

Dear colleagues,

The reprogramming of T cells for tissue-specific therapies and the development of environment-smart immune cell therapies against cancer and autoimmune disorders is one of the most promising concepts for the development of new treatment strategies in these diseases.

During this RCI-conference, we will present and discuss novel synthetic biology approaches and bring together leading experts from around the world to discuss and advance the field of synthetic immune cell therapy.

The meeting covers the functional re-programming of immune cells to shape their function in tissues in health and disease, the curative potential of gene-modified immune cells and new synthetic approaches to equip immune cells with extended functional capacities.

We are looking forward to welcoming you for two exciting days in the beautiful city of Regensburg!

On behalf of the board of directors

Philipp Beckhove
(Director RCI)

Wednesday, July 17th, 2019

Thon-Dittmer-Palais, Haidplatz 8, 93047 Regensburg

09:00 am **Welcome address**
Philipp Beckhove

09:00 am - 01:00 pm Morning session:
Gene immunotherapy: clinical experience

Chair: Hermann Einsele

09:00 am **Keynote lecture:**
Next Generation CAR T Cells
Carl June

Chair: Katharina Fleischhauer, Michael Schmitt

10:00 am **TCR-T Immunotherapy: Building a Toolbox to Enhance Safety and Improve Efficacy**
Dolores Schendel

10:30 am **From CAR expressing T cells to CAR NK cells for cancer retargeting**
Ulrike Köhl

11:00 am **T cells gene-engineered with MAGE-C2 TCR to treat melanoma and head-and-neck carcinoma**
Reno Debets

11:15 am **Coffee break**

Chair: Andreas Mackensen, Wolfgang Herr

11:35 am **Engineering Specificity and Function of T cells**
Hans Stauss

12:05 pm **The next wave of CAR T cells for cancer**
Marcela Maus

12:35 pm **Synthetic Targeting and Logic-Gated Orthogonal Outputs in the Context of CAR T Cell Immunotherapy of Cancer**
Michael Jensen

01:05 pm **Targeting Metastasis in a Cold Tumor with T Cell Receptor Based Immunotherapy**
Stefan Burdach

01:20 pm **Lunch & poster session**

02:30 pm - 04:30 pm Afternoon session:
Cell therapy: new concepts

Chair: Matthias Theobald, Markus Feuerer

02:30 pm **Harnessing the miRNA-epigenetic regulatory circuitry to enhance CD8+ T cell antitumor immunity**
Luca Gattinoni

03:00 pm **CARs, TRUCKs and beyond: the next generation of redirected T cells**
Hinrich Abken

03:30 pm **Engineering regulatory T cell specificity in autoimmunity and transplantation**
Megan Levings

04:00 pm **Regulatory T cells in allogeneic SCT**
Matthias Edinger

04:30 pm **Identification of a neoantigen targeted by tumor-infiltrating lymphocytes in a patient with Her2+ breast cancer**
Hannah Reimann

04:45 pm **Coffee break**

05:00 pm - 06:00 pm Evening session:
Synthetic biology approaches

Chair: Dirk Busch

05:00 pm **Keynote lecture: Rewriting the mammalian cell 'source code'**
Tudor Fulga

06:00 pm **Social program** (registration mandatory):
Guided city tour

Thursday, July 18th, 2019

Thon-Dittmer-Palais, Haidplatz 8, 93047 Regensburg

09:00 am - 01:00 pm:
Novel functional programs/environment adapted immunity

Chair: Thomas Blankenstein

09:00 am **Keynote lecture: Conversion of effector T cells into regulatory T cells**
Shimon Sakaguchi

Chair: Michael von Bergwelt, André Gessner

10:00 am **Deciphering the Immune Landscape of Human Cancer Microenvironment**
Massimiliano Pagani

10:30 am **Ontogeny of dendritic cells and Macrophages: From Development to Functions**
Florent Ginhoux

11:00 am **Coffee break**

Chair: Martin Bornhäuser, Matthias Edinger

11:30 am **Treg cells in non-lymphoid tissues**
Markus Feuerer

12:00 pm **Learning cellular differentiation pathways from in vivo lineage tracing of T cells and hematopoietic stem cells**
Thomas Höfer

