## Supplementary material

## **Questionnaires**

**Table A1.** Artistic Creativity Achievement Questionnaire (ACAQ)

Have you created any artistic work in these domains?	Number of 'Yes'
Plastic Arts (Drawing, Painting, Sculpture, etc.)	1,490
Photography	1,835
New Media Arts (Digital, Computer, Multimedia Art, etc.)	790
Music	605
Performing Arts (Dance, Theatre or Film Acting, Opera, etc.)	680
Architecture	250
Creative Writing: Fiction (Poetry, Novel, Story, Playwriting, Scriptwriting, etc.)	1,719
Creative Writing: Non-Fiction (Essay, Journalism, Biography, etc. Excluding scientific publishing)	1,828
Theatre Direction or Production	211
Film Direction or Production	171
Other artistic areas	212

Inspired by Carson et al. (2005). Three mutually exclusive possible replies: "No," "Yes, I have created some artistic work, unpaid and not commercially exploited," and "Yes, I have created some artistic work, paid or commercially exploited."

## Table A2. Science Through Art Questionnaires (STAQs)

(I) Through your artistic facet, do you diffuse scientific knowledge?

Yes, from my field of knowledge

Yes, from my speciality within my field of knowledge

Yes, from my publications in the ISI's JCR, with impact factor

Yes, from knowledge fields other than mine

(II) Does your artistic work enable you to have contact with people outside your professional sphere in these ways?

I talk about my scientific research with entrepreneurs or managers from the artistic world (editors, producers, etc.)

I talk about my scientific research with professional artists (painters, sculptors, writers, filmmakers, etc.)

I talk about my scientific research with the audience of my artistic work (readers, spectators, etc.)

After becoming aware of my artistic work, entrepreneurs or managers from the artistic world have contracted me to develop my research facet

Entrepreneurs or managers from the artistic world that produced my artistic work exhibit my research facet as an extra quality in its promotion

Entrepreneurs or managers from the artistic world have given me research ideas that I have developed in my research facet

Professional artists have given me research ideas that I have developed in my research facet

The audience of my artistic work has given me research ideas that I have developed in my research facet

Answers in a 5-point Likert scale from 1 (Never) to 5 (Very frequently).

## **Table A3.** Science-Art Balance Questionnaire (SABQ)

How do you combine your research and artistic facets?	Notes
My artistic work counts as a merit for my professional CV	
I try to make colleagues aware of my artistic facet	
The fact that colleagues know about my artistic facet has been a disadvantage	Dropped for variable construction
I wish there were more links between my research and my artistic work	
My artistic work opens up new professional opportunities for me	
My artistic work is a useful way to highlight my professional competences	
If I could, I would leave my job to devote myself to art	Dropped for variable construction
The fact of having two facets (research and artistic) causes me personal tension	Dropped for variable construction

Answers in a 7-point Likert scale from 1 (Totally disagree) to 7 (Totally agree). The elimination of three items indicated as "dropped for variable construction" increased the Cronbach's alpha score.

