The European Strategic Cluster Partnership
for Smart Specialization Investment in Medical Technologies

Innovation Workshop

S³martMed needs SmartTech

MedTech companies, clinicians & researchers get together

SEPTEMBER 19TH AND 20TH 2019
CLINICAL ANATOMY IN TÜBINGEN, GERMANY

This initiative is part of the S³MartMed project, the European Strategic Cluster Partnership (ESCP) for smart specialization investments in medical technologies, which has received funding from the European Union's COSME Programme (2014-2020).

Agenda of the 2-day Workshop

September 19th 2019

Institut für Klinische Anatomie und Zellanalytik
Elfriede-Aulhorn-Straße 8 | D-72076 Tübingen

14:00 – 14:10 — **Welcome and introduction to S³martMed project**

14:10 – 18:00 — **Live-surgeries**

- ✓ Real surgeries performed on human specimen
- ✓ Discussions and feedback with clinicians

Prof. Dr. Bernhard Hirt, Clinical Anatomy

18:00 — **Evening event, buffet**

September 20th 2019

Casino Universitätsklinikum
Otfried-Müller-Straße 6 | D-72076 Tübingen

09:00 – 09:10 — **Introduction**

- ✓ Workshop-outline: identification of collaboration projects and possible business support

Artur Ochojski, GAPR

09:10 – 10:15 — **AI and 3D printing in medical technology**

- ✓ Artificial Intelligence in Imaging

Johannes Stelzer, Max Planck Institute

- ✓ 3D Printing in Medical Technology

Patrick Springer & Johannes Horsch, Fraunhofer IPA

10:15– 10:30 — **Funding & investment advices**
Hicham Abghay & Hartmut Welck, Steinbeis Innovation gGmbH

10:30 – 11.00 — **Pitch session**
Pitch your needs and offers to initiate interregional collaboration projects

10:15 – 13:00 — **Matchmaking session**
Face-to-face meeting pre-arranged thanks to the platform B2match

12:00 – 13:00 — **Lunch buffet**

The Project

S³martMed is an initiative co-funded by the COSME programme of the European Union, promoting a European Strategic Cluster Partnership to identify the key future investments priorities and joint activities for the emergence of interregional business collaborations in the Medical Technologies sector.

The purpose of the initiative is to foster interregional and cross-sectoral cooperation between European clusters and their SME members in the field of medical technologies through the establishment of a unique cluster partnership. Through its action, the project will participate to the implementation of the Smart Specialisation (S3) policies with their regions increasing the participation of industries, supporting the identification of priorities of investments related to the Medtech sector and contributing to the elaboration of future interregional funding schemes, in coherence with the current discussions with the S3 Medtech Platform.

The partnership will offer cooperation opportunities thanks to the organization of B2B and C2C networking at interregional level, involving SMEs, technological centres and key stakeholders from the partners' regions and beyond.

As a second step, once the interregional collaborations has been emerged and identified between stakeholders, the S³martMed partners will support these business collaborations in their maturation until the definition of investments/funding scenarios together with regional authorities.

The 5 five cluster partners of S³martMed - bioPmed (Piedmont), BioRegio STERN (Baden-Württemberg), BioWin (Wallonia), Lyonbiopole (Auvergne Rhône-Alpes), MedSilesia (Upper Silesia) are happy to welcome you to this unique event and hope to support you for your future collaboration in Europe.

Content of the Workshop

Welcome to our Innovation Workshop "S^{3}martMed needs SmartTech" to get the opportunity for successful collaborations!

Initiate fruitful discussion and collaboration ideas at our S^{3}martMed Workshop (Business Brokerage Event) at University Hospital in Tuebingen. The two-day workshop gives you the opportunity to find new strategies to develop innovative medical devices in the field of **surgical instruments**, **3D printed implants/organs** or **artificial intelligence**. The workshop provides unique contacts between manufacturer, service provider, clinicians and scientists. For your company in particular, this is a chance to discuss new approaches with end users directly. After all, the medical engineers meet medical directors, senior physicians from a wide range of disciplines at the operating table as well as 3D printing and artificial intelligence experts.

September 19th 2019: Live-Surgery – from Tip to Toe

Surgeons from the University Hospital Tübingen will perform several live surgeries on human specimen and address challenges they have to face throughout. Afterwards the surgeons will further demonstrate the medical need on different workstations.

Different disciplines will be brought together and the audience is invited to address so far unresolved challenges and develop new solutions to improve medical devices.

- *Heart surgery – implantation of an artificial heart*
- *Neurosurgery – surgery of the pituitary gland*
- *Otolaryngology – adjustment of a printed 3D epithesis*
- *Gynaecology & visceral surgery – pelvic surgery with neurostimulation*

Operator

Surgical Instruments

Manufacturer

September 20th 2019: Networking sessions – workshops and face to face meetings

The Innovation Workshop is focused on the identification of technology transfer and multiregional collaboration projects between MedTech companies and research organisations.

Two keynotes on artificial intelligence and 3D printing present the state-of-art and give an outlook to the future of medical technology.

Following these speeches, attendees have the chance to pitch their needs and offers to find interregional collaboration partners. Throughout, experts in funding opportunities will be available.

