

Sesión online European Research Council Advanced Grant 2021

Mayo 2021

Laura Mohedano y Estefanía Muñoz NCPs ERC

BIENVENIDA

NCPs ERC

Soporte a la comunidad investigadora en participando en las convocatorias del European Research Council (ERC)

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Descargo de responsabilidad:

Gran parte de la información de esta presentación está basada en aprendizajes personales y no constituye una información directa de la CE, ni del ERC.

Índice

Estructura de la propuesta ERC

- **Parte curricular**
- **Extended Synopsis**
- **Scientific Proposal**
- **Resources**

Q&A

ERC 2021 Proposal

One deadline | 2 steps evaluation process

The ERC full proposal = B1 + B2 + PartA

Applicant's surname Part B1 ACRONYM

Section a. Extended Synopsis of the scientific proposal (max. 5 pages, references do not count towards the page limit)

The Extended Synopsis should give a concise presentation of the scientific proposal, with particular attention to the ground-breaking nature of the research project, which will allow evaluation panels to access to Step 1 of the evaluation. The flexibility of the extended synopsis approach. Describe the proposed project in the context of the state of the art of the field. References to literature should also be included. Please use a reference style that is commonly used in your discipline such as American Chemical Society (ACS) style, American Medical Association (AMA) style, Modern Language Association (MLA) style, etc. Guidelines on the references to consult are available at <https://www.erc.es/>

Please respect the following formatting constraints: Times New Roman, Arial or similar, at least 10pt size, 22 margins (2.8 cm side and 1.5 cm top and bottom), single line spacing.

B1
Extended Synopsis
5 pags

Applicant's surname Part B2 ACRONYM

ERC Advanced Grant 2020
Part B2
(not evaluated in Step 1)

Sections (a) and (b) of Part B2 together with section (c) References present in the online submission form should not exceed 14 pages. Budget table and References do not count towards the page limit.

*Not highlighted in grey should be deleted.
Please respect the following formatting constraints: Times New Roman, Arial or similar, at least 10pt size, 22 margins (2.8 cm side and 1.5 cm top and bottom), single line spacing.*

Section a. State-of-the-art and objectives

Section b. Methodology

Do NOT include any description of research budget table here (Part B2). The Reference section and the detailed budget table are not part of the online submission (Part A, Section 3 - Budget). This section 3 will be accessed and provided in the paper version.

B2
Scientific proposal
14 pags

* Instructions for completing Part B2 can be found in the "Information for Applicants to the Advanced Grant 2020 Call".

- Parte A – Formularios online
- A1 General Information
- A2 Participants
- A3 Budget
table + description (8000c)
- A4 Ethics and security
- A5 Other questions
Exclusión hasta 3 evaluadores

Annexes

- HI support letter
- Ethics issues and security
- Eligibility window

Part B1 – documento pdf

- Cover Page and summary
- Extended Synopsis (5pags)
- Curriculum vitae (2pags)
- 10 years track-record (2p)

Part B2 – documento pdf (14pags)

- SoA & objectives
- Methodology

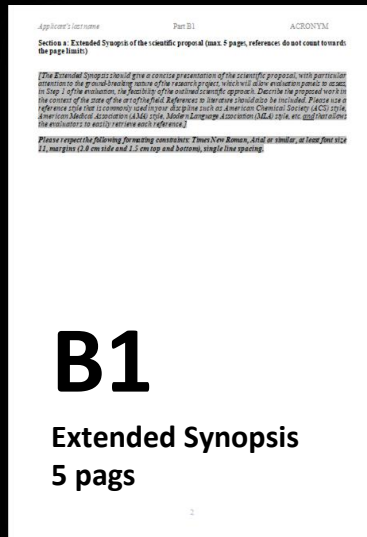
ERC 2021 Proposal

One deadline | 2 steps evaluation process

1 step evaluation

- B1
- Panel Members

The ERC full proposal = B1 + B2 + PartA



B1

Extended Synopsis
5 pags

Part B1 – documento pdf

- Cover Page and summary
- Extended Synopsis (5pags)
- Curriculum vitae (2pags)
- 10 years track-record (2p)

Parte A – Formularios online

A1 General Information
abstract

A2 Participants

A3 Budget

table + description (8000c)

A4 Ethics and security

A5 Other questions

Exclusión hasta 3 evaluadores

ERC 2021 Proposal

One deadline | 2 steps evaluation process

2 step evaluation

- B1 + B2
- Panel Members + External referees

The ERC full proposal = B1 + B2 + PartA

Applicant's surname Part B1 ACRONYM

Section a. Extended Synopsis of the scientific proposal (max. 5 pages, references do not count towards the page limit)

The Extended Synopsis should give a concise presentation of the scientific proposal, with particular attention to the ground-breaking nature of the research project, which will allow evaluation panels to access to Step 1 of the evaluation. The flexibility of the extended synopsis approach. Describe the proposed project in the context of the state of the art of the field. References to literature should also be included. Please use a reference style that is commonly used in your discipline such as American Chemical Society (ACS) style, American Medical Association (AMA) style, Modern Language Association (MLA) style, etc. Qualifications for the evaluation are strictly relevant to the proposal.

Please respect the following formatting constraints: Times New Roman, font size 12 or smaller, at least one side 22, margins (2.8 cm side and 1.5 cm top and bottom), single line spacing.

B1
Extended Synopsis
5 pags

Applicant's surname Part B2 ACRONYM

ERC Advanced Grant 2020
Part B2
(not evaluated in Step 1)

Sections (a) and (b) of Part B2 together with section (c) References present in the online submission form should not exceed 14 pages. Budget table and References do not count towards the page limit.

Not highlighted in grey should be deleted.
Please respect the following formatting constraints: Times New Roman, font size 12 or smaller, at least one side 22, margins (2.8 cm side and 1.5 cm top and bottom), single line spacing.

Section a. State-of-the-art and objectives

Section b. Methodology

Do NOT include any description of research or budget table here (Part B2). The References section and the detailed budget table are not part of the online submission (Part A, Section 3 - Budget). This section will be accessed and provided in the paper version.

B2
Scientific proposal
14 pags

* Instructions for completing Part B2 can be found in the "Information for Applicants to the Advanced Grant 2020 Call".

Parte A – Formularios online

A1 General Information

A2 Participants

A3 Budget

table + description (8000c)

A4 Ethics and security

A5 Other questions

Exclusión hasta 3 evaluadores

% Time Commitment

Part B1 – documento pdf

- Cover Page and summary
- Extended Synopsis (5pags)
- Curriculum vitae (2pags)
- 10 years track-record (2p)

Part B2 – documento pdf (14pags)

- SoA & objectives
- Methodology

Section B1b Curriculum vitae

Section b: Curriculum vitae (max. 2 pages)

[Please follow the template below as closely as possible; it may be adapted as necessary]

Date of birth:
Nationality:
URL for web site:

• EDUCATION

199? PhD
Name of Faculty/ Department, Name of University/ Institution, Country
199? Master
Name of Faculty/ Department, Name of University/ Institution, Country

• CURRENT POSITION(S)

201? – Current Position
Name of Faculty/ Department, Name of University/ Institution/ Country
200? – Current Position
Name of Faculty/ Department, Name of University/ Institution/ Country

• PREVIOUS POSITIONS

200? – 200? Position held
Name of Faculty/ Department, Name of University/ Institution/ Country
200? – 200? Position held
Name of Faculty/ Department, Name of University/ Institution/ Country

• FELLOWSHIPS AND AWARDS

200? – 200? Name of Faculty/ Department/ Centre, Name of University/ Institution/ Country
200? Award received from Name of Institution/ Country
199? – 199? Scholarship, Name of Faculty/ Department/ Centre, Name of University/ Institution/ Country

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

200? – 200? Number of Postdocs/ PhD/ Master Students
Name of Faculty/ Department/ Centre, Name of University/ Institution/ Country

• TEACHING ACTIVITIES (if applicable)

200? – Teaching position – Topic, Name of University/ Institution/ Country
200? – 200? Teaching position – Topic, Name of University/ Institution/ Country

3

Applicant's last name

Part B1

ACRONYM

• ORGANISATION OF SCIENTIFIC MEETINGS (if applicable)

201? Please specify your role and the name of event / Country
200? Please specify type of event / number of participants / Country

• INSTITUTIONAL RESPONSIBILITIES (if applicable)

201? – Faculty member, Name of University/ Institution/ Country
201? – 201? Graduate Student Advisor, Name of University/ Institution/ Country
200? – 200? Member of the Faculty Committee, Name of University/ Institution/ Country
200? – 200? Organizer of the Internal Seminar, Name of University/ Institution/ Country
200? – 200? Member of a Committee; role, Name of University/ Institution/ Country

• REVIEWING ACTIVITIES (if applicable)

201? – Scientific Advisory Board, Name of University/ Institution/ Country
201? – Review Board, Name of University/ Institution/ Country
201? – Review panel member, Name of University/ Institution/ Country
201? – Editorial Board, Name of University/ Institution/ Country
200? – Scientific Advisory Board, Name of University/ Institution/ Country
200? – Reviewer, Name of University/ Institution/ Country
200? – Scientific Evaluation, Name of University/ Institution/ Country
200? – Evaluator, Name of University/ Institution/ Country

• MEMBERSHIPS OF SCIENTIFIC SOCIETIES (if applicable)

201? – Member, Research Network “Name of Research Network”
200? – Associated Member, Name of Faculty/ Department/ Centre, Name of University/ Institution/ Country
200? – Founding Member, Name of Faculty/ Department/ Centre, Name of University/ Institution/ Country

• MAJOR COLLABORATIONS (if applicable)

Name of collaborators, Topic, Name of Faculty/ Department/ Centre, Name of University/ Institution/ Country

• CAREER BREAKS (if applicable)

Exact dates Please indicate the reason and the duration in months.

