



# **European Research Council (ERC)**

Aslı VURAL Dr. Derya DÖNERTAŞ ERC National Contact Point

The Scientific and Technological Research Council of Turkey TÜBİTAK

# Support from your ERC NCPs

### During the proposal preparation stage:

Bridge between you and ERC

Guidance in proposal writing

Information on Host Institutions in Turkey

Pre-evaluation support of your proposal







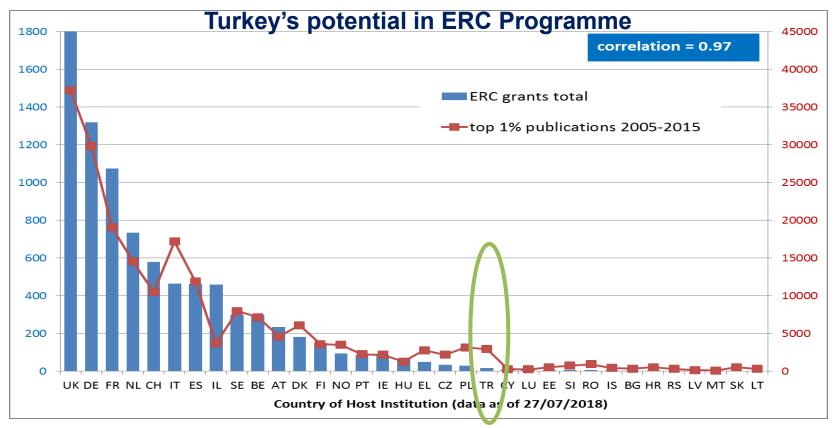
Host institutions in Turkey*						
Host institution	Starting Grants	Consolidator Grants	Advanced Grants	Total		
Koc University	6	1	1	8		
Bilkent University	3 (1)	2	-	5		
Middle East Technical University	-	2 (1)	-	2		
Istanbul Bilgi University	-	-	1	1		

Number of ERC grantees in Turkish Host institutions with ERC Proof of Concept funding: 3

\*current Host Institutions

#### **ERC Funded Projects and Correlation with Publications**



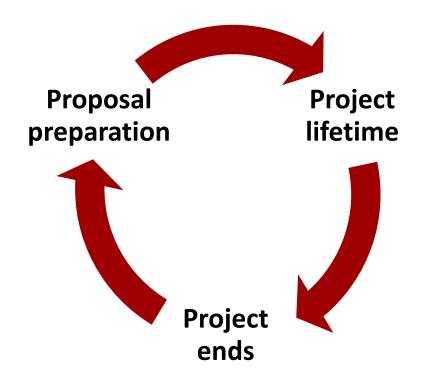


## **ERC Funded Projects and Correlation With GERD**



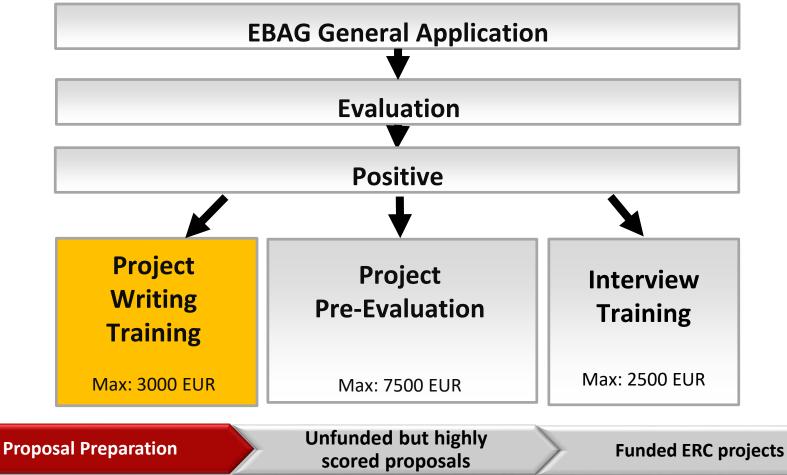






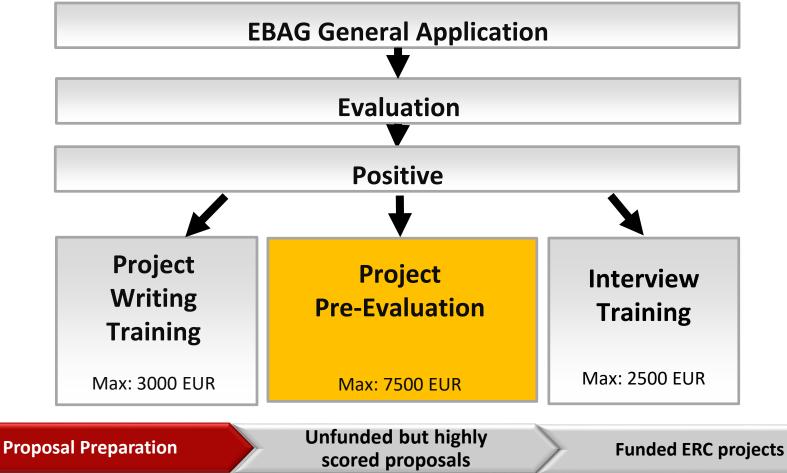
#### TÜBİTAK EBAG: ERC Principle Investigator Advancement Programme





