

## Analysis and Benchmarking: Self-assessment Questionnaire

Created by Centre de Recerca per a l'Educació Científica i Matemàtica (CRECIM) of the Universitat Autònoma de Barcelona (UAB) with contributions of other ORION partners.



# What do you think about Open Science? 10 questions about your views on Open Science

There are multiple definitions of Open Science:

- "Open science is the idea that scientific knowledge of all kinds should be openly shared as early as is practical in the discovery process." Michael Nielsen (2011).
- "Open science commonly refers to efforts to make the output of publicly funded research more widely accessible in digital format to the scientific community, the business sector, or society more generally ... to promote long-term research as well as innovation." OECD (2015).

Open Science is an umbrella term encompassing a multitude of aspects: open access to publications, open research data, reproducibility and research integrity, research evaluation and public engagement among others. What do you think?

### 1. In your opinion, to whom should science be opened?

For each item, rank it from 1 to 5, 1=should not be opened, 5= should be very opened

	1	2	3	4	5
Open to scientists from the same area / discipline.			3		
Open to scientists from other disciplines		12 ) 1		si /s	- 22
Open to all citizens			-7		
Open to civil and social organisations	- X-/   J#	红的	in the second		
Open to specially concerned groups (e.g. patients)		P.			1/3.7
Open to funders and policy makers			Aa		
Open to industry and companies					

## 2. In your opinion, how open do you think the different aspects of the scientific process should be to the scientific community (all scientists)?

For each item, rank it from 1 to 5, 1=should not be opened, 5= should be very opened

	1	2	3	4	5
The research priorities (what topics, how much funding)			7	S.	
The design of the research (what methodologies, what ethical	120		fun :		
considerations)	- Y.		The second	w) (	
The research process (data gathering, data management, replicability)			$a^{-1}$		
The research results (knowledge, publications, patents)		or sold	ig::/mile		9/cz=
The research outcomes (design of final products for end users)		7			10 H

## 3. In your opinion, how open do you think the different aspects of the scientific process should be to society (all citizens)?

For each item, rank it from 1 to 5, 1=should not be opened, 5= should be very opened

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The research priorities (what topics, how much funding)			$\Delta x$ ):		
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The research process (data gathering, data management, replicability)	62	entes l			56
The research results (knowledge, publications, patents)	18	7. N. S.	(ym. =		Joly
The research outcomes (design of final products for end users)	800	11-375	m HZT	(x.) A -su	1/8

## 4. In your opinion, how open do you think the different aspects of the scientific process to funders and policy makers?

For each item, rank it from 1 to 5, 1=should not be opened, 5= should be very opened

	1	2	3	4	5
The research priorities (what topics, how much funding)		g pe			
The design of the research (what methodologies, what ethical	64	// 			SV.
considerations)					
The research process (data gathering, data management, replicability)		100		i Sili ang La	John
The research results (knowledge, publications, patents)				2.K.) X -300	1/3
The research outcomes (design of final products for end users)		441			

### 5. In your opinion why should science be open?

	Not a reason for Open Science	A relatively important reason	An important reason	The most important reason for Open Science	I don't know it / I don't have enough information
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## 6. In your opinion why should science NOT be open?

	Not a reason against Open Science	A relatively important reason against	An important reason against	The most important reason against Open Science	I don't know it / I don't have enough information
Not a priority now. Currently, there are higher priorities in the scientific community					



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individual effort, and					



they are not captured and rewarded through traditional metrics.			
Unfairness. If a research group generates knowledge with own resources, it could be unfair if others use this knowledge to get economic benefits for themselves			
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7. Imagine in your everyday work at your institution you decide to embrace (or you already have embraced) an Open Science perspective. What do you think (or know) are the most important barriers you will be facing?

	Very important barrier	Important barrier	Low barrier	Not a barrier at all	I don't know it / I don't have enough information
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Fears and uncertainties for career development. Will					
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## 8. Do you already participate in any Open Science activity/action?

	Regularly	Sporadically	Maybe in the near future	Not at all	I don't know it / I don't have enough information
Collaborations across	(upda la				
institutions and disciplines	- 2 mg 0	anctoul $=$ $anctoul$ $=$	and the survey		
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and outreach (social	The state of the state of			돌 \	
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Collaboration with industry	and the second	The art	Common of the		
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research partnerships, role		Z Serve Vens da-cos (n		Act Ty	2 A STATE OF THE S
model activities, non-formal	19-1-1-1				
education activities, etc.)					\$60 C 192 \$ ( A)