Section B1b Curriculum vitae

- **Personal Information:** declaración de hechos/ actualizar webs
- **Education:** PhD, Master, Licenciatura/ director(a) PhD/ distinciones
- **Current Position(s):** dobles afiliaciones/ posición adecuada para el proyecto
- **Previous Position(s):** si no hay movimientos, destacar los hechos por etapa
- **Fellowships & Awards:** también las rechazadas
- **Supervision of Students:** capacidad de gestionar un equipo y de crear escuela
- **Teaching Activities (if Applic):** relac. temática del proyecto/distinguir nivel
- **Organis. Scientific Meetings:** muestra liderazgo
- **Institutional Responsibilities:** muestra capacidad de gestión/administrativa
- **Reviewing Activities:** regular reviewer/editorial boards...
- **Memberships Scientific Societies**
- **Major Collaborations:** con nombres e institución/ consorcios, co-autores...
- **Career Breaks**

Section B1b Curriculum vitae

POSITION		FUNDING: GRANTS AND FELLOWSHIPS
2013 – 2018	Ramón y Cajal Fellow, Group Leader. ICMol, UV, Spain	Ramón y Cajal Fellowship (Spanish government)
2011 – 2013	Research Associate, ICMol, UV, Spain	
2010 – 2011	Marie Curie fellow, ICMol, UV, Spain	Marie Curie Int. Out. Fellowship
2008 – 2010	Marie Curie fellow, PITP, UBC, Canada	(CORDIS-FP7)
2007 – 2008†	Postdoctoral fellow, PITP, UBC, Canada	Postdoctoral Fellowship , (Spain)
2007†:	Postdoctoral fellow, ICMol, UV, Spain	Postdoctoral Fellowship
† : until I resigned to accept the next Fellowship		(Valencian regional government)
2004 – 2007	Research Associate, ICMol, UV, Spain	
2000 – 2004:	Early Stage Researcher, Dept. Inorg. Chem, UV, Spain	Predocoral Grant (Valencia)
1998 – 1999	Student Collaborator, Dept. Inorg. Chem, UV, Spain	Collaboration Grant, (Spain)

At the *University A* and the *XYZ Scientific Centre*, Madrid, and from 1995 until now I have directed **17 PhD theses** (5 ongoing), and about **24 Master theses**. I have hosted about **12 postdocs** (2 ongoing). Of my former students, 4 are professors at the *University B* and 2 elsewhere in Paris. One is Associate Professor at *University topC (USA)*, and one is a Lecturer at *University topD (Japan)*. Several have gone into industry, and reached executive positions, including two company chairpersons and a vice-president of *XYZ Corporation*. Roughly half of the postdocs are faculty members at universities in Europe, the USA and Japan (one of them in Spain).

Section B1b Curriculum vitae

- **Commissions of Trust:** experto del Plan Nacional, de COST Actions...
- **Publications > Some Selected Publications**
- **Funding: Projects:** los pasados. Los actuales en sección Funding ID
- **Outreach – Press – Media**
- **Patents**
- **Softwares**
- **Invited presentations to internationally established conferences and/or international advanced schools:** Key note speaker/participadas/conf. relevantes en el campo
- **Research Expeditions leaded:** no son field works/ larga
- **Prizes, awards, academy memberships:** reconocimiento internacional a través de premios científicos o artísticos, pertenencia a academias o artefactos con uso documentado (por ejemplo, diseño arquitectónico o de ingeniería, métodos o herramientas);
- **Major contributions to the early careers of excellent researchers;**
- **Examples of innovation leadership:** para aquellos campos que tenga una relación directa entre el estudio y la aplicabilidad en el mundo real

Minor Changes WP2021

Change of one of the benchmarks indicative of an “exceptional record and recognition” for AdG applicants, “recognised leadership in industrial innovation” changed into “**recognised innovation leadership**”

Section B1b Curriculum vitae

Fuente: <https://www.uv.es/gaita/decesim.html>

Section b: Curriculum Vitae

PERSONAL INFORMATION

Gaita-Ariño, Alejandro Date of birth: May 26, 1976
 Instituto de Ciencia Molecular, Universidad de Valencia (UV)
 c/ Catedrático José Beltrán, 2, 46980, Paterna, Spain
 Tel: +34 96 354 4421 Fax: +34 96 354 3273



web page: <http://www.uv.es/gaita> e-mail: alejandro.gaita@uv.es
 Researcher ID: D-2110-2014

EDUCATION

2004 PhD in Chemistry (grade: excellent Cum Laude) University of Valencia, Spain
 supervisors: Prof. E. Coronado and Dr. J.M. Clemente-Juan
 1999 Misc in Chemistry (grade: excellent) University of Valencia, Spain

POSITION

2013 – 2018 Ramón y Cajal Fellow, Group Leader.
 ICMol, UV, Spain

2011 – 2013 Research Associate, ICMol, UV, Spain

2010 – 2011 Marie Curie fellow, ICMol, UV, Spain

2008 – 2010 Marie Curie fellow, PITP, UBC, Canada

2007 – 2008† Postdoctoral fellow, PITP, UBC, Canada

2007†: Postdoctoral fellow, ICMol, UV, Spain
 †: until I resigned to accept the next Fellowship

2004 – 2007 Research Associate, ICMol, UV, Spain

2000 – 2004: Early Stage Researcher, Dept. Inorg. Chem, UV, Spain Predoctoral Grant (Valencia)

1998 – 1999 Student Collaborator, Dept. Inorg. Chem, UV, Spain Collaboration Grant, (Spain)

RESEARCH INTERESTS

My research interests are in molecular magnetism and quantum computing. I am currently interested in

- (1) the theoretical modeling of molecular nanomagnets (in particular rare-earth single-ion magnets),
- (2) the rational design of molecular spin qubits and of schemes for implementing quantum gates and
- (3) the modeling of the coupling of lattice phonons with molecular excitations.

SUPERVISION OF GRADUATE STUDENTS (2004-2014) and RESEARCH TEAM

Masters + PhD thesis (past): S. Cardona-Serra, M. A. Abdallah Aldamen
 Masters + PhD thesis (ongoing): J. J. Baldovi Jachán, L. Escalera Moreno

I currently lead a small research team formed by S.CS (postdoc), JJBj (PhD) and LEM (Master).

RESEARCH STAYS and MAIN COLLABORATORS

ongoing collaborations with Prof. D. Loss, Universität Basel, CH
 Dr. S. Hill, National High Magnetic Field Lab., US
 Dr. F. Luis, Universidad de Zaragoza, ES
 Dr. L. Bogani, Universität Stuttgart, DE
 Dr. M. Schechter, Ben Gurion University, IL

2013 1 short research stays at Institut für Physik (Basel, CH), 3 weeks
 2007-2010 1 postdoctoral stay at Pacific Institute of Theoretical Physics (Vancouver, CA), 3 years
 2006 2 research stays at Institut für Physik (Basel, CH), 3 months
 1999 – 2005 5 short visits to the Institut Laue Langevin (Grenoble, FR), 2 weeks
 2005 – 2006 2 research stays at Université Paul Sabatier (Toulouse, FR), 7 months

Gaita-Ariño

Part B1

DECRESIM

CAREER RECORD

33 scientific publications in high-impact peer-reviewed international journals, including:
 Nature Nanotechnology¹ (1) Phys. Rev. Lett.² (2) Chem. Commun.³ (2) Chem. Sci. (1)
 J. Am. Chem. Soc. (3) Angew. Chem. Int. Ed. (1) Chem. Soc. Rev. (1) Inorg. Chem. (4)
 Chem. Eur. J. (3) J. Mater. Chem. (2) Dalton Trans. (2)
n° of citations = 1265 (25% in 2013) h-index = 17 citations/article = 38
Corresponding Author (CA) in 6 publications (+4 submitted).
2 publications without my PhD supervisors (+2 submitted).
2 "hot" papers (1 as CA) and 4 "research front" papers (3 as CA),
with a total of 5 "highly cited" papers (3 as CA).²⁷
¹ highlighted in a News and Views; ² I PRL Editors' Suggestion; ³ 1 "referee-recommended"

FUNDING: PROJECTS

I participated in 20 R+D+I projects funded in competitive tenders by public or private bodies.

Highlighted projects in the past 5 years (budget for the UV node):

Project	Coordinator	Amount	Period
STREP Project no. 211284 "Molecular Spin Clusters for Quantum Information Processes", ICT-2007.8.0	M. Affronte	240 k€	2008 – 2011
Consolider-Ingemo CSD2007-00010 "Molecular Nanoscience"	E. Coronado	2200 k€	2007 – 2013
Collaborative project FP7-270369, "Electric Field Control Over Spin Molecules"	H. van der Zant	450 k€	2011 – 2013
ERC Advanced Grant FP7-ERC-247384 "Magnetic Molecules and Hybrid Materials for Molecular Spintronics"	E. Coronado	1679 k€	2010 – 2015
COST Action CM1203 "Polyoxometalate Chemistry for Molecular Nanoscience"	J. Errington	100 k€	2012 – 2016
MAT2011-22785 "Del magnetismo molecular a la espintrónica molecular"	E. Coronado	600 k€	2012 – 2014
MAT2007-61584 "Materiales moleculares para el magnetismo y la electrónica molecular: del diseño, estudio y procesado de nuevos materiales al desarrollo de aplicaciones"	E. Coronado	1244 k€	2007 – 2014
Nanomagnetismo Molecular: del diseño de moléculas magnéticas a la fabricación de dispositivos espintrónicos: PROMETEOII/2013/006	E. Coronado	500 k€	2013 – 2016
PIOF-GA-2008-219514 "Decoherence in magnetic molecules as qubits"	A. Gaita	220 k€	2008 – 2011
Ramón y Cajal project RYC-2012-11908	A. Gaita	210 k€	2013 – 2018
Marie Curie Network SEP-210163218 "Anisotropy in Molecular Compounds of Rare Earths and Uranium"	R. Wimpenny	400 k€	(evaluation stage)
	node coordinator: A. Gaita		

CONTRIBUTIONS TO CONFERENCES

40 contributions to conferences, including 6 contributed oral talks and 7 invited talks:
 2014: "10th International Workshop on Nanomagnetism and Superconductivity at the Nanoscale"
 2013: American Physical Society March Meeting
 2012: 62nd Fujihara Seminar "Frontiers and Perspectives in Molecule-Based Quantum Magnets"
 2012: Symposium "Frontiers in Metal-Oxide Cluster Science"
 2011: Israel Physical Society Conference
 2010: International Chemical Congress of Pacific Basin Societies
 2008: European Materials Research Society Spring Meeting

JOURNAL REFEREEING

I am presently reviewer for the American Chemical Society (*Inorganic Chemistry*), the Royal Society of Chemistry (*Physical Chemistry Chemical Physics*) and Elsevier (*Chemical Physics Letters*).

