

IMDEA Food Institute adheres to the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers.

The European Social Fund could co-finance 50% of the contracts formalized out of this call through the corresponding Operational Programme for the period 2014-2020.

## 2018 – 2<sup>nd</sup> Call for Postdoctoral Scientist Positions at IMDEA-Food Institute (Ref. PD2018/006-007-008-009-010)

The IMDEA Food Institute (Madrid Institute for Advanced Studies in Food) is a research institution created by the Madrid Regional Government in coordination with universities, research centers of Madrid, and enterprises. Constituted as a non-profit organization within the framework of the IV Regional Plan for Scientific Research and Technological Innovation (IV PRICIT), it is conceived - structurally and legally - with the aim of bringing research into society.

IMDEA Food Institute is committed to excellence in research and to foster technology transfer to the industrial sector in a truly international environment. More information about the research and scope of the activities of IMDEA Food Institute can be found at the institute webpage <http://www.food.imdea.org>

Within this context, the IMDEA Food Foundation launches this Call for the recruitment of five **postdoctoral scientist** who wants to develop their research career at IMDEA Food in Food and Health Area, covering the following positions:

### 1. Positions Description.

- **Ref. PD2018/006.** Postdoctoral Researcher in *Liver Metabolism for “Plasma Membrane proteins modulating liver metabolism and mitochondria function”* project, according to Annex I.

**Principal Investigator:** Manuel A. Fernandez Rojo, PhD ([manuel.fernandez@imdea.org](mailto:manuel.fernandez@imdea.org))

- **Ref. PD2018/007.** Postdoctoral Researcher in Molecular Oncology for *“Lipid metabolism disorders in the association between obesity and cancer”* project, according to Annex II.

**Principal Investigator:** Ana Ramírez de Molina, PhD ([ana.ramirez@imdea.org](mailto:ana.ramirez@imdea.org))

-**Ref. PD2018/008.** *Postdoctoral Researcher in cardiometabolic for “New metabolic biomarkers with diagnostic, prognostic and therapeutical potential health”* project, according to Annex III.

**Principal Investigator:** José Alfredo Martínez, PhD ([josealfredo.martinez@imdea.org](mailto:josealfredo.martinez@imdea.org))

-**Ref. PD2018/009.** Postdoctoral Researcher in Molecular Immunonutrition in Cancer for *“molecular mechanisms governing immunonutritional interventions to improve immune function, reprogramming antigen presenting cells behavior”* project, according to Annex IV.

**Principal Investigator:** Moisés Laparra Llopis, PhD ([moises.laparra@imdea.org](mailto:moises.laparra@imdea.org))

-**Ref. PD2018/010.** Postdoctoral Researcher in ncRNAs and microbiota for *“Therapeutic modulation of ncRNAs”* project, according to Annex V.

**Principal Investigator:** Alberto Dávalos Herrera, PhD ([Alberto.davalos@imdea.org](mailto:Alberto.davalos@imdea.org))

## 2. Eligibility criteria

Candidates must fulfill the qualifications and experience according to the position (Annex I, Annex II, Annex III, Annex IV and Annex V) at the moment of applying.

## 3. Conditions.

Selected candidates will be given a temporary full-time contract according to standard regulations in Spain, after obtaining the mandatory authorizations.

Level and salary are commensurate with qualifications and experience.

The incorporation of the candidate to the IMDEA Food Institute is expected to be immediately after the selection process.

## 4. Evaluation and selection of candidates.

Candidates will be selected based on the profiles described in Annex I, Annex II Annex III, Annex IV or Annex V as appropriately outlined in their CV by a Selection Committee composed by scientist staff of IMDEA Food. Ad-hoc experts could be participating in the process. The best-qualified applicant will be invited locally for an interview by the Selection Committee.

## 5. Application.

Interested candidates should submit their applications before 15 natural days (before 17:00 p.m. local time) counted from the day after the publication of this resolution on the website of the Foundation, <http://www.alimentacion.imdea.org/careers/postdoctoral-researchers>

They must send by e-mail to [rrhh.alimentacion@imdea.org](mailto:rrhh.alimentacion@imdea.org), indicating the **Reference of the position**, the following documents:

1. Curriculum Vitae (including a *cover letter*)
2. The **Request Form** (excel format) available at the Institute's website: <http://www.alimentacion.imdea.org/careers/postdoctoral-researchers>

Please be aware of the following: Only applications sent by e-mail to [rrhh.alimentacion@imdea.org](mailto:rrhh.alimentacion@imdea.org) and with all requested documentation will be taken into account in the process. Otherwise, the candidatures will not be able of being evaluated and will be rejected.

