

PROGRAM ENGLISH



Monday, March 18th to Wednesday, 20th March 2019 Auditorium Bildungscampus, Heilbronn, Germany



www.molit-symposium.eu

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COMING TOGETHER IS A BEGINNING, KEEPING TOGETHER IS PROGRESS, WORKING TOGETHER IS SUCCESS Henry Ford





WELCOME

to the first MOLIT Symposium "Translational Oncology meets IT". Inspired by Albert Einstein's statement that a problem can never be solved with the same way of thinking as it was created, the symposium is intended to serve as an exchange between basic research, computer science and medicine. Science that reaches the patient will always be the success of the collaboration of many.

With this in mind, we wish you stimulating conversations, a creative change of perspective and a coming together that is a beginning.

Best regards

line frents

Christian Fegeler Uwe Martens Founders of the MOLIT Institute for personalized Medicine in Heilbronn, Germany

EXPERIENCE HEILBRONN

Everything you see is fertile

This is how Goethe once described it when he looked down on Heilbronn from the Wartberg. Today that is true more than ever. The oldest wine town in Württemberg is on the move. The most modern educational facilities are being built here. The capital of world market leaders is working hard. That's why products and ideas from Heilbronn find interest worldwide. And the landscape, which Goethe enthused is enjoyed by people every day. In the vineyards or on the Neckar right in the centre of Heilbronn.

Relax at the Neckar River

The Neckar River flows through the centre of Heilbronn. Visitors and Heilbronn residents can relax here.

For example on the Neckar Mile, where about 20 cafés, bars and restaurants with a view of the Neckar invite you to relax. And there's always something going on near the river. Pedal boat, Neckarbummler or canoe tour - here the Heilbronner life pulsates.

National Garden Festival in Heilbronn

The National Garden Festival also takes place around the river. In the city centre a former wasteland of about 40 hectare between the Neckar and Neckar canals has been transformed into the National garden festival Heilbronn 2019. Garden art at its finest and high-quality urban architecture are the first symbiosis here in the almost 70-year history of the National Garden Festival in Germany.



INFO & BOOKING

Tourist Information Heilbronn Kaiserstraße 17, 74072 Heilbronn, Germany Phone +49 7131 56 22 70, Fax +49 7131 56 33 49 info@heilbronn-marketing.de, www.heilbronn.de Mon-Fri 10 a.m. - 6 p.m., Sat 10 a.m. - 4 p.m.

Discover cultural highlights

The city also impresses with its multifaceted cultural scene. Whether theatre, jazz club CAVE 61, Kunst- und KulturWerk-Haus Zigarre or concerts by the Württembergian Chamber Orchestra - Heilbronn has a lively program of events. One of the highlights are the exhibitions in the Vogelmann art gallery, where international, renowned artists are regularly represented. With the expansion of the experimenta in which people of all ages will be amazed at the sight of technology a science center is built that is unique in Europe.

Wine tradition obliges

Heilbronn lies in one of the warmest regions of Germany. This has stimulated wine culture. Wine grows here for more than 1250 years. Of course, this shapes the population and the culture of a city. After all, the vineyards, such as the Wartberg, reach as far as to the city limits. The wine industry's quality standards on its products are correspondingly high. The joy of socialising and enjoyment can be found everywhere here. Of course, there is also a festival culture with countless wine festivals.



SYMPOSIUM FROM A TO Z

Access to the conference

Upon arrival, you will receive an access badge. Please carry it with you on all conference days.

Bus stops

Bus stops in the immediate neighbourhood of the Bildungscampus are Am Europaplatz and Hallenbad Soleo.

Conference hours

Monday, March 18th 1:00 p.m. - 8:00 p.m.

Tuesday, March 19th 8:00 a.m. - 6:20 p.m.

Wednesday, March 20th 8:00 a.m. - 3:30 p.m.

Conference office

If you have any questions for the conference team, please contact an employee in the event t-shirt.

You will also find us on the 2nd floor of the auditorium in Conference SIX.



Auditorium, Bildungscampus 8, 74076 Heilbronn Germany

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Internet access

All participants get direct access to WLAN.

Network

welcome@bildungscampus

Language

Both German and English lectures will be held. The lectures will be translated so that you can hear them in both languages.

Meals and breaks

During the event there will be short breaks between the lecture blocks in which snacks will be offered on site. During the lectures there will also be the possibility to get some snacks and drinks in the lobby.