OTHERS: LANGUAGE PROFICIENCY + OUTREACH

ILR5: Spanish ILR4: English ILR3: Catalan ILR2: German, French, Esperanto
 I have written one scientific outreach article in the general press and 2 upper <0.5% Wikipedia articles.
 I am responsible of a science blog associated with a monthly publication.

27 Source: Essential Science Indicators of the Web of Knowledge
 9

Appendix (funding ID)

Applicant's last name _____ Part B1 ACRONYM _____

Appendix: All ongoing and submitted grants and funding of the PI (Funding ID)
Mandatory information (not counted towards page limits)

On-going Grants (Please indicate "No funding" when applicable):

Project Title	Funding source	Amount (Euros)	Period	Role of the PI	Relation to current ERC proposal ²

Grant applications (Please indicate "No funding" when applicable):

Project Title	Funding source	Amount (Euros)	Period	Role of the PI	Relation to current ERC proposal ²

² Describe clearly any scientific overlap between your ERC application and the current research grant or any grant application.

- Novedad
- Overlap
- Double funding

Appendix: All ongoing and submitted grants and funding of the PI
Mandatory information
(not counted towards page limits)

Section B1c 10 Years track-record

Applicant's last name

Part B1

ACRONYM

Section c: Ten years track-record (max. 2 pages)¹

(see 'Information for Applicants to the Advanced Grant 2019 Call' – instructions for completing 'Part B' of the proposal)

Applicant's last name

Part B1

ACRONYM

*should list important achievements, including up to **10 of the most important publications**. The publications should be properly referenced, including all authors in the published order (see section 1.1 on Research integrity). **Field relevant bibliometric indicators as well as research monographs, any translations may also be included**. If applicable include: **granted patent(s); invited presentations to internationally established conferences and/or international advanced schools; Prizes/Awards/Academy memberships etc.***

Fuente: GfA ERC 2020 AdG (convocatoria pasada!)

(see 'Information for Applicants to the AdG2021 Call' – instructions for completing 'Part B' of the proposal) available from 20/05/2021

¹ Please list the order of authors as indicated in the original publication

¹ Please list the order of authors as indicated in the original publication

ERC AdG achievements track record (last 10 Years)

(Record of achievements appropriate to the field and at least matching one or more of the following benchmarks)

Up to 10 representative publications as main author in major international p-r multi-disciplinary scientific journals and/or in the leading international p-r journals and p-r conference proceedings of their respective research fields

Up to 3 major Research monographs and any translations thereof

+

5 Granted patents

10 Invited presentations to internationally established conferences and/or international advanced schools

3 Research expeditions that the applicant PI has led

- **International recognition** through scientific or artistic prizes/awards or membership in well-regarded Academies or **artefact with documented use** (for example, architectural or engineering design, methods or tools);

- **Organisation of international conferences** in the field of the applicant (membership in the steering and/or organising committee)

- **Major contributions to** launching the careers of outstanding Researchers

- **Examples of innovation leadership**

Evaluation criteria AdG 2021

Excellence is the sole evaluation criteria applied to the PI + Research Project

Principal Investigator - Intellectual capacity and creativity

- To what extent has the PI demonstrated the ability to conduct ground-breaking research?
- To what extent does the PI has/have the required scientific expertise and capacity to successfully execute the project?
- To what extent has the PI demonstrated sound leadership in the training and advancement of young scientists?

Section B1c 10 Years track-record

- **Personal Statements**

Carling

Part B1

FUMI

Section c: Early achievements track-record

Since my first peer-reviewed article in 2002, I have gradually achieved internationally recognition as a leading scholar of migration. My primary areas of expertise have been **migration processes** and the subsequent **transnational practices**. I have maintained a disciplinary identity as a human geographer, but also engaged extensively with migration research in a range of other disciplines, reflected, for instance, in co-authorship with both economists and anthropologists. Much of my research has been **theoretically oriented**, based on **empirical data**. I have invested in **broad methodological competence**, yielding expertise in both ethnographic fieldwork and survey data collection, and command of corresponding specialized software (*Stata, NVivo*).

Fuente: Pathways to an ERC Grant: Learning from Success and Failure . Jørgen Carling. Peace Research Institute Oslo (PRIO)
<https://jorgencarling.files.wordpress.com/2019/10/carling-erc-cv-and-track-record.pdf>

Section B1c 10 Years track-record

Applicant's last name

Part B1

ACRONYM

Section c: Ten years track-record (max. 2 pages)¹

(see 'Information for Applicants to the Advanced Grant 2019 Call' - instructions for completing 'Part B' of the proposal)

10 years track-record (max. 2 pages) should list important achievements, including up to **10 of the most important publications**.

The publications should be **properly referenced**, including all authors in the published order (see section 1.1 on Research integrity). Field relevant **bibliometric indicators** as well as **research monographs, any translations** may also be included. If applicable include: **granted patent(s); invited presentations to internationally established conferences and/or international advanced schools; Prizes/Awards/Academy memberships etc.**

ERC guide for applicants: ***"field-relevant bibliometric indicators may also be included"***.

- ✓ Sólo si agregan valor a su presentación como investigador/a. **Sólo indicadores que sean relevantes para tu campo.**
- ✓ Si el H-Index no es relevante para el campo, no lo uséis. Si hay una alternativa mejor, usad esa. Si no, no mencionar ningún indicador.

¹ Please list the order of authors as indicated in the original publication

guide20-

Section B1c 10 Years track-record

- **H-index**

Las BD usadas para su cálculo influyen el resultado (ISI, Scopus, GoogleScholar)

Sesgo según la disciplina: es más válido para Ciencias de la vida, Química, Física y perjudica a las ingenierías y las ciencias sociales.

Aquellas disciplinas que se manejen en base a monografías (por ej. SH) o actas de congresos (computer sciences) se verán perjudicadas porque no están bien representadas en las BD que calculan el H-index.

“ignoring diversity..... You are making a mistake”

Jean-Pierre BOURGUIGNON

Declaration on Research Assessment (DORA)

But not for WP2021 -> novelty in WP2022

Friday 16 October 2020

14. ERC and Open Science activities

Follow-up on the ERC's withdrawal of support to cOAlition S and related topics

Prof. Paola BOVOLENTA thanked the Open Access WG members for all the work on the topic and the ERCEA Secretariat of the WG for the excellent summary of the issues at stake. The ScC members then had a discussion on possible follow up actions.

San Francisco Declaration on Research Assessment (DORA)

Prof. Paola BOVOLENTA reported on the outcome of the WG discussions on the ERC's alignment with the DORA principles. Following the discussion, the ScC voted in favour of signing DORA.

Fuente: <https://erc.europa.eu/sites/default/files/document/file/minutes-erc-scientific-council-meeting-october-2020.pdf>

Declaration on Research Assessment (DORA)

But not for WP2021 -> novelty in WP2022



[The Declaration](#)

[Signers](#)

[Case Studies](#)

[Resources](#)

[Blog](#)



The signatories of the San Francisco Declaration on Research Assessment support the adoption of the following practices in research assessment.

General Recommendation

1. Do not use journal-based metrics, such as Journal Impact Factors, as a surrogate measure of the quality of individual research articles, to assess an individual scientist's contributions, or in hiring, promotion, or funding decisions.

For funding agencies

2. Be explicit about the criteria used in evaluating the scientific productivity of grant applicants and clearly highlight, especially for early-stage investigators, that the scientific content of a paper is much more important than publication metrics or the identity of the journal in which it was published.

3. For the purposes of research assessment, consider the value and impact of all research outputs (including datasets and software) in addition to research publications, and consider a broad range of impact measures including qualitative indicators of research impact, such as influence on policy and practice.

Section B1c 10 Years track-record

- The particularities of your field research

Top ten publications in the last ten years

Note: In my field, the top conferences are ACM CHI and ACM UIST. Publication in these conferences is considered as prestigious as in the top journals in the field (ACM TOCHI, IJHCS). I work collaboratively with students and colleagues. As the most senior researcher, my name is usually last in the list of authors. However I only co-sign papers for which I have substantially contributed to both the work and the writing.

My application in 2014

The followings are five selected papers. ...

Improvement in 2016

In theoretical computer science, the most important venues of publications are conferences and not journals. STOC and FOCS are widely recognized as the most prestigious conferences in the field worldwide. I have published X papers in FOCS and STOC ...

The followings are five selected papers. ...

Section B1c 10 Years track-record

Carling Part B1 FUM

Section C: Early achievements track-record

Since my first peer-reviewed article in 2002, I have gradually achieved international recognition as a leading scholar of migration. My primary areas of expertise have been **migration processes** and the subsequent **transnational practices**. I have maintained a disciplinary identity as a human geographer, but also engaged extensively with migration research in a range of other disciplines, reflected, for instance, in co-authorship with both economists and anthropologists. Much of my research has been **theoretically oriented**, based on **empirical data**. I have invested in **broad methodological competence**, yielding expertise in both ethnographic fieldwork and survey data collection, and command of corresponding specialized software (Stata, NVivo).

PUBLICATION AND CITATION STATISTICS

I have published **27 articles** in international peer-reviewed journals and **14 book chapters**. About half have been single-authored. In addition, I have co-edited **four special issues** of international peer-reviewed journals and **two books**, and written about 30 non-peer-reviewed scientific reports and briefs. In total, my publications have **3440 citations** in Google Scholar and **820 citations** in Scopus, excluding self-citations. My **h-index** is **28** in Google Scholar and **14** in Scopus.