You will not be able to submit an application after the deadline.

The results of the selection process will be published in the IMDEA Food Institute's web page <http://www.alimentacion.imdea.org> and the selected candidate will be notified by e-mail. The selected candidate will receive a contractual offer and - if he/she agrees with it - must accept it within five (5) days after notification.

## 6. Data Protection Policy.

Pursuant to the provisions of Organic Law 15/1999 of 13 December, of Personal Data Protection, and Royal Decree 1720/2007 of 21 December, approving the regulations that develop Organic Law 15/1999 of 13 December, of Personal Data Protection, we inform you that the personal data contained in the CV you sent us will be recorded in a file for which the IMDEA FOOD FOUNDATION with registered office at Ctra. de Cantoblanco, 8 – 28049 Madrid (Spain), with the sole purpose of rights of access, rectification, cancellation and objection to their personal data by contacting the IMDEA FOOD FOUNDATION at the above address or by sending us an e-mail to [rrhh.alimentacion@imdea.org](mailto:rrhh.alimentacion@imdea.org).

## 7. Publicity.

Publicity of this call will be given in the following websites:  
IMDEA ALIMENTACION: <http://www.alimentacion.imdea.org>

Others:

Red IRIS: <http://www.rediris.es/>

Madrid+d: [www.madrimasd.org/](http://www.madrimasd.org/)

EURAXESS Jobs Portal of the European Commission:  
<http://ec.europa.eu/euraxess/index.cfm/jobs/index>

Madrid (Spain), 22<sup>nd</sup> February, 2018

Guillermo Reglero Rada  
Director of IMDEA Food Institute

## Annex I. Postdoctoral Scientist Position.

Candidates must fulfill the following requirements in the moment of applying:

<b>- Ref. PD2018-006</b>	
<b>Job Title</b>	"Postdoctoral Scientist in Liver Metabolism"
<b>Principal Investigator</b>	Manuel A. Fernandez Rojo, PhD
<b>Location</b>	Madrid, SPAIN
<b>Job Category</b>	Postdoctoral Researcher
<b>Job Description</b>	<p>Postdoctoral position in the Project: "Plasma Membrane proteins modulating liver metabolism and mitochondria function",</p> <p>The Hepatic Regenerative Medicine Group within IMDEA Food Institute is seeking for a highly-motivated postdoctoral researcher with demonstrated excellence expertise in cell biology and metabolism related to liver diseases.</p> <p>This position is for 1 year, renewed every year depending on productivity and adaptation to the IMDEA-Food institute.</p>
<b>Qualifications required</b>	<p>The successful candidate must have:</p> <ul style="list-style-type: none"> <li>- Experience abroad related to research in liver physiology and pathology in high rank national and/or international research institutes.</li> <li>- Track record with studies published in high impact journals.</li> <li>- Ability to write scientific manuscripts and projects.</li> <li>- Experience in: <ul style="list-style-type: none"> <li>• Experimental mouse models of metabolic deregulation and/or liver disorders and regeneration.</li> <li>• Isolation of mouse and/or rat primary liver cells.</li> <li>• Cell culture.</li> <li>• Cloning.</li> <li>• Western-blotting</li> <li>• Quantitative Real Time PCR</li> <li>• Immunofluorescence and confocal light imaging.</li> <li>• Cell Metabolism experimental assays.</li> <li>• FACS and ELISA assays.</li> </ul> </li> </ul> <p>*Experience in:</p> <ul style="list-style-type: none"> <li>• Liver immunology and/or</li> <li>• CRISPR/Cas9 technology, and/or</li> <li>• epigenetics</li> </ul> <p>will be well considered.</p> <p>In addition, the successful candidate needs to be able to work in a multidisciplinary collaborative and interactive environment within the IMDEA-Food institute but also with research institutes from Australia and other European countries.</p>

	The successful candidate needs to show: <ul style="list-style-type: none"><li>- An excellent oral presentation and writing (in English) skills,</li><li>- Excellent organization capacity and</li><li>- Significant experimental initiative.</li></ul>
<b>Education requirements</b>	PhD in (cell) (Biology, Biochemistry, Biotechnology, Medical Science, Life Science)