Parking

Car park West des Bildungscampus, Weipertstraße 51, 74076 Heilbronn From there you can reach the Auditorium comfortably by foot.

Further parking possibilities in the site map on page 14

Wardrobe

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It is possible to leave your wardrobe and small bags at the entrance of the auditorium.

SPEAKER TUESDAY



Timothy A Yap

The University of Texas MD Anderson Cancer Center, Houston

Tim Yap is a Medical Oncology Physician-Scientist and a Tenure-Track Associate Professor in the Departments of Investigational Cancer Therapeutics and Thoracic/Head and Neck Medical Oncology at the University of Texas MD Anderson Cancer Center. He is also the Medical Director of the Institute for Applied Cancer Science, and Associate Director of Translational Research in the Institute for Personalized Cancer Therapy.

Tuesday, March 19th 2019

3:00 p.m. - 3:20 p.m. Targeting DNA Repair in cancer



Lars Bullinger

Charité - Universitätsmedizin Berlin

Lars Bullinger directs the Department of Hematology, Oncology and Tumor Immunology at Charité Berlin. Previously, he was the head of the oncology section of the Department of Internal Medicine III at the University Hospital Ulm. Today, his research activities focus on the use of innovative technologies for the improved characterization of tumor diseases.

Tuesday, March 19th 2019

3:20 p.m. - 3:40 p.m.

Novel immunotherapeutic concepts in cancer therapy

TUESDAY, MARCH 19th 2019



Aaron Ciechanover

Technion-Israel Institute of Technology, Haifa

Born in Haifa, Israel, Aaron Ciechanover graduated from the Hebrew University and the Technion, and carried out a post-doctoral fellowship at the MIT. For the discovery of the ubiquitin system for cellular protein degradation, he was awarded the 2004 Nobel Prize in Chemistry, among many prestigious prizes.

Tuesday, March 19th 2019

4:30 p.m. - 5:30 p.m.

The revolution of personalized medicine: Shall we be able to cure all diseases and at what price?



Clem J. McDonald

U.S. National Library of Medicine, Bethesda

Clem McDonald is a Senior Investigator at NLM/NIH, a member of National Academy of Medicine, the developer of RMRS (a pioneering electronic medical record), a founder of HL7, an author of the V2 clinical laboratory results chapter, a developer of LOINC and a co-author of UCUM and V2 clinical genetics reporting standard.

Tuesday, March 19th 2019

5:30 p.m. - 5:50 p.m. Semantic interoperability

SPEAKER WEDNESDAY



Jianjiong Gao

Memorial Sloan Kettering Cancer Center, New York

Jianjiong Gao is an Assistant Attending Computational Oncologist and the Lead Scientist in the Knowledge Systems group at MSK. He has been co-leading the development of cBioPortal and OncoKB, two popular resources in cancer genomics and precision oncology. He is also a contributor to TCGA, AACR Project GENIE, and MSK-IMPACT clinical sequencing projects.

Wednesday, March 20th 2019 9:00 a.m. - 9:20 a.m. Establishing knowledge systems to enable discovery from complex cancer data



Wednesday, March 20th 2019

Simone Heckmann

HL7 Deutschland e.V., Köln

Simone Heckmann has obtained her diploma in Medical Informatics at the University of Heilbronn / University of Heidelberg. Her 15 years of professional experience include the supervision and administration of clinical primary and subsystems as well as the analysis, conception and implementation of interfaces between these systems. She directs the technical committee for FHIR at HL7 Germany and is a member of the FHIR Core Team.

9:20 a.m. - 9:40 a.m. Data consolidation and integration with HL7 FHIR

WEDNESDAY, MARCH 20th 2019



Harald Binder

Universitätsklinikum Freiburg

Harald Binder is the director of the Institute for Medical Biometry and Statistics at the Medical Center Freiburg. He received his doctorate at the Institute of Statistics at LMU Munich, habilitated in Freiburg and held a professorship in Mainz prior to his current position. His research focuses on data integration and artificial intelligence.

Wednesday, March 20th 2019

9:40 a.m. - 10:00 a.m. Deep learning with molecular data



James Agnew

Centre for Global eHealth Innovation, Toronto

James Agnew is the Lead Architect with the Centre for Global eHealth Innovation (UHN) in Toronto Canada, and a member of the FHIR Core Team. He has over 14 years of experience in architecting health software and is the project lead for HAPI, an open source implementation of the FHIR specification.