RESEARCH COMMUNICATION

I have become increasingly committed to excellence in research communication, and followed up on this commitment through learning, teaching, and practice. For my own research, I have acquired skills in visualization techniques, video production, and social media. I have developed a personal web site (jorgencarling.org), an online resource on the meaning of "migrants" (meaning4u.org) and a research-oriented Twitter account with 3400 followers (@thor.com.jorgencarling). I have also contributed to influential blogs, including the *ISU Impact Blog* and the *World Economic Forum Agenda*.

SELECTED ACHIEVEMENTS



Front-page feature on international migration in the *New York Times* based on my PhD research (2007)



Award of largest-ever project grant in the welfare research area of the Research Council of Norway (2010)



Co-editing the 50th Anniversary issue of the *International Migration Review*, the most prominent journal in my field (2014)



Discovery of "migrants" as a conceptual tool for making sense of the social dynamics of remittances (2014)



Invitation to serve as expert panelist on migrant smuggling, United Nations, Vienna (2017)

KEYNOTE LECTURES (PAST THREE YEARS)

- 2018 *Unity and diversity in contemporary international migration*. Keynote lecture, Oslo Interdisciplinary Conference on Migration: Vulnerability, Protection, and Agency, University of Oslo, Norway.
- 2017 *Migrant smuggling issues, patterns and policy challenges*. Keynote lecture, Istanbul Regional Conference on Counter Migrant Smuggling, International Organization for Migration, Istanbul.
- 2016 *Unravelling the causes of migration*. Keynote lecture, The Hugo Conference: Environment, Migration, Politics, University of Liège.
- 2016 *What is transnational? Exploring the ontologies of an evocative adjective*. Keynote lecture, New Perspectives on Transnational Living, University of Maastricht.

SELECTED INVITED PRESENTATIONS (PAST THREE YEARS)

- 2018 *The complexity of global migrations*. Invited lecture for the Aula Mediterranea inter-university lecture series, European Institute of the Mediterranean, Barcelona, Spain.
- 2017 *How does migration arise?* Invited presentation, International Organization for Migration Council, Geneva, Switzerland.
- 2017 *Remittance and migration*. Invited lecture in research seminar series, Department of Sociology, Hitotsubashi University, Japan.
- 2015 *Migration as imagination*. Invited seminar, Sussex Centre for Migration Research and Department of Geography, University of Sussex, United Kingdom.

14

Carling Part B1 FUM

SELECTED PUBLICATIONS (REVERSE CHRONOLOGICAL ORDER)












Carling, J. and Schewel, K. (2017), online ahead of print) 'Revisiting aspiration and ability in international migration.' *Journal of Ethnic and Migration Studies* 43, 2118-2162. Google Scholar citations: 3

Carling, J. (2014) 'Scripting remittances: making sense of money transfers in transnational relationships.' *International Migration Review*, 48:2118-2162. Google Scholar citations: 58

Carling, J., Edal, M.R., and Errati, R. (2014) 'Beyond the insider-outsider divide in migration research.' *Migration Studies*, 2(1):36-54. Google Scholar citations: 77

Carling, J. and Patterson, S.V. (2014) 'Hetera migration intentions in the integration-transnationalism matrix.' *International Migration*, 52(4):13-30. Google Scholar citations: 47

Carling, J. and Hernández-Carrión, M. (2011) 'Protecting Europe and protecting migrants?' *British Journal of Politics and International Relations*, 13(1):42-58. Google Scholar citations: 84

Carling, J. (2008) 'The human dynamics of migrant transnationalism.' *Ethnic and Racial Studies*, 31(8):1432-1477. Google Scholar citations: 205

Carling, J. (2008) 'The determinants of migrant remittances.' *Oxford Review of Economic Policy*, 24(3):582-599. Google Scholar citations: 210

Carling, J. (2007) 'Migration control and migrant fatalities at the Spanish-Africa borders.' *International Migration Review*, 41(2):316-343. Google Scholar citations: 258

Hagen, H.O. and Carling, J. (2005) 'On the edge of the Chinese diaspora: The surge of Balkan business in an African city.' *Ethnic and Racial Studies*, 28(4):639-662. Google Scholar citations: 162

Carling, J. (2002) 'Migration in the age of involuntary homelessness: theoretical reflections and Cape Verdean experiences.' *Journal of Ethnic and Migration Studies*, 28(1):5-42. Google Scholar citations: 398

An analytical review article that examines bottlenecks and potential in migration research over the past fifteen years. Identifies 'two-step approaches' and informs the current proposal.

A theory-building article that draws upon more than 100 ethnographic studies of migrant remittances and makes sense of the dynamics at work by invoking the sociological concept of 'scripts'.

A jointly authored article in which we draw upon personal experience to examine the role of the researcher's background in migration research. The article is currently on reading lists at several universities worldwide.

An empirical article on return migration that introduces an inductive framework for studying relations between integration and transnationalism.

A theoretical explanation of why counter-terrorist surveillance and control has become a preferred approach to migration management. The refugee crisis of 2015-16 gave the article renewed relevance, reflected in citations.

An ethnographically based analysis of unequal relationships between migrants and the people they leave behind. It is referenced in the work of the foremost scholars in the field, including R. King, P. Levitt, C. Meagrier, and B. Yeoh.

A review article that systematizes approaches to statistical analysis of the determinants of remittances. It quickly became a recurrent reference in new empirical work in economics and other disciplines.

The first systematic analysis of migrants' risk of dying at sea along Europe's southern borders. The article informed the growth of research on the dynamics of migrant smuggling and migrant fatalities in Europe.

An early study of Chinese economic expansion in Africa. This article became a key reference for the burgeoning study of China-Africa relations in the decade that followed its publication.

A key theoretical contribution to migration studies, focused on the aspiration/ability model and the notion of involuntary homelessness. This article is cited with increasing frequency after fifteen years, rising to 63 citations in 2017.

Fuente: Pathways to an ERC Grant: Learning from Success and Failure . Jørgen Carling. Peace Research Institute Oslo (PRIO) <https://jorgencarling.files.wordpress.com/2019/10/carling-erc-cv-and-track-record.pdf>

Section B1c 10 Years track-record

- Selected Achievements
- Selected Publications

SELECTED ACHIEVEMENTS



Front-page feature on international migration in *The New York Times* based on my PhD research (2007)



Award of largest-ever project grant in the welfare research area of the Research Council of Norway (2010)



Co-editing the 50th Anniversary Issue of the *International Migration Review*, the most prominent journal in my field (2014)



Discovery of 'scripts' as a conceptual tool for making sense of social dynamics in remittances



SELECTED PUBLICATIONS (REVERSE CHRONOLOGICAL ORDER)



Carling, J. and Schewel, K. (2017, online ahead of print) '**Revisiting aspiration and ability in international migration.**' *Journal of Ethnic and Migration Studies*:1-19.

Google Scholar citations:..... 3



Carling, J. (2014) '**Scripting remittances: making sense of money transfers in transnational relationships.**' *International Migration Review*, 48:S218-S262.

Google Scholar citations:..... 58



Carling, J., Erdal, M.B. and Ezzati, R. (2014) '**Beyond the insider-outsider divide in migration research.**' *Migration Studies*, 2(1):36-54.

Google Scholar citations:..... 77

An analytical review article that examines bottlenecks and potential in migration research over the past fifteen years, identifies 'two-step approaches' and informs the current proposal.

A theory-building article that draws upon more than 100 ethnographic studies of migrant remittances and makes sense of the dynamics at work by invoking the sociological concept of 'scripts'.

A jointly authored article in which we draw upon personal experience to examine the role of the researcher's background in migration research. The article is currently on reading lists at several universities worldwide.

Fuente: Pathways to an ERC Grant: Learning from Success and Failure . Jørgen Carling. Peace Research Institute Oslo (PRIO)

<https://jorgencarling.files.wordpress.com/2019/10/carling-erc-cv-and-track-record.pdf>

Abstract

Applicant's last name

Part B1

ACRONYM

**ERC Advanced Grant 2019
Research proposal [Part B1]¹**
(Part B1 is evaluated both in Step 1 and Step 2
Part B2 is evaluated in Step 2 only)

Proposal Full Title

PROPOSAL ACRONYM

Cover Page:

- Name of the Principal Investigator (PI)
- Name of the PI's host institution for the project
- Proposal duration in months

The abstract should provide the reader with a clear understanding of the objectives of the research proposal and how they will be achieved.

Used as short description of your research proposal in the evaluation process and in communications to contact in particular the potential remote referees and/or inform the Commission and/or the programme management committees..

It must therefore be short and precise and should not contain confidential information.

- No confidential information
- Identical to A forms

Cross-panel box. If a secondary panel is indicated in the A forms.

Applicant's last name

Part B1

ACRONYM

**ERC Advanced Grant 2019
Research proposal [Part B1]¹**

The Jagiellonians: Dynasty, Identity and
Memory in Central Europe
JAGEUROPE

Cover Page:

- Name of the Principal Investigator (PI)
- Name of the PI's host institution for the project
- Proposal duration in months

This ERC Starter Grant project will fund an interdisciplinary, transnational and groundbreaking study of the Jagiellonian dynasty (c.1386-1596) and its role, and legacy, in the development of identity in what we now call Central Europe. One of the most spectacularly successful of early modern dynasties, comparable only to the Habsburgs, in 1500 the Jagiellonians ruled a third of continental Europe, an area comprising no fewer than 14 present-day states. Uniquely among European dynasties in this period, the Jagiellonians created a dynastic regional hegemony, a geographical 'bloc' of neighbouring monarchies. Our knowledge of the Jagiellonians is, however, limited and highly fragmented along both national and disciplinary lines. The project will provide the first treatment of this leading Renaissance-era dynasty as a supra-national entity; it will offer a major new investigation of Renaissance dynasty itself as a political and cultural institution; explore the part played by the Jagiellonians in the evolution of pre-modern local or 'national' and regional identities, and investigate the ways in which divergent memories of their rule have, from 1596 onwards, shaped modern national identities in Central Europe. The project will transcend scholarly divisions – between disciplines (e.g. art history, anthropology, political history), between period specialisations (late medieval, early modern, modern) and between individual national historiographies (Polish, German, Czech etc.), to offer a metahistory of the meanings attributed to this landmark European dynasty, from the founder Jogaila (d.1434) to Radek Sikorski, Poland's current foreign minister. The research will be undertaken by a multi-lingual team of 5 post-doctoral researchers, led by the PI, drawing on a range of written and visual sources produced by and about the Jagiellonians over six centuries