12:30 pm **Bioinformatics approaches to understand the interaction of cancer with the immune system**
Benedikt Brors

01:00 pm **Closing remarks**
Philipp Beckhove

Farewell & lunch

Speakers & Chairs**Hinrich Abken**

Genetic Immunotherapy
RCI Regensburg Center for Interventional Immunology
c/o University Hospital Regensburg, Germany

Thomas Blankenstein

Charité Berlin - Universitätsmedizin Berlin
Institut für Immunologie, Berlin

Martin Bornhäuser

Universitätsklinikum Carl Gustav Carus, Dresden

Benedikt Brors

Applied Bioinformatics
Deutsches Krebsforschungszentrum, Heidelberg

Matthias Edinger

Department of Internal Medicine III
University Hospital Regensburg, Germany

Hermann Einsele

Medizin II
Universitätsklinikum Würzburg, Würzburg

Markus Feuerer

Immunology
RCI Regensburg Center for Interventional Immunology
c/o University Hospital Regensburg, Germany

Katharina Fleischhauer

Institut für Zelltherapeutische Forschung
Universitätsklinikum Essen, Essen

Tudor Fulga

Genome Engineering and Synthetic Biology
University of Oxford, Oxford

Luca Gattinoni

Experimental Transplantation and Immunology
National Cancer Institute, Bethesda

André Gessner

Institut für Mikrobiologie und Hygiene
Universitätsklinikum Regensburg, Regensburg

Florent Ginhoux

Ontogeny and Differentiation of Macrophages Cells
Singapore Immunology Network (SING), Singapore

Wolfgang Herr

Klinik und Poliklinik für Innere Medizin III
Universitätsklinikum Regensburg, Regensburg

Thomas Höfer

Theoretical Systems Biology (B086)
Deutsches Krebsforschungszentrum, Heidelberg

Michael Jensen

Ben Towne Center for Childhood Cancer Research
Center for Childhood Cancer Research, Seattle

Carl June

Pathology and Laboratory Medicine
Perelman School of Medicine at University of Pennsylvania, Philadelphia

Ulrike Köhl

Institute of Cellular Therapeutics
Hannover Medical School, Hannover

Megan Levings

Faculty of Medicine/Department of Surgery
BC Children's Hospital Research Institute, Vancouver

Andreas Mackensen

Medizinische Klinik 5 - Hämatologie und Internistische Onkologie
Universitätsklinikum Erlangen, Erlangen

Marcela Maus

Cellular Immunotherapy
MGH Center for Cancer Research, Charlestown

Massimiliano Pagani

Medical Biotechnology and Translational Medicine
Istituto Nazionale Genetica Moecolare (INGM), Milano

Shimon Sakaguchi

Experimental Immunology
WPI Immunology Frontier Research Center, Osaka University, Osaka

Dolores Schendel

Chief Executive Officer and Chief Scientific Officer
Medigene AG, Munich

Michael Schmitt

Universitätsklinikum Heidelberg, Heidelberg

Hans Stauss

Division of Infection and Immunity
Institute of Immunity and Transplantation, London

Matthias Theobald

Universitätsmedizin Mainz
III. Medizinischen Klinik, Mainz

Michael von Bergwelt

Medizinischen Klinik und Poliklinik III
LMU Klinikum der Universität München, München

Program Committee**Hinrich Abken**

Chair for Genetic Immunotherapy
RCI Regensburg Center for Interventional Immunology
c/o University Hospital Regensburg, Germany

Philipp Beckhove

Chair for Interventional Immunology
RCI Regensburg Center for Interventional Immunology
c/o University Hospital Regensburg, Germany

Matthias Edinger

Department of Internal Medicine III
University Hospital Regensburg, Germany

Markus Feuerer

Chair for Immunology
RCI Regensburg Center for Interventional Immunology
c/o University Hospital Regensburg, Germany

Venue

Thon-Dittmer-Palais, Haidplatz 8,
93047 Regensburg, Germany

Sponsors

Becton Dickinson GmbH	1.000 €
Celgene GmbH	1.500 €
CellGenix GmbH	2.000 €
ChemoMetec	1.000 €
Janssen-Cilag GmbH	3.000 €
Miltenyi Biotec GmbH	2.000 €
Novartis Pharma GmbH	2.000 €
TPP Techno Plastic Products	1.000 €

Performance for booth fee and advertising purposes.