## Annex II. Postdoctoral Scientist Position.

Candidates must fulfill the following requirements in the moment of applying:

<b>- Ref. PD2018-007</b>	
<b>Job Title</b>	"Postdoctoral Researcher in Molecular Oncology"
<b>Principal Investigator</b>	Ana Ramírez de Molina, PhD
<b>Location</b>	Madrid, SPAIN
<b>Job Category</b>	Postdoctoral Researcher
<b>Job Description</b>	<p>Postdoctoral Researcher in "Molecular Oncology", in the field of "Lipid metabolism disorders in the association between obesity and cancer"</p> <p>The postdoctoral researcher will perform his/her work using molecular and cellular biology techniques to analyze nucleic acids (qPCR, RNAseq, lipid metabolism analysis), proteins (Western blot), cellular function (cellular culture, flow cytometry, confocal microscopy), and management of mice for in vivo physiological experiments,</p> <p>The researcher will help in paper writing, paper revision, data presentation, etc.</p> <p>This position is for 1 year, renewed depending on productivity and adaptation to the IMDEA-Food Institute</p>
<b>Qualifications required</b>	<p>The applicant should have 5-years minimum of experience as a postdoctoral researcher in the field of:</p> <ul style="list-style-type: none"> <li>- Experience with molecular and cellular biology techniques: eukaryotic cell culture, RNA and protein isolation and quantitation, DNA cloning and editing, metabolic activity analysis.</li> <li>- Experience on the following will be highly valued: drug screening; mice handling, and knowledge and experience on metabolism and mice physiology; obesity related projects, especially those linking obesity and cancer.</li> <li>- Knowledge and leadership/participation in clinical trials will be valued, as well as participation in European international consortia. We are looking for a proactive person showing initiative and with decision-making skills.</li> <li>- Leadership, planning and results-oriented skills, as well as excellent interpersonal relationship abilities and team-work skills are welcome. High English level is a requirement.</li> </ul>
<b>Education requirements</b>	PhD in Life Sciences related discipline (Biology, Biochemistry, Pharmacy, Medicine, Veterinary Sciences, Food Sciences and Technology, or related).

### Annex III. Postdoctoral Scientist Position.

Candidates must fulfill the following requirements in the moment of applying:

<b>- Ref. PD2018-008</b>	
<b>Job Title</b>	"Postdoctoral Researcher in cardiometabolic health."
<b>Principal Investigator</b>	José Alfredo Martínez, PhD
<b>Location</b>	Madrid, SPAIN
<b>Job Category</b>	Postdoctoral Researcher
<b>Job Description</b>	<p>Postdoctoral position in the Project: "New metabolic biomarkers with diagnostic, prognostic and therapeutical potential" with Precision Nutrition and Cardiometabolic Health Program.</p> <p>The work plan is focused on optimize and appraise available resources and databases to better understand genetic and epigenetic outcomes involved in obesity and cardiometabolic adverse traits; analyze and implement newer metabolic biomarkers with diagnostic, prognostic and therapeutical potential value including the design and definition of Precision Nutrition guidelines; investigate with global perspectives the interactions including shared mechanisms and triggering common physiopathological pathways among obesity with liver disease and cancer; and the integration of nutriomics and metagenomics approaches to understand the phenotypical interactions and responses to specific nutrients and diets involving nutrigenetic and nutrigenomic outcomes.</p> <p>This position is for 1 year, renewed depending on productivity and adaptation to the IMDEA Food Institute.</p>
<b>Qualifications required</b>	<p>Candidates must fulfill the following requirements in the moment of applying:</p> <ul style="list-style-type: none"> <li>- Expertise in human databases and epidemiologic statistical analyses.</li> <li>- Expertise in genetic human data and biostatistical analyses.</li> <li>- Expertise in human samples studies and biostatistical analyses.</li> <li>- Expertise in national and international multi-centre projects.</li> <li>- Be main author of at least 5 articles published in high impact journals with Biomedical and Nutritional fields and coauthor of more than 25 articles in international journals.</li> <li>- High level of English.</li> </ul>
<b>Education requirements</b>	Have obtained a PhD in Biomedical Sciences or Experimental Sciences (Biology, Biochemistry, Pharmacy, Nutrition or Food Science) in the last 2 years.