Ejemplo ficticio de portada con
proyecto financiado

Abstract (A forms)

 **Proposal Submission Forms**
European Research Council Executive Agency

Proposal ID **SEP-210680754** Acronym **AdG-2020**

1 - General information

Topic	ERC-2020-ADG	Type of Action	ERC-ADG
Call Identifier	ERC-2020-ADG	Deadline Id	ERC-2020-ADG
Acronym	<input type="text" value="AdG-2020"/>		
Proposal title	<input type="text" value="The title should be no longer than 200 characters (with spaces) and should be understandable to the non-specialist in your field."/>		
	<small>Note that for technical reasons, the following characters are not accepted in the Proposal Title and will be removed: < > * &</small>		
Duration in months	<input type="text"/>		
Primary ERC Review Panel*	<input type="text" value="LS6 - Immunity and Infection"/>		
Secondary ERC Review Panel	<input type="text"/> (if applicable)		
ERC Keyword 1*	<input type="text" value="As first keyword please choose one which is linked to the Primary Review Panel."/>		
	<small>Please select, if applicable, the ERC keyword(s) that best characterise the subject of your proposal in order of priority.</small>		
ERC Keyword 2	<input type="text" value="Not applicable"/>		
ERC Keyword 3	<input type="text" value="Not applicable"/>		
ERC Keyword 4	<input type="text" value="Not applicable"/>		
Free keywords	<input type="text" value="In addition, please enter free text keywords that you consider best characterise the scope of your proposal. The choice of keywords should take into account any multi-disciplinary aspects of the proposal."/>		

 **Proposal Submission Forms**
European Research Council Executive Agency

Proposal ID **SEP-210680754** Acronym **AdG-2020**

Abstract*

Short Summary

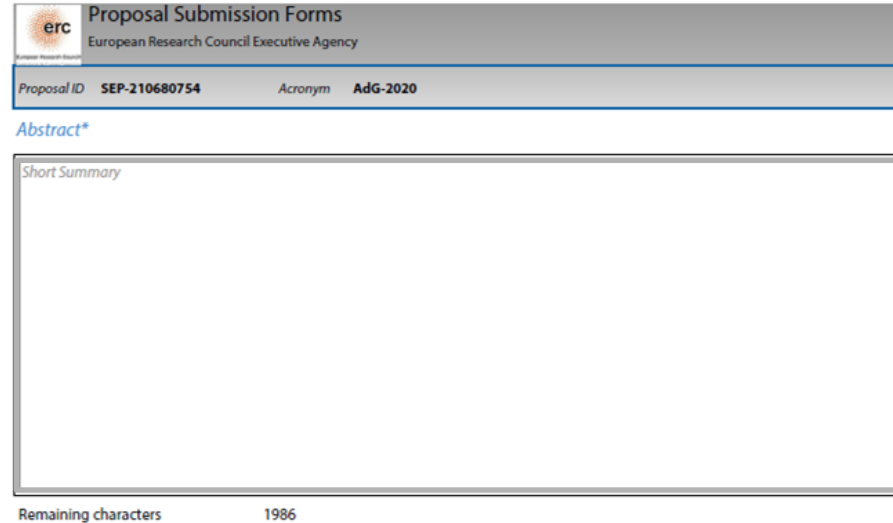
Idéntico al de la B1

Remaining characters 1986

In order to best review your application, do you agree that the above non-confidential proposal title and abstract can be used, without disclosing your identity, when contacting potential reviewers? Yes No

Abstract (A forms)

El **abstract** sin datos personales es la información que se manda a los referees externos después del panel meeting de la 1ª fase de la evaluación para que intervengan evaluando durante la segunda fase de la evaluación



erc Proposal Submission Forms
European Research Council Executive Agency

Proposal ID SEP-210680754 Acronym AdG-2020

Abstract*

Short Summary

Remaining characters 1986

In order to best review your application, do you agree that the above non-confidential proposal title and abstract can be used, without disclosing your identity, when contacting potential reviewers?*

Yes

No

¿Por dónde empezar?

Applicant's last name Part B1 ACRONYM

Section a. Extended Synopsis of the scientific proposal (max. 5 pages, references do not count towards the page limits)

[The Extended Synopsis should give a concise presentation of the scientific proposal, with particular attention to the ground-breaking nature of the research project, which will allow evaluators panel to assess in Step 1 of the evaluation, the feasibility of the outlined scientific approach. Describe the proposed work in the context of the state of the art of the field. References to literature should also be included. Please use a reference style that is commonly used in your discipline such as American Chemical Society (ACS) style, American Medical Association (AMA) style, Modern Language Association (MLA) style, etc. and that allows the evaluators to easily retrieve each reference.]

Please respect the following formatting constraints: Times New Roman, Arial or similar, at least font size 11, margins (2.0 cm side and 1.5 cm top and bottom), single line spacing.

B1

5 pags



Applicant's last name Part B2 ACRONYM

**ERC Advanced Grant 2020
Part B2¹
(not evaluated in Step 1)**

Sections (a) and (b) of Part B2 together with section (c) Resources present in the online submission form should not exceed 15 pages. Budget table and References do not count towards the page limits.

*Text highlighted in grey should be deleted.
Please respect the following formatting constraints: Times New Roman, Arial or similar, at least font size 11, margins (2.0 cm side and 1.5 cm top and bottom), single line spacing.*

Section a. State-of-the-art and objectives

Section b. Methodology

Do NOT include any description of resources or budget table here (Part B2). The Resources section and the detailed budget table are now part of the online submission form (Part A, Section 3 - Budget). This section 3 will be extracted and provided to the peer reviewers.

B2

14 pags

¹ Instructions for completing Part B2 can be found in the 'Information for Applicants to the Advanced Grant 2020 Call'.



¿Por dónde empezar?

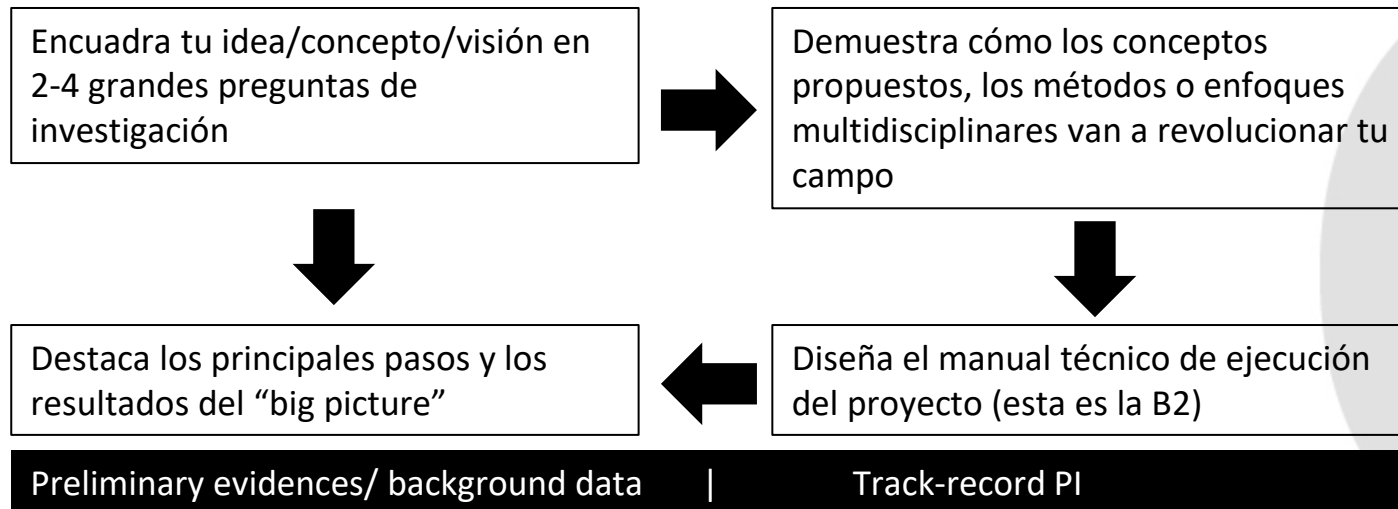
Olvida de los templates: empieza pensando sin límites.

Piensa en cuál es tu **Visión, tu Concepto, tu IDEA.**

Piensa en la **naturaleza high risk – high gain** de tu Visión, tu Concepto, tu IDEA. La gran ganancia tiene que ser evidente, tanto para semi-expertos como para muy expertos.

Asegúrate de que sabes cómo vas a revolucionar tu campo de investigación.

Vuelve a los templates: dedica la misma atención y esfuerzo a la B1 ya la B2. Recuerda que estás solicitando financiación para un grupo entero, no únicamente para ti durante 5 años. **Dimensiona la idea a los 2,5M€ que da la convocatoria AdG**





Each proposal page:

header [PI's last name, acronym of the proposal, and the reference to the respective proposal section (Part B1 or Part B2)]

Page Format	Font Type	Font Size	Line Spacing	Margins
A4	Times New Roman Arial or similar	At least 11	Single	2 cm side 1.5 bottom

Page limits will be strictly applied!

ERC 2021 templates



- Important challenges
- Ambitious objectives (novel concept or approach)
- High-risk/high-gain balance
- Feasibility of outlined scientific approach
- Appropriate methodology and working arrangements
- Novel methodology
- Timescales and resources and PI commitment

Section B1a (Extended Synopsis)

Applicant's last name

Part B1

ACRONYM

Section a: Extended Synopsis of the scientific proposal (max. 5 pages, references do not count towards the page limit)

The Extended Synopsis should give a concise presentation of the scientific proposal, with particular attention to the **ground-breaking nature of the research project**, which will allow evaluation panels to assess, in Step 1 of the evaluation, **the feasibility of the outlined scientific approach**.

Describe the proposed work in the context of the state of the art of the field.

References to literature should also be included.