Photographs and film recordings will be made during this event. These serve purposes of documentation and will also be used for the University Hospital's publicity work. If you wish to register an objection, please contact us on kongresse@ukr.de by the day of the event at the latest.

**Online-Registration**

www.congress-registration.ukr.de

Date

July 17th - 18th 2019

Conference Fee

Industry participants incl. social program & dinner	400 €
Industry participants excl. social program & dinner	350 €
Regular participation incl. social program & dinner	250 €
Regular participation excl. social program & dinner	200 €
PhD Students incl. social program & dinner	125 €
UKR, UR free of charge (conference dinner € 45,-)	
Registration mandatory prior to the symposium.	
Participants limited to 150. First come, first serve.	

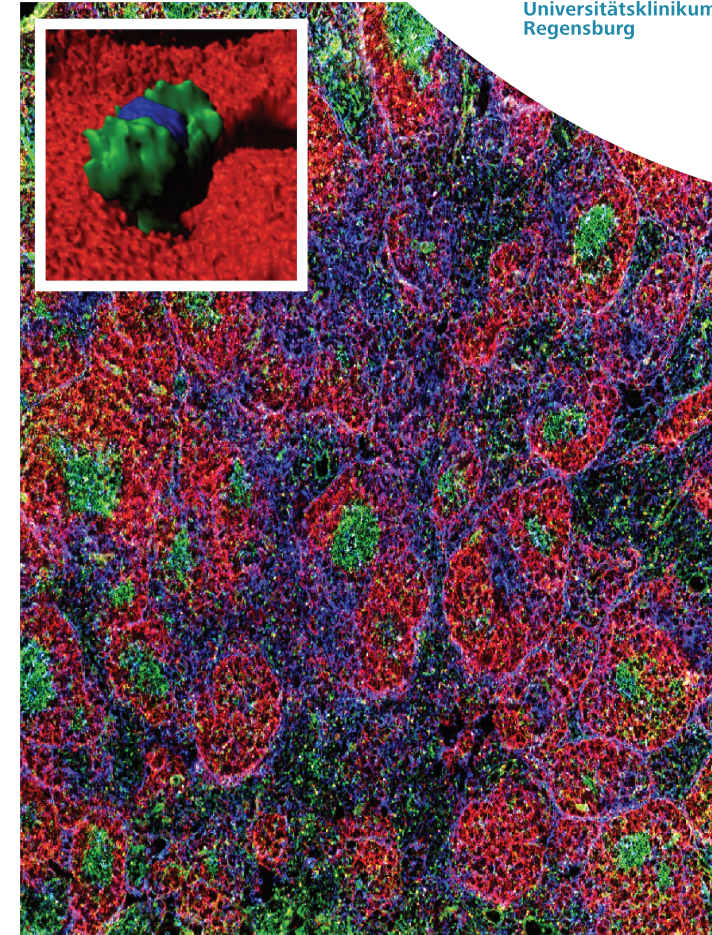
Organisation

University Hospital Regensburg
Conference Division UK3, Britta Haseneder
Franz-Josef-Strauß-Allee 11
93053 Regensburg, Germany
Phone: +49 (0)941 944-4230 | Fax: +49 (0)941 944-4233
kongresse@ukr.de

Registration conditions

After your successful registration you will receive a payment request concerning your participation fee during the next days by email. Once registered your registration is binding. All payments must be made prior to the conference. Participation fees are due upon receipt of payment request without deduction. Please transfer the participation fee amount before the event date. In case of a cancellation the cancellation statement must be in writing. The following participation fees apply: 8-3 working days before the event 50% of participation fee. In case of too late cancellation or absence without written cancellation the entire fee will be charged. A substitute participant may be submitted at any time.

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July 2019



Regensburg Center for Interventional Immunology RCI

International RCI symposium
Synthetic Immunology and environment-adapted redirection of T cells

Thon-Dittmer-Palais Regensburg, Germany

July 17th - 18th 2019