For pre-arranged face-to-face meetings via our virtual matchmaking platform tables are available to discuss possible collaboration and project ideas

3D Printing

Artificial Intelligence

Funding & Investment

Needs & Offers

Networking

Collaborations

Surgeons - University Hospital of Tübingen

Department - Clinical Anatomy

Prof. Dr. Bernhard Hirt

Department - Heart Surgery

Prof. Dr. Dr. h.c. Christian Schlensak

Prof. Dr. Aron Popov

Department - Neurosurgery

Prof. Dr. Jürgen Honegger

Department - Otolaryngology

Prof. Dr. Hubert Löwenheim

PD Dr. Sven Becker

Department - Gynaecology

Prof. Dr. Christl Reisenauer

Department - General Surgery

PD Dr. Andreas Kirschniak

Experts

Artificial Intelligence

Dr Johannes Stelzer

Scientist at the Max Planck Institute for Biological Cybernetics – Co-founder of Colugo GmbH

Dr Johannes Stelzer studied physics, biophysics and philosophy at the Universities of Hamburg and Leipzig and worked on neuronal growth processes. He then pursued a PhD degree at the Max Planck Institute for Human Cognitive and Brain sciences in Leipzig, where he investigated human brain function by means of ultra-high field functional magnetic resonance imaging (fMRI). Here, he developed novel statistical methods for interpreting machine learning results from fMRI. Currently, Johannes is employed at the Max Planck Institute for Biological Cybernetics in Tübingen, where he develops analysis methods for fMRI, with special focus on network methods and artificial intelligence (AI). Since 2019 he co-founded the company Colugo GmbH in Tübingen.

Additive Manufacturing

Patrick Springer

Fraunhofer Institute for Manufacturing, Engineering & Automation, IPA

Patrick Springer is group leader at the Fraunhofer IPA since 2017. He studied mechanical engineering at the Karlsruhe Institute of Technology (KIT), specializing in product development and design. After his diploma focused on "Simulation of Sintering Processes" at the Institute for Applied Materials Computational Materials Science IAM-CMS he joined the company ARBURG GmbH + Co KG as Development Engineer in the field of process and plant development of additive manufacturing processes (Freeformer). Since 2014 Patrick Springer is research assistant at the Fraunhofer IPA in the field of additive manufacturing with the main focus on: (a) additive manufacturing processes with a focus on thermoplastic and thermoset materials and (b) automation of additive manufacturing processes.

Johannes Horsch

Fraunhofer Institute for Manufacturing, Engineering & Automation, IPA – Project Group for Automation in Medicine and Biotechnology, PAMB

Since 2017 Johannes Horsch has been the head of the group Medical Engineering Assistance Systems at the Project Group for Automation in Medicine and Biotechnology (PAMB). PAMB is a department of the Fraunhofer IPA. Johannes studied mechanical engineering at the Karlsruhe Institute of Technology (KIT), specializing in product development and design. In 2014 he started as a research associate at the Fraunhofer IPA. The focus areas of his group are: R&D of intelligent instruments, devices and robots for minimally invasive and image-based interventions (e.g. with the following technologies: 3D printing, artificial intelligence and 5G) and analysis of clinical processes.

Experts

Funding & Investment

Hicham Abghay

Senior expert in the field of innovation, technology transfer, EU research funding in the Health domain – Steinbeis Innovation gGmbH

Hicham has been active member and coordinator of several European projects dealing with closing the innovation & research gap, co-designing e-health roadmaps, deciphering success factors in research as well as the impact assessment of e-skills in e-health Workforce in EU & US as well as the valorisation of EU research. Within the largest technology transfer network in the World Enterprise Europe Network – EEN Hicham has been active member in several working groups and was chairperson of the Healthcare Sector Group for more than 10 years. Furthermore, he has been advisory board member in several European projects and coach and mentor for mainly SMEs and technology transfer networks. Furthermore, Hicham is Ambassador of the European IPR Helpdesk and coordinator of the European projects SENET – SINO European Health Networking Hub and IDIH: International digital health cooperation for preventive, integrated, independent and inclusive living.

Hartmut Welck

Senior Project Manager Bioeconomy, Nutrition, Industrial Biotechnology and Innovation Management –Steinbeis Innovation gGmbH

Hartmut Welck has a university degree in Agricultural Sciences from University of Hohenheim (Stuttgart) and has been working as senior project manager since 2006 at Steinbeis Innovation gGmbH in the area of innovation-, project- and network management as well as technology transfer with special focus on Biotechnology, Bioeconomy and Food.

He was and is involved in many EU Research and innovation projects (FP 6, 7, Horizon 2020 and Interreg) as coordinator and as lead partner.

On national level he manages since 2010 the “Bioactive plant Foods network” which comprises 17 partners from Germany and which aims at developing bioactive foods (also considering valuable plant residues / wastes) together with the industry.

Dr André Zimmermann

Senior Investment Manager –SHS Gesellschaft für Beteiligungsmanagement mbH

Dr André Zimmermann joined SHS in 2002 as Senior Investment Manager and became partner in 2010. He previously worked as a research associate at the University of Freiburg and co-founded a biotech startup. He studied biology and then received his doctorate in molecular biology at the Albert-Ludwigs University in Freiburg. At the same time, he completed a 2-year degree in economics at the University of Hagen and is a trained banker.

Pitch Session

Join our pitch session to present your needs & offers and to find new business or collaboration partners.

Speakers:

Herniamesh – a Company overview

- Alessandra Lo Moro, Herniamesh

Software development for health-care - an invitation to partnership

- Przemek Grzywa, Revolve

Centre of biocompatibility

- Przemysław Kurtyka, Foundation for Cardiac Surgery Development

R&D on demand for medical devices industry

- Mateusz Pawlik, CABIOMEDE Sp. z o.o.