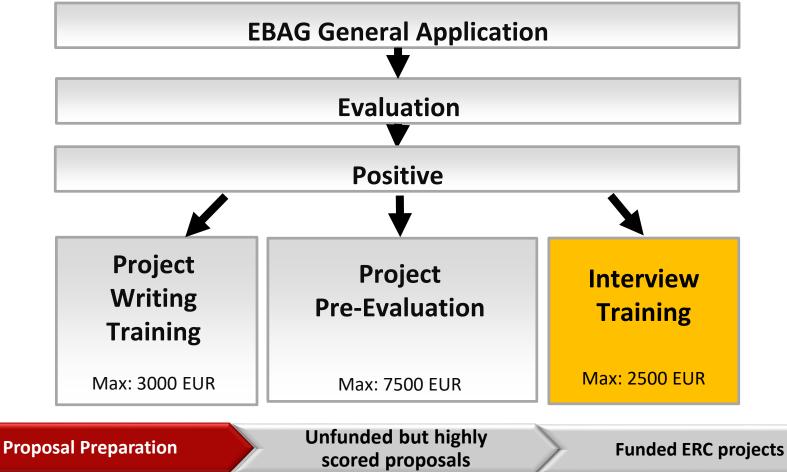
#### TÜBİTAK ERC Principle Investigator Advancement Programme





#### TÜBİTAK ERC Principle Investigator Advancement Programme





# TÜBİTAK

#### **Above Threshold Awards**

Grade in the 2nd evaluation step	Award
B grade	40,000 TL
A grade	50,000 TL
Reserve	60,000 TL

TÜBİTAK 2247-B Call to fund unfunded projects after first evaluation step.

- Max. budget 1,000,000 TL
- 2 years

**Proposal Preparation** 

Unfunded but highly scored proposals

**Funded ERC projects** 

## TÜBİTAK ERC Success Awards



**Proposal Preparation** 

Unfunded but highly scored proposals

**Funded ERC projects** 

# **TÜBİTAK Support and Award Programme**



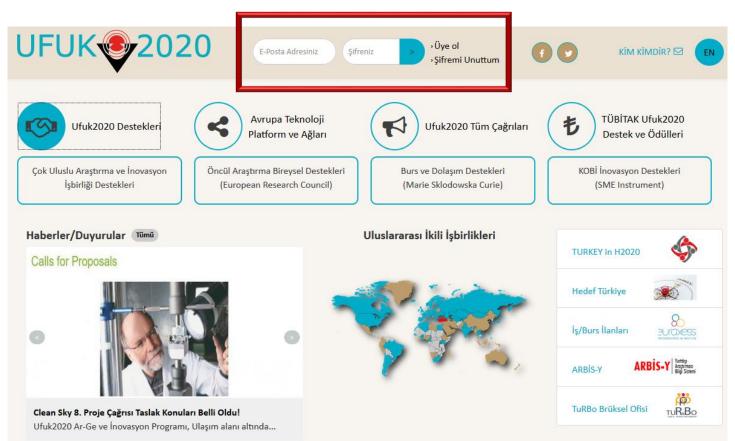
#### Team



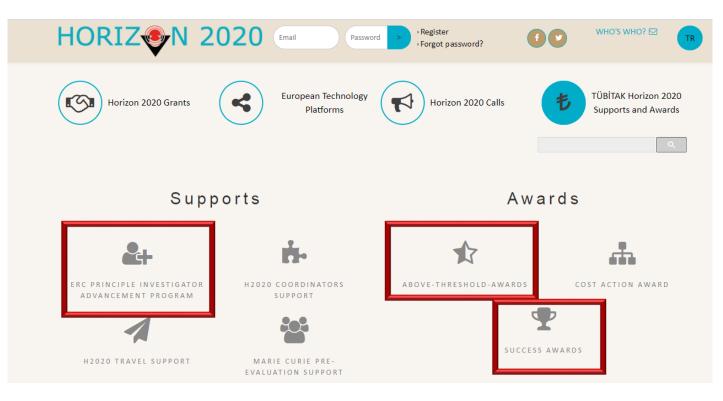
Damla OR CEYHAN ERC EBAG Programme damla.or@tubitak.gov.tr Fatma DURAN ERC Award Programmes fatma.duran@tubitak.gov.tr

For Applications: <u>http://destekler.h2020.org.tr/</u> For Information: <u>https://ufuk2020.org.tr/en/supports-and-awards</u>

