

Gender inclusiveness: changing cultures, mindsets and the design of research structures in life sciences

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#ESOF2018







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Analysis of the Research Landscape Through a Gender Lens

Stephane Berghmans, DVM PhD | Vice President, Academic & Research Relations On behalf of the report team

Gender inclusiveness: changing cultures, mindsets and the design of research structures in life sciences 10 July 2018 | ESOF 2018, Toulouse



Gender in the Global Research Landscape

Empowering Knowledge

Global Initiatives



HOME ABOUT STATEMENT OF PRINCIPLES GOVERNING BOARD

Statement of Principles and Actions Promoting the Equality and Status of Women in Research

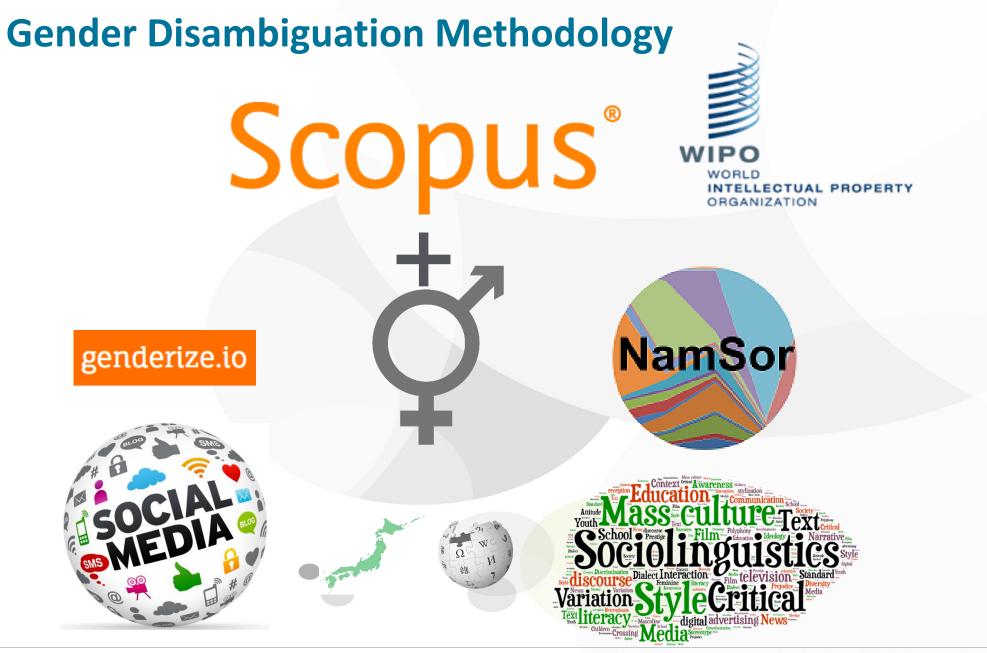


https://www.elsevier.com/research-intelligence/research-initiatives/sustainability-2015 1.

2. https://www.elsevier.com/research-intelligence/research-initiatives/gender-2015

Data Sources & Methodology

Empowering Knowledge



Comparator Selection

- Global coverage
- Countries/regions with high research output



- Each with at least one comparable comparator
- Applicability of our gender disambiguation methodology
- At least two countries from each major region
- A practical limit in a single report given our analyses