Modern Research Centre: New Technology & Innovations in Medicine and Biotech

- Kamila Luft, Silesian Park of Medical Technology Kardio-Med Silesia

Polymer micro objectives – the future of ultrathin endoscopes

- Norbert Schneider & Manuel Hermann, Karlsruhe Institute of Technology

Minimic – Intelligence for routine microscopy

- Maximilian Hans, Intuity Media Lab

Rehabilitation Progress Estimation Concerning Patients After Ischemic Brain Stroke with the Help of Higher Order Spectral Analysis

- Professor Ewaryst Tkacz, Silesian University of Technology, Faculty of Biomedical Engineering

Registered organizations in the event

bioPmed / Bioindustry Park Silvano Fumero	Cluster Organisation
BioRegio STERN Management GmbH	Cluster Organisation
BioWin	Cluster Organisation
Lyonbiopole	Cluster Organisation
MedSilesia Cluster	Cluster Organisation
3d.FAB-ICBMS UMR5246	University
3D-Side	SME
Andramed GmbH	Manufacturer
ASE Optics Europe	SME
Bioindustry park	Large Company
Brom Epithetik	Manufacturer
CABIOMEDE Ltd.	SME
CARDIAGS	Manufacturer
Clinical Consulting	Research Organisation
Colugo GmbH	Consulting
EPflex Feinwerktechnik GmbH	Consulting
Foundation of Cardiac Surgery Development	Research Organisation
Fraunhofer IPA	Research Organisation
Fraunhofer IPA-PAMB	Research Organisation
Herniamesh	SME
Intuity Media Lab Stuttgart	Service Provider
Kardio-Med Silesia	Research Organisation
Meidrix Biomedicals GmbH	Manufacturer
Natural and Medical Sciences Institute, University of Tübingen	Research Organisation
NPS NanoPolymerSolutions	University
Ovesco Endoscopy AG	Research Organisation
Politecnico di Torino	University
Polymedics Innovations GmbH	Manufacturer
Reutlingen University	University
Revolve - Med Software House	SME
Silesian University of Technology	University
SHS Gesellschaft für Beteiligungsmanagement mbH	Investment/Financing
Steinbeis 2i GmbH	Consulting
Toray Industries, Inc.	Manufacturer
TU Darmstadt	University
University Hospital Tübingen	University

bioPmed / Bioindustry Park Silvano Fumero

Cluster Organisation

http://www.biopmed.eu

Eugenio Mimosi, Project Manager
✉ **mimosi@biopmed.eu**
Colleretto Giacosa - Torino, Italy

Organisation Description

bioPmed is the Italian innovation cluster dedicated to health care related products and services established in 2009 by Regione Piemonte in the framework of the ERDF – POR 2007-2013 program. bioPmed brings together companies, research centers, universities and foundations, promotes research-industry interactions and stimulates innovation and internationalization.
The bioPmed cluster initiative is led by Bioindustry Park Silvano Fumero. bioPmed offers dedicated funding for research projects and feasibility studies, high value-added specialized services and international networks to support industry competitiveness and to favor the convergence of public and private investments towards common development paths.

Areas of Activity

Business Development; INNOVATION SERVICES: R&D financing for the healthcare sector, project bulding and management, technology transfer and technology brokerage, patenting and intellectual property rights management; INTERNATIONALIZATION SERVICES: Sectorial market intelligence, support for trade fairs and b2b events, soft landing on new market, technology partners search; BUSINESS DEVELOPMENT SERVICES: Competitive intelligence, search for investors, promotion of research results, business networking; MARKETING: promotion and communication, positioning and marketing of bioPmed brand, storytelling; TRAINING: Technical and regulatory courses, workshops on new trends and new business opportunities

BioRegio STERN Management GmbH

Cluster Organisation

https://www.bioregio-stern.de/en

Klara Altintoprak, Project Manager
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Stuttgart, Germany

Organisation Description

BioRegio STERN Management GmbH offers inter-municipal funding to stimulate the economy for a region with 248 towns and local authorities and a total of 3.3 million inhabitants. With a GDP of over EUR 150 billion, this region's economic power is comparable with the entire Czech Republic.
At the heart of the cluster are 120 medtech companies, with more than 12,000 employees, and 110 biotech companies, employing over 4,000 staff. The more than 1,000 engineering companies – around 40 of which are already active in the life sciences – are increasingly important. All in all, some 18,000 jobs have been created in the region's life sciences sector.

Areas of Activity

Business Development; Supportive services in biotechnology, medical engineering, automation, digitalization; Supporting SMEs of the biotechnology and medical technology area in networking, investments, founding; Organising events: networking, information, trainings, regulatory, awards; Promoting dialogue between SMEs and RTOs from the biotechnology and medical technology sector. We have long lasting cooperations with different Cluster Organisations from the Netherlands, e.g. Interreg NWE projects and are partner of several interregional EU-funded projects: Boost4Health, Codex4SMEs, Blockstart, S^{3}martMed.

BioWin

Cluster Organisation

https://www.biowin.org

Joëlle Gahimbare, European Project Manager
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Gosselies, Belgium

Organisation Description

BioWin was created in July 2006 and today is the key reference in the field of health biotechnology and medical technologies in Wallonia (a region located south of Brussels, Belgium). The cluster brings together Walloon players who are involved, at every stage, in the research, development and production of innovative products and services: academic and clinical research laboratories, accredited research centers, large industrial groups, small and medium-sized enterprises (SMEs), service providers, engineering colleges and universities, business incubators, investors, policy makers and associated bodies.

Areas of Activity

- To support all aspects of R&I projects (national or EU level)
- To accelerate the international development for the following geographical area: Europe, USA, Canada, Asia Pacific and Israel
- To attract investors to sustain company growth
- To organize theme-based events
- To develop trainings and to advertize jobs
- To provide national and international visibility of members key messages

Lyonbiopole

Cluster Organisation

http://www.lyonbiopole.com

Emilie Romeo, Head of European Affairs
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Claudia Chagneau, R&D Project Manager, PhD
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LYON, France

Organisation Description

Lyonbiopole is positioned as a world class cluster, the one one-stop shop for healthcare innovation in the Region Auvergne Rhône-Alpes, France. Lyonbiopole gathers a community of more than 230 members including 6 world-class leaders as Lyonbiopole's founders (Sanofi, bioMérieux, Boehringer Ingelheim, BD, Fondation Mérieux and CEA), 15 intermediate companies and multinational corporation's subsidiaries, 17 research centers and 190 SMEs. One of the main missions of the cluster is to boost R&D collaborations between academics, SMEs and large companies, supporting the emergence of innovative projects and solutions, with a European dimension. Lyonbiopole is the coordinator of the S³martMed project and is happy to foster connection between regional innovative players in biotech and medtech fields.

