

CALL FOR APPLICATION

INSERM CHAIR Recruitment

CHRONic diseases: primary cells, Organoids or Stem cells to generate innovative therapies

The Inserm chair recruitments opened to Inserm are intended for researchers with strong potential to manage and lead research teams and participate in national, European or international projects.

This recruitment, based on research and teaching projects, is aimed at researchers with a doctorate or equivalent and a first post-doctoral experience. The position is offered on a fixed-term contract (CDD) with a view to tenure in the Inserm Research Directors personnel at the end of the contract.

Application on EVA: <https://eva3-accueil.inserm.fr/sites/eva/chaieres/2024/Pages/default.aspx>



Supporting institution:	Inserm : Institut national de la Santé et de la recherche médicale
Name of the head of the institution:	Pr. Didier Samuel
Academic region:	Toulouse
Location/ Site concerned:	Toulouse, INFINITY - U1291 / IRSD - U1220 / RESTORE - U1301
Partner institution:	Université de Toulouse
Research contact	Nicolas FAZILLEAU : nicolas.fazilleau@inserm.fr Nathalie VERGNOLLE : nathalie.vergnolle@inserm.fr Philippe VALET : philippe.valet@inserm.fr
Administrative contact	chaieres-professeur-junior@inserm.fr
Research fields EURAXESS :	Medical sciences, Public Health
Keywords:	Stem cells, Organoids, Chronic Diseases, Biotherapy

Job title to be filled:	Chaire de chercheur CHRONic diseases: primary cells, Organoids or Stem cells to generate innovative therapies
Body after tenure:	Research Director
Anticipated duration of the contract:	5 years

Scientific domains/fields:	Public Health / CHRONOS-therapies
Corresponding specialized scientific commissions (CSS):	CSS3, CSS5, CSS7 (CNU : 56/57/65/66/86/87)
Project name:	CHRONic diseases: primary cells, Organoids or Stem cells to generate innovative therapies

Funding :	
ANR package :	200k€
Total project	200k€

Remuneration package	3 500€ - 5 000€ according to research experience
Quota	Full Time

Strategy of the host institution:

With the aim to strengthen the Toulouse scientific community and prepare the future in the field of cell-based biotherapies and bioassays, a call is open to recruit a High-level young scientist aiming at developing a research-group leader career in the field of biotherapies. Stem cell discoveries have revolutionized our understanding of pathophysiological mechanisms. Further, their potential use in regenerative medicine has emerged as a major new area for therapeutic options. The capacity of stem cells to self-organize in organoids, 3-D structures that are functionally and histologically very similar to tissues, has allowed the development of tissue modelling for different purposes, including development and disease models as well as drug screening models. Such approaches have also fostered the development of new cell-based biotherapies, where tissue or cell transplantation are now feasible. Knowledge about such self-organizing cellular mechanisms, and the possibility to produce and control tissue bioproduction from stem cells and/or organoids, constitute new major challenges for tissue repair, in particular in the setting of chronic diseases, where tissues are chronically damaged and unrepaired. Inserm is a key stakeholder in France in the development of biotherapies. It coordinates major initiatives in this field, such as the "Biotherapies Key Challenge" initiated in the Occitanie Region and the present chair constitutes an important element to this scientific strategy. With the financial support of the Occitanie region, the Toulouse Health Science community has gathered a number of forces on the field of biotherapies. The chair holder is expected to contribute dynamically to this ambitious regional research focus, with the long-term goal of placing the Toulouse site at the forefront of the national and international scene in the field of cell-based biotherapies.

Strategy of the host laboratory:

Research assignment will be in one of the three INSERM research units, depending on the candidate's research topic: - Inserm U1220 (IRSD): Digestive Health Research Institute (<http://en.irsd.fr>) - Inserm U1301 (Restore): Institute of geroscience and rejuvenative medicine

(<https://restorelab.fr/en/home-en/>) 2 - Inserm U1291 (Infinity): Institute for Infectious and Inflammatory Diseases of Toulouse (<https://www.infinity.inserm.fr/en/>) The chair holder will benefit from office and laboratory space as well as access to on-site state-of-the-art core facilities. Other cutting-edge facilities are accessible through an integrated local network of platforms (<http://www.genotoul.fr/>). Independently of an initial package, Junior candidates should be eligible for start-up programs such as ERC Starting/Consolidator Grant, ATIP-Avenir, or equivalent. It is expected the candidate to become rapidly a group/team leader, pending that additional funding could be secured by the candidate. Support will be provided to obtain research funding. The chairholder will also be allocated additional resources to facilitate integration. **Candidates are encouraged to contact the laboratories for a first discussion.** IRSD : Nathalie.vergnolle@inserm.fr ; Restore : philippe.valet@inserm.fr and Infinity : Nicolas.fazilleau@inserm.fr Preselected applicants will be invited for a conference and to visit Toulouse's Institutes.

Summary of the scientific theme:

The scientific project is expected to be focused on cell-based bioassays including 3D assembly (organoids) and/or cell-based biotherapies innovation in the context of chronic diseases. The focus is large and many organs (liver, pancreas, intestine, skin, lungs, brain, muscle, adipose tissue, etc..) and related diseases (such as cancer) could be considered. The candidate must hold a PhD and must have demonstrated his/her ability to conduct excellent research, as evidenced by high-level publications and international visibility. A strong potential for supervision and animation of research is expected.

