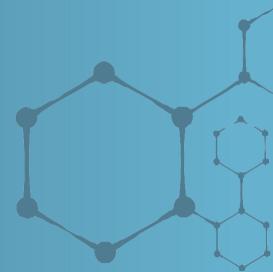






MEDALIS CALL For Research Proposals

2024



Instruction for Author

The Strasbourg Drug Discovery and Development Institute (IMS) is based on 3 pillars federating research activities (Medalis), training (EURidis) and innovation / technology transfer (INEdis), all centered on the discovery and development of new drugs.

Twelve academic research teams form the IMS, each providing conceptual and technological bases for therapeutic innovation and having demonstrated previous activity of valorization / transfer. Thanks to a recognized fundamental research activity and an integral part of national and international networks, IMS aims to develop finalized projects from the entire Strasbourg scientific community, ranging from in silico studies to setting up of preclinical studies, the creation of intellectual property, the setting up of industrial partnerships and the creation of companies. The field of interest focuses on small molecules and peptides for therapy, diagnosis and inherent technologies.

Website: https://ims.unistra.fr/

• ELIGIBILITY

The Medalis call for proposal is willing to finance several excellent research projects dealing with development of active molecules/new concepts in any therapeutic areas. Are also eligible technological projects/ development of original cellular in vitro or in vivo animal models, which could accelerate the development of innovative therapeutics and diagnostic. The project must have a short/medium term strategy of patent(s) applications and/or start-up creation.

The project must include at least one of the Medalis partners listed in appendix 1. The principal investigator must be member of one of the Medalis team. Collaborations with researchers outside of these teams are possible but will be funded through the principal investigator (no money transfer).

Priority will be given to the most innovative project(s) and those, which mark a break with everything that preceded them. Projects already benefiting, or downstream, a SATT/CNRS maturation, are ineligible for the IMS call for projects.

Remember that a project is more appreciated if it has a multidisciplinary nature and that several IMS leaders are involved.

FORMAT

A single PDF has to be sent to Ghislain AUCLAIR via email: gauclair@unistra.fr

GRANT

Medalis offers the possibility to finance two types of projects:

Exploratory grant: Maximum 75k euros over 12 months

Consolidated grant: Minimum of 2 teams including a least 1 Medalis team, for a maximum of 18 months and maximum 300k euros

The grant must be exclusively used to fund the selected project. Grantees undertake to present the project once a year to the Scientific committee (CS).

An "Exploratory" project is a project without proof of concept or patent filing. It allows to explore a new concept and analyze its possible valorization.

A "Consolidation" project can follow an exploratory project which proves promising. A "Consolidation" project can also be directly submitted if preliminary results have already been obtained. The eligibility criteria of a "consolidation" project include the achievement of a proof of concept at least in vitro, as well as the patentability/valorization study of the project results (to be provided with the file). Renewal of the subvention can be authorized pending consumption of at least 90% of the inital subvention.

ELIGIBILITY COSTS

- o Operating costs (consumables, reagents, animals etc...)
- o Mission expenses related to the project (travels, etc...)
- o Equipment
- o Subcontract costs (externalization of experiments, production etc...)
 - Recruitments on temporary work contract (post-docs, engineers but not PhD students...) of persons who are strictly assigned to the project can be authorized only after using the human manpower of the IMS engineer team (see appendix 2).

PLANNING AAP 2024 : deadline – 26th June 2024, 20pm

The project has to be written in English and mention the following items:

Title of project / Acronym	
Amount leader name	
Email	
Phone	
Company leader name	
Email	
Phone	
Duration in months	
Starting date expected	
Ending date expected	
Project already funded? If yes, by	
who?	
Other IMS parteners	
Other parteners	
Links with Medalis projects?	

1. Project abstract (maximum 250 words)

2. Project description (maximum 5 pages)

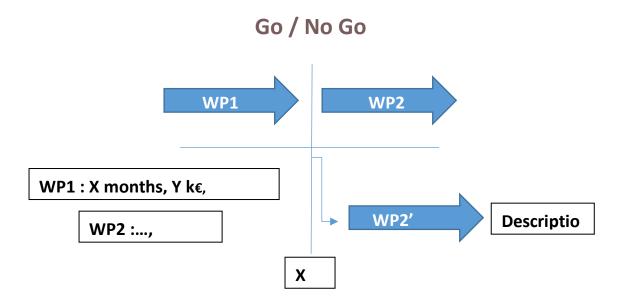
- Duration in months as well as starting & ending dates
- Project already funded by Medalis (Yes or No)
 Please, indicate the remaining funding amount at the date of the submission, and if the project started with the DDD challenge.
- If yes, please join a short summary of the last phase of the project as an appendix
- Total cost of the project :
- Amount requested from Medalis:
- Collaboration with Medalis Partners (see appendix 1):
- Collaboration with other partners (names, institutions, cities, countries):
- Other financial support(s) granted to this project (Name, amount, period):

 Don't forget to mention the referees we should no contact due to conflict of interest!

Please include in the description: the scientific background (including preliminary data and proposed innovation), the medical need, the competition, the interdisciplinary character of the project, the expected results, the envisioned transfer.

Specifically for Technological project, please include: Who are the intended users, for what type of application projects, what possible benefits for the IMS.