Areas of Activity

To nurture, grow and support collaborative R&D programs at regional and EU levels (information about the calls, advice to build-up consortium and project application…)
To support SMEs in strategic partnerships for business development, access to private funds and investors, expertise
To encourage the internationalization of SMEs and the international influence of the region's ecosystem.

MedSilesia Cluster

Cluster Organisation

http://www.medsilesia.com

Izabela Czeremcha, Cluster Manager
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Gliwice, Poland

Organisation Description

MEDSILESIA - consists of 115 innovative companies, R&D units, hospitals, healthcare facilities and universities. MedSilesia Cluster concentrates on innovative technologies in the field of rehabilitation, surgery and orthopaedic tools, diagnostics and cardiology.
We are one of 15 Key National Clusters in Poland - the only one in medical products field.

Areas of Activity

Funding and Investment; MRI; Orthopaedics; Medical and health data analysis (big data); 3D (bio)printing; Endoscopy; Diagnostics; Laboratory / CRO; Production; Testing & Analysis; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); IoT; Cardiovascular; Rehab; Design / R&D / Engineering; Imaging; Operating technology, operating equipment; Surgical intruments; Oncology; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Artificial Intelligence; Artificial organs; (Bio-)materials; Service / Maintenance / Supply; Medical imaging machines (X-Ray, MRI, CT scan); Implants and prothesis; Regenerative Medicine; Telemedicine; Business Development

3d.FAB-ICBMS UMR5246

University

http://fabric-advanced-biology.univ-lyon1.fr/

Emma Petiot; Researcher
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VILLEURBANNE, France

Organisation Description

3d.FAB is the only French Plateforme Technologique Innovante dedicated to academic and private innovation through 3D printing, in the field of health. We have two main areas of expertise :
For biochemistry, especially diagnosis with prototyping 3D lab-on-chip, novel materials for 3D medical devices, biocompatible polymers and cell-size 3D printing.
For regenerative medicine through dedicated living cells and tissues printers.

Areas of Activity

Regenerative Medicine; Regenerative medicine;Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Laboratory technology; Laboratory / CRO; Ears/nose/throat; Design / R&D / Engineering; Artificial organs; (Bio-)materials; Implants and prothesis; Dermatology; Oncology; Tissue and molecular Diagnostic Devices and associated intruments (IVD kits, readers/instruments); 3D (bio)printing; Additive manufacturing; Hygiene, sterlilisation, disinfection; Laboratory technology; Operating technology, operating equipment;

3D-Side

SME

http://www.3dside.eu

Khanh TRAN DUY, Co-CEO
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Mont st Guibert, Belgium

Organisation Description

3D-Side provides medical companies with a web platform "Customize" (SaaS) to efficiently market custom-made devices. From images to 3D printing, it consists of smart tools for planning, communication with the medical team and supervision of the production & quality of patient specific implants and instruments.
Alongside this service, 3D-Side set up an ISO13485-certified workflow to market, two major products based on proprietary software, additive manufacturing technology and a strong knowledge in surgical field: custom cranial implants and instruments for complex bone surgery.

Areas of Activity

Surgical intruments; Aesthetic medicine; Cardiovascular; Dentristry; Ophtalmology; Implants and prothesis; Regenerative Medicine; Regulatory, MDR, IVDR; Service / Maintenance / Supply; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); 3D (bio)printing; Artificial Intelligence; Diagnostics; Neurology; Oncology; Regenerative medicine; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); Additive manufacturing; Ears/nose/throat; Orthopaedics; Design / R&D / Engineering; Production

Andramed GmbH

Manufacturer

http://www.andramed.com

Heinz Schade, Founder & President
✉ **hs@andramed.com**
Jessica Seiferth
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Reutlingen, Germany

Organisation Description

We are developing, manufacturing and distributing minimal massive medical devices, like Stents, Balloon catheters, different Retrieval Devices and Valvulotomes.

Areas of Activity

Material specialist; Implants and prothesis; Cardiovascular; Design / R&D / Engineering; Production; Sales & Distribution; Service / Maintenance / Supply; Implants and prothesis

ASE Optics Europe

SME

Lidia Briquets
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Barcelona, Spain

Organisation Description

ASE Optics specializes in optical design, engineering and development of custom systems integration and product development. ASE goes beyond optics: we offer integrated solutions for OEM customer products.
From concept to production, we achieve the stringent specifications required by high-end applications and unique requisites, end-to-end. With our vertically integrated engineering and assembly capability, we can deliver high quality and superior performance electro-optic and opto-mechanical systems
We design optical systems that improve reliability and performance. Our focus on optical engineering is based on the needs of our customers.

Areas of Activity	Other; Imaging;Surgical intruments; Dermatology; Diagnostics; Medical imaging machines (X-Ray, MRI, CT scan); CT scan; Laboratory technology; Readers/instruments; Ophtalmology; Others

Bioindustry park

Large Company

http://www.bioindustrypark.eu/

Sara Falvo, Technology Transfer and Business Development Coordinator
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Colleretto Giacosa, Italy

Organisation Description

Bioindustry Park "Silvano Fumero" promote and develop Life Sciences research and innovation by hosting and supporting companies, start-ups and research institutions. Bioindustry Park offers a full range of services aimed at the creation and development of life sciences and health care start-up and spin-off companies not only by providing laboratories and facilities, but also thought valuable scientific and business support services.
EX2O: consulting services in innovation management, technology transfer (EVOLUTO TT Initiative), exploitation strategy, start-up growth support (DISCOVERY NEXT program).
Business Development Services: we are active in providing business development support to Life Sciences start-ups, private companies and BioPmed associated companies to structure, accelerate and growth their business project. We support them in business model identification, writing a business plan, search for investors and funding, perform market analysis and product positioning, business intelligence, technology transfer, patentability, technology assessment and project managing. We also facilitate market access through our worldwide network.