Wednesday, March 20th 2019 11:00 a.m. - 11:20 a.m. Involving patients in care: How technology and standards are driving better engagement

SPEAKER WEDNESDAY



Cristiane Galvao

University of Sao Paulo

Professor at Faculty of Medicine of Ribeirao Preto, University of Sao Paulo, Brazil. Ph.D. in Information Science by University of Brasília, M.Sc. in Communication and Bachelor in Library and Documentation by University of Sao Paulo. Stage of doctorate in University of Montreal, Canada. Visiting Professor at Faculty of Medicine, McGill University, Canada. Visiting Professor at University of Malaga, Spain.

Wednesday, March 20th 2019

Personalized patient information



Wednesday, March 20th 2019

Eva Winkler

11:20 a.m. - 11:40 a.m.

Nationales Centrum für Tumorerkrankungen (NCT) Heidelberg

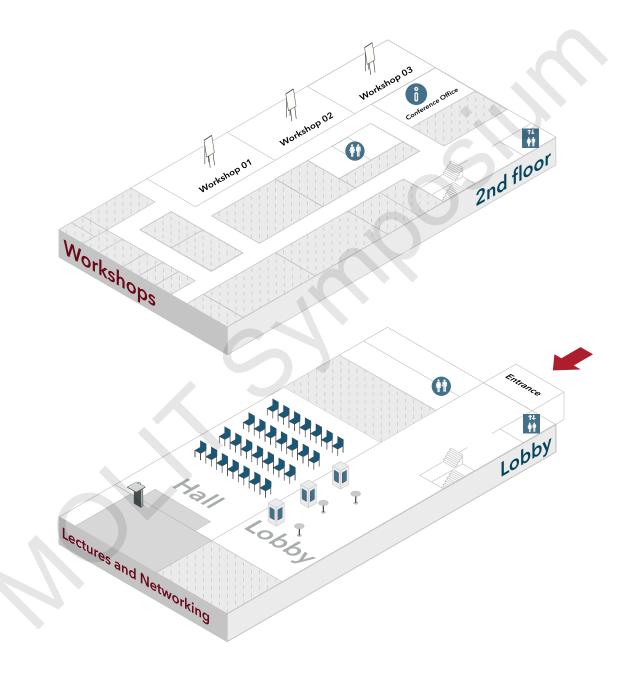
Eva Winkler directs the research focus Ethics and Patient Orientation in Oncology at the NCT in Heidelberg. She works there as an oncological senior physician, has a doctorate in cancer research at the DKFZ and after a long research stay at Harvard she habilitated in Medical Ethics in Basel. She is a board member of the Academy of Ethics in Medicine.

11:40 a.m. - 12:00 a.m. Ethical framework of personalized medicine "THE AMOUNT OF COMPLEX MOLECULAR DATA, THAT ARISES IN THE CONTEXT OF ONCOLOGICAL PRECISION MEDICINE CAN NO LONGER BE HANDLED WITHOUT IT-SUPPORT."

Uwe Martens







PROGRAM MONDAY





MONDAY, MARCH 18th 2019



PROGRAM TUESDAY

Time	Subject	Room
9:00 to 12:30 a.m.	Workshop session	
	• 01 Developing and implementing a molecular tumor board	Conference THREE
	02 Interoperability of knowledge databases	Conference FOUR
	03 Study designs for personalized medicine	Conference FIVE

2:30 to 3:00 p.m.

Opening

Hall

Opening Christian Fegeler Uwe Martens

Greetings from the Dieter Schwarz Stiftung Reinhold R. Geilsdörfer

Greetings from the Lord Mayor of Heilbronn Harry Mergel

TUESDAY, MARCH 19th 2019

Evening program

from 6:30 p.m.



Let's end the first lecture day of the MOLIT symposium with a relaxed evening at the location. Whether at bar tables or in lounge chairs, take the previous lectures and podium discussions as impulses and continue them in a personal conversation. A local catering of "Le Gourmet" will take care of your physical well-being with an international finger food buffet and a selection of drinks. The sounds of JAZZ-EEL will lead you into your own world of sound through their unique combination of electronics and live instruments. The charming jazz trio consisting of Wolfram Göz, Philipp Mattes and Janis Lugerth has already proven its skills at numerous events in the region.