3. Decision tree (work package, go/no go, timeline, cost/work package, alternatives in case of no go...)



4. Financial summary of the project (see Appendix 3)

APPENDIX 1 : Medalis partners

Partner Medalis	Name	Email	Unit
1	Sylviane MULLER	Sylviane.muller@unistra.fr	UMR 7242
2	Christopher MUELLER	c.mueller@ibmc-cnrs.unistra.fr	UMR 3572
3	Dominique BONNET	dominique.bonnet@unistra.fr	UMR 7200
4	Frédéric BIHEL	frederic.bihel@unistra.fr	UMR 7200
5	Frédéric SIMONIN	frederic.simonin@unistra.fr	UMR 7242
6	Françoise DANTZER	francoise.dantzer@unistra.fr	UMR 7242
7	Alain WAGNER	wagner@unistra.fr	UMR 7199
8	Dominique BAGNARD	bagnard@unistra.fr	ERL 1321
9	Pascal VILLA	pvilla@unistra.fr	UAR 3286
10	Sarah CIANFERANI	sarah.cianferani@unistra.fr	UMR 7178
11	Frédéric BOISSON	frederic.boisson@iphc.cnrs.fr	UMR 7178
12	Alexandre DETAPPE	a.detappe@icans.eu	UMR 7178

APPENDIX 2 : IMS engineer team

BIOLOGY

Cellular & Biology

- Cell culture (adherent lines, stem cells in suspension, primary culture)
- Culture of brain organoids
- Histology (vibratome and cryostat sections)
- Immunohistochemistry & immunofluorescence
- Transfection (JET PEI, Mirus) & Infection (lentivirus)
- Production & purification of proteins
- Angiogenesis test
- ELISA, MTT, MTS, Western Blot
- Flow cytometry (FACS & Macs Quantify)
- Duolink (ligature proximity test)
- Xcelligence (proliferation and migration test)

In Vivo Models

- Cancer models (brain tumors, breast tumors, metastases, Multiple sclerosis, Inflammation)
- Pain
- Biodistribution

Molecular Biology & Biochemistry

- RTqPCR, cloning, site-directed mutagenesis

CHEMISTRY

- Medicinal chemistry, chemistry of fluorine, sulfur & phosphorus

Purification

- Chromatography on silica gel (manual and automated), distillation, recrystallization

Analyzes

- NMR (1D and 2D), HPLC, GC, MS, IR, LC/MS

Software

- NMR (1D & 2D), HPLC, GC, MS, IR, LC/MS

PROTEOMIC

Proteomic Analysis by Mass Spectrometry

- Sample preparation: Electrophoresis gels, gel digestion, protein assay,
 cell lysis, tryptic digestion, purification, desalting
- Mass spectrometry: LC-MS/MS, timsTOF Pro, Q Exactive HF-X, label-free quantification (spectral count and XIC), de novo analyzes
- Software: HyStar, otof Control, Xcalibur, Chromeleon, Mascot, Proline, Skyline, MaxQuant

MICROFLUIDIC

Micromanufacture

- CAD (Clewin, Autocad)
- Photolithography (MJB3) of negative and positive photoresists
- Microengravings on glass in RIE
- Micropatterning of cells on glass coverslips
- Manufacture of microfluidic chips in PDMS
- Coupling micropatterning and microfluids

Microfluidic

- Cell cultures and co-cultures in microfluidic chips
- Microfluidics of drops

Analyzes

- ImageJ
- Matlab
- Graphpad Prism

Others

- 3D prints
- Microengravings
- Laser cutting
- Arduino

The cost of the Innovation engineer does not include the cost of his operating costs (use of platform, materials, etc.) which must therefore be duly budgeted in the financial request and

sent to his manager. If human resources (CDD) are planned with the financing request, specify why it is necessary in addition to an IMS engineer (CDI).

Financial summary of the project:

Academic partner		Cost in euros (with VAT)
Operating costs		
Platform costs (ex : chemistry = 500€ / month)		
Equipment costs (Equipment is defined for material costs > 4000 euros HT per unit. A quote has to be sent with the application form for equipment cost > 20 000 euros HT).		
Please, indicate a name and a reference		
Equipment 1		
Equipment 2		
Equipment 3		
Subcontract costs		
Travel costs		
Personnel cost		
Please, indicate the position title (post-doctorate,)		
TOTAL PROJECT		
Partner 1		

Partner n° (you can add more partners)		Cost in euros
Operating costs		
Platform costs (ex : chemistry = 500 euros / month)		
Equipment costs (Equipment is defined for material costs >4000 euros HT per unit. A quote has to be sent with the application form for equipment		
cost > 20 000 euros HT).		
Please, indicate a name and a reference		
Equipment 1		
Equipment 2		
Equipment 3//		
Subcontract costs		
Travel costs		
Personal costs		
Please, indicate the position title (e.g. post-doctorate, Engineer)		
Total Project Partner		
n° (you can add more		
partners)		
Total project (75k		
euros max)		

Other personnel costs (included in the 75k euros global cost)			
IMS engineer team	Number of month	Part time (%)	5000*(x months)*%
Cell biology			
Microfluidic			
Proteomic			
Chemistry			

Academic leader name

Signature