Areas of Activity

IoT; Testing & Analysis; Regenerative Medicine; Business Development; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); Dentristry; Dermatology; Investment/ Financing; Laboratory / CRO; Tissue and molecular Diagnostic Devices and associated intruments (IVD kits, readers/instruments); Regulatory, MDR, IVDR; Medical and health data analysis (big data); Cardiovascular; Imaging; Regenerative medicine; Service / Maintenance / Supply; Drug delivery devices; Orthopaedics; Neurology; Design / R&D / Engineering; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Hospital information system; IVD kits;Wearbles; Diagnostics; Oncology; (Bio-)materials

Brom Epithetik

Manufacturer

http://www.brom-epithetik.de

Jörn Brom, General Manager
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Heidelberg, Germany

Organisation Description

Brom Epithetik since 2006 in Heidelberg.
In close cooperation with the attending surgeons and clinics we supervise and accompany our patients from the planning to the finished epithesis and beyond.
Our goal is the best possible and personalized epithetic care for the patient.
We attach great importance to the use of most modern materials and technologies. Cochlear's Vistafix 3 implant system, 3D technologies, digital skin color measurement and selected medical devices from Cosmesil.de are used.
Today, extraoral implants are state of the art!

Areas of Activity	Material specialist; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Implants and prothesis; Aesthetic medicine; Ears/nose/throat; Others; Components / Materials

CABIOMEDE Ltd.

SME

http://cabiomede.com

Mateusz Pawlik, Operations Manager
✉ **mateusz.pawlik@cabiomede.com**
Kielce, Poland

Organisation Description

CABIOMEDE was founded in 2016 by four Biomedical Engineering graduates. We are passionate about engineering design, numerical analysis and rapid prototyping technology.
We want to provide small and medium-sized companies advanced 'on demand' R&D services. Our clients do not have to build own R&D departments to have the access to the advanced technological background. Our mission is to help our clients grow and develop their products.
We offer a comprehensive combination of R&D services – from product designing, quality documentation and FEM analysis preparing, to verifying the results analyses by the prototype testing under real-world conditions and optimizing the production process.
Our main goal is to improve the quality of existing products on the medical market, as well as looking for some new advanced solutions of high technology.

Areas of Activity

Additive manufacturing; (Bio-)materials; Physiotherapy, orthopaedic tehnology; Testing & Analysis; Material specialist; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Implants and prothesis; Operating technology, operating equipment; Surgical intruments; Design / R&D / Engineering; Production; Other; CT scan

CARDIAGS

SME - Manufacturer

https://cardiags.com

Lakhdar ZEGADI, Technical Director
✉ **lkzegadi@gmail.com**
lyon 8eme arrondissement, France

Organisation Description

Medical device technology

Areas of Activity	ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); Design / R&D / Engineering;Testing & Analysis

Clinical Consulting

Research Organisation

http://www.clinicalconsulting.pl

Tadeusz Baron, CEO
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Maciej Nowotarski, Clinical Operations Manager
✉ maciej.nowotarski@clinicalconsulting.pl
Tychy, Poland

Organisation Description

The regulatory activities:
Country selection / local regulatory consultancy and timeline guidance; Preparation of clinical trial authorization applications; Liaison with local regulatory authorities, Institutional Review Boards, and Ethics Committees in EU countries and EMA agency; creation, preparation, execution, and maintenance of regulatory documents for submission to ethics committees, and regulatory authorities. Expedited study approvals; Local insurance policies; Applications for import license; Regulatory inspection support
Monitoring activities:
Research sites staff training; CRF review; Source data verification; Protocol compliance control; Regulatory requirements compliance control; IP/IMD inventory and accountability; Safety review; Documentation maintenance and update; Remote monitoring in EDC studies; Regular contacts with sites between on site visits

Areas of Activity

Laboratory technology; Cardiovascular; Infectious disease; Service / Maintenance / Supply; Testing & Analysis; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); Regulatory, MDR, IVDR; Oncology; Ophtalmology; Investment/ Financing; Urolgynecology; Intense medicine, anestesiology, respiration; Medical and health data analysis (big data); Business Development; Aesthetic medicine; Ophtalmology; Laboratory / CRO; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Tissue and molecular Diagnostic Devices and associated intruments (IVD kits, readers/instruments); Design / R&D / Engineering; Dermatology; Metabolic disorder; Orthopaedics; Gastroenterology; Infectious disease; Neurology

Colugo GmbH

Consulting

http://www.colugo.ai

Johannes Stelzer, CEO
✉ **stelzer@colugo.ai**
Tübingen, Germany

Organisation Description

Colugo aims to bring cutting-edge methods from research in artificial intelligence to practical application within companies. We offer services ranging from building an AI strategy to hands-down implementation of AI methods.

Areas of Activity	Imaging data analysis; MRI; Design / R&D / Engineering; Medical imaging machines (X-Ray, MRI, CT scan); Artificial Intelligence; CT scan; IoT;X-Ray; Business Development; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system)

EPflex Feinwerktechnik GmbH

Manufacturer & Consulting

Senta Schauer; Manager R&D
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Fabiano Fieramonte
✉ **fabiano.fieramonte@epflex.com**
Dettingen an der Erms, Germany

Organisation Description

As one of the global innovation leaders, we develop and produce guidewires, stone baskets and accessories of the highest quality for minimally invasive medicine. Individually tailored to the specific needs. With our innovative ideas and solutions, we help to safeguard people's health. OEM manufacturer for medical devices used for minimalinasive surgeries.