*GfA StG&CoG2020 p.18**

Section a: Extended Synopsis of the scientific proposal (max. 5 pages) should contain all essential information including the feasibility of the scientific proposal since the panel will only evaluate Part B1 at Step 1.

References should be included (they do not count towards the page limits).

**(see 'Information for Applicants to the AdG2021 Call'– instructions for completing 'Part B' of the proposal) available from 20/05/2021*

Section B2 (Scientific Proposal)

Applicant's last name

Part B2

ACRONYM

ERC Advanced Grant 2020
Part B2¹
(not evaluated in Step 1)

Part B2 (References should be included – they do not count towards the page limit)

Section a. State-of-the-art and objectives

Section b. Methodology

The limit of **14 pages** applicable to the 'Scientific Proposal' as per the ERC WP 2021 will apply to Part B2.

Do NOT include any description of resources or budget table here (Part B2).

¹ Instructions for completing Part B2 can be found in the 'Information for Applicants to the Advanced Grant 2020 Call'.

*GfA StG&CoG2020 p.18-19**

Section a. State-of-the-art and objectives

Specify the proposal **objectives in the context of the state of the art** in the research field. It should be clear **how** and **why** the proposed work is important for the field, and what **impact** it will have if successful, such as how it may open up new horizons or opportunities for science, technology or scholarship. Specify any particularly challenging or **unconventional aspects** of the proposal, including multi- or inter-disciplinary aspects.

Section b. Methodology

Describe the proposed methodology in detail including any **key intermediate goals**. Explain and justify the **methodology in relation to the state of the art**, and particularly novel or unconventional aspects addressing the 'high-risk/high-gain' balance. Highlight **any intermediate stages** where results may require adjustments to the project planning. In case you ask that team members are engaged by another host institution, their participation has to be fully justified by the scientific added value they bring to the project.

 ***(see 'Information for Applicants to the AdG2021 Call' – instructions for completing 'Part B' of the proposal) available from 20/05/2021**

Evaluation criteria AdG 2021

Excellence is the sole evaluation criteria applied to the PI + Research Project

Research Project - Ground-breaking nature, ambition and feasibility

Ground-breaking nature and potential impact of the research project (B1+B2)

- To what extent does the proposed research address important challenges?
- To what extent are the objectives ambitious and beyond the state of the art (e.g. novel concepts and approaches or development between or across disciplines)?
- To what extent is the proposed research high risk-high gain (i.e. if successful the payoffs will be very significant, but there is a high risk that the research project does not entirely fulfil its aims)?

Scientific Approach

- To what extent is the outlined scientific approach feasible bearing in mind the extent that the proposed research is high risk/high gain? (B1)
- To what extent are the proposed research methodology and working arrangements appropriate to achieve the goals of the project? (B2)
- To what extent does the proposal involve the development of novel methodology? (B2)
- To what extent are the proposed timescales, resources and PI commitment adequate and properly justified? (B2)

Dimensiones del proyecto

Ground-breaking nature and potential impact of the research project

- *Contribuciones capaces de dirigir avances substanciales en el campo científico o en los campos adyacentes*
- *Se refiere a los importantes pasos que hay que dar en la propuesta para alcanzar el impacto.*
- *Dimensión más operativa*

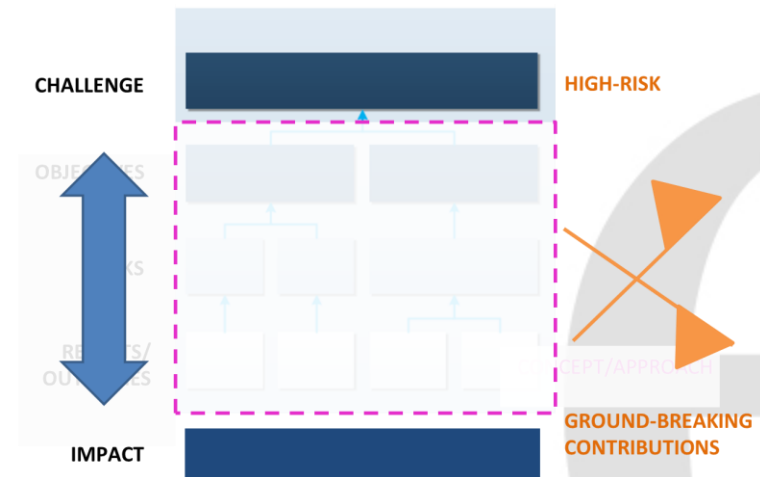
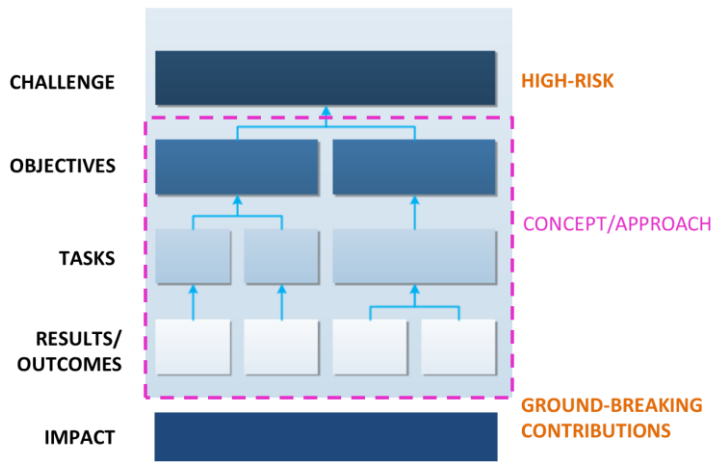
research high risk-high gain

- *Gran ganancia para el campo, cuál es el salto científico (breakthrough).*
- *¿cuál es tu gran pregunta de investigación?*
- *Esta dimensión permitirá abrir nuevos horizontes en el campo.*
- *Dimensión más conceptual*

Estructura

Narración de la propuesta encuadrada en un marco lógico-conceptual que permita entender la ejecución del proyecto como consecuencia de un conjunto de acontecimientos relacionados y que tienen un orden conceptual.

Hilo argumental que conteste a los criterios de evaluación



Estructura – B1

Research Project

Ground-breaking nature and potential impact of the research project (B1+B2)

- important challenges
- ambitious objectives and beyond the state of the art (novel concepts, approaches or development between or across disciplines)

Scientific Approach

- feasible scientific approachhigh risk/high gain? (B1)
- research methodology and working arrangements? (B2)
- development of novel methodology (B2)
- timescales, resources and PI commitment adequate? (B2)

Ground-breaking nature and potential impact of the research project (B1+B2)

- high risk-high gain research (B1+B2)

Estructura – B2

Research Project

Ground-breaking nature and potential impact of the research project (B1+B2)

- important challenges
- ambitious objectives and beyond the state of the art (novel concepts, approaches or development between or across disciplines)

Scientific Approach

- feasible scientific approach ...high risk/high gain? (B1)
- research methodology and working arrangements? (B2)
- development of novel methodology (B2)
- timescales, resources and PI commitment adequate? (B2)

Ground-breaking nature and potential impact of the research project (B1+B2)

- high risk-high gain research (B1+B2)

...important challenges

¿Cuál es la Gran Pregunta de Investigación?

¿Qué es lo que tenemos que entender?

¿Qué es lo que debemos saber sobre (X fenómeno) para poder empezar a hacer algo que impacte en Y (campo científico, industria, sociedad,...)?

¿Cómo es la naturaleza de este reto que quieres acometer?

¿Es un reto teórico, conceptual, aplicado?

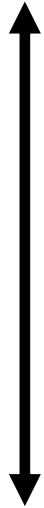
¿Es un reto común en tu campo de investigación?

por ej. curar el cáncer...

En este caso el proyecto necesitará de una idea y concepto de proyecto radicalmente novedosa

...important challenges

¿Cuál es la Gran Pregunta de Investigación?



Gran Respuesta de Investigación

Breakthrough

¿Cómo vamos a dirigirnos a los challenges y cómo vamos a combinar los resultados para que éstos constituyan una simetría de lo que es el challenge?

...important challenges

¿Cuál es la Gran Pregunta de Investigación?

BBC Menú

NEWS | MUNDO

Noticias | América Latina | ¿Hablas español? | Internacional | Economía | Tecnología | Ciencia

Por qué la turbulencia es uno de los más grandes misterios irresueltos de la Física

Redacción
BBC Mundo

16 diciembre 2017

f t w e Compartir



GETTY IMAGES

¿Quién no ha sufrido con la turbulencia de un avión?

≡ **EL PAÍS**

Te quedan **8** artículos gratis este mes

Desentrañando la turbulencia

Recientemente se ha probado un resultado sobre la turbulencia, la conjetura de que se puede precisar los modelos de fluidos

f t w e 1

ANTONIO CÓRDOBA  

4 MAY 2017 - 18:15 CEST



Llegar a [comprender la naturaleza de los fenómenos turbulentos](#), desde sus primeros principios matemáticos, es un objetivo a la vez importante y ambicioso en el que todavía nos queda un largo camino por recorrer. La turbulencia está detrás de los tornados, los huracanes, las mangas marinas, y entenderla es clave para predecir la evolución de los frentes atmosféricos. Hace poco ha sido resuelto uno de los problemas concretos que era un

...important challenges

¿Cuál es la Gran Pregunta de Investigación?

Turbulence is a fundamental unsolved problem, at whose core are the multiscale processes that transfer, for example, energy across the inertial range of scales, or momentum across wall-bounded shear flows.

Turbulence is also key to applications, from industrial design and energy generation to climate dynamics, where the worst uncertainties are often due to its modelling....

The premise of this proposal is that those **new capabilities should allow us to elucidate, once and for all, the physics underlying the multiscale transfer processes in turbulence in the next five years**, especially in shear flows near walls. That will allow the formulation of more realistic engineering models, but the immediate goal of the proposal is to answer the fundamental questions that have resisted two centuries of attack by physicists and engineers [...]

Neither large-scale computing nor data mining are trivial activities, but **our group has specialised in both during the past 20 years, particularly for the study of turbulence.**

Multiscale dynamics of turbulent flows

MULTIFLOW ERC-2010-AdG PE8

challenge

**Groundbreaking nature/
Groundbreaking contributions**

feasibility

...ambitious objectives beyond SoA

¿Cómo presentar los objetivos?

separadamente

en combinación con preguntas de investigación

en combinación con conjeturas/hipótesis...

