



MEDICIS-Promed Final Conference 2nd Circular



Invited(Speakers

Accelerator techniques for medical isotope production: Dr. FORTON, Eric (IBA, Brussels, BE)

Devices and Engineering for Radioisotope Handling:
Dr. CUTLLER, Cathy (Brookhaven National laboratory, New York, USA)

Methods for production of novel radioisotopes for theranostics: Prof. HADDAD, Ferid (Arronax, Nantes, FR)

Prof. SEVERIN, Gregory (MSU, Michigan, USA)

Radioisotope beams in hadron therapy.
Dr. KITAGAWA, Atsushi (NIRS, Chiba, JP)
Prof. DURANTE, Marco (GSI, Darmstadt, DE)

Dr. KERSHAW, Keith (CERN, Geneva, EU)

Preclinical research and development of new radiopharmaceuticals Dr. BORGNA, Francesca (PSI, Villigen, CH) Prof. HABERKOM, Uwe (University of Heidelberg, DE)

Molecular imaging and immunotherapy in patients with cancer Prof. De VRIES, Elisabeth (BNL, Groningen, NL)



Important(dates(

- Start of registration and Hotel reservation: 21st January 2019
- Deadline for Contributed Abstracts: 28th February 2019
- Notification of abstract acceptance: 28th March 2019
- Early Bird Registration fees deadline: 31st March 2019
- Deadline for Registration: 15th April 2019
- Deadline Proceedings submission: 15th September 2019

Participation Fee

Categories(Payment before(March,(31st 2019	Payment after(March,(31st 2019
Students/Post- docs	500€	600€
Regular participants	700€	800€
Accompanying persons	600€	600€

Conference(Secretariat

Cristina Ferrari

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http://medicis-promed.web.cern.ch

MEDICIS' Promed a/project from the/European Union's Horizon/2020/research and/innovation/programme/under Grant/Agreement/No./642889./







Report from MEDICIS Collaboration







2nd Collaboration board - 3rd October 2018

Participants:

Present:

Frédéric Bois (replaces Martin Walter), Geneva University Hospitals (HUG)

Manuela Cirilli, Knowledge Transfer - Medical Applications, CERN

Thomas Cocolios, Professor, KU Leuven

Clemens Decristoforo, Professor, Innsbruck Medical University

Valentin Fedosseev, EN-STI-LTP, CERN

Ferid Haddad, Director, GIP Arronax

Simone Gilardoni, EN-STI Group Leader, CERN

Dante Gregorio, FAP-External Funding, CERN

Gerda Neyens, ISOLDE Spokeperson, CERN

Alice D'Onofrio (replaces Antonio Paulo), MEDICIS-Promed Early Stage

Researcher, C2TN IST Lisbon

Joao Pedro Ramos, MEDICIS Run Coordinator, CERN

Jan Pruim (replaces Wim Oyen), EANM

Nathalie Michel, GIP Arronax

Fabio Pozzi, HSE-Radiation Protection, CERN

Maija Radzina, Rīga Stradiņš University (RSU)

Vitālijs Skrīvelis, Rīga Nuclear Medicine Centre

Ilmārs Stonāns, Rīga Stradiņš University (RSU)

Thierry Stora, MEDICIS Project Leader, CERN

Nick Van der Meulen, Paul Scherrer Institut

Nhât-Tân Vuong, MEDICIS-Promed Early Stage Researcher, CERN & EPFL

By remote connection:

Roberto Formento Cavaier, MEDICIS-Promed Early Stage Researcher, GIP

Arronax, AAA, Univ. Nantes

Ulli Köster, Institut Laue-Langevin, Grenoble

Peter Ivanov, National Physics Lab, UK

Carlos Salgado García, FABIS

John Prior, Lausanne University Hospital CHUV

José Sánchez Segovia, FABIS

MoU signed by principal partners RSU has joined Discussions on implications for isotope use in clinics (MEDICIS is not GMP)

(input from Prof De Cristoforo)







2(3) projects concluded- 3 New projects approved

Concluded: MED011 – R. Formento (169Er from ILL) & MED007 T. Cocolios (S. Stageman 11C)

MEDICIS-Promed ; MED006 (contest → video for Promed : done)

New Projects:

MED-014 - Guy Bormans, SCK-CEN

Labeling of heat-sensitive biomolecules with terbium radionuclides for imaging and treatment of (micro)metastatic CEA-positive colorectal cancer: selecting the optimal match between chelator and radiometal

Request: 4-6 deliveries of 200 MBq per delivery of 155Tb over 1 year.