Areas of Activity

Material specialist; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Cardiovascular; Gastroenterology; Neurology; Urolgynecology; Design / R&D / Engineering; Production Testing & Analysis; Sales & Distribution; Diagnostics;

Foundation of Cardiac Surgery Development

Research Organisation

https://frk.pl/

Maciej Gawlikowski, Chief of the Research Laboratory
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Przemyslaw Kurtyka, Specjalist in the Research & Technology Laboratory
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Zabrze, Poland

Organisation Description

The Foundation of Cardiac Surgery Development has implemented a well-developed, funded by own funds training-scholarship programme in the field of cardiosurgery since its inception, the objective of which is to improve professional qualifications of medical practitioners in Poland and abroad, especially in Eastern European countries. Topics of the programme include, i.e.: artificial heart, artificial heart supporting ventricles, biological heart valves, surgery techniques used in selected cardiosurgery operations, paediatric cardiosurgery, cooperation in the field of cardiosurgery and coronary heart disease treatment.

Main directions of our activity:

- *Studies on heart prostheses,*
- *Studies on heart valve prostheses,*
- *Studies on biocybernetics,*
- *Studies in the field of modern biotechnology.*

Areas of Activity

Material specialist; Laboratory technology; Regenerative Medicine; Surgical intruments; Testing & Analysis; Medical and health data analysis (big data); Operating technology, operating equipment; Telemedicine; Rehab; Production; Design / R&D / Engineering; Laboratory / CRO; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); 3D (bio)printing; Additive manufacturing; (Bio-)materials; Components / Materials; Cardiovascular; Regenerative medicine; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Artificial organs; Hospital information system; Hygiene, sterlilisation, disinfection; Implants and prothesis

Fraunhofer IPA-PAMB

Research Organisation

https://pamb.ipa.fraunhofer.de/

Johannes Horsch, Group Manager
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Mannheim, Germany

Organisation Description

The Project Group for Automation in Medicine and Biotechnology (PAMB) of Fraunhofer at the Medical Faculty Mannheim, University Heidelberg, was set up by the state of Baden-Württemberg and Fraunhofer to develop new ideas for automation in medicine and biotechnology.

Areas of Activity

Ears/nose/throat; Neurology; Oncology; Design / R&D / Engineering; IoT;Additive manufacturing; Artificial Intelligence; CT scan; Endoscopy; Cardiovascular; Testing & Analysis; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Operating technology, operating equipment; Surgical intruments; Gastroenterology; MRI; Urolgynecology; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system)

Fraunhofer IPA

Research Organisation

Patrick Springer
✉ **patrick.springer@ipa.fraunhofer.de**
Stuttgart, Germany

Organisation Description

Applied research in the field of manufacturing, engineering and automation
Specifically additive manufacturing technologies

Areas of Activity	3D (bio)printing; Funding and Investment; Production

Herniamesh

SME

http://www.herniamesh.com/en/

Alessandra Lo Moro, R&D
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Chivasso, Italy

Organisation Description

Is an Italian company which, through its worldwide distribution network, produces and markets medical devices for inguinal and abdominal hernioplasty, for the treatment of the dysfunctions in the pelvic floor and for the treatment of pressure ulcers.

Areas of Activity

Business Development; 3D (bio)printing; Endoscopy; Operating technology, operating equipment; Surgical intruments; Material specialist; Urolgynecology; Sales & Distribution; Production; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); (Bio-)materials; Regenerative medicine; Design / R&D / Engineering; Additive manufacturing; Implants and prothesis

Intuity Media Lab GmbH

Service Provider
http://intuity.de

Albert Linder, Senior Thoracic Surgeon
✉ **dr.a.linder@gmail.com**
Stuttgart, Germany

Organisation Description

Intuity stands for creating new meaning, new business models and user experience. We help organizations and startups to prototype and develop new products and services that fascinate people. Emerging technologies embedded in a carefully considered view of the world, our resources and our needs lead to new solutions that don't exist yet.
Our teams have a deep knowledge of the industry. We are innovation and implementation partner for next generation business models, products and services. We love to develop market opportunities and craft excellent user experiences.

Areas of Activity	Infectious disease; Others; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); 3D (bio)printing; Surgical intruments; Artificial Intelligence; Laboratory technology; Design / R&D / Engineering

Kardio-Med Silesia

Research Organisation

http://www.en.kmptm.pl

Kamila Luft, Head of The Project Coordinators Team
✉ **k.luft@kmptm.pl**
Zabrze, Poland

Organisation Description

Kardio-Med Silesia is a modern scientific research centre meeting the highest European standards established on September 21st, 2015.
In Kardio-Med Silesia Medical Technology Park we have created facilities and a friendly environment for the development of science and innovative technologies as well as favourable conditions to support initiatives for increase of entrepreneurship region- and countrywide. Thus, we have established the following units: Centre for Medical Technology Development, Regenerative Medicine and Isolated Tissue and Organ Laboratory, Genomics Laboratory, Cell and Tissue Bank, Test and Implementation Laboratory of New Technologies and Medical Devices, Laboratory of Environmental and Civilizational Hazards, Laboratory of Isolated Organs, Knowledge and Education Platform, Telemedicine Laboratory and Center, and Kardio-Med Silesia Clinic Complex.

Areas of Activity

Telemedicine; Design / R&D / Engineering; Laboratory / CRO; Testing & Analysis; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); 3D (bio)printing; Artificial organs; (Bio-)materials

Meidrix Biomedicals GmbH

Manufacturer

http://www.meidrix.de

Jasmin Welzel, Research Assistant
✉ **j.welzel@meidrix.de**
Esslingen am Neckar, Germany

Organisation Description

Meidrix is a medical bioengineering company which develops innovative collagen based implants for cartilage regeneration. Our novel products are cell-free medical devices for the treatment of cartilage defects with just one surgical procedure.