Objetivos más allá del Estado del Arte

- Demostrar por qué los objetivos del proyecto son ambiciosos con respecto a lo que se ha hecho hasta ahora (POR TI/por otros)
 - El SoA ayuda a clarificar conceptos y términos usados durante la escritura del proyecto
 - Ayuda a entender cuáles son los gaps del campo y, por tanto, ayuda a entender la necesidad de responder AHORA y POR TI a esa Gran Pregunta de Investigación
 - Demuestra el conocimiento del IP en los problemas metodológicos, conceptuales, teóricos de campo
 - Demuestra el sentido crítico del IP con sus aportes previos al SoA
- ✓ **Preliminary evidence, preliminary data**

...ambitious objectives beyond SoA

- Operacionalizar la Gran Pregunta de Investigación



The overall objective of this project is:

R

To study the associations between the social and physical features of the urban environment in relation to population cardiovascular health.

The secondary objectives are the following:

R

To run a formative research phase using an qualitative approach to identify and understand the main features of the environment in relation to CVD and the main pathways of this relation.

R

To develop a methodology based on state of the art techniques to characterize the social and physical urban environments in a systematic and accurate fashion.

R

To compare the already studied relation between the urban environment and cardiovascular health in the United States with this relation in Europe.

R

To evaluate naturally occurring changes (natural experiments) such as public policy interventions occurring during the time of the study modifying the food and physical activity environment.

Groundbreaking contributions
Generar evidencia científica relevante
para prevenir la 1ª causa de muerte en
EU a nivel poblacional

Fuente: <https://hhhproject.eu/starting-grant>

...Novel concepts and approaches or developments between or across disciplines

El concepto y enfoque sería la idea subyacente (considerada en su conjunto) de la propuesta

Una idea no convencional

- nuevos conceptos que no existían antes
- uso de conceptos existentes a un contexto o campo diferente
- nuevas combinaciones de principios científicos relacionados
- nuevas combinaciones de principios científicos no relacionados hasta ahora

Una nueva idea necesitará un nuevo enfoque

novel theoretical framework (SH)

...Novel concepts and approaches or developments between or across disciplines

Air transport has by and large been studied as a transportation process, in which different elements, e.g. aircraft or passengers, move within the system. While intuitive, this approach entails several drawbacks [...]. The lack of a better approach is in part responsible for our inability to fully understand delay propagation, one of the most important phenomena in air transport. ARCTIC proposes an ambitious program to change the conceptual framework used to analyse air transport, inspired by the way the brain is studied in neuroscience. It is based on understanding air transport as an information processing system, in which the movement of aircraft is merely a vehicle for information transfer. [...] The approach also entails important challenges, [...] point towards a radically new way of thinking about the dynamics of air transport. [...]

**Novel
concept**

Air Transport as Information and Computation ARCTIC ERC-2019-STG SH2

Feasible scientific approach vs. methodology

B1a

- *feasible outlined scientific approach bearing in mind the research is high risk/high gain*

- Concise and clear (5 pages)
- All the essential information
- General overview of the project
- Emphasis on ground-breaking nature
- **Feasibility** (\neq detailed methodology)
- Support feasibility with preliminary evidences
- Know your competitors and the state-of-art
- Why is your idea and scientific approach outstanding? Potential High gain
- Risk assessment
- Explain collaborations
- Research design

B2

- *research methodology and working arrangements*
- *development of novel methodology*
- *timescales, resources and PI commitment*

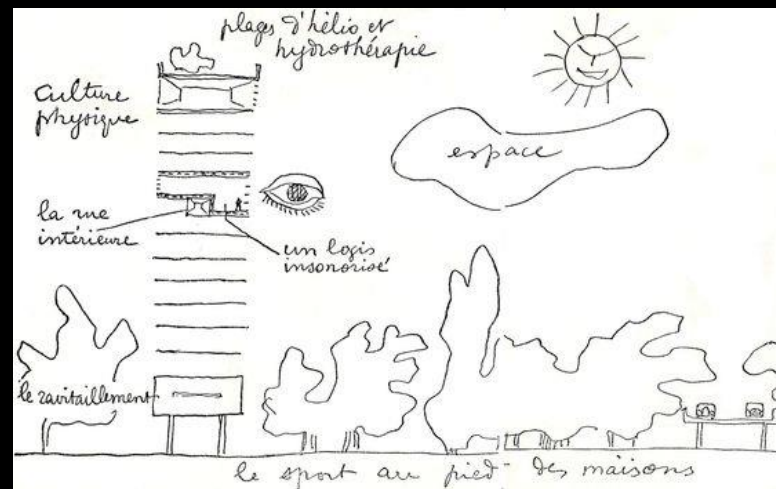
- Do not repeat extensively from part B1. Do not copy-paste
- Provide detail –thoroughly- on **methodology**, work plan, selection of case studies,...
- Explain any risk mitigation strategy
- Explain your timeline, link them to the research objectives or tasks.
- Explain need of additional team members (if applicable)

Feasible scientific approach vs. methodology

Grado de detalle...

B1a: “feasible outlined scientific approach bearing in mind the research is high risk/high gain”

B1a



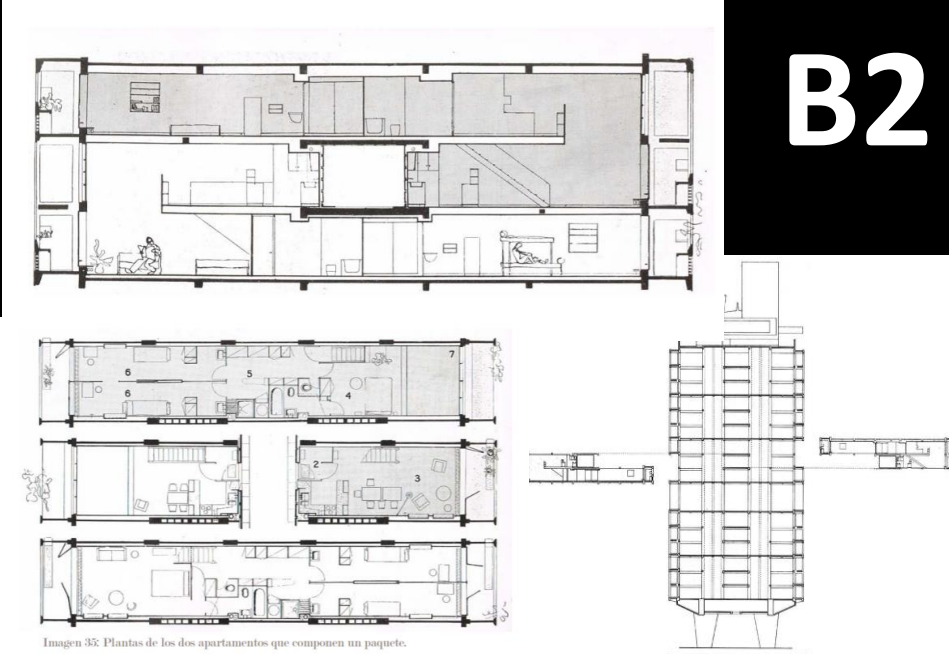
Idea de concepto:

Le Corbusier | Unite d'Habitation | Marsella, Francia | 1945-1952

Feasible scientific approach vs. methodology

Grado de detalle...

B2: “methodology appropriate to achieve the goals”



B2

Imagen 35: Plantas de los dos apartamentos que componen un paquete.

Desarrollo de la idea de concepto:
Sección transversal célula y edificio
Plantas de los dos apartamentos que componen un paquete

Impacto más allá de los 5 años...

El proyecto ejecutado



Le Corbusier | Unite d'Habitation |
Marsella, Francia | 1945-1952

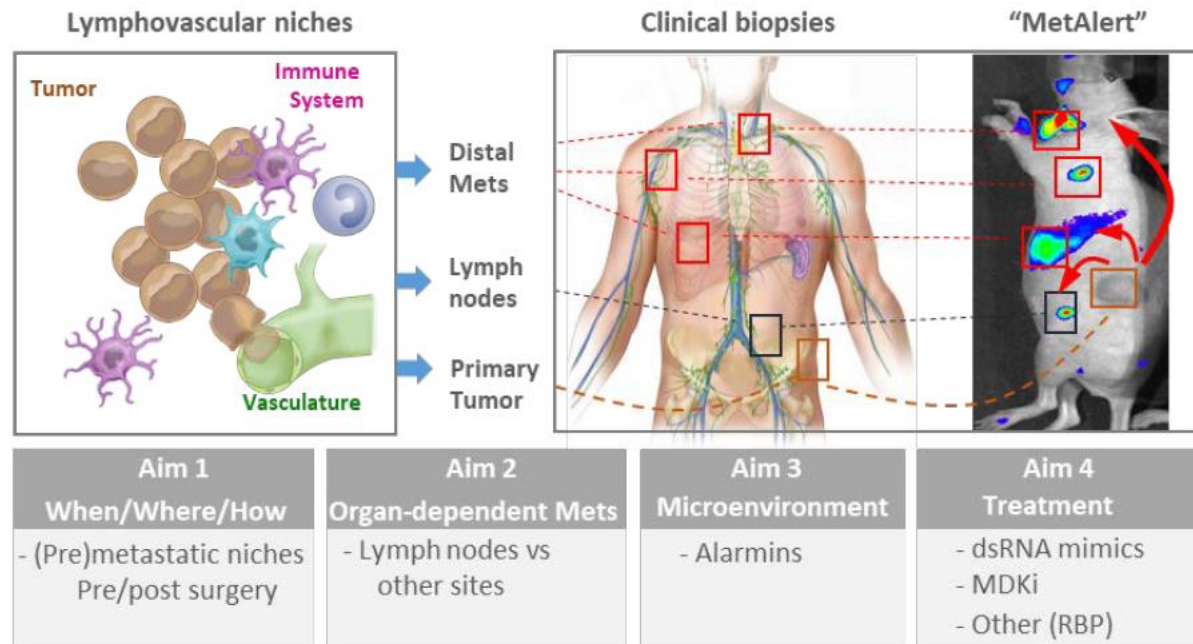
Gráfica/diseño de la metodología investigación

