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# Apuntes para un sistema académico y científico más ético e íntegro (carrera incluida)

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Pastora Martínez Samper

Comisionada para la acción internacional

06/09/2023

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Universitat Oberta  
de Catalunya

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UoC

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# PAINKILLERS

THE FILM THAT COST OVER \$20,000,000

# INSIDE

"A CRIME STORY LIKE NO OTHER"

"IF YOU'RE NOT ENGAGED BY THIS MOVIE, YOU WERE NOT BORN"

"STUNNING!" IN

"A VERY ANGRY, VERY CAREER-ORIENTED, VERY AMBITIOUS MAN WHO IS ABOUT HOW THE AMERICAN PHARMACEUTICAL INDUSTRY WOULD DEFRAND THE CONSUMER"

"A POWERHOUSE THAT WILL THUNDERSTRUCK"

"A MASTERPIECE! SCARIER THAN ANYTHING WES CRAVEN OR JOHN CARPENTER HAVE EVER DONE"

"BLOOD"



THE GLOBAL ECONOMIC CRISIS  
COST TENS OF MILLIONS  
THEIR SAVINGS, THEIR  
AND THEIR HOMES

THIS IS HOW IT HAPPENS

DIRECTED BY CHARLES



# CODED



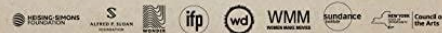
A SHALINI KANTAR



# PICTURE A SCIENTIST



AN UPFRISING PRODUCTION | IN ASSOCIATION WITH THE WONDER COLLABORATIVE | A FILM BY SHARON SHATTUCK AND JAN CHENEY - PICTURE A SCIENTIST  
EXECUTIVE PRODUCER AMY BRAND | EDITED BY NAKASHA BEEDI | CO-PRODUCERS FRIE WADAO AND ULINASEIN BABALOLA  
PRODUCED BY MANETTE POTTLE, JAN CHENEY, SHARON SHATTUCK | DIRECTED BY JAN CHENEY AND SHARON SHATTUCK



pictureascientist.com

Illustrations by Sean McGray | Poster Design by Ed Hungen

Artículos sobre

## Acoso en la universidad

10 de julio de 2023

Un directivo de la escuela de negocios de la Pompeu Fabra, despedido por acoso laboral a siete trabajadoras



ACN

5 de julio de 2023

El Govern catalán creará un censo para centralizar las denuncias de abusos en las universidades



Pol Pareja

18 de junio de 2023

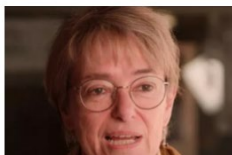
Condenado un profesor de un grado de la Rey Juan Carlos por abusar de una alumna: “Me ponía el pene en la nuca”



Laura Galaup

6 de junio de 2023

La Universitat de Barcelona obliga a hacer un curso de reeducación a la prestigiosa arqueóloga



**The Economist**  
OCTOBER 19TH-25TH 2013  
Economist.com

- Washington's lawyer surplus
- How to do a nuclear deal with Iran
- Investment tips from Nobel economists
- Junk bonds are back
- The meaning of Sachin Tendulkar

**HOW SCIENCE GOES WRONG**

Icons include: a globe, a test tube with green liquid, a DNA helix, a brain, a microscope, a globe with a red spot, a pink box with '99 Einsteinium', a pill, and a cell structure.

## Científicos españoles para 'banking' de las mejores ideas

En España declaran falsamente que su trabajo para auparlas artificialmente en las



papers, ...

SCIENTIFIC AMERICAN [Subscribe](#)

### ETHICS | OPINION Corrects Itself, Right? A Scandal at Stanford Says It Doesn't

How do you correct the scientific record? And who—and what—stands in the way? The answer to both questions is: everyone

By Ivan Oransky, Adam Marcus on August 1, 2023

# A mental-health crisis is gripping science – toxic research culture is to blame

With researchers reporting high rates of anxiety and depression, calls are growing to fundamentally change science before it's too late.

[Shannon Hall](#)

## RESEARCH ARTICLE

## The impact of working in academia on researchers' mental health and well-being: A systematic review and qualitative meta-synthesis

Helen Nicholls<sup>1\*</sup>, Matthew Nicholls<sup>2‡</sup>, Sahra Tekin<sup>1‡</sup>, Danielle Lamb<sup>3‡</sup>, Jo Billings<sup>1‡</sup>

**1** Division of Psychiatry, Faculty of Brain Sciences, University College London, London, United Kingdom, **2** MRC Molecular Haematology Unit, MRC Weatherall Institute of Molecular Medicine, Radcliffe Department of Medicine, University of Oxford, Oxford, United Kingdom, **3** Department of Applied Health Research, Institute of Epidemiology and Health Care, University College London, London, United Kingdom

\* These authors contributed equally to this work.

‡ DL and JB also contributed equally to this work.