## Annex IV. Postdoctoral Scientist Position.

Candidates must fulfill the following requirements in the moment of applying:

<b>- Ref. PD2018-009</b>	
<b>Job Title</b>	“Postdoctoral Researcher in Molecular Immunonutrition in Cancer”
<b>Principal Investigator</b>	Moisés Laparra Llopis, PhD
<b>Location</b>	Madrid, SPAIN
<b>Job Category</b>	Postdoctoral Researcher
<b>Job Description</b>	<p>Research on “Molecular mechanisms governing immunonutritional interventions to improve immune function, reprogramming antigen presenting cells behavior”.</p> <p>The researcher will perform his/her work using molecular and cellular biology techniques to analyze functional differentiation of immune cells (‘Omic’ approaches), proteins (Western blot), cellular function (cellular culture, flow cytometry, confocal microscopy), and management and handling of mouse colonies.</p> <p>The researcher will help in paper writing, paper revision, data presentation, etc.</p> <p>He/she will benefit from intense, fulfilling and exciting scientific work in a young laboratory, and will cooperate with different inter/national groups with which our group constantly collaborates.</p> <p>This position is for 1 year, renewed according to productivity and adaptation to the IMDEA-Food Institute.</p>
<b>Qualifications required</b>	<ul style="list-style-type: none"> <li>- The applicant should have had extensive prior experience in a research laboratory preferably on those techniques described in the Job Description.</li> <li>- He/she must be author of original scientific publications in top journals.</li> <li>- The applicant must have participated in competitive public funding projects. At least two reference letters from prior laboratory group leaders or people relevant in her/his career will also be requested.</li> <li>- International experience and fluent English language will be valuable.</li> </ul> <p>Spanish candidates residing abroad (any country) at the time of application is desirable. It is considered as "resident abroad" those who are working outside Spain at the date of its application to the Call (mobility criteria) and that have been at least 12 months working outside Spain in the 3 previous years (non-resident in Spain criteria).</p>
<b>Education requirements</b>	PhD Degree in Biomedical or Nutritional Sciences (Biology, Biochemistry, Pharmacy, Nutrition, Food Science, Chemistry, Medicine...)



## Annex V. Postdoctoral Scientist Position.

Candidates must fulfill the following requirements in the moment of applying:

<b>- Ref. PD2018-010</b>	
<b>Job Title</b>	“Postdoctoral Researcher in ncRNAs and microbiota”
<b>Principal Investigator</b>	Alberto Dávalos Herrera, PhD
<b>Location</b>	Madrid, SPAIN
<b>Job Category</b>	Postdoctoral Researcher
<b>Job Description</b>	<p>Postdoctoral position in the project: “Therapeutic modulation of ncRNAs” Work plan:</p> <ul style="list-style-type: none"> <li>- Isolation, search and validation of circulating RNA in pathophysiological conditions of cardiovascular disease</li> <li>- Study the influence of different environmental factors (ie. Diet, physical activity) in the modulation of the circulating non-coding RNAs.</li> <li>- Bioinformatic analysis to gain insight into the knowledge of precision nutrition and genome edition.</li> <li>- Paper writing, paper revision, data presentation, etc..</li> </ul> <p>This position is for 1 year, renewed depending on productivity and adaptation to the IMDEA-Food Institute.</p>
<b>Qualifications required</b>	<p>Postdoctoral experience in high quality research centres. Scientific publications published in top journals.</p> <p>The candidate must have expertise in cell biology techniques, including cloning, cell lines establishment, primary cultures and organoids, western blotting, gene expression and RNA analysis. Also, it will be good considerate the previous experience in the research topic within lipid metabolism and cardiovascular diseases in the context of non-coding RNAs, exosomes and epigenetics.</p> <p>Good skills in paper writing, paper revision, data presentation, projects preparations are necessary.</p> <p>Abilities to be also considered:</p> <ul style="list-style-type: none"> <li>- Research with expertise on animal experimentation</li> <li>- Chromatin immunoprecipitation,</li> <li>- Genome editing</li> <li>- Deep bioinformatics and use of “machine learning” and artificial intelligence algorithms.</li> </ul> <p>Leadership, planning and results-oriented skills, as well as excellent interpersonal relationship abilities and team-work skills are welcome</p> <p>High English level is required.</p>
<b>Education requirements</b>	PhD in Life Sciences related discipline (Biology, Biochemistry, Pharmacy, Medicine, Veterinary Sciences, Food Sciences and Technology, or related).