María S. Soengas (LS4) AdG 2019

METALERT-STOP

Imaging, characterizing and targeting metastatic niches in melanoma

B1



Fuente: <https://eshorizonte2020.es/ciencia-excelente/consejo-europeo-de-investigacion-erc/noticias/documentacion-jornada-informativa-nacional-european-research-council-convocatorias-2021>

Gráfica/diseño de la metodología investigación

María S. Soengas (LS4) AdG 2019

METALERT-STOP

Imaging, characterizing and targeting metastatic niches in melanoma

B2

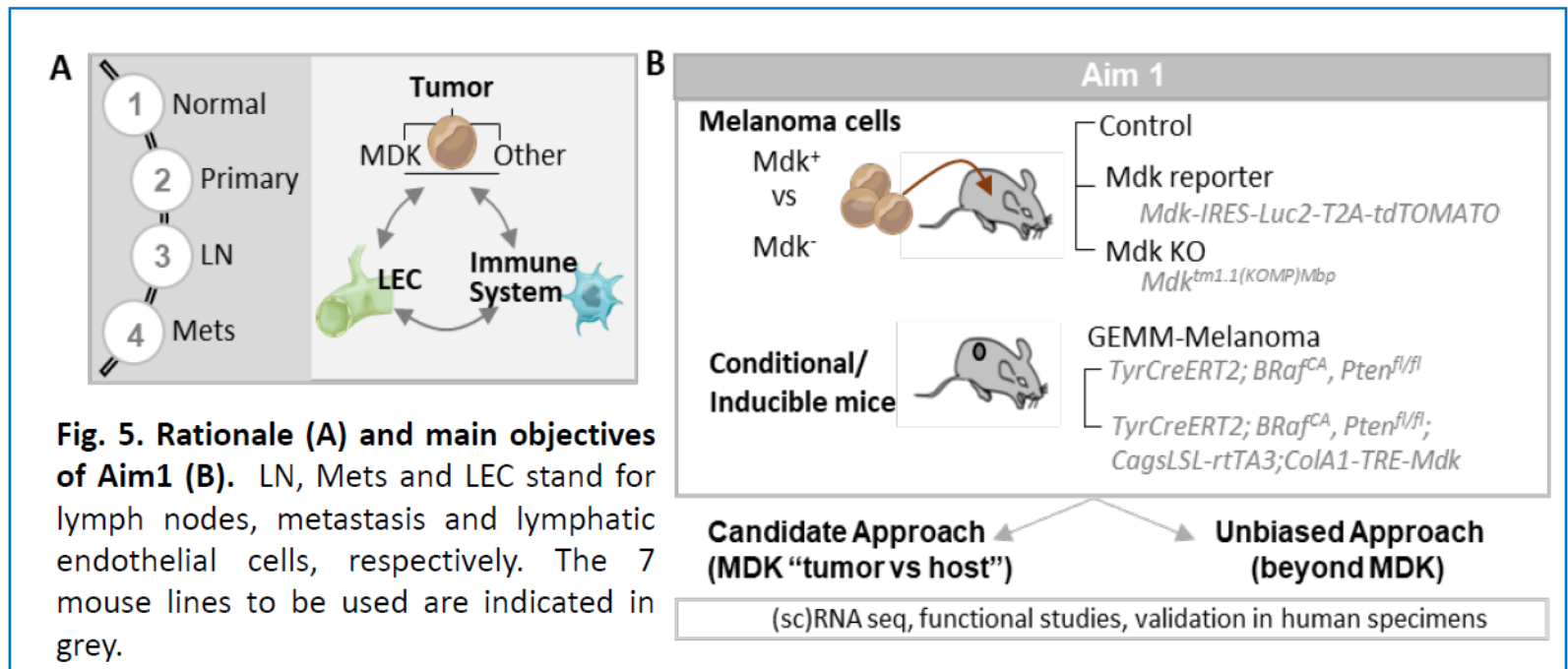


Fig. 5. Rationale (A) and main objectives of Aim1 (B). LN, Mets and LEC stand for lymph nodes, metastasis and lymphatic endothelial cells, respectively. The 7 mouse lines to be used are indicated in grey.

Fuente: <https://eshorizonte2020.es/ciencia-excelente/consejo-europeo-de-investigacion-erc/noticias/documentacion-jornada-informativa-nacional-european-research-council-convocatorias-2021>

Feasible scientific approach vs. methodology

B2

- *research methodology and working arrangements*

- *development of novel methodology*

- *timescales, resources and PI commitment*

- Strategy to achieve the workplan. HOW?
- **WPs/objectives/aims > tasks > outcomes**
- Methods, data, tools per WP
- NO: one single way/ waterfall design
- **Complexity**, loops, iterative design
- Key Intermediate Goals. Time-based

- **New** methods, techniques, tools, data.
- Known methodology used for the first time in another field
- No new methodology > no high risk > no high gain

- Timeline and human resources per objective and or task
- Expertise needed per objective. Team composition during the 5years.
- Your commitment to the project (leader of your research team)

...high-risk/high-gain research

The expected impacts must be listed in the text.

High-gain in your field and in adjacent fields

Suggest the direction your field of research should follow

Risk mitigation strategy (conceptual risks vs. operational risks)

Preliminary evidence

Does this risk justify the potential gain?

“Risk assessment is more than a proof of maturity. It shows your way of thinking and that your choices were not picked randomly, but that you thought of all options available” Odeta Limaj Officer ERCEA

The ERC funds frontier research (basic and applied). For applied projects, discuss what are the contributions to basic science

Contributions vs. Publications

The impact

Typical reasons for rejection

Principal Investigator

Unconvincing on:

- Track record
- Experience in leadership

Research proposal

Incremental research

Scope: Too narrow or too broad/
Unfocussed

Incremental research

Work plan not detailed
enough/unclear

Insufficient risk assessment

Interview not convincing

B1



B2

The budget

The budget

3 - Budget

?

Beneficiary Short Name	PI	Senior Staff	Postdocs	Students	Other Personnel costs	A. Total personnel costs/€	B. Subcontracting Costs/€ (No indirect costs)	C.1 Travel and subsistence	C.2 Equipment - including major equipment	Consumables incl. fieldwork and animal costs	Publications (incl. Open Access fees) and dissemination	Other additional direct costs	C.3 Total other goods, works and services	Total Purchase costs/€	D. Internally invoiced goods and services/€ (No indirect costs)	E. Indirect Cost/€	Total Eligible Costs	Requested EU contribution /€
	0	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0.00		0.00	0.00	0.00
Total	0	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0.00		0.00	0.00	0.00

Host Institution rules apply!

A. Total personnel costs

- PI + Team members >team composition over the years

B. Subcontracting costs (no OH)

C. Total purchase costs

C.1 Travel and subsistence

C.2 Equipment including major equipment > depreciation costs

C.3 Total other goods, works and services

- Consumables including fieldwork and animal costs
- Publications (including **Open Access fees** and dissemination) > OA mandatory
- Other additional direct costs

D. Internally invoiced goods and services (no OH)

E. Indirect Costs > 25% Direct Costs flat rate

TOTAL ELIGIBLE COSTS

REQUESTED EU CONTRIBUTION

Additional budget

- (a) 'start-up' costs for a PI moving from another country to the EU or an AC
- (b) the purchase of major equipment
- (c) access to large facilities
- (d) other major experimental and field work costs, excluding personnel costs,



You can involve external support...

In principle the beneficiaries must have the resources to implement the action but – if necessary – involvement of external support is allowed.

purchase goods, works and services

For the meetings, we need a catering company

Affiliated entities (former LTPs)

My Institution has a legal relationship with a laboratory specialised in clinical studies

In-kind contributions

One professor would be provided by another University

subcontractors

The PI needs to work with a company to perform testing and analysis of new components (task described in DoA)

Purchase of goods and services

purchase goods, works and services

Affiliated entities
(former LTPs)

In-kind contributions

subcontractors

Ordinary contracts (no action task)

No need to be fully detailed in DoA

Budget ('other direct costs' – with overheads)

Best value for money & no conflict of interest (charge a price)

Evidence: Contract, Invoice, procurement procedure

Meeting, catering, web page developer

Participants in the action (other than beneficiaries) (Art.8-9)

In principle the beneficiaries must have the resources to implement the action but – if necessary – involvement of external support is allowed.

purchase goods, works and services

Affiliated entities - art.8
(former LTPs)

In-kind contributions – art.9.2

Subcontractors – art.9.3

In principle the beneficiaries must have the resources to implement the action but – if necessary – participation of other participants is allowed.

Only beneficiaries sign the Grant Agreement.

The beneficiary remains responsible towards the Agency.

General model Grant Agreement: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/agr-contr/general-mga_horizon-euratom_en.pdf

Cuestiones prácticas

1. **Piensa cómo empezar la B1a**
2. **No existe posibilidad de corregir errores entre la fase 1 y la fase 2.**
3. **No digas simplemente que tu propuesta es excelente, *¡Demuéstralo!***
4. **Usa cualquier recurso gráfico que facilite la comprensión**
 - negrita, headings, figuras, esquemas.
 - cuidado con los hipervínculos y los colores
 - Cuidado con abreviaciones y jerga muy científica
5. **Sé muy específico (many, some, would,...)**
6. **¿En qué persona narro mi historia? I/The PI/We**
Toma responsabilidad personal por la ideación de la propuesta de investigación
7. **Dale un toque personal**
8. **Ilusionate y transmite tu pasión por la disciplina**

Algunos enlaces de interés

ERC WorkProgramme 2021:

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021/wp_horizon-erc-2021_en.pdf

> Importante descargar la Guide for Applicant AdG2021 call a partir del 20/05/2021 a través del [Funding and tender opportunities portal](#)

ERC funded projects:

<https://erc.europa.eu/projects-figures/erc-funded-projects>

[General model Grant Agreement](#)

MUCHAS GRACIAS