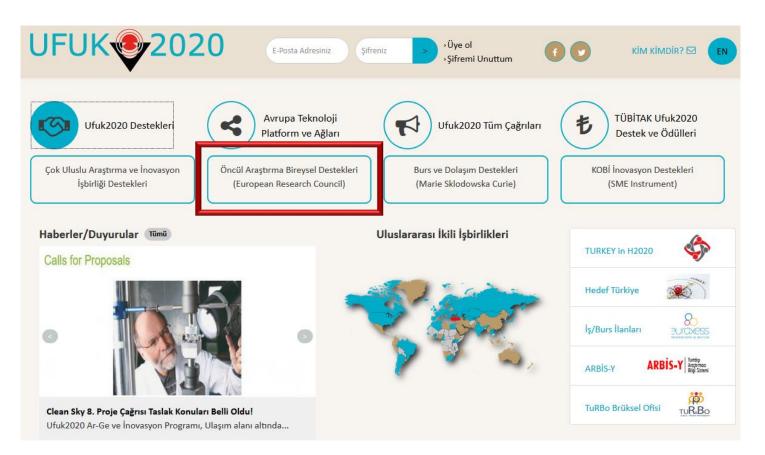




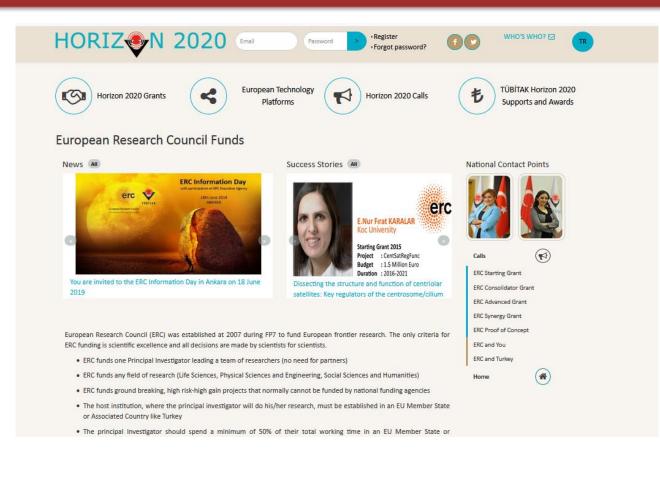




















Finansal Konular

Ar-Ge, inovasyon, koordinasyon ve destek eylemleri ile araştırmacı hareketliliği sağlayan araştırma faaliyetlerinin desteklendiği Program'da, paydaşların dâhil oldukları projelerdeki faaliyetleri gerçekleştirmek için ihtiyaç duydukları, farklı kategorilerdeki masrafları [personel, altyüklenici, diğer doğrudan mâliyetler (seyahat, makine/teçhizat, sarf malzeme, etkinlik organizasyon, baskı, vb.]] %100'e varan oranlarda Avrupa Komisyonu tarafından doğrudan desteklenmektedir. (proje türleri ve kuruluş tiplerine göre destek oranları Tablo-1'de detaylandırılmıştır.) Doğrudan mâliyet olarak adlandırılan bu masraflar toplamının (altyüklenici harcamaları ile paydaş bünyesinde yapılmayan üçüncü taraf aynî katkısı hariç) %25'i oranında ise bir dolaylı mâliyet bütçesi bulunmaktadır. Dolaylı mâliyet bütçesi; paydaş kuruluşların faturalandıramadığı veya Avrupa Komisyonu'nun, Program'ın kuralları gereği kabul etmediği masrafların karşılanabilmesi için paydaşların kullanımına sunulmaktadır.

Proje fonlama yöntemine göre paydaşlar proje kapsamındaki, Avrupa Komisyonu tarafından kabul edilen, geçerli tüm harcamalarının %87.5'inden %125'ine kadarını alabilmektedir. Öte yandan, KOBİ'lere özel oluşturulmuş, bir Ar-Ge ve inovasyon faaliyetinin pazara sunulma aşamasındaki farklı süreçlerine farklı oran ve şekillerde sağlanan destekler ile doktora derecesine sahip araştırmacıların akademik hayatlarının belli bir dönemini farklı bir ülkedeki kuruluşta sürdürmesine olanak tanıyan, geçirdiği sürede ihtiyaç duyduğu maddî kaynakları farklı kategorilerde kendilerine sağlayan farklı araç ve destekler de Program kapsamında ver almaktadır.

#### Ulusal İrtibat Noktaları



Proje Hazırlık Aşaması Proje Yürütme Aşaması Proje Sonlandırma Aşaması Faydalı Linkler

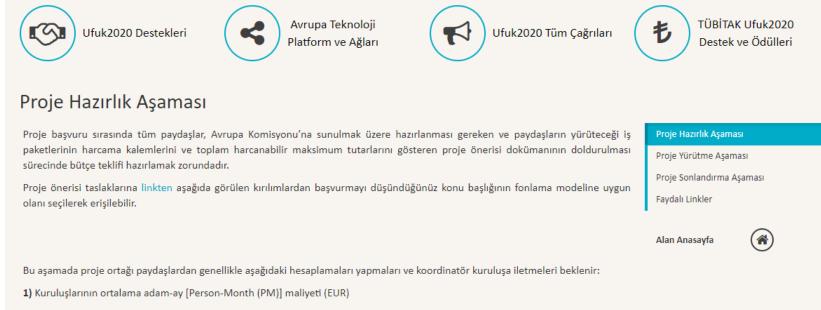
Dolavlı

Malive



Proie Kapsami





2) Kuruluşlarının projedeki işleri yapmaları için ihtiyaç duydukları toplam adam-ay (PM)

3) Proje süresince ihtiyaç duyulacak tüm diğer harcama kalemi maliyet öngörüleri (seyahat, makine/teçhizat, sarf malzeme, hizmet alım, vb.)

Tüm bu hesapların nasıl yapılacağına ilişkin detay bilgilere sunumdan veya kılavuzdan (TR; EN) erişebilirsiniz.

Bütçe hazırlama süreçlerine dair tüm sorularınız için Ufuk2020 Yasal ve Finansal Konular Ekibi'yle irtibat kurabilirsiniz.

