituto de Salud Carlos III, Madrid, Spain*
"Comparative antitumor effect of oncolytic immunotherapy in osteosarcoma, renal cancer and melanoma"
- 10.00–10.20

Coffee break

SESSION 6 INNOVATIVE THERAPIES III

(Chair: Fernando Lecanda, Co-chair:Heathcliff Dorado-García)

10.20 – 12.15

- 10.20–10.50

Invited lecture
Nicola Baldini, *Istituto Ortopedico Rizzoli - University of Bologna, Italy*
"Photodynamic therapies of sarcomas"
- 10.50–11.10

Talk 1
Sebastian Schober, *Technical University of Munich (TUM), Germany*
"YB-1-based oncolytic virotherapy in combination with CDK4/6 inhibitors against Ewing sarcoma"
- 11.10–11.30

Talk 2
Heathcliff Dorado-García, *Charité University Berlin, Germany*
"Synthetic lethal targeting of ATR in PAX3-FOXO1-driven rhabdomyosarcoma"
- 11.30–11.50

Talk 3
Carolin Seeling, *Institute of Pathology, University of Ulm, Germany*
"Targeting HOX-PBX causes cell death in recurrent sacral chordomas in vitro"
- 11.50–12.10

Talk 4
Yvonne Versleijen-Jonkers, *Radboudumc, Nijmegen, The Netherlands*
"Combination treatment directed against focal adhesion kinase (FAK) and SRC in desmoplastic small round cell tumors and rhabdomyosarcomas"
- 12.10–12.15

Farewell notes & Outlook to EuSARC_2020
- 12.15–13.30

Lunch & Departure



Organizing Secretariat Ce.U.B
Via Frangipane 6 - 47032
Bertinoro (FC)