Report Results: an EU Perspective

Empowering Knowledge

CHAPTER 1 The global research landscape through a gender lens

Proportion and Number of Researchers by Gender

🔳 Women 📕 Men

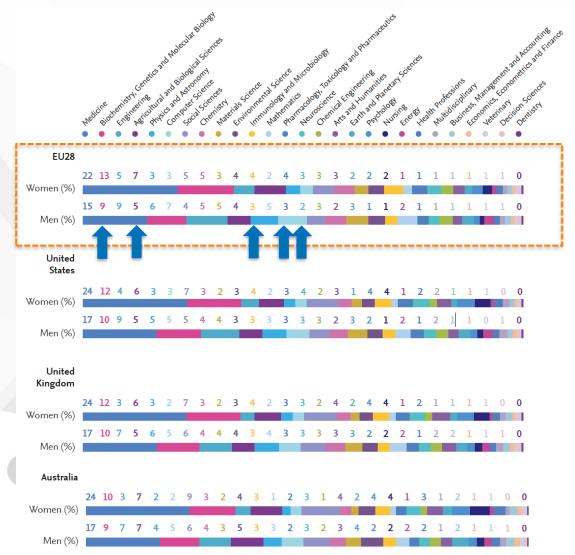
		PROPORTION OF WOMEN AND MEN (AMONG NAMED GENDERED AUTHOR PROFILES)									
		(AMONG NAMED GEND	ERED AUTHOR PROFILES)			Brazil	1996-2000	18,171	29,620	38%	62%
EU28	1996-2000	343,946	732,359	32%	<mark>68%</mark>		2011-2015	153,967	158,873	49%	51%
	2011-2015	965,025	1,389,772	41%	59%		1007 2000	40 172	272.404	150/	050/
United	1996-2000	310,666	696,947	31%	69%	Japan	1996-2000	49,173	273,604		85%
States	2011-2015	705,579	1,071,606	40%	60%		2011-2015	105,384	411,394	20%	80%
						Denmark	1996-2000	7,089	16,984	29%	71%
United Kingdom	1996-2000	68,912	154,175		<mark>69%</mark>		2011-2015	21,240	30,813	41%	59%
Ū.	2011-2015	166,481	253,257	40%	60%	·					
Canada	1996-2000	36,539	77,569	32%	68%	Portugal	1996-2000	5,134	7,409	41%	59%
	2011-2015	99,055	137,259	42%	58%	L	2011-2015	27,561	28,935	49%	51%
						Mexico	1996-2000	8,072	15,792	34%	66%
Australia	1996-2000	22,632	45,665		67%	in exist	2011-2015	34,410	55,042		62%
	2011-2015	75,600	97,908	44%	56%		2011-2013	74,410	55,042	3070	02%
France	1996-2000	58,396	114,205	34%	66%	Chile	1996-2000	3,021	6,024	33%	67%
	2011-2015	121,948	185,350	40%	60%		2011-2015	13,377	22,099	38%	62%

- Purple represents "women" and green "men"
- Researchers = Authors who have published articles, reviews, and conference proceedings indexed in Scopus
- Proportion of women among researchers is increasing
- The proportion of **women among researchers in the EU is 41%**, a 9% increase between the two time periods

Distribution of EU Researchers Scholarly Output

by subject area for each gender, 2011-2015

- There tend to be larger proportion of women researchers than men researchers whose scholarly output is in the Health and Life Sciences.
- By contrast, 9% of men authors' scholarly output was published in journals belonging to the Engineering subject category compared to 5% of women authors



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Scholarly Output Per Researchers

by gender and comparator

- Men publish slightly more papers on average than women
- Women see a minute decline in average number of papers per researcher over time in the EU



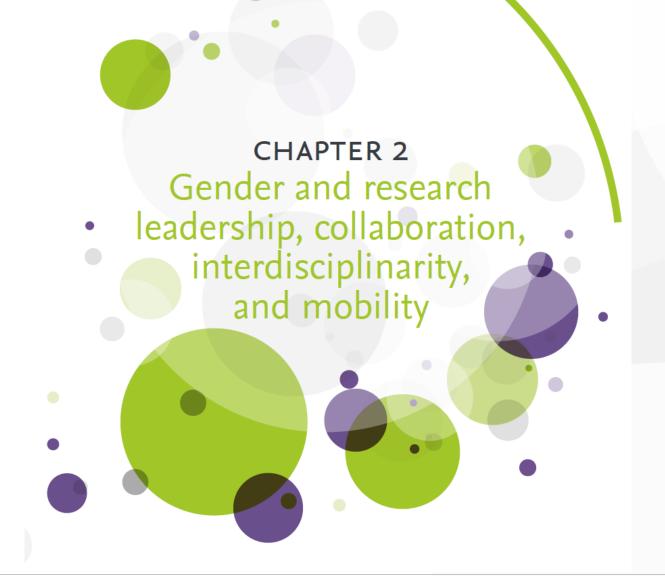
🔳 Women 📕 Men

🔳 Women 📕 Men

Citation Impact *by gender and comparator*

- In the EU the FWCI is about equal for men and women
- The US and the UK are the only two comparator countries in which the FWCI for women is higher than for men



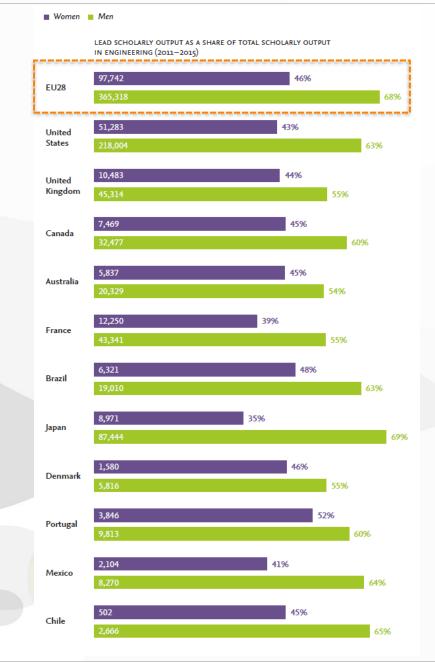


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Leadership

First & corresponding authorship Engineering (2011-2015)