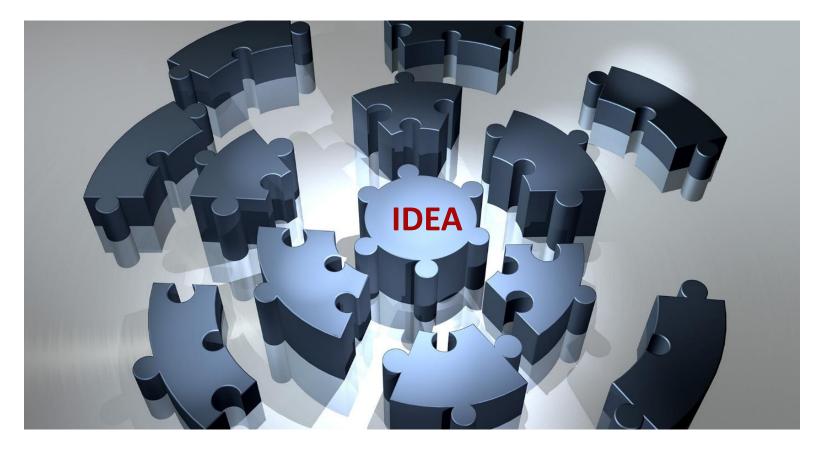


#### TÜBİTAK Ufuk2020 Avrupa Teknoloji も Ufuk2020 Tüm Çağrıları Ufuk2020 Destekleri Platform ve Ağları Destek ve Ödülleri Faydalı Linkler Proje Hazırlık Aşaması Proje Bütçesi Hazırlama: Proje Yürütme Aşaması - TÜBİTAK'ın yararlanıcısı olduğu "TurkeyInHorizon2020" Projesi kapsamında hazırlanan Yasal ve Finansal Konular Kılavuzuna ulaşmak için lütfen tıklayınız. (TR; EN) Proje Sonlandırma Aşaması Faydalı Linkler - Genel finansal hususlar ve bütçe hazırlama sunumu için tıklayınız. \* Alan Anasayfa - Bütçenin ekleneceği proje önerisi taslağına erişmek için linkten Templates&forms>Proposal templates>2018-2020 yolunu izleyebilirsiniz. Proje Yürütme Aşaması: - TÜBİTAK'ın yararlanıcısı olduğu "TurkeyInHorizon2020" Projesi kapsamında hazırlanan Yasal ve Finansal Konular Kılavuzuna ulaşmak için lütfen tıklayınız. (TR; EN)

- Proje fonu aktarım ve finansal raporlama sunumu için tıklayınız.

- KDV İstisna Sertifikası Bilgi Notuna erişmek için tıklayınız.





## **Project Idea**



### High risk- High gain

Scientific Risk Intrinsic risk of unknown Not application risk



### Groundbreaking

What is the problem? Why is it significant? What makes your solution unique?



#### All printed material related to your proposal Previously funded projects by ERC and other funding agencies Conferences Preliminary Data



## OBJECTIVE ARGUMENT

### State of the art







# How will the problem you have stated in SOA be solved?

- ✤ is this idea tried before?
- why did it fail and why it wont fail now?
- Is it a new technique, is it because you have unique talents?
- ✤ if a part of it fails what is the strategy?
- Do you have a Plan B?

Why me? Why now? Why ERC? Work packages Intermediate goals Methods in detail

## Important points to consider for proposals



## BALANCE

High risk vs feasibility

**Preliminary data vs Incremental** 

Too narrow vs too broad

## Panel selection - StG, CoG, AdG



#### Physical Sciences & Engineering

**PE1** Mathematics

**PE2** Fundamental Constituents of Matter

**PE3** Condensed Matter Physics

**PE4** Physical and Analytical Chemical Sciences

**PE5** Synthetic Chemistry and Materials

**PE6** Computer Science and Informatics

**PE7** Systems and Communication Engineering

**PE8** Products and Processes Engineering

**PE9** Universe Sciences

PE10 Earth System Science

#### **Life Sciences**

**LS1** Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics

**LS2** Genetics, 'Omics', Bioinformatics and Systems Biology

LS3 Cellular and Developmental Biology

LS4 Physiology, Pathophysiology and Endocrinology

**LS5** Neurosciences and Neural Disorders

LS6 Immunity and Infection

**LS7** Applied Medical Technologies, Diagnostics, Therapies and Public Health

**LS8** Ecology, Evolution and Environmental Biology

**LS9** Applied Life Sciences, Biotechnology and Molecular and Biosystems Engineering

#### Social Sciences & Humanities

**SH1** Individuals, Markets and Organisations

**SH2** Institutions, Values, Environment and Space

**SH3** The Social World, Diversity, Population

**SH4** The Human Mind and Its Complexity

**SH5** Cultures and Cultural Production

**SH6** The Study of the Human Past



#### Detailed Information about the panels can be accessed from «Information for Applicants» document of the Call

LS2 Genetics, 'Omics', Bioinformatics and Systems Biology: Molecular genetics, quantitative genetics, genetic epidemiology, epigenetics, genomics. metagenomics, transcriptomics, proteomics, metabolomics. glycomics. bioinformatics, computational biology, biostatistics, systems biology LS2 1 Molecular genetics, reverse genetics, forward genetics, genome editing LS2 2 Non coding RNAs LS2 3 Quantitative genetics LS2 4 Genetic epidemiology LS2 5 Epigenetics and gene regulation LS2 6 Genomics (e.g. comparative genomics, functional genomics) LS2 7 Metagenomics LS2 8 Transcriptomics LS2 9 Proteomics LS2 10 Metabolomics LS2 11 Glycomics/Lipidomics LS2 12 Bioinformatics LS2 13 Computational biology LS2 14 Biostatistics



### • Selection of the right panel..

Panel Chairs

### ERC-2018-StG

#### LIFE SCIENCES

LS1 Molecular Biology, Biochemistry, Structural Biology and Molecular Biophysics: LS2 Genetics, 'Omics', Bioinformatics and Systems Biology: LS3 Cellular and Developmental Biology: LS4 Physiology, Pathophysiology and Endocrinology: LS5 Neurosciences and Neural Disorders: LS6 Immunity and Infection: LS7 Applied Medical Technologies, Diagnostics, Therapies, and Public Health: LS8 Ecology, Evolution and Environmental Biology: LS9 Applied Life Sciences, Biotechnology and Molecular and Biosystems Engineering:

Prof. Makela Tomi P.