Areas of Activity	Design / R&D / Engineering;Production; (Bio-)materials; Implants and prothesis; Orthopaedics; Components / Materials

NMI Natural and Medical Sciences Institute at the University of Tübingen

Research Organisation

http://www.nmi.de

Simon Werner, Engineer
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Reutlingen, Germany

Organisation Description

The NMI is a member of the Innovation Alliance Baden-Württemberg. It is involved in application-oriented research at the interface between the life sciences and material science. An interdisciplinary team of scientists is developing new technologies for companies and public research sponsors in the areas of pharma and biotechnology, biomedical technology, and surface and materials technology.

Areas of Activity

Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); (Bio-) materials; Implants and prothesis; Laboratory technology; Others; Material specialist; Components / Materials; Design / R&D / Engineering

NPS NanoPolymerSolutions
University

Manuel Hermann, Founder
✉ **manuel.hermann@kit.edu**
Norbert Schneider
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Eggenstein Leopoldshafen, Germany

Organisation Description

NanoPolymerSolutions is a startup project dedicated to the development and distribution of microoptical components primarily for medical applications. To this end we employ our patented replication process to quickly fabricate structures previously only known from 3D printing.

Areas of Activity	3D (bio)printing; Endoscopy;Imaging; Sales & Distribution; Medical imaging machines (X-Ray, MRI, CT scan); Additive manufacturing; Business Development; Components / Materials; Design / R&D / Engineering;Production

Ovesco Endoscopy AG

Research Organisation

http://www.ovesco.com

Leif Lehner, Technician in Prototyping
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Tübingen, Germany

Organisation Description

Ovesco Endoscopy AG was founded by a group of scientists and physicians. They use their knowledge and research in the field of modern endoscopic and surgical gastrointestinal therapy for the development of innovative products. Our core competence is the development of endoluminal procedures and technologies that bring significant benefits to patients and users in the treatment of gastrointestinal disorders. Our employees strive to develop and deliver innovative products of outstanding quality and exceptional value to the customer.

Areas of Activity	Laboratory / CRO; 3D (bio)printing;Additive manufacturing;Endoscopy

Politecnico di Torino

University

http://www.polito.it

Gabriella Balestra, Research Assistant Professor
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Torino, Italy

Organisation Description

The research at the Electronics and Telecommunication Department – Politecnico di Torino is focused on bioengineering and in particular on the use of machine learning and computational intelligence methods to the analysis and interpretation of biomedical data, signals and medical images; the design and development of medical software; clinical process modelling; telemedicine.

Since the 90s the Electronics and Telecommunication Department supports technology transfer in the fields of biomedical instrumentation and medical informatics.

Areas of Activity

Medical and health data analysis (big data); Telemedicine; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); Artificial Intelligence; Imaging data analysis

PolyMedics Innovations GmbH

Manufacturer

https://polymedics.de

Helmut Hierlemann, Dr., Technical Director , CSO
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Svenja Hinderer
✉ **hinderer@polymedics.de**
Denkendorf, Germany

Organisation Description

PolyMedics Innovations (PMI) is a R&D-driven specialist in innovative biomaterials for the effective treatment of wounds. PMI is an owner-managed German medium-sized Company headquartered in Denkendorf, Germany with a subsidiary in Atlanta, USA. Distribution covers over 30 markets globally. PMI's state-of-the-art manufacturing plant is located in Germany.

Areas of Activity

Artificial organs; Funding and Investment; Regenerative medicine; Design / R&D / Engineering; Laboratory / CRO; Production; Sales & Distribution; Service / Maintenance / Supply; 3D (bio)printing; Drug delivery devices; Implants and prothesis; Dentristry; Infectious disease; Material specialist; (Bio-)materials; Aesthetic medicine; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Dermatology; Business Development; Investment/ Financing; Testing & Analysis

Revolve - Med Software House

SME

https://revolve.pro/

Przemyslaw Grzywa, Co-founder
✉ **przemyslaw.grzywa@gmail.com**
Katowice, Poland

Organisation Description

Revolve is a growing software development company based in Katowice, Poland. We design, build and supervise the development of digital products. We provide dedicated development teams to build, develop and maintenance tech products.
We are offering also CTO consultancy and project management throughout the whole development process from the planning of the architecture design and choice of technology, through development to product launch and maintenance.
Our developers specialize in JavaScript and Python-related technologies.
Revolve specializes right now in the medical industry to become a top of the mind provider of software technologies in the health-care environment. We have experience in image processing, IoT integrations and machine learning.

Areas of Activity	IoT; Design / R&D / Engineering; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); Artificial Intelligence; Imaging; Imaging data analysis

Reutlingen University

University

https://biomat.reutlingen-university.de/about-us/about-us-smart-biomaterials-group/

Franziska Atzinger, Scientific Research Assistant
✉ franziska.atzinger@reutlingen-university.de
Reutlingen, Germany

Organisation Description

Our Team - supervised by professor Petra Kluger - is part of the research group Smart Biomaterials located at Reutlingen University. We focus on skin and fatty tissue engineering and therefore research in third-party funded tissue engineering projects at the Reutlingen Research Institute. As commonly used fabrication technique we established 3D bioprinting with different materials to build up our cellular models.

Areas of Activity	3D (bio)printing; Regenerative Medicine

Silesian University of Technology, Faculty of Biomedical Engineering

University

http://www.polsl.pl

Ewaryst Tkacz, titular professor; Ph.D., D.Sc., Eng., department chair

✉ **etkacz@polsl.pl**

Zabrze, Poland

Organisation Description

Silesian University of Technology is one of the largest technical universities in Poland located in the south part of the country currently teaching more than 25000 students altogether at 14 faculties. Faculty of Biomedical Engineering is the youngest one with only 8 years of experience but with full academic rights to lead both Ph.D. and habillitation (D.Sc.) procedures. Faculty consists of 4 departments: 1. Informatics and Medical Equipment; 2. Biomaterials and Medical Devices Engineering; 3. Biomechatronics; 4. Biosensors and Biomedical Signals Processing and therefore covers the whole spectrum of biomedical engineering.