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### OPEN ACCESS

**Citation:** Nicholls H, Nicholls M, Tekin S, Lamb D, Billings J (2022) The impact of working in academia on researchers' mental health and well-being: A systematic review and qualitative meta-synthesis. PLoS ONE 17(5): e0268890. <https://doi.org/10.1371/journal.pone.0268890>

### Abstract

#### Objective

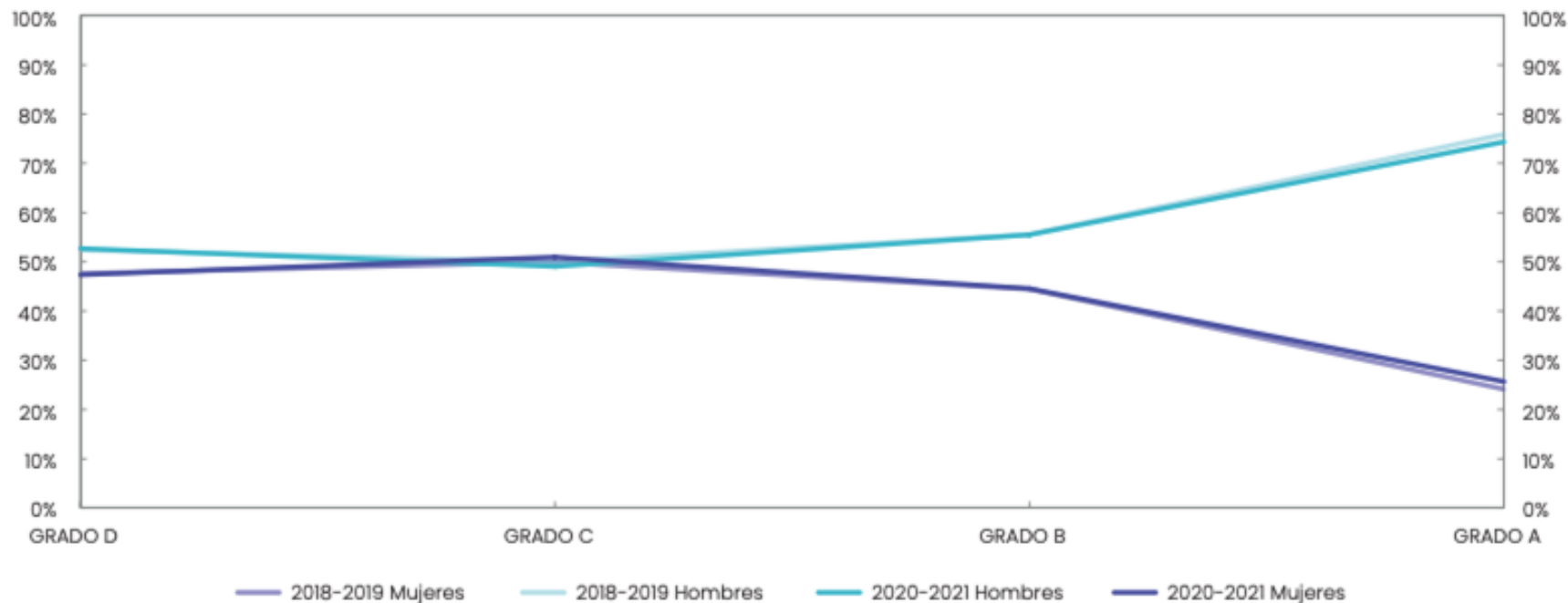
To understand how researchers experience working in academia and the effects these experiences have on their mental health and well-being, through synthesizing published qualitative data.

## Results

26 papers were identified and included in this review. Academic researchers' experiences were captured under seven key themes. Job insecurity coupled with the high expectations set by the academic system left researchers at risk of poor mental health and well-being. Access to peer support networks, opportunities for career progression, and mentorship can help mitigate the stress associated with the academic job role, however, under-represented groups in academia are at risk of unequal access to resources, support, and opportunities.

### Gráfico 3.1.b Evolución de la distribución de mujeres y hombres en el personal investigador de las universidades según categoría investigadora. Cursos 2018-19 y 2020-21.

(En porcentaje del total del personal investigador).



**CROSSING PATHS:  
INTERDISCIPLINARY  
INSTITUTIONS,  
CAREERS, EDUCATION  
AND APPLICATIONS**



Career stage	Career risks of engaging in IDR
PhD students	<ul style="list-style-type: none"><li>• Need to secure a firm theoretical and methodological foundation in one or more disciplines in order to be equipped to undertake high quality research.</li><li>• <b>Need to secure relevant (discipline) publications and research experience as a basis for post–doctoral employment.</b></li><li>• The lack a disciplinary ‘home’ and identity can make it more difficult to form networks and a sense of belonging.</li></ul>
Postdoctoral researchers	<p>As above, plus:</p> <ul style="list-style-type: none"><li>• IDR can take longer; hence the publication profile might develop at a slower pace.</li><li>• Hence it may be easier to pursue a discipline–focussed publication plan while establishing teaching experience, passing probation etc.</li><li>• <b>The university/department judged that the individual’s IDR publications do not provide a good ‘fit’ for the UoA REF return.</b></li></ul>

integrity | in't

1 the quality of being ho  
integrity.