**Table A4.** Correlation coefficients (1/2)

Table 144. Correction coefficients (1/2)															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Science communication through art	1.00													
2	Public outreach through art	0.87*	1.00												
3	Public engagement through art	0.86*	0.51*	1.00											
4	Scientific impact	-0.09*	-0.06*	-0.10*	1.00										
5	Scientific impact squared	-0.08*	-0.04*	-0.09*	0.98*	1.00									
6	Science-art balance	0.64*	0.61*	0.50*	-0.08*	-0.07*	1.00								
7	Multidisciplinarity	0.09*	0.07*	0.10*	0.04	0.03	0.06*	1.00							
8	Medicine	-0.11*	-0.10*	-0.10*	-0.12*	-0.13*	-0.09*	-0.19*	1.00						
9	Life Sciences	0.01	0.06*	-0.04	0.10*	0.09*	0.01	-0.05*	-0.24*	1.00					
10	Other Natural Sciences	-0.07*	-0.06*	-0.06*	0.14*	0.12*	-0.05*	-0.13*	-0.28*	-0.23*	1.00				
11	Engineering	-0.09*	-0.09*	-0.07*	0.08*	0.08*	-0.04	-0.06*	-0.19*	-0.16*	-0.19*	1.00			
12	Art and Literature	0.13*	0.08*	0.15*	-0.15*	-0.12*	0.09*	-0.04*	-0.11*	-0.09*	-0.11*	-0.07*	1.00		
13	Madrid	-0.03	-0.01	-0.04	0.01	0.01	-0.03	0.02	0.03	0.01	0.04	-0.03	0.00	1.00	
14	Barcelona	-0.04	-0.05*	-0.02	0.01	0.00	-0.01	0.02	0.02	0.03	-0.03	0.00	-0.02	-0.19*	1.00
15	Valencia	0.05*	0.03	0.05*	0.01	0.01	0.01	-0.01	-0.05*	0.02	-0.04	0.01	0.05*	-0.17*	-0.10*
16	Foreign residence	0.02	0.01	0.02	0.03	0.03	0.04	-0.01	-0.09*	0.03	0.05*	0.04	-0.01	-0.17*	-0.10*
17	University researcher	0.11*	0.09*	0.09*	-0.00	0.01	0.04	0.03	-0.26*	-0.07*	-0.04	0.11*	0.11*	-0.13*	-0.07*
18	Woman researcher	-0.09*	-0.08*	-0.08*	-0.02	-0.01	-0.02	0.01	0.06*	-0.02	-0.07*	-0.10*	0.10*	0.04	0.01
19	Age	0.13*	0.10*	0.13*	-0.05*	-0.05*	-0.03	0.08*	0.06*	0.04*	0.01	-0.14*	0.00	0.09*	0.02
20	Foreign nationality	0.00	-0.01	0.01	0.03	0.04	-0.00	0.02	-0.04	-0.03	0.04*	-0.03	0.04*	-0.03	0.04
21	Non-Spanish first language	0.00	-0.01	0.01	0.01	0.01	-0.02	-0.01	-0.06*	0.01	0.02	0.01	-0.01	-0.21*	0.29*
22	PhD	0.08*	0.08*	0.06*	0.17*	0.15*	-0.02	0.08*	-0.22*	0.02	0.10*	0.04*	0.01	-0.01	-0.02
23	Married or domestic partner	0.00	0.01	-0.01	-0.01	-0.01	-0.05*	0.01	0.11*	-0.01	-0.03	-0.04*	-0.05*	-0.02	-0.02
24	Number of underage children	-0.04	-0.01	-0.06*	0.00	0.00	-0.02	0.01	0.05*	-0.02	-0.01	-0.02	-0.05*	0.03	-0.03
25	Number of organisations	0.08*	0.05*	0.09*	-0.05*	-0.04	0.04	0.05*	0.13*	0.01	-0.10*	-0.08*	-0.02	0.03	0.11*
26	Directive position	0.09*	0.05*	0.10*	-0.02	-0.02	0.00	0.10*	0.02	-0.05*	-0.04*	-0.01	0.02	-0.01	0.04
_27	Public organisation	-0.01	-0.01	-0.01	0.07*	0.06*	-0.05*	-0.02	-0.02	0.01	0.09*	-0.01	0.02	0.01	-0.08*

<sup>\*</sup> Significant at 5%.

Table A5. Correlation coefficients (2/2)

		14	15	16	17	18	19	20	21	22	23	24	25	26	27
15	Valencia	1.00													1.00
16	Foreign residence	-0.09*	1.00												-0.09*
17	University researcher	0.09*	0.04*	1.00											0.09*
18	Woman researcher	0.00	0.00	-0.04	1.00										0.00
19	Age	0.03	-0.26*	0.03	-0.21*	1.00									0.03
20	Foreign nationality	-0.02	0.24*	0.00	0.03	-0.07*	1.00								-0.02
21	Non-Spanish first language	0.13*	0.04*	0.03	-0.01	-0.04	0.24*	1.00							0.13*
22	PhD	0.01	0.01	0.22*	-0.09*	0.19*	-0.03	-0.03	1.00						0.01
23	Married or domestic partner	0.00	-0.12*	-0.00	-0.14*	0.28*	-0.02	-0.01	0.11*	1.00					0.00
24	Number of underage children	-0.02	-0.11*	-0.02	-0.05*	-0.04	-0.02	-0.01	0.07*	0.36*	1.00				-0.02
25	Number of organisations	-0.02	-0.01	0.07*	-0.02	0.07*	0.05*	0.05*	0.03	0.06*	-0.02	1.00			-0.02
26	Directive position	-0.02	-0.13*	0.02	-0.07*	0.23*	-0.06*	-0.02	0.09*	0.14*	0.06*	-0.04	1.00		-0.02
27	Public organisation	0.08*	-0.09*	0.17*	-0.06*	0.18*	-0.09*	-0.05*	0.12*	0.07*	0.02	-0.17*	-0.02	1.00	0.08*

<sup>\*</sup> Significant at 5%.