Prof. Grosveld Frank Prof. Akhmanova Anna Prof. Pikarsky Eli Prof. Brecht Michael Prof. Paludan Soren Riis Prof. Dobrzyn Agnieszka

Prof. Thompson John N.. Prof. Cancela Leonor



#### ERC-StG-2015 Panel Members

#### LIFE SCIENCES (LS)

Molecular and Structural Biology and Biochemistry (LS1)

Andrea Musacchio (Panel Chair) \* Sarah Butcher \* Martin Caffrey Roberta Croce Stephen Curry Maria Falkenberg Nick Gay \* Stephan Grill Andras Malnasi-Csizmadia \* Henriette Molinari \* Karel Riha \* Leonie Ringrose \* Iannis Talianidis \*

#### ERC-StG-2017 Panel Members

#### LIFE SCIENCES (LS)

Molecular and Structural Biology and Biochemistry (LS1)

Andrea Musacchio (Panel Chair) \* Mathieu Bollen Sarah Butcher \* Javier F. Caceres Nick Gay \* Andras Malnasi-Csizmadia \* Henriette Molinari \* Karel Riha \* Leonie Ringrose \* Marina Rodnina Benjamin Schuler Iannis Talianidis \* Marat Yusupov

## **Selection of the Panel**





(Avrupa Araştırma Alanı dışından Avrupa'ya/Türkiye'ye gelmek, büyük ekipman alımı, büyük araştırma altyapılarına erişim) bütçe 2 Milyon Avro'ya kadar çıkabilir.

Bu konuda daha fazla bilgi almak için çağrı yılına alt ERC Çalışma Programı ve ilgili çağrıya alt ERC Başvuru Kılavuzu dokümanlarını inceleyebilirsiniz.

#### DİKKAT!

ERC 2018-StG çağırsı 17 Ekim 2017 tarihinde kapanmıştır. ERC 2019-StG çağırsının 2018 yılında Temmuz Ağustos aylarında açılıp 2018 yılı Ekim ayında kapanması beklenmektedir. ERC 2019-StG çağırsına hazırlık yapımak isteyen araştırmacılarınız ERC 2018-StG çağırsı İçin hazırladığımız aşağıdaki dökümanlardan yararlanabilirler. Bunun dışında ERC ile ilgili her türlü öneri ve sorularınızı nepercifilubilatak.evit adresine iletebilirsiniz.

#### Önemli Dokümanlar:

ERC 2018 Yili Çalışma Programı Information for Applicants to the Starting and Consolidator Grant 2018 Call Çağrı Bayvuru Sayfası SIG Proposal Template

#### StG 2018 Değerlendirmesinde öngörülen zaman

Türkiye'nin ERC çağrılarındaki henüz açığa çıkmamış potensiyelini artırmak amacıyla TÜBİTAK tarıfından oluşturulan H2020 Destek ve Ödül Programı'ndan aşağıdaki konularda ofisimizden destek almak mümkün.

- ERC Baş Araştırmacı Geliştirme Programı: Proje yazma ve sunma eğitimi, proje on değerlendirme desteği, seyahat deste içerir.
- Eşik Üstü Ödülü: Alınan puana göre 12.000 Avro'ya kadar ödül verilgesi
- Başarı Ödülü: Proje türüne ve bütçesine göre 350.000 Avro'ya kadar ödül verilmekte.
- Transfer Ödülü: Yurtdışından ERC projesi ile Türkiye'ye geletek araştırmacılara özel, proje türüne gele 35.000 Avro'ya kadar ödül verilmekte.

#### Geçtiğimiz yılların ERC Panelist listeleri

2018 StG Panel Başkanlarının Listesi 2007-2017 StG Panel Üyelerinin Listesi (toplu) Alan Anasayfa

Geçtiğimiz yılların ERC Panelist listeleri

2018 StG Panel Başkanlarının Listesi 2007-2017 StG Panel Üyelerinin Listesi (toplu)



#### Administrative forms (Part A) 1 – General information 2 – Administrative data of participating organisations 3 – Budget 4 – Ethics

5 – Call specific questions

#### Part B1 (submitted as pdf)

า
5 pages
2 pages
2 pages
no page limit

#### Annexes

HI Statement of Support PhD Certificate (for StG and CoG), Documentation for requests for eligibility extensions Documentation for ethical issues