## 9. Do you receive training from your institution related to Open Science?

	I receive adequate training	I need more training	These topics are not relevant for my specific professional tasks	I don't know it / I don't have enough information
Research and data		Day To House		
management (Data				Like the second
storage, sharing, FAIR -				
"Findable, Accessible,				
Interoperable, and		2 Limes	(arriga) - s.x	700 C
Reusable" - approaches)				
Research integrity		Sylven Starter C		
(Animal Research, data	(april 1		and Comban and the	O
analysis and		(arctes)-	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
interpretation, research	The state of the s		(c(m)> c(m)>	The state of the s
with human samples, good	Section of	John J. Harrist		The state of the s
practice in the lab, etc.)	grade the state of	South States		The state of the s



Research publishing and				
dissemination (Open		2 100		
Access, pre-prints, peer				
review)				
Collaborating and		Yamiyu) =		
networking (How to	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	AV - A POINT AND A PROPERTY OF THE PROPERTY OF		
improve collaboration	3. 和此。但是人	(3)(b)=(-1) - ++		
through Open Science)		Me-Till 130 fill Carlos Marchael - Bull L	***	
Communicating science	much of the		Ve (m) = Ve (m) = 1	
to the general public	CIF	Total Island	$\langle E \rangle = \Psi_{exp} \langle E \rangle \Delta$ $\langle E \rangle_{effective}$	
(Different audiences,			(x-cos(n-1)x - x 2) Ach a	
practical guides to getting	(E) = 0 Ay - (2 - A A) &   2 - A A A A A A A A A A A A A A A A A A			
started, online and offline				
options)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second	St many of the second	The state of the s
Involving the general		THE TRACE		
public in research				
(Citizen science: data	Partial - Company	(action)=		
gathering, data analysis,	( ( ) Z ( ) Z ( ) V		A STATE OF THE PARTY OF THE PAR	
use of results)	4. 了阿尔尔尔第二人	318bes 21		10-4 3 0 0 PK 1 人 30
Evaluation of research		192 Hill 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
projects and researchers	mucho H imi		STATE OF THE STATE	mucha i z im Z im
Assessment of the		part of	$ a\rangle \Rightarrow \psi_{a,j}(b)$ $ a\rangle \Rightarrow \psi_{a,j}(b)$ $ a\rangle \Rightarrow \psi_{a,j}(b)$	
impact of initiatives in			(x-cos(n-1)x - x - x - x - x - x - x - x - x - x -	
public	120 pay-63-20 0 8 1 2 3			1 Jan 19 19 19 19 19 19 19 19 19 19 19 19 19

## 10. Do you receive support or incentives from your institution related to Open Science?

	I receive adequate support or incentives from my institution	I would like to receive more support or incentives enough	These kind of support or incentives are not relevant for my specific professional tasks	I don't know it / I don't have enough information
Written guidelines			300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Table 1
(webpage/leaflet/videos),				
policies, recommendations	是一个	F-经裁1.167省	元。47/三、	
Technical infrastructure		(action)	Jamega Lan	3 00-10-10-10-10-10-10-10-10-10-10-10-10-1
(templates, software,		X 10 4		
storage, databases,		Allega and the state of the sta		
publication and/or data	mental and the first of the			A CONTRACTOR OF THE SECOND
repositories, etc.)		$\lim_{n\to\infty} \frac{1}{n} \int_{\mathbb{R}^n} \frac{dx}{x} \int_{\mathbb{R}^$	a has gland Singar	9 Jan 19 19 19 19 19 19 19 19 19 19 19 19 19
<b>Specialist support</b> (experts		f(x)   =   f(x)   +   f(x)		
on different aspects of Open	1 - 0 also listed later lots	1/2 /2 / Ja-cos/n		Sint Sint Day of
Science, research data	Enarchement X-sunt-y	the state of the s		



committees, courses, workshops, etc.)	The state of the s	Service Service	To the state of th
Financial support and rewards			
Careers perspectives and recognition		) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	

## Overall, if you had to summarise your view on Open Science, what would you say?

Open Science is an exciting opportunity for Science, mostly with benefits
Open Science is an opportunity for Science, with the benefits overcoming the drawbacks
Open Science is mostly positive for Science, it has benefits but also important drawbacks
Open Science is an unimportant bureaucratic burden for Science
Open Science is a worrying new perspective for Science
Open Science is a real threat to Science

## Thank you very much for your valuable answers! Before completing, could you help by defining your profile?

### Your position in the institution:

- Profile A. Principal Investigators (PIs)
- Profile B. Senior researchers (staff scientists, etc.)
- Profile C. Postdocs
- Profile D. PhD students
- Profile E. Technicians
- Profile F. Staff at Core Facilities
- Profile G. Science communication / Outreach officers
- Profile H: Management and administrative staff
- Profile I: Funding programme manager

### Your gender:

- Female
- Male
- Others

### Your professional experience in your current institution:

- · Less than 1 year
- 1 to 5 years
- More than 5 years





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