PostDoc Grant application

Candidate Look Out

Project for pioneer observation of the resting state of voltage-gated channels by HS-AFM

Project winner of two Seals of Excellence of the European Commission in 2017 and 2018

Grants targeted:
1) Marie Skłodowska-Curie Actions Individual Fellowship-2018 (Deadline: 12th-Sept 2018)
2) EMBO Long-Term Fellowships (Deadline: 2nd-August 2018)

Project Description: The structure of voltage-gated channels in their resting state remains unknown. This piece of information is vital to understand the functioning of life at the molecular basis. The applicant will pioneer the observation of voltage-gated channels in their resting state. A setup has been developed for the stimulation of the resting states. The High Speed Atomic Force Microscope (HS-AFM) will be used to visualize at sub-second video-imaging the structural transduction of voltage-gated channels from the activated to the resting state.

Contact (as soon as possible): Ignacio Casuso, ignacio.casuso@inserm.fr

Location : LAI, French National Health Institute INSERM, Aix-Marseille Université, Marseille, France

Webs: https://sites.google.com/view/fm4b-lab/group-members/dr-ignacio-casuso
https://labadhesioninflammation.org/

References: B.Martinac, Y. Saimi, C. Kung (2008) Physiol. Rev. 88(4):1449-1490 ; I. Casuso et Al. (2012) Nature Nanotechnology 7 (8), 525-529

seals of excellence of previous years

SEAL OF EXCELLENCE

European Commission

Certificate delivered by the European Commission,
as the institution managing Horizon 2020,
the EU Framework Programme for Research and Innovation 2014-2020

The project proposal **746245, WatchVSD**

High-Speed AFM: Voltage-induced conformational changes of the voltage sensor domain in ion channels

Submitted under the Horizon 2020's **Marie Skłodowska-Curie actions**
call **H2020-MSCA-IF-2016** of **14 September 2016**
by
Candidate 1
and
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
RUE DE TOLBIAC 101
75654 PARIS
France

following evaluation by an international panel of independent experts

WAS SCORED AS A HIGH-QUALITY PROJECT PROPOSAL IN A HIGHLY COMPETITIVE EVALUATION PROCESS*

This proposal is recommended for funding by other sources since Horizon 2020 resources available for this specific Call were already allocated following a competitive ranking.

* This means passing, with a score of 85% or more, all stringent Horizon 2020 assessment thresholds for the 3 award criteria (excellence, impact, quality and efficiency of implementation) required to receive funding from Horizon 2020.

Carlos Moedas
Commissioner for Research
Science and Innovation

Tibor Navracsics
Commissioner for Education, Culture
Youth and Sport

Brussels, 24/04/2017

SEAL OF EXCELLENCE

European Commission

Certificate delivered by the European Commission,
as the institution managing Horizon 2020,
the EU Framework Programme for Research and Innovation 2014-2020

The project proposal **799413, WatchVSD**

High-speed AFM: Voltage-induced conformational changes of the voltage sensor domain in ion channels.

Submitted under the Horizon 2020's **Marie Skłodowska-Curie actions**
call **H2020-MSCA-IF-2017** of **14 September 2017**
by
Candidate 2
and
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
RUE DE TOLBIAC 101
75654 PARIS
France

following evaluation by an international panel of independent experts

WAS SCORED AS A HIGH-QUALITY PROJECT PROPOSAL IN A HIGHLY COMPETITIVE EVALUATION PROCESS*

This proposal is recommended for funding by other sources since Horizon 2020 resources available for this specific Call were already allocated following a competitive ranking.

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Carlos Moedas
Commissioner for Research
Science and Innovation

Tibor Navracsics
Commissioner for Education, Culture
Youth and Sport

Brussels, 05/03/2018

Campus of Luminy, Marseille, France