



INEDIS CALL
for Collaboration 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 Inedis call for proposal is willing to finance several excellent 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.

The project must include at least one of the Medalis partners listed in appendix 1, and a company.

The collaboration agreement will be set up by the SATT Conectus or the CNRS.

The results derived from the collaboration may be jointly owned, with ownership distributed on a 50%/50% basis, pending equal contribution. The laboratory will contribute through in-kind resources and financial resources provided by the IMS Call for Proposal "Inedis". The company, on the other hand, is expected to contribute in kind, funding or significant materials of high economic value.

Contact : caroline.bresch@satt.conectus.fr or ayman.salman@alsace.cnrs.fr

Priority will be given to the most innovative project(s) and those, which mark a break with everything that preceded them. The committee reserves the right not to fund any project.

- **FORMAT**

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

- **GRANT**

Maximum **50k€ over 12 months** for the IMS partner.

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).

- **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...)
- o 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 if not able to use the manpower of the IMS engineer team (see appendix 2).
The engineers from IMS are not to be included in the maximum budget of 50K€. But operational costs have to.

- **PLANNING AAP 2024**

The IMS Executive Committee meets on the first Monday of every month to review project proposals and determine whether they will be funded by IMS.

Project leads must submit their requests two weeks before the Executive Committee meeting.

Feedback will be provided within two weeks following the Executive Committee's decision.

If the project is approved, a research collaboration agreement will need to be completed and co-signed, leading to the allocation of funding.

A progress report will be required six months after the funding is granted, followed by an annual presentation of developments for the duration of the agreement.

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

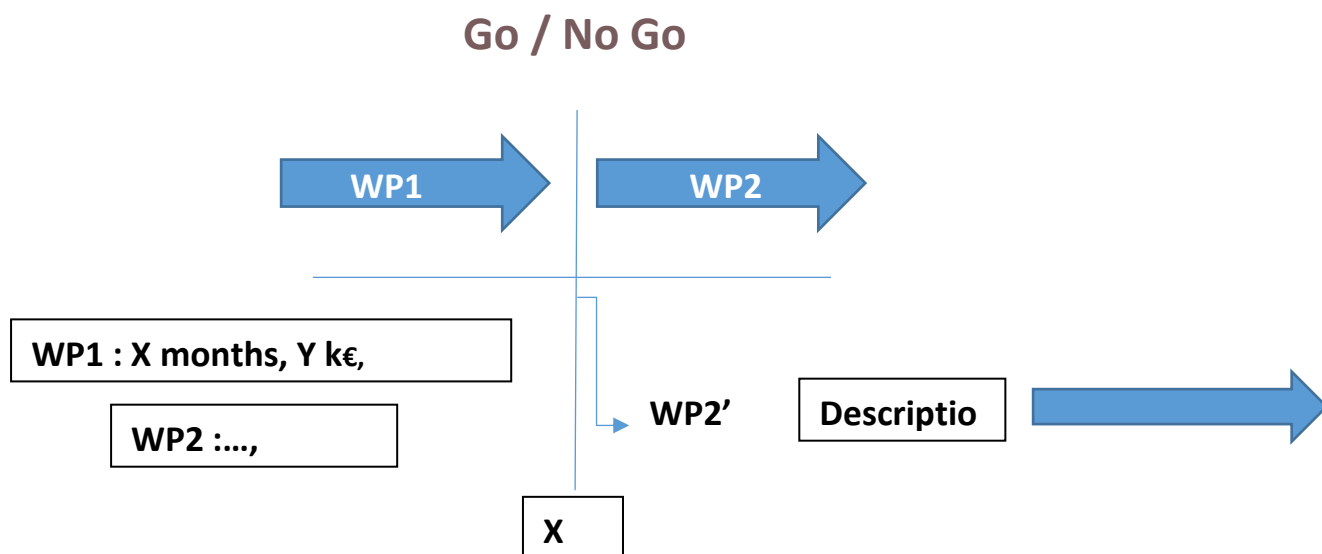
Title of project / Acronym	
Amount leader name Email Phone	
Company leader name Email Phone	
Duration in months Starting date expected Ending date expected	
Project already funded ? If yes, by who ?	
Other IMS parteners Other parteners	
Links with Medalis projects ?	

1. Project abstract (maximum 250 words)

2. Project description (maximum 5 pages)

Scientific background (including preliminary data and proposed innovation), Medical need, Competition, the interdisciplinary character of the project, Work packages, Expected results, Envisioned transfer.

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**

<i>Partner Medalis</i>	<i>Name</i>	<i>Email</i>	<i>Unit</i>
1	Sylviane MULLER	Sylviane.muller@unistra.fr	UMR 7242
2	Christopher MUELLER	c.mueller@ibmc-cnrs.unistra.fr	UPR 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.

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 (from IMS and recruitments)			
Please, indicate the position title (post-doctorate,...)			
TOTAL PROJECT Academic			
Requested funding for all or part of the TOTAL ACADEMIC PROJECT from CIRFC via the IMS INEDIS call for projects (50K euros max)			

Company partner			Cost in euros
Operating costs			
Equipment costs			
Personnel costs			
TOTAL PROJECT Company			
TOTAL PROJECT (Company + Academic			
IMS ENGINEER COSTS (see appendix 2)			
IMS ENGINEER OPERATING COSTS			
IMS engineer team	Number of month	Part time (%)	5000*(x months)*%
Cell biology <input type="checkbox"/>			
Microfluidic <input type="checkbox"/>			
Proteomic <input type="checkbox"/>			
Chemistry <input type="checkbox"/>			

Company leader name

Academic leader name

Signature
Signature