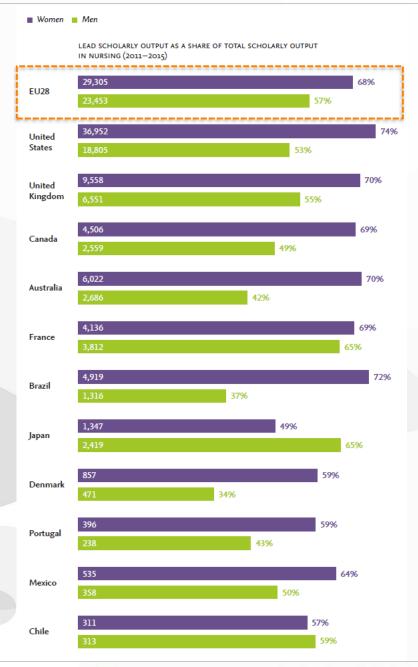
- Women researchers significantly outnumbered by men in engineering (24%)
- When men appear as authors in Engineering papers, they are more likely to take the first or corresponding author position
- In the EU, women are first or corresponding author on 22% fewer papers than men



Leadership

First & corresponding authorship *Nursing (2011-2015)*

- Women represent more than half of Nursing researchers, 54% of EU researchers in the Nursing field are women
- Women are first or corresponding authors on nearly 3 quarters (68%) of their scholarly output in Nursing, compared to just over half (57%) for men
- In all comparators except Japan and Chile, women are more likely to take first or corresponding author position on their Nursing papers than men are on theirs



International Collaboration

- EU has relatively low shares of papers reflecting international collaboration for both women and men
- Scholarly output reflecting international collaboration increased for all comparators as a proportion of total scholarly output
- For all comparators, women's scholarly output is less likely to result from international collaboration than men's



55%

Interdisciplinary Research

- Women tend to have the same or a slightly higher share than men of interdisciplinary research across all comparators
- For the EU, the proportion of scholarly output that belongs to the top 10% interdisciplinary output is 8% for both women and men, stable over time
- For most comparators, the proportion decreases for women and increases for men over time

Women Men TOP 10% INTERDISCIPLINARY SCHOLARLY OUTPUT AS A SHARE OF TOTAL SCHOLARLY OUTPUT EU28 1996-2000 159.63 2011-2015 United States 49,013 8% 1996-2000 104,210 2011-2015 United Kingdom 12,948 1996-2000 25,019 2011-2015 Canada 5,438 1996-2000 14,123 2011-2015 Australia 3,439 1996-2000 2011-2015 France 1996-2000 18,059 2011-2015



Gender in the Global Research Landscape



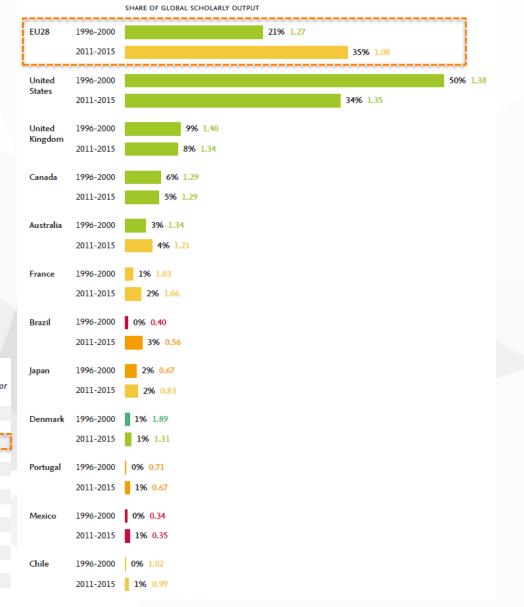
Gender Research

scholarly output and impact

- Over 23,000 gender research papers published 2011-2015, more than 2.5 times (2.7 factor of growth) the number of papers published between 1996-2000.
- The EU scholarly output in gender research represents 35% of the world's, increasing by 14 percentage points from the earlier period, quadrupling in size in absolute terms. In 1996-2000, it was cited at 27% more than the global overall average; in 2011-2015, 8% more.

