

---

# SEVERO OCHOA CENTROS DE EXCELENCIA

## CONVOCATORIA 2015

### CONTENIDO DE LA SOLICITUD

A continuación se presenta la estructura y el contenido de la información y documentación requerida en los apartados 7 y 8 de la solicitud correspondiente a la convocatoria del año 2015 de Centros de Excelencia Severo Ochoa.

Se resaltan en color rojo los cambios respecto a la solicitud telemática, y se incluyen algunas notas que explican las diferencias.

En particular, se resalta que, en un ejercicio de simplificación y racionalización de la información a presentar, se ha optado por compilar gran parte de los documentos que se señalan en la aplicación telemática como documentación complementaria, de presentación obligada por todos los solicitantes, y que son de relevancia para la evaluación, en dos únicos documentos, que se anexarán en la aplicación como anexos (1) *Supporting 2011-2015* y (2) *Supporting 2016-2019*.

La solicitud será tramitada íntegramente a través de la aplicación telemática habilitada por la Secretaría de Estado de Investigación, Desarrollo e Innovación, una vez se abra el plazo de presentación de solicitudes. **El plazo previsto para la presentación de solicitudes comprende desde el 7 de julio a las 15:00 horas del 29 de julio de 2015.**

SE RECOMIENDA LEER EN SU TOTALIDAD EL TEXTO DE LA CONVOCATORIA, Y PRESTAR ESPECIAL ATENCIÓN A LOS CONTENIDOS DE SUS ARTICULOS 19 Y 20.

---

## 7. SCIENTIFIC REPORT 2011-2015

### 7.0. OVERVIEW OF THE CENTER

Please give a brief presentation of the center including the main strengths and achievements concerning research activities and scientific leadership of the center as compared to its international partners. Refer to the centre's most relevant characteristics and data showing its critical mass for conducting research and any other information relevant to demonstrate research excellence and international leadership. (max. 10.000 characters)

**Mandatory** for those centres awarded as Centers of Excellence Severo Ochoa 2011 to provide a summary of the scientific achievements and research activities carried out by the center over 2011-2015 linked to the Severo Ochoa Award. It is obligatory to include the individual reports of the "garante" researchers who are to valorise the received funding, their management and the contribution given to institutional strengthening of the whole center.

**ONLY for Centers of Excellence Severo Ochoa 2011:**

**Annex a)** Attach in PDF format the Report of the Severo Ochoa Award with a description of the main achievements of the Center related to the Severo Ochoa Strategic Research Program 2011-2015 (Doc. "Scientific Report Severo Ochoa 2011").

**Annex b)** Attach in PDF format additional valuable information of the Severo Ochoa Award (Doc. "Severo Ochoa 2011 tables and figures").

**Annex c)** Attach in PDF format the individual reports by *investigadores garantes* of the Severo Ochoa Award (Doc. "Severo Ochoa 2011 *garantes* reports").

## 7.1. ORGANIZATION, MANAGEMENT AND RESEARCH CAPABILITIES

Please summarize the strategic plan for the center during 2011-2015, or, if this is missing, the centre's research lines and activities developed in the period and that show the existence of common shared scientific goals. Refer to the main research areas or lines of the center and the synergies and grade of integration or complementarity existing between the research areas or lines and the developed activities during the period. Describe the governance and management of the center with a focus on decision making, setting research priorities, and allocating resources across different research activities. (max. 20.000 characters)

**Mandatory** under **Supporting 2011-2015** to include the organizational chart and a description of the governance, organizational structure and management model of the center.

**Mandatory** under **Supporting 2011-2015** to include the benchmarking of the center with respect to its international centres of reference.

**If appropriate** under **Supporting 2011-2015** include the conclusions and recommendations from external scientific evaluations during 2011-2015 together with the appointment and composition of the external scientific committee.

**NOTA: los documentos a que hace referencia la aplicación telemática ("Annex 1 Doc. Organizational chart", "Annex 2 Doc. Benchmarking" y "Annex 3 Doc. Scientific Advisory Committee and External Evaluation Report") corresponden a lo mencionado en los tres párrafos anteriores, y deben presentarse integrados en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

## 7.2. RESEARCH OUTPUTS 2011-2015

### 7.2.1. OUTSTANDING SCIENTIFIC CONTRIBUTIONS

Please describe the scientific contributions of the center over 2011-2015. Special reference should be given to the 10 outstanding scientific contributions and/or publications of the center for the period and that show the capacity of the center to generate highest international impact at the frontiers of knowledge. (max. 20.000 characters)

**Mandatory** under **Supporting 2011-2015** to include a table with information, over the 2011-2015 period, on the publications of the center as a whole. Please refer in the table to the number of publications (total, first quartile and first decile) and the number of citations in the timeframe from publication to date. The

table should be accompanied by a description of the method of calculation and the sources used. Follow the example given in the document **Supporting 2011-2015**.