Hopefully you can establish good contacts and we wish you interesting conversations and an enjoyable evening.

PROGRAM TUESDAY

Time	Subject	Room
3:00 to 4:00 p.m.	Molecular and immunotherapeutic approaches	Hall
	Targeting DNA Repair in cancer Timothy A Yap	
	Novel immunotherapeutic concepts in cancer therapy Lars Bullinger	
	Panel discussion Timothy A Yap Lars Bullinger	



TUESDAY, MARCH 19th 2019

Time	Subject	Room
4:30 to 6:20 p.m.	Challenges and opportunities of personalized medicine	Hall
	The revolution of personalized medicine: Shall we be able to cure all diseases and at what price? Aaron Ciechanover	
	Semantic interoperability Clem McDonald	
	Panel discussion Aaron Ciechanover Clem McDonald	
 1	p	Evening program page 19

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PROGRAM WEDNESDAY

Time	Subject	Room
9:00 to 10:30 a.m.	Digitization	Hall
	Establishing knowledge systems to enable discovery from complex cancer da Jianjiong Gao	ita
-	Data consolidation and integration with HL7 FHIR Simone Heckmann	
	Deep learning with molecular data Harald Binder	
	Panel discussion Harald Binder Jianjiong Gao Simone Heckmann	

WEDNESDAY, MARCH 20th 2019

Patient incorporation nvolving patients in care: How technology and standards are driving better engagemen ames Agnew	Hall t
nd standards are driving better engagemen	t
Personalized patient information	
thical framework of personalized medicine va Winkler	
Panel discussion ames Agnew Cristiane Galvao va Winkler	
	thical framework of personalized medicine va Winkler anel discussion ames Agnew ristiane Galvao



PROGRAM WEDNESDAY

Time	Subject	Room
1:30 to 3:00 p.m.	Public discussion of workshop results	Hall
1:30 to 2:00 p.m.	Developing and implementing a molecular tumor board	
2:00 to 2:30 p.m.	Interoperability of knowledge databases	
2:30 to 3:00 p.m.	Study designs for personalized medicine	



WEDNESDAY, MARCH 20th 2019



WORKSHOPS INITIATORS



Dora Finkeisen

MOLIT Institut gGmbH, Heilbronn

Senior Manager for the Virtual Tumor Board VITU and external consultant for the molecular tumor board of SLK-Kliniken Heilbronn. Doctorate at Georg-August-University Göttingen at the Institute of Virology of University Medicine Göttingen, later working as development manager in the field of *in vitro* diagnostics of lateral flow immunoassays.



Daniel Zsebedits

MOLIT Institut gGmbH, Heilbronn

Chief Technology Officer of the MOLIT Institute gGmbH and responsible for the development of the MOLIT IT-Framework and the Virtual Tumor Board (VITU). Master's degree in Medical Informatics at the University of Heidelberg, later scientific assistant at the Heilbronn University of Applied Sciences.

CONTENT

O1 Developing and implementing a molecular tumor board

Actual molecular tumor boards are shown as an example for the structure and regular implementation. Focusing on organizational and technical optimization, the participants actively discuss and introduce their personal experiences.

MONDAY,	MARCH 18th	Room
2:00 to 5:30 p.m.	Workshop session	Conference THREE
5:30 to 8:00 p.m.	Networking session	Lobby
TUESDAY, I	MARCH 19th	
9:00 to 12:30 a.m.	Workshop session	Conference THREE
WEDNESD	AY, MARCH 20th	
1:30 to 2:00 p.m.	Public discussion	
	of workshop results	Hall

WORKSHOPS INITIATORS



Patrick Werner

MOLIT Institut gGmbH, Heilbronn

Responsible for interoperability and processes of the MOLIT framework with focus on FHIR & BPMN2. Master Graduate in Medical Informatics of the University of Heidelberg, Co-Chair of the Clinical Genomic Working Group HL7 International and member of the technical committee FHIR HL7 Germany.



James Agnew

Centre for Global eHealth Innovation, Toronto

James Agnew is the Lead Architect with the Centre for Global eHealth Innovation (UHN) in Toronto Canada, and a member of the FHIR Core Team. He has over 14 years of experience in architecting health software and is the project lead for HAPI, an open source implementation of the FHIR specification.