## The European Code of Conduct for Research Integrity

REVISED EDITION 2023

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integun



United Nations  
Educational, Scientific and  
Cultural Organization

### Focused implementation: the 10 key areas of the UNESCO Recommendation on the Status of Scientific Researchers (2017)

The Recommendation on Science and Scientific Researchers, was adopted by a consensus of some 195 states. Member States are invited to focus on 10 key areas:

1. **The responsibility of science towards the United Nations' ideals of human dignity, progress, justice, peace, welfare of humankind and respect for the environment.**

*Science is part of Member States' efforts to develop more humane, just and inclusive societies and serves to further the United Nations ideals of peace and welfare of humankind.*

(paragraphs 4, 5e, f, 13d).

2. **The need for science to meaningfully interact with society and vice versa.**

*Member States' governments and the general public alike recognize the value and use of science and technology for tackling global challenges. Society is engaged in science and research through the identification of knowledge needs, the conduct of scientific research, and the use of results.*

(paragraphs 4, 5c, 13d, 19, 20, 22).

3. **The role of science in national policy and decision making, international cooperation and development.**

*Member States should use scientific knowledge in an inclusive and accountable manner to inform national policy and decision making, and to advance international cooperation and development.*

(paragraphs 5g, 7, 8, 9).

# THE EVOLUTION OF ACADEMIA

PUBLISH



PUBLISH  
OR  
PERISH



PUBLISH  
IN HIGH IMPACT  
JOURNALS  
OR  
PERISH



PUBLISH  
FREQUENTLY IN  
HIGH IMPACT  
JOURNALS  
AND  
MAYBE  
YOU WON'T  
PERISH



[facebook.com/pedromics](https://www.facebook.com/pedromics)





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DAVIDE BONAZZI/SALZMAN ART

Landmark research integrity survey finds questionable practices are surprisingly common

By Jop de Vrieze | Jul. 7, 2021 , 5:10 PM



## National Survey on Research Integrity

“The team found that **pressure to publish was most strongly correlated with questionable research behavior**, and that perceptions of the chance of being caught by peer reviewers was the biggest factor in inhibiting misconduct.”

“The survey found **Ph.D. students had the hardest time meeting the standards of responsible research**. Some 53% of them admitted to frequently engaging in one of the 11 questionable research behaviors within the past 3 years, compared to 49% of associate and full professors.”

# RRI is about: including all actors, and considering specific key issues and process dimensions



## MANAGING RESEARCH



- Mobilise resources
- Manage projects
- Negotiate
- Evaluate research
- Promote open access publications

## DOING RESEARCH



- Have disciplinary expertise
- Perform scientific research
- Conduct interdisciplinary research
- Write research documents
- Apply research ethics and integrity principles

## MANAGING RESEARCH TOOLS



- Manage research data
- Promote citizen science
- Manage intellectual property rights
- Operate open source software

## WORKING WITH OTHERS



- Interact professionally
- Develop networks
- Work in teams
- Ensure wellbeing at work
- Build mentor-mentee relationships
- Promote inclusion & diversity

# RESEARCH COMP

## COGNITIVE ABILITIES



- Abstract thinking
- Critical thinking
- Analytical thinking
- Strategic thinking
- Systemic thinking
- Problem solving
- Creativity

## MAKING AN IMPACT



- Participate in the publication process
- Disseminate results to the research community
- Teach in academic or vocational contexts
- Communicate to the broad public
- Increase impact of science on policy & society
- Promote open innovation
- Promote the transfer of knowledge

## SELF MANAGEMENT



- Manage personal professional development
- Show entrepreneurial spirit
- Plan self-organisation
- Cope with pressure

# ResearchComp: The European Competence Framework for Researchers

Tool to assess and develop  
researchers' transferable skills  
and foster career development

(Feb 2023)



**Victòria Camps** (Barcelona, 1941)

*La profesionalidad tiene hoy un significado muy restringido. Se relaciona con el éxito más vinculado a la fama y el dinero que a un sentido de la excelencia que se identifica con la buena práctica. [...] El aprendizaje de las virtudes es un saber práctico, que **se adquiere ejerciéndolo y creando un ambiente adecuado** que sirva para formar la personalidad del profesional.*

*Los valores éticos de la profesión sanitaria*  
Camps V., Educación Médica **16** (2015) 3-8  
DOI: 10.1016/j.edumed.2015.04.001

## Model for Managing Complex Change



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# LEARNING TRANS- FORMING

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