If **appropriate** under **Supporting 2011-2015** refer optionally to alternative objective and verifiable information from public sources, indicating their excellence in research (e.g.: Nature Excellence Index, etc.).

**NOTA: los documentos a que hace referencia la aplicación telemática ("Annex 4 Doc. Scientific production of the centre 2011-2015" y "Annex 5 Doc. Other scientific metrics") corresponden a los contenidos mencionados en los dos párrafos anteriores, y deben presentarse integrados en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

### 7.2.2. OTHER RESEARCH OUTPUTS

Please provide information on other relevant research outputs over the 2011-2015 period, such as patents, other IPR outputs, and research and collaborations with the private sector. Refer only to those results with highest scientific, societal and economic potential impact. Make special reference to activities of knowledge transfer and their applications, as well as science communication and outreach and any other output not included in section 7.2.1. (max. 20.000 characters)

## 7.3. HUMAN RESOURCES AND RESEARCH FACILITIES

### 7.3.1. HUMAN RESOURCES

This section is aimed at providing evidence on the existence of a solid scientific base and critical mass along its departments, units and research groups. Please refer to the research career, international recognition, scientific awards and leadership skills during the 2011-2015 period of the Scientific Director and the 10 *researchers garantes* of the application. (max. 20.000 characters)

**Mandatory** under **Supporting 2011-2015** to provide data of the research staff evolution for the 2011-2015 (up to date) by status, sex and nationality split by the centre's main departments, units, sections or main functional areas. Follow the example given in the document **Supporting 2011-2015**

**NOTA: el documento a que hace referencia la aplicación telemática ("Annex 6 Doc. Research staff by profession, sex, and nationality 1st June 2015") corresponde al contenido mencionado en el párrafo anterior, y debe presentarse integrado en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

### 7.3.2. RESEARCH FACILITIES

Please brief on research infrastructures and facilities that the center shares or makes use of along 2011-2015. Refer to the access of national or international large research infrastructures or facilities. (max. 4.000 characters)

## 7.4. TRAINING AND RECRUITING

Please describe doctoral and post-doctoral training programmes and related activities carried out during 2011-2015 and its international dimension. Refer also to the specific recruitment practices and activities for the 2011-2015 period. Describe the center's facilities and resources available to trainees as well as the mechanisms in place to foster the research career (e.g. tenure track) and the practices for talent attraction and retention. (max. 10.000 characters)

**Mandatory** under **Supporting 2011-2015** to include a comprehensive table indicating the number of trainees disaggregated by sex and nationality during 2011-2015 and doctoral thesis carried out and finished at the centre. Please include also the number of post-doctoral fellows and expiration date of their contractual relationship with the center if any. Those figures should be split by department, unit, section or functional area. Follow the example given in the document **Supporting 2011-2015**

**NOTA: el documento a que hace referencia la aplicación telemática ("Annex 7 Doc. Training 2011-2015") corresponde al contenido mencionado en el párrafo anterior, y debe presentarse integrado en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

## 7.5. INTERNATIONAL LEADERSHIP

Please include a summary of the scientific relevance and impact of the international top class collaborations led by the researchers at the center over 2011-2015, including international and EU Framework Programme projects - with special attention to ERC projects- and any other international research activity and recognition revealing the leadership of the center. (max. 10.000 characters)

## 7.6. FUNDING SOURCES

Please refer to the funding model of the center during 2011-2015. Disaggregate by non-competitive public funding received by the center through transfers of the State Administration, the relevant regional government or the beneficiary organization to which it belongs; competitive funding from national and international sources, and non-competitive funding from the business sector. (max. 8.000 characters)

**Mandatory** under **Supporting 2011-2015** to include a table with the centre's budget and its evolution 2011, 2012, 2013, 2014 and 2015, split by main chapters of income and expenditures. Follow the example given in the document **Supporting 2011-2015**

**NOTA: el documento a que hace referencia la aplicación telemática ("Annex 9 Doc. Budget 2011-2015") corresponde al contenido mencionado en el párrafo anterior, y debe presentarse integrado en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

---

# 8. CENTRE'S STRATEGIC PLAN 2016-2019

## 8.0. INTRODUCTION

Please provide an overview of the strategic scientific vision of the center for 2016-2019. Include an analysis of major strengths, weaknesses, opportunities and threats (SWOT) of the center to consolidate its international leadership. When referring to the period 2016-2019 you should make specific reference to those actions within the Strategic Plan that will be implemented specifically as part of the Severo Ochoa award. (max. 10.000 characters)