CONTENT

02 Interoperability of knowledge databases

There is a great diversity of data sources worldwide which e.g. provide information on genetic alterations of cancer diseases. However, linking and evaluating the data can be quite difficult.

On one side there is semantic interoperability, which means joining data of the same type from different databases. On the other side we have to consider technical interoperability, which focuses on standardized interfaces. Achieving interoperable databases allows us to use knowledge worldwide for decision support in everyday clinical practice.

MONDAY, I	MARCH 18th	Room
2:00 to 5:30 p.m.	Workshop session	Conference FOUR
5:30 to 8:00 p.m.	Networking session	Lobby
TUESDAY, I	MARCH 19th	
9:00 to 12:30 a.m.	Workshop session	Conference FOUR
WEDNESD	AY, MARCH 20th	
1:30 to 2:00 p.m.	Public discussion of workshop results	Hall
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WORKSHOPS INITIATORS



Markus List

Technische Universität München (TUM)

Markus List is head of the Big Data in BioMedicine Group at the Chair of Experimental Bioinformatics at Technical University Munich. His group develops computational models and software tools that integrate big heterogeneous (multi-OMICS) data on the network level to address challenges in systems biology and systems medicine.



Christian Fegeler

MOLIT Institut gGmbH, Heilbronn

Christian Fegeler is a physician. His work focuses on information and process management in health systems and the joint use of data in clinical research and patient care. He is convinced that interoperability is the key to successful digitization. He teaches medical informatics at Heilbronn University and is one of the founders of the MOLIT Institute.

CONTENT

03 Study designs for personalized medicine

Present study designs are based on large groups of patients e.g. for testing the efficacy of medication. However, personalized medicine focuses on customized therapies for one single patient. Participants discuss possible solution approaches for selected topics (immuno-oncology, DNA repair, cell cycle).

MONDAY, I	MARCH 18th	Room
2:00 to 5:30 p.m.	Workshop session	Conference FIVE
5:30 to 8:00 p.m.	Networking session	Lobby
TUESDAY, M	MARCH 19th	
9:00 to 12:30 a.m.	Workshop session	Conference FIVE
WEDNESD	AY, MARCH 20th	
1:30 to 2:00 p.m.	Public discussion	
	of workshop results	Hall

SPONSORS



Celgene is a global biopharmaceutical company with a German presence in Munich since 2006 which currently employs a staff of about 300 people. The roots of the company lie in the field of rare diseases in hematology. But the portfolio has grown steadily over the last years including now treatments for hematologic oncological and severe immune and inflammatory diseases with a high unmet medical need. The vision is set: to help those affected to participate in societal life as long as possible and ensure that their lives remain worth living despite their condition.

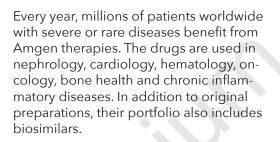
TESARO®

TESARO is a biopharmaceutical company devoted to providing transformative therapies to people bravely facing cancer. We see new possibilities to responsibly develop and commercialize innovative treatments where others may not. Relationships are vital to the success of our business, and we are committed to being a trusted partner to the cancer community.



AMGEN[®]

AbbVie's oncology research is focused on the discovery and development of targeted therapies that work against the processes cancers need to survive. AbbVie's vision in oncology is to jointly push the boundaries in cancer treatment. AbbVie has set itself the challenge of delivering solutions for severe diseases that to date could not be treated adequately.







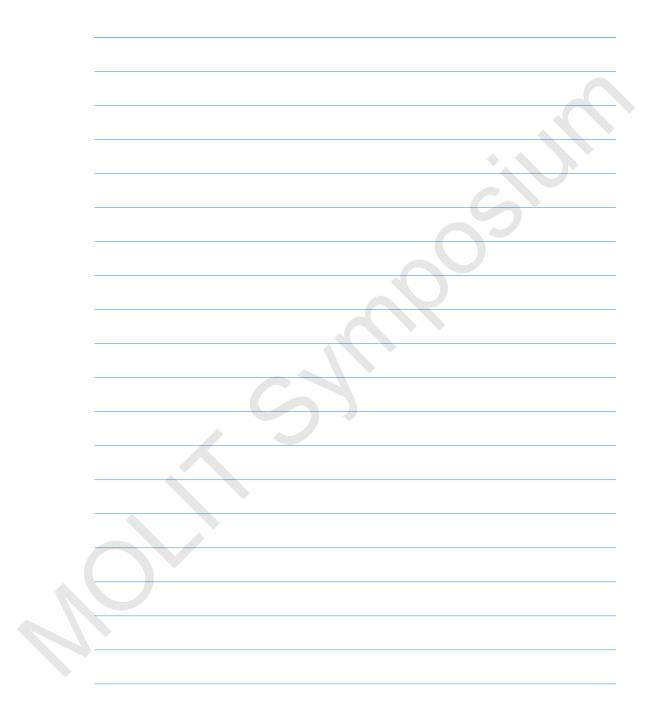
Bristol-Myers Squibb is a global biopharmaceutical company whose mission is to discover, develop and deliver innovative medicines that help patients prevail over serious diseases. Thus, the treatment of cancer remains a critical focus of their work – and their immuno-oncology portfolio plays a key role. Sandoz is a global leader in generic pharmaceuticals and biosimilars. As part of the Sandoz Group in Germany, the product brand Hexal is responsible for supplying patients with modern medicines as well as complex, innovative pharmaceuticals in Germany.