#### Part B2 (submitted as pdf)

Scientific proposal 15 pages a – State-of-the-art and objectives

- b Methodology
- c Resources

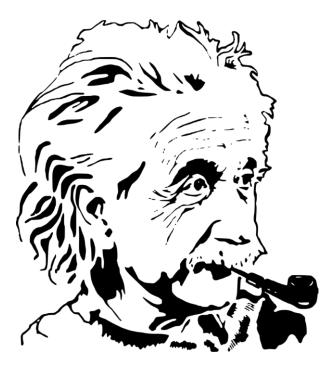


The alignment between the project and PI's education, skills and experience

Leadership of the PI

Independence of the PI

New generation scientists





- Publications (up to five for Starting Grant and up to ten for Consolidator Grant) in major international peer-reviewed multi-disciplinary scientific journals and/or in the leading international peer-reviewed journals, peer-reviewed conferences proceedings and/or monographs of their respective research fields, highlighting those as main author or without the presence as co-author of their PhD supervisor (properly referenced (including all authors), field relevant bibliometric indicators may also be included);
- 2. Research monographs and any translations thereof;
- 3. Granted patent(s);

4. Invited presentations to peer-reviewed, internationally established conferences and/or international advanced schools;

5. Prizes/Awards/Academy memberships.



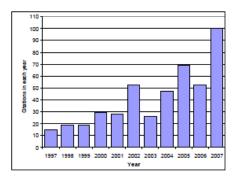


Figure 1. Citation in the last decade (Web of Knowledge)

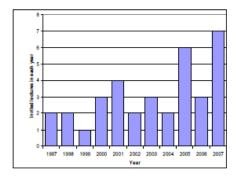


Figure 2. Invited lectures in the last decade

Type of Publication	#	# without the PhD supervisor
peer-reviewed international journals	17	12
peer-reviewed conferences proceedings	31	16
book chapters		2
books	2	



Starting and Consolidator

Intellectual capacity and creativity

To what extent has the PI demonstrated the ability to propose and conduct ground-breaking research?

To what extent does the PI provide evidence of creative independent thinking?

To what extent have the achievements of the PI typically gone beyond the state of the art?

#### Advanced

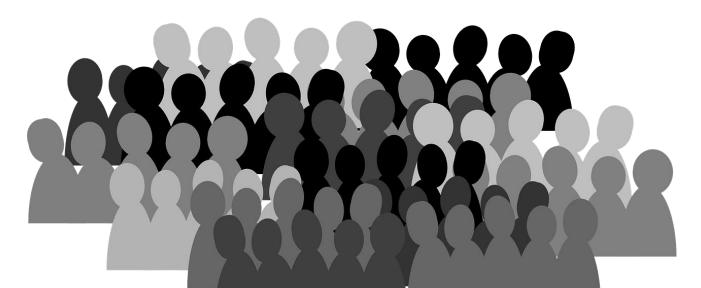
To what extent has the PI demonstrated sound leadership in the training and advancement of young scientists?

## PI Profile



A competitive **Starting Grant** Principal Investigator must have already shown the potential for research independence and evidence of maturity, for example by having produced <u>at least one</u> <u>important publication as main author or without the participation of their PhD supervisor</u>.

A competitive **Consolidator Grant** Principal Investigator must have already shown research independence and evidence of maturity, for example by having produced <u>several important</u> publications as main author or without the participation of their PhD supervisor.





Principal Investigator	Panel	h-index	Publication	Citation	Subject
Oana Ivanovici	PE1	4	7	43	Mathematics
Guillaume Stirnemann	PE4	20	32	1222	Physics
Cathal Kearney	PE8	10	22	473	Biomaterial
Antione Coulon	LS2	8	12	318	Physical Chemistry
Ludovic Telley	LS5	6	9	165	Biochemistry
Caroline Goujon	LS6	16	26	1554	Immunology
Antoine Wystrach	LS8	15	38	641	Cognition
Catherine Guirkinger	SH1	9	16	328	Economics
Balazs Bodo	SH3	2	4	6	Law
Josephine Hoegaerts	SH5	2	10	11	Politics

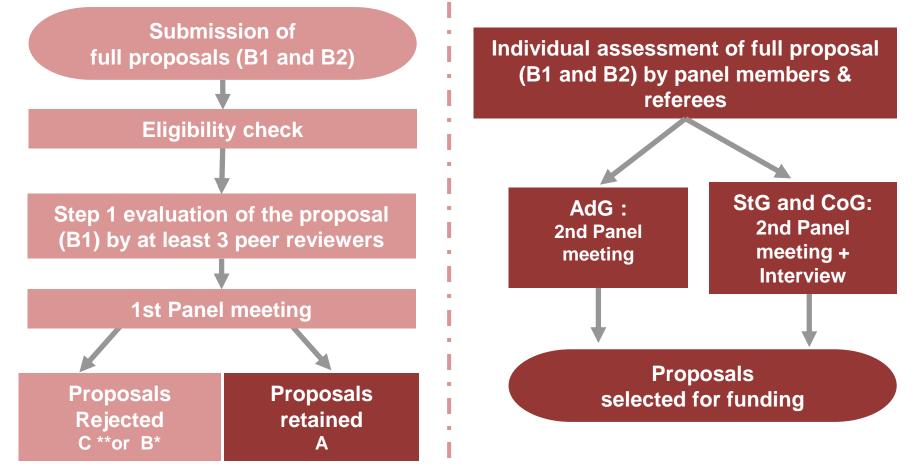
Principal Investigator	Panel	h-index	Publication	Citation	Subject
Wolfram Pernice	PE2	27	159	2814	Nanotechnology
Srdan Capkun	PE6	39	118	6184	Interdisciplinary
Ansgar Kahmen	PE10	25	58	2307	Enviromental Sciences
Friedrich Förster	LS1	39	74	4743	Biochemistry
Aurelio Teleman	LS3	25	59	3488	Cancer
Asaf Hellman	LS4	11	16	1344	Biochemistry
Leendert Trouw	LS7	38	126	4268	Immunology
Etienne Bücher	LS9	16	22	1875	Plant Genomics
Julia Gallagher	SH2	4	11	52	Politics
Cristina Grasseni	SH5	8	18	218	Anthropology
Matthieu Husson	SH6	1	6	3	History