### **8.1. STRATEGIC GOALS LINKED TO THE SCIENTIFIC ACTIVITIES OF THE CENTER 2016-2019**

Please describe the specific strategic objectives of the center for the 2016-2019 period, including any reference to the actions towards improving governance; research priorities and rationale; improvement of research outcomes –publications and other research outputs-; knowledge transfer and collaboration with third parties; scientific infrastructure; increasing collaboration and synergies within the centre and/or with external research units; etc. Emphasize the relationship between the planned strategic actions and the center research capabilities and resources. You should provide a description of the main action lines and specific targets attached to each strategic goal. (max. 30.000 characters)

### **8.2. TRAINING AND RECRUITING STRATEGIC OBJECTIVES 2016-2019**

Please describe the Strategic Plan' actions to: i) improve the centre's doctoral and post-doctoral capabilities–training courses, training and support facilities and overall management of trainees.-; ii) to recruit research staff including international researchers during the period; and iii) finally describe actions that address the gender gap and/or promote women in science within the center (gender action plan). Please give quantitative numbers and targets attached to each action. (max. 20.000 characters)

**Mandatory** under **Supporting 2016-2019** to include a table with the number of PhD students and Postdocs you aim to train during 2016-2019. For PhD students you should provide a preliminary distribution of both the total number of expected trainees and the potential number of predoctoral contracts to be funded by MINECO under the Predoctoral Call by a maximum six main research lines.

**NOTA: el documento a que hace referencia la aplicación telemática ("Annex 10 Doc. "PhD and post doc training 2016-2019") corresponde al contenido mencionado en el párrafo anterior, y debe presentarse integrado en el documento obligatorio "Annex 2. Supporting 2016-2019", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

**No olvide, además, indicar en la segunda tabla del apartado 8.2 del "Annex 2. Supporting 2016-2019", el número de plazas (especificando las líneas estratégicas de investigación a las que se vincularían dichas plazas), de investigadores predoctorales que podrían ser incluidos, en caso de evaluación positiva, en la convocatoria de Contratos Predoctorales para la Formación de Doctores, del Subprograma Estatal de Formación.**

### **8.3. INTERNATIONALIZATION**

Please describe the Strategic Plan' actions designed to improve the centre's international scientific leadership with a specific reference among other actions to those aimed at strengthening collaboration with top research centres, universities and international networks of excellence; to improve the centre's

returns from Horizon 2020, and related actions within the European Research Area. Please give targets attached to each action. (max. 20.000 characters)

#### 8.4. EXPLOITATION AND DIFFUSION OF RESEARCH OUTCOMES 2016-2019

Please refer to the specific actions of the Strategic Plan aimed at fostering the exploitation and dissemination of the center' research outcomes by referring to: the management of IPR; knowledge transfer and collaborative linkages with the business sector and other relevant stakeholders; outreach activities and knowledge diffusion by encouraging open access to scientific publications and underlying research data accordingly to international standards. (max. 10.000 characters)

#### 8.5. STRATEGIC OPPORTUNITY AND SOCIAL IMPACT

Please provide a clear description on how the specific actions of the Centre's Strategic Plan 2016-2019 will contribute to strengthen the centre's scientific base and the potential impact of its outcomes. Please include the estimates of the total funding needs of the center for the period 2016-2019, including the expected sources of funding, with special emphasis on block (non-competitive) funding from public Administration. In this section you should also describe the 2016-2019 Strategic Plan monitoring system and its corresponding indicators. (max. 15.000 characters)

**Mandatory** under **Supporting 2016-2019** to include a Gantt Chart with objectives, milestones and activities for the period, as well as indicators for the overall monitoring of scientific publications, recruiting and training, research output and external sources of funding.

**NOTA: el documento a que hace referencia la aplicación telemática ("Annex 11 Doc. "Monitoring indicators") debe incluir el contenido mencionado en el párrafo anterior, y presentarse integrado en el documento obligatorio "Annex 2. Supporting 2016-2019", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

#### BUDGET BREAKDOWN

You must declare:

- (1) The total requested funding of four million euros distributed annually over the 2016-2019 period.
- (2) The amount over four years estimated to allocate staff costs, which is the sum of the costs associated with new hires and estimated allowances for staff researchers or currently employed by the center.
- (3) The additional allowances are optional and **may not exceed 10% per annum** of the amount of total funding (100,000 Euros / year).
- (4) The **equipment and infrastructure costs included in the running costs may not exceed 25%** of the amount of total funding (250,000 Euros / year).
- (5) Direct costs are the sum of personnel costs and other running costs.
- (6) Indirect costs may not exceed 15% of the total cost of the aid (150,000 Euros / year).
- (7) Before submitting the application you must ensure that the total amount of detailed budget does not exceed 1,000,000 Euros per annum.

All amounts are shown in Euros. Two decimals are allowed, using comma (,) as separator.