Areas of Activity

Regenerative medicine; Artificial Intelligence; Hospital information system; Medical and health data analysis (big data); Regenerative Medicine; Gastroenterology; Artificial organs; Pacemakers; Wearbles; Cardiovascular; Neurology; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Imaging; Telemedicine; Genetics medizin; Imaging data analysis; Implants and prothesis;Testing & Analysis

SHS Gesellschaft für Beteiligungsmanagement mbH

Investment/Financing

http://www.shs-capital.eu/en/

Andre Zimmermann, Partner
✉ **az@shs-capital.eu**
Tuebingen, Germany

Organisation Description

SHS is one of the leading healthcare growth investors in Germany and has launched five generations of funds since its foundation and invested in over 50 companies. Investments are currently being made by the fourth and fifth generations of funds. The latest fund, SHS V, is still open for subscription until end of June 2019.
We do invest in young, high-growth companies as well as realize small buyouts and growth financings of established companies.

Areas of Activity

Additive manufacturing; Artificial organs; Hygiene, sterlilisation, disinfection; Regenerative Medicine; 3D (bio)printing; Endoscopy; Surgical intruments; Implants and prothesis; Pacemakers; Investment/ Financing; Operating technology, operating equipment; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); (Bio-)materials;IoT;Medical and health data analysis (big data); Funding and Investment; Imaging data analysis; Physiotherapy, orthopaedic tehnology; Telemedicine; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Tissue and molecular Diagnostic Devices and associated intruments (IVD kits, readers/instruments); Imaging; IVD kits; Artificial Intelligence; Laboratory technology; Wearbles; X-Ray; Drug delivery devices; Hospital information system; Intense medicine, anestesiology, respiration; Readers/instruments

Steinbeis 2i GmbH

Consulting

http://steinbeis-europa.de

Hartmut Welck, Senior Project manager
✉ welck@steinbeis-europa.de
Stuttgart, Germany

Organisation Description

Steinbeis2i GmbH is part of the Steinbeis network for technology transfer with over 700 centres. The core activities within the Innovation System of Baden-Württemberg comprise, among others: a) assisting industrial companies in participating in European R&TD; b) promoting cross-border technology transfer; c) stimulating and supporting the innovation process in industrial companies; d) supporting the regional key players (regional development agencies etc.) in getting involved in trans-national networks; e) supporting trans-national initiatives of the region for good practice exchange in innovation issues like entrepreneurship, business succession, women entrepreneurship, incubators and start-up support from universities; f) supporting lean innovation management and strategies for companies (SMEs) (Design thinking, Scrum..) g) supporting the establishment and internationalization of networks and clusters.

Areas of Activity	Business Development

Toray Industries, Inc.

Manufacturer

http://www.toray.com

Kazuhiro Tanahashi, Senior Research Associate
✉ **kazuhiro.tanahashi.r7@mail.toray**
Otsu, Japan

Organisation Description

Manufacturing, processing and sales of Fibers and Textiles, Performance Chemicals, Carbon Fiber Composite Materials, Environment and Engineering and Life Science.

Areas of Activity

Implants and prothesis; Cardiovascular; Oncology; Design / R&D / Engineering; Gastroenterology; Infectious disease; Regenerative medicine; Material specialist; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); 3D (bio)printing; Artificial organs; (Bio-)materials

TU Darmstadt

University

Johannes Bilz
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Darmstadt, Germany

Organisation Description

Research on parallel kinematic based single-port-surgical Robot with haptic force and tactile feedback. Project FLEXMIN is founded by DFG.

Areas of Activity

Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); Additive manufacturing; Operating technology, operating equipment; Others; Design / R&D / Engineering

University Hospital Tübingen

University

Erich Theuer, Prof. Dr.-Ing. habil.
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Tübingen, Germany

Organisation Description

University of Tuebingen

Areas of Activity

Imaging data analysis; Oncology; ICT for health / Digital health (telemedicine, IoT, medical and health data analysis (big data), imaging data analysis, hospital information system); CT scan; Funding and Investment; Medical and health data analysis (big data); Orthopaedics; Design / R&D / Engineering; Medical therapeutic devices (surgical intruments, pacemakers, artificial organs, drug delivery devices); 3D (bio)printing

Benefit from S^{3}martMed network

The S^{3}martMed partners objective is to encourage interregional / European collaboration projects (R&D, business collaborations). To this purpose we remind you the partners are at your disposal for further matching of competences, or information about funding opportunities:

For your information, in each region of the cluster partners, some regional funding schemes exist and are open to R&D collaborations between different EU players. Don't hesitate to contact us to get further information.

We remind you also that the last Horizon 2020 Health calls that are currently open can be a great opportunity to initiate European cooperation.

Here is the list for future calls:

- SC1-DT-TDS-05-2020: AI for Health Imaging (deadline November 13, 2019)
- SC1-DTH-02-2020: Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies (deadline April 22, 2020)
- SC1-DT-TDS-04-2020: AI for Genomics and Personalised Medicine (deadline April 22, 2020)
- SC1-DTH-12-2020: Use of Real-World Data to advance research on the management of complex chronic conditions (deadline April 07, 2020)
- DT-ICT-12-2020: AI for the smart hospital of the future (deadline April 22, 2020)
- ID: NMBP-21-2020: Biological scaffolds for tissue regeneration and repair (RIA) (deadline 14 May 2020)

Contacts

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Web www.bioindustrypark.eu, www.bioPmed.eu

BioRegio STERN Management GmbH
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70174 Stuttgart
Germany

Phone +49 711 87 03 54 32
Email altintoprak@bioregio-stern.de
Web www.bioregio-stern.de/de

BioWin, the Health Cluster of Wallonia
Rue Auguste Piccard, 20
6041 Gosselies
Belgium

Phone +32 470 968 218
Email Joelle.gahimbare@biowin.org
Web www.biowin.org

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44-100 Gliwice
Poland

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