Summary of the teaching project:

Pedagogical assignment would be at the Toulouse-3 University (Paul Sabatier). The chairholder could be involved in master and PhD programs in line with his/her skills, mainly through the international graduate school CARE (Cancer, Aging and Rejuvenation, <https://care-graduateschool.fr>).

Scientific dissemination/ Open Science:

The successful applicant is expected to publish in the best journals and conference in his discipline as principal author but also as co-author of publications co-developed with other teams and departments of Toulouse. Whenever required, data and advanced results will be made available through publications and deposit in public databases such as bioRxiv and HAL. The successful applicant will comply with EU recommendations on Communication, Dissemination and Exploitation ([https://ec.europa.eu › quick-guide_diss-expl_en](https://ec.europa.eu/quick-guide_diss-expl_en)) and with Inserm best practices on signing scientific publications (<https://pro.inserm.fr/rubriques/recherche-responsable/integrite-scientifique/signaturedes-publications-scientifiques>).

Open Science:

Inserm is committed to Open Science and the successful applicant will comply with OS standards on two specific aspects: publications and data management, sharing and reuse. The relevant indicators for publication are those defined the EU indicators frameworks for fostering open knowledge practices in science and scholarship, including I4OC, OpenAIRE, Crossref and the European Open Science Cloud. Relevant indicators for data management, sharing and reuse and encapsulated into FAIR principles. Within these general principles, major innovations will be identified and processes for IP protection and patent filling prior to open publication.

Science and society:

The successful applicant will comply to Horizon 2020 Programme Open Innovation and Open Science Research Infrastructures-Research Infrastructure Impact Assessment Pathways/science and society P12 Promoting engagement between science, society and policy. Specifically, the successful applicant will comply with Inserm established practice for scientific mediation and dissemination to the public. He/she will also actively participate in mediation events such as Fête de la Sciences. The successful applicant will receive appropriate media training. Indicators :

Teaching

1. Capacity to effectively transfer knowledge through teaching
2. Usage and development of innovative teaching and pedagogical practices
3. Capacity to ensure student training through research at M1 and M2 and PhD levels

Research:

1. Patents and Publications
2. Invited papers lectures in national and international conferences
3. Ability to organize workshop and conferences
4. Ability to supervise doctoral students and support staff
5. Capacity to leverage and obtain competitive funding
6. Capacity to compete in EU excellence programs (ERC) and to integrate EU/international research networks.

Knowledge transfer

1. Capacity to identify and prioritize major innovation towards IP and patent filling
2. Capacity to initiate value creation processes within the framework of Inserm-Transfert and other relevant actors.
3. Capacity to contribute expertise towards the development of expertise (e.g. risk evaluation), best practice (e.g. recommendations) or public policies.

Selection of candidates:

It is expected the recruited researcher to become rapidly a group leader in the team. So the candidate should demonstrate ability to supervise Ph.D students, post-doctoral fellow and technical support staff. She/he should have the capacity to obtain competitive funding to manage her/his group.

Successful candidates are chosen by a selection commission composed of six to ten members, the majority of whom are specialists in the fields of research concerned.

The commission carries out an initial examination of the applications, focused in particular on candidate experience and skills relative to the research and teaching project presented above. A shortlist of candidates is then selected for interview.

Only candidates selected by the selection committee on the basis of their applications will be invited to interview.

The interviews are followed by a deliberation during which selection commission will discuss the quality, originality and, where appropriate, the interdisciplinarity of the research and teaching projects presented by the candidates, their motivation and their scientific and teaching supervision capacity.

The candidates selected at the end of the selection process will be offered a researcher contract, following approval from the President and CEO of Inserm.

Required profile:

Education Level: **Phd**

Researcher Profile : R3/R4

R3 Established researcher A stage in a researcher's career describing those who have developed a level of independence and can be described as an established researcher

R4 Leading Research A stage in a researcher's career where they can be termed a 'leading researcher'. This would include the team leader of a research group or head of an industry R&D laboratory.

Your application will be evaluated according to the following criteria :

- Relevance and originality of the project related to the research field
- International exposure in research projects
- Your ability to raise funds
- Participation in editorial and reviewing activities
- Your teaching experience
- Your ability to lead a team...

Indicators:

1. Number of papers published in peer-reviewed journals
2. Communications in conferences in the field
3. Funding application and success to complete funding obtained by ANR
4. Supervision of PhD students and post-doctoral fellows
5. Development of international partnerships and networks
6. Pedagogical capacity and transmission of knowledge through teaching activity and leadership
7. Participation in committees or production of policy briefs or guidelines in national public health bodies of decision (Haut Conseil de la Santé publique (HCSP) or Santé Publique France (SPF) or Institut National du Cancer (Inca)) and other stakeholders

Application instruction:

Applications can be submitted online at [EVA](#).

Deadline application: **April 2, 2024.**

Please complete the scientific file in English.

It is imperative to contact the laboratory corresponding to the Chair you have applied for in order to build the project with them.

Position also open to 'Bénéficiaires de l'Obligation d'Emploi' (disabled persons), as defined in article 27 of law no. 84-16 of January 11, 1984 on statutory provisions for the civil service.