		Scholarly output				FWCI	Japan	1996-2000	2	
	Comparator	1996–2000	2011–2015	Change factor	1996–2000	2011-2015	Change factor		2011-2015	2
C	World	8,631	23,063	↗ 2.7	1.21	1.02	u 0.8	Denmark	1996-2000	
	United States	4,281	7,743	↗ 1.8	1.38	1.35	→ 1.0		1770-2000	
	EU28	1,847	7,973	↗ 4.3	1.27	1.08	≥ 0.9		2011-2015	
	United Kingdom	740	1,907	↗ 2.6	1.40	1.34	→ 1.0			
	Canada	482	1,212	↗ 2.5	1.29	1.29	→ 1.0	Portugal	1996-2000	0%
	Australia	282	973	↗ 3.5	1.34	1.21	→ 0.9		2011-2015	1%
	France	107	567	↑ 5.3	1.03	1.06	→ 1.0			
	Brazil	39	611	↑ 15.7	0.40	0.56	7 1.4		1996-2000	0%
	Japan	156	454	7 2.9	0.67	0.83	7 1.2	menico		1.1
	Denmark	57	239	↗ 4.2	1.89	1.31	≥ 0.7		2011-2015	1%
	Portugal	6	169	↑ 28.2	0.71	0.67	→ 0.9			
	Mexico	25	148	↑ 5.9	0.34	0.35	→ 1.0	Chile	1996-2000	0%
	Chile	9	116	12.9	1.02	0.99	→ 1.0		2011-2015	1%
										-/-

FWCI: < < 0.50 0.50-0.75 0.75-1.25 1.25-1.75 > 1.75



Global Advisers and Subject Experts

United States



Gender in the Global Research Landscape

Report Team



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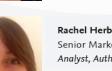


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Shereen Hanafi

Communications



Report and Other Materials



- Download the Report & Infographic
 - <u>https://www.elsevier.com/research-</u>
 <u>intelligence/resource-library/gender-report/_nocache</u> –
 Full Report
 - <u>https://www.elsevier.com/research-</u>
 <u>intelligence/campaigns/gender-17</u> Infographics

Access the References

- Public **Mendeley** group, a powerful community resource for anyone to join and contribute
- <u>https://www.mendeley.com/community/gender-in-the-global-research-landscape/</u>
- Gender & Research Resource Center
 - **Dynamic resource** with information about gender and women in STEM activities, initiatives, and programs
 - <u>https://www.elsevier.com/connect/gender-and-science-</u> resource-center

Thank you

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Gender inclusiveness:

changing cultures, mindsets and the design of research structures

in life sciences



Equity

Fairness





Equality



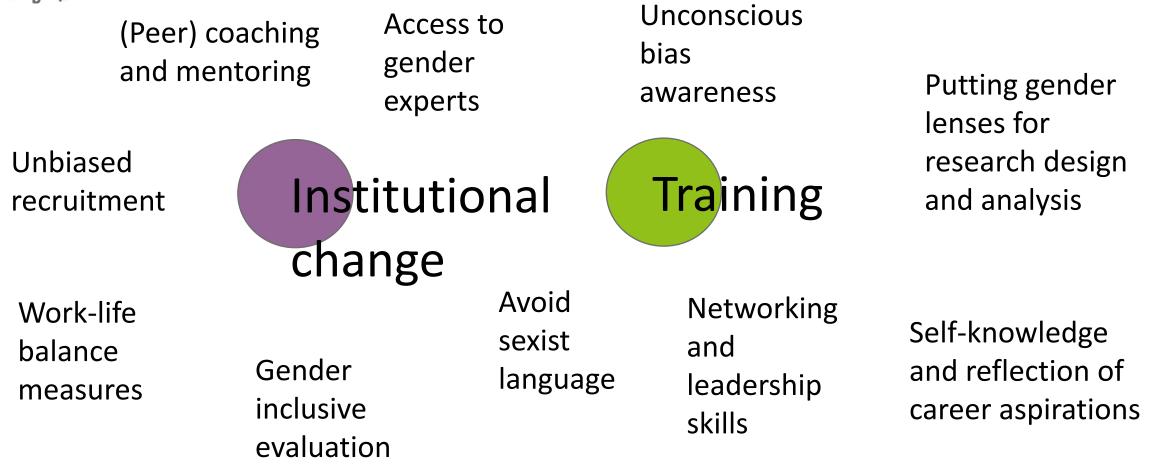


LIBRA a Community of Practice





Best practices





Gender inclusiveness: changing cultures, mindsets and the design of research structures in life sciences