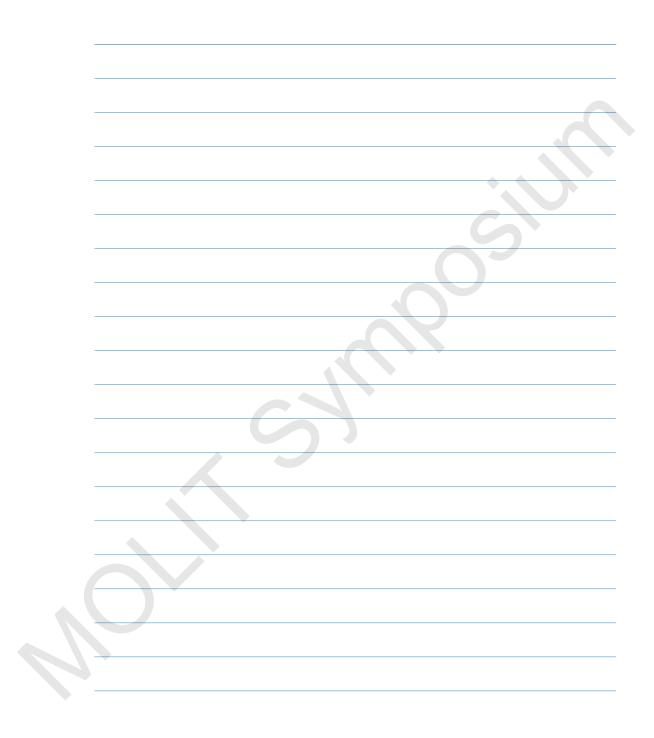




Foundation Medicine works with one of the largest databases of genetic profiles of over 200,000 patient profiles, collaborates with more than 30 partners in the biopharmaceutical industry, and has published over 200 publications.

NOTES





IMPRINT

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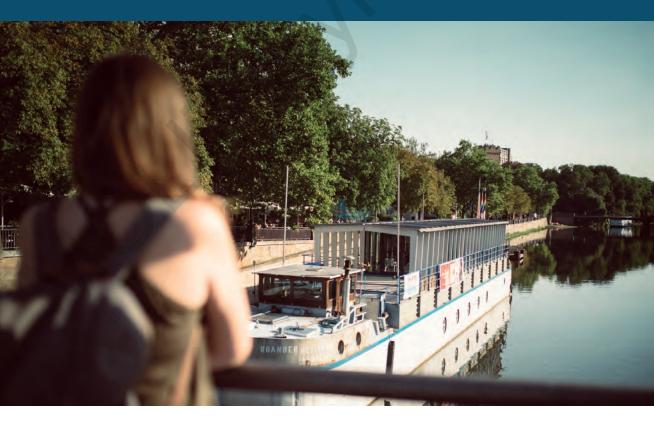
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Stadt Heilbronn BUGA Heilbronn Dieter Schwarz Stifung Unsplash.com 2019



BRIEF INTRODUCTION



The MOLIT Institute for Personalized Medicine is a non-profit research institution located in Heilbronn, Germany. The focus is on IT support for the development of tailor-made therapies for cancer and their translation into standard medical care. The founders of MOLIT are the Cancer specialist Prof. Dr. Uwe Martens and the physician and IT expert Prof. Dr. Christian Fegeler.

Contact

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