



Consiglio Nazionale delle Ricerche
IFC - Istituto di Fisiologia Clinica

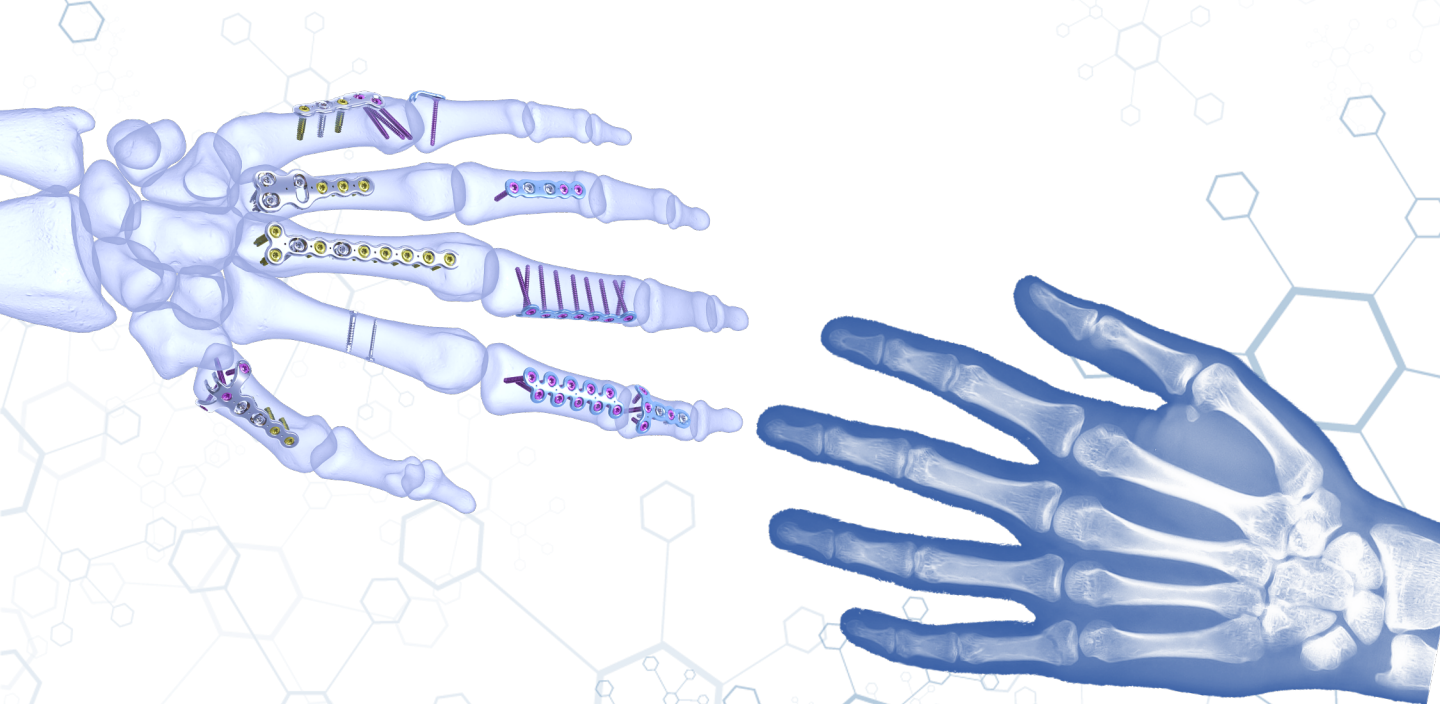


Marie Skłodowska-Curie
Actions

MgSAFE

FINAL MEETING 2019-2022

Multimodal imaging of magnesium degradable implants



General Assembly
26th -29th April 2022
Pisa

Friday, 26th April 2022

9:20-16:30	<i>ESR day activities</i>	ESRs
16:30	End of Activities	

Wednesday, 27th April 2022

09:00 – 09:15	Welcome and introduction to the meeting	RWR, LM
09:15 – 09:45	In vivo Characterization of Designated Magnesium Materials by μ CT and Fluorescence Imaging in Rats	Begüm Okutan MUG
09:45 – 10:15	Large animal in vivo characterization of designated full size magnesium implants by clinical CT and μ CT in a juvenile sheep model	Romy Marek MUG
10:15 – 10:45	In vivo evaluation of biomaterials for bone regeneration applications using advanced imaging techniques	Maryam Rahmati UiO
10:45 – 11:15	<i>Coffee Break</i>	
11:15 – 11:45	Magnesium based implants: Molecular and structural analysis during bone healing and soft-tissue inflammation	Heithem Ben Amara UGOT
11:45 – 12:15	In vitro and in vivo imaging methods for magnesium implants: functional parameters of degradation and inflammation	Christina Yiannakou MHH
12:15 – 12:45	PET and USPA imaging of implant-associated wound healing biomarkers	Leon Riehakainen CNR-IFC
12:45 – 14:30	<i>Lunch Break</i>	All
14:30 – 15:00	Systemic markers of inflammation and bone regeneration	Eduarda Silva CNR-IFC
15:00 – 15:30	In vitro and In vivo monitoring of implants by Near-infrared Spectroscopy	Hafiz Wajahat Hassan OsloMet
15:30 – 15:45	<i>Coffee Break</i>	
15:45 – 16:45	Regulatory aspects in magnesium implants development and port marketing surveillance	Eng. Piero Costa
16:45 - 18:45	Time for paper writing, discussions, round table	All
19:00	End of Day	
20:00	<i>Dinner</i>	PI's and Invited Speakers

Thursday, 28th April 2022

09:00 – 09:30	In vitro and in vivo assessment of the degradation interface of biomedical Mg-based devices	Diana Martinez WUT
09.30 – 10:00	High-resolution 3D imaging of degradation and osseointegration of Mg-based implants	Hanna Ćwieka Hereon
10:00 – 10:30	The influence of the Mg-based implant degradation on the bone ultrastructure	Kamila Iskhakova Hereon