#### 2016-CoG

2017-StG

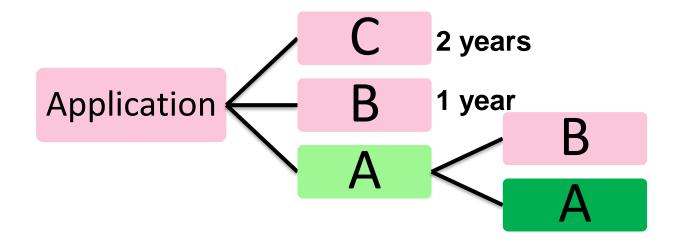
#### **ERC Evaluation Process**





## **ERC Application - StG CoG AdG**





#### 1. PhD Date

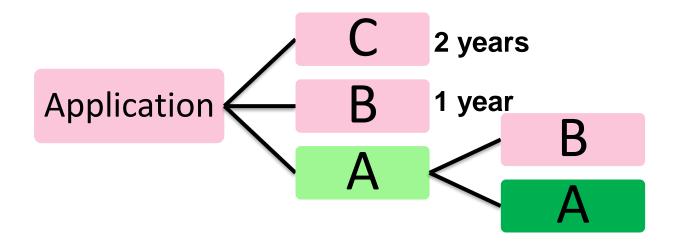
## **ERC Funding Schemes**



(2-7 years (7	-12 years				
Starting	Consolidator	Advanced			
(2-7 years after PhD)	(7-12 years after PhD)	significant research achievements in the <b>last 10 years</b>			
	750.000) (€ 2.5 M r up to 5 € 1 N years for up to				
Proof of Concept bridging gap between research - earliest stage of marketable innovation up to €150,000 for up to 18 months for ERC grant holders					

## **ERC - Application - StG CoG AdG**

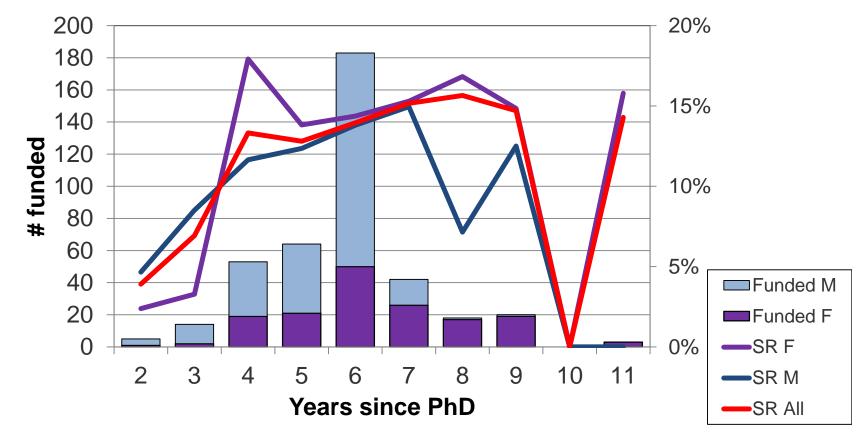


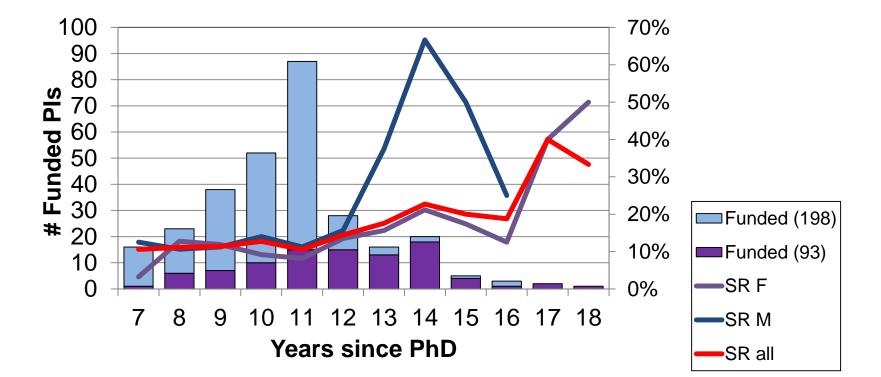


- 1. PhD year
- 2. The nature of the project
- 3. Your CV and Track Record
- 4. Is your project high risk/high gain? Frontier research?