MED-015 - Maija Radzina, Riga Stradins university

44Sc production with 18MeV cyclotron and study of scandium-labeled peptide based ligands for clinical use

Request: 44Sc and 47Sc / 47Sc Approved

MED-016 - Carlos Salgado-Garcia, Huelva

Theranostic radiolabelled nanoparticles for ovarian cancer by folate receptor targeting

Request: 149Tb, 155Tb / 149Tb unlikely during LS2







2nd MEDICIS Collaboration Board – 3rd October 2018

CERN Long Shutdown 2 (LS2)

MEDICIS is probably one of the few facilities at CERN that runs during LS2

- 169Er from ILL in Grenoble
- 152,155Tb from Arronax in Nantes
- ⁴⁷Sc from NMC in Riga

Operation of 1 to 2 weeks per month

Plan of 2 technical stops – for maintenance and upgrades

MELISSA, radiochemistry, others...





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MEDICIS Technical Stops

Follow CERN facilities Schedule

Plan technical stops, commissioning and operation phases

Technical stop 1

07/01/2018 -> 01/03/2018

- Laser installation and commissioning
- Gas system upgrade (molecular beams)
- Separator magnet upgrade
- Radiochemistry fume hood installation
- Targets to ISR
- Frontend maintenance





EN J. P. Ramos | 6th of December 2018 STI ISOLDE Workshop and Users meeting 2018

7th Supervisory Board

Technical stop 2

(TBD)

- Thermocouple controls install
- Gas system controls install
- Collection chamber vacuum upgrade
- Laser 2nd set of optics installation
- Tasks not done from technical stop 1

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Initial discussions INFRA-2-2020 call 1st Meeting at CERN 14th Jan 2018

Information EU project office CERN +

Research Infrastructures activities in Horizon 2020

Work Programme 2018-2020

Philippe Froissard
Deputy Head of Unit
Research Infrastructures Unit
European Commission - DG Research & Innovation







Idea to create a community around facilities for medical isotopes by mass separation



Call 3 – Integrating and opening RIs of European interest

To open up key national and regional research infrastructures to all European researchers and to ensure their optimal use and joint development:

Emphasis on sustainability, widening, skills, innovation and data management in compliance with the EOSC

- 1. Integrating activities for Advanced communities
- 2. Integrating activities for Starting communities (2020)
- 3. Pilot for a new model of IA: new ways for opening and integrating at EU level RIs of European interest (2020)



RI Communities never supported for their integration under EU FPs

- ➤ Two-stage call: 1st stage 2019, 2nd 2020. Bottom-up approach
- Emphasis on networking, standardisation and common access procedure, complementarity and coherence with the existing European RI landscape

Research Infrastructures	2018	2019	2020	Total	Single grant	Deadlines
CALL H2020-INFRAIA-2018-2020	101.5	125	155	381.5		
INFRAIA-01: IA - advanced communities	101.5	125		226.5	lln to 10 M€	22 Mar 2018 20 Mar 2019
INFRAIA-02: IA – starting communities			155	155	IID to 5 ME	end 2019 + mid 2020
INFRAIA-03: Pilot for a new model of IA						mid 2020

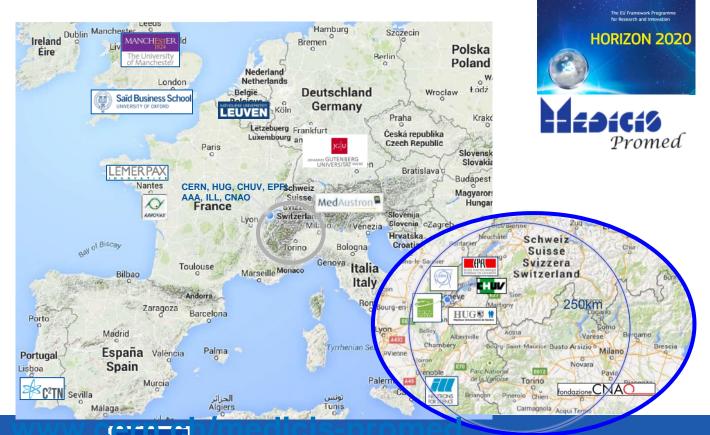
5MiEuro →budget for ~ 30 projects (split between H2020-02 and -03 ?)