10:30 – 11:00	Towards an advanced tool for the management of multimodal data	Marwa Chaabane SCANCO
11:00 – 11:30	<i>Coffee Break</i>	
11:30 – 12:00	Safety considerations and RF Antenna developments for MRI of biodegradable implants	Mostafa Berangi MRI.Tools
12:00 – 12:30	From bench side to clinic	Jonathan Espiritu Syntellix AG
12:30 – 13:00	High-resolution ultrasound and photo acoustic imaging: en route to clinics	Valeria Grasso VSI FujiFilm
13:00 – 14:30	<i>Lunch Break</i>	
14:30 – 16:00	Common Supervisory Board and Scientific Advisory Board Meeting <ul style="list-style-type: none"> • Welcome and decision on agenda (R. Willumeit-Römer) • Report of the coordinator (R. Willumeit-Römer) • Overview milestones and deliverables (K. Philipp) • AOB 	SB, SAB
14:30 – 18:00	Time for paper writing, discussions...	ESRs

Friday, 29th April 2022 – Workshop

9:00-18:00	<i>New trends in high resolution pre-clinical molecular imaging</i>	All
20:00	Social Dinner- <i>Grand Hotel Duomo</i> (Dress code: Cocktail)	ESRs

Abbreviations:

ESR	- Early Stage Researcher, PhD student
RWR	- Regine Willumeit-Römer
LM	- Luca Menichetti

Consortium Members:

Hereon	- Helmholtz-Zentrum Hereon, Germany
CNR-IFC	- Consiglio Nazionale delle Ricerche, Italy
MUG	- Medizinische Universität Graz, Austria
UiO	- Universitetet i Oslo, Norway
OsloMet	- Oslo Metropolitan University, Norway
MHH	- Medizinische Hochschule Hannover, Germany

UGOT	- Sahlgrenska Academy at University of Gothenburg, Sweden
WUT	- Warsaw University of Technology - Politechnika Warszawski, Poland
MRI.T	- MRITools GmbH, Germany
SYN	- Syntellix AG, Germany
SCANCO	- Scanco Medical AG, Switzerland
VSI	- FujiFilm Sonosite B.V, The Netherlands

Partner Organisation:

BRI.T	- BRI.Tech – BioResorbable Implant Technologies, Austria
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Consortium Members



Consiglio Nazionale delle Ricerche
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UiO : **University of Oslo**



UNIVERSITY OF GOTHENBURG



Medical University of Graz



Hannover Medical School

**Warsaw University
of Technology**

OSLOMET



Helmholtz-Zentrum
hereon



MRI.TOOLS GmbH
innovations for medical imaging

SCANCO MEDICAL

FUJIFILM
Value from Innovation

SONOSITE