#### StG 2018 Funded proposals by gender and years since PhD



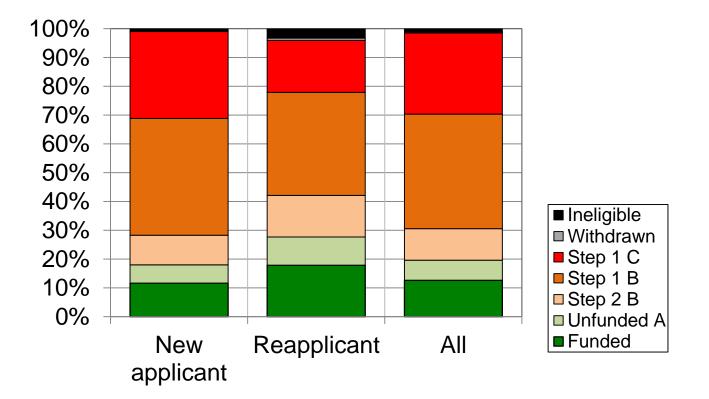




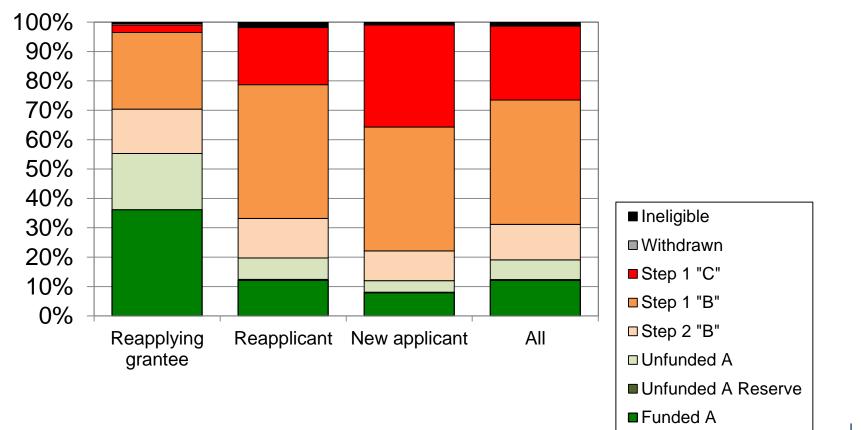
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## **StG 2018 New and re-applicants results**





## **CoG 2018 New and re-applicants results**

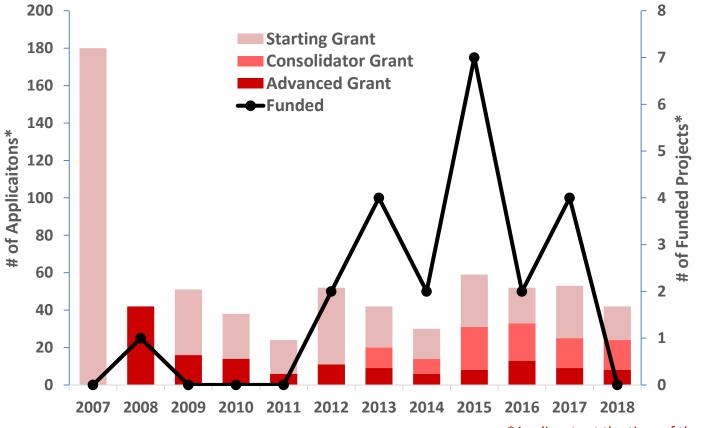


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## **Turkey's Performance in ERC**



#### In 2007-2018: 671 Applicants, 22 ERC Grants, 37 Million Euros

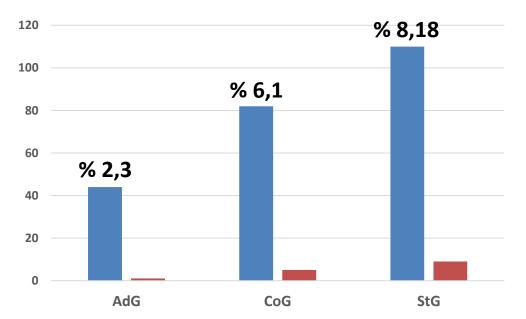


\*Applicants at the time of the application

#### **Statistics- Application & Success Rate – H2020**

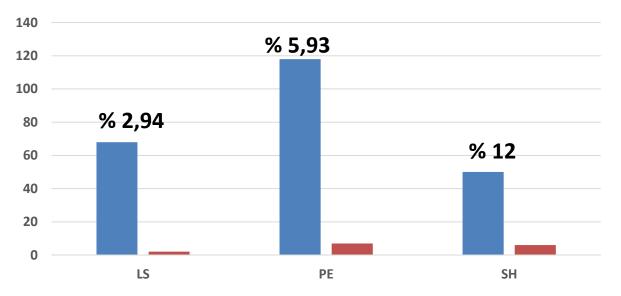


**Applications to different panels** 





#### **Applications to different panels**







# **ERC** Evaluation

## **Common Weakness of Proposals from Turkey**





442 evaluation summary reports from Turkey evaluated over two criteria

- Research Project Criteria
- Principle Investigator Criteria

#### **Research Project Criteria**

- The proposal is too narrow/too broad
- Insufficient/no project description (state of the art, objectives, methodology, scientific detail, approach)
- The proposal does not indicate the advantages of the proposed approach over other research that will be carried out by other groups
- The proposal is essentially an applied project which is unlikely to result in important scientific breakthroughs
- Incremental rather than ground-breaking

# **Common Weakness of Proposals from Turkey**





#### **Research Project Criteria (continued)**

- High gain but medium/risk
- Not well supported by preliminary experimental data
- The proposed work is a straightforward extension of the PI's current research activities
- Potential applications might be restricted
- Classical/conventional methodology
- This kind of research could be support by the local resources
- Missing strategy or vision for the implementation ethical issues
- Too descriptive proposal

# **Common Weakness of Proposals from Turkey**





#### **Principle Investigator Criteria**

 The candidate has limited international experience/exposure/recognition/ publication

- Low publication, low citation, low impact factor
- Little/no evidence of independent research (For StG and CoG)
- The potential for future leadership in this area of research is not high (For StG and CoG)



# Thank you



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