A session organised by

eu-life.eu eu-libra.eu



Working Towards Gender Equality in Academic Science

Michael Wakelam

Babraham Institute, Cambridge, UK

LIBRA EC H2020 Gender Equality Project

Proposal number: 665937







Science: The Challenge

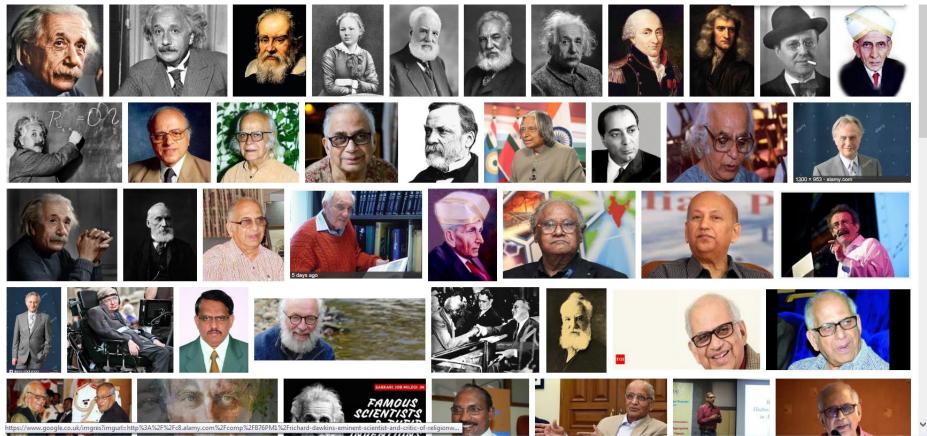
Scientist





Science: The Challenge

Eminent Scientist (May 2018)





Academia: The Challenge



Figure 6.1. Proportion of women and men in a typical academic career, students and academic staff, EU-28, 2007–2013

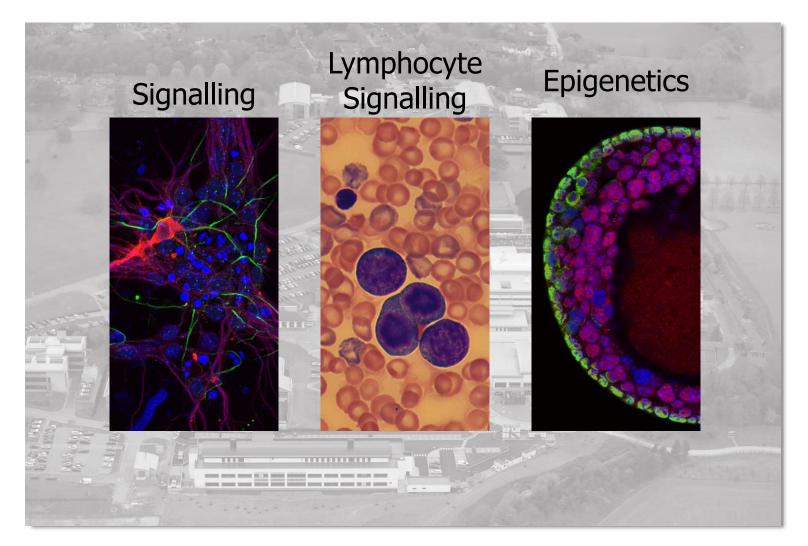


The Babraham Institute





The Babraham Institute

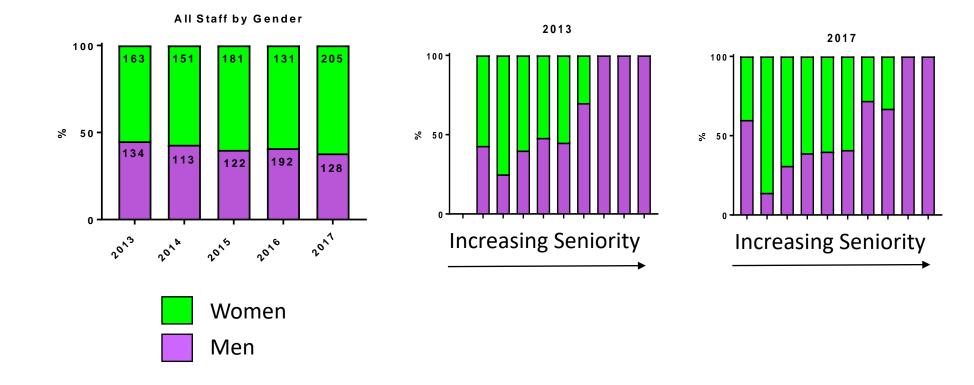


5 female and 15 male Group Leaders, 6 being recruited, currently 2 of 4 are female



Babraham Institute: The Challenge

All Staff