The MEDICIS-Promed network











Initial discussions -

Non-conventional medical radioisotopes by mass separation in Europe

INFN-ISOLPHARM (IT 2021): 40 MeV mass separation

ILL (FR/EU) : high flux reactor

ARRONAX (FR): 70MeV no mass sep

Institute for Energy Technology (NO): cyclotron, no mass sep

Poland or Latvia (not asked, but likely to accept)

JRC-Karlsruhe (EU) : alpha isotopes generators

ISOL@Myrrha (BE)









Thierry Stora, CERN

11 Jan 2019

12020 proposal preparation

For the preparation of a proposal, SOPROM will support you in the project conception and the construction of the consortium. We will write parts of the proposal, of er practical help with the administrative expects of the project and help you address the research policies that are at the origin of the targeted call. SOPROM will assist you in turning your ideas into a proposal of highest quality which will be very well written and presented and which fulf is all the various EC requirements.

Typical SCIPROM services for the preparation of a collaborative project are given along the proposal structure. Our definite service of er will be developed in conjunction with the consortium.

Proposal Part A

Form A1: General information

Completion of formal parts, proposal of relevant keywords, comments on abstract.

Forms A2: Participants

Verif cation or collection of administrative data of all partners

Forms A3: Budget

Completion of forms with budget agreed by all.

Proposal Part B

Whole proposal

 Customised template of full proposal, professional layout & consistent formatting, adaptation to formal EC requirements, proof-reading in style and content, compilation of the individual parts of the proposal.

Section 1 - Excellence

Objectives, relation to the work programme, concept and approach, ambition:
 Support in conception and structure, readability, verif cation of relevance to the call, novelty, and focus. Repearation and/or revision of tables, if gures and schemes (customised tables, illustrational f gures for objectives and SOTA parts, schematic view of proiect concept).

Section 2 - Impact

 First draft identifying the main lines of argumentation. Finalisation based on partner contributions (specific impact, communication strategy, dissemination channels, exoloitation tracks, IPR rules and agreements).

Sciprom, located in Lausanne (former colleagues in physics and Biochemistry)

Related services

- Budget preparation
- Schedule and to do lists
- Internal communication tools (contact details, mailing lists, wiki-type website, f le repositories).
- Bectronic submission of proposal parts A and B.
- Consulting: legal aspects (IPR handling, letters of intention, conf dentiality agreements), building of consortium, EC funding rules.

+41 21 694 04 10 info@sciprom.ch www.sciprom.ch SCIPROM Rue du Centre 70 CH-1025 St-Sulpice channels, exploitation tracks, IPR rules and agreements).

Section 3 - Implementation

- 3.1 Work plan—Work packages, deliverables and milestones. Support in work plan strategies. Templates for all tables. Oustomised work package (WP) tables, PERF-like chart, Gantt chart. Drafts for WPs Management and Dissemination.
- 3.2 Management structure and procedures Proposal of management structure adapted to the project, complete draft of section. Conception of risk management and related table
- 3.3 Consortium as a whole: Draft description of consortium incl. f gures and tables, completion of section based on consortium input.
- . 3.4 Resources to be committed: Draft based on budget as agreed by all.

Section 4 - Members of the consortium

- 4.1 Individual participants: Template for partner descriptions, revision of descriptions provided by partners; gender statistics.
- 4.2 Third parties: Compiling information provided by partners

Section 5 - Ethics and security

Completion of ethical issues table. Assistance in identifying ethical issues. If
ethical issues apply, advice on how to tackle them and f rst draft of section to be
completed by partners.







Structuring as TNA, NA, JRA

- Past experience with ENSAR, ERAMMIT
- Structuring as TNA (Transnational Access, Networking Activity, Joint Research Activity)
- How to fit in 11C for hadrontherapy (JRA, NA?)









MEDICIS-Promed a project from the European Union's Horizon2020 research and innovation programme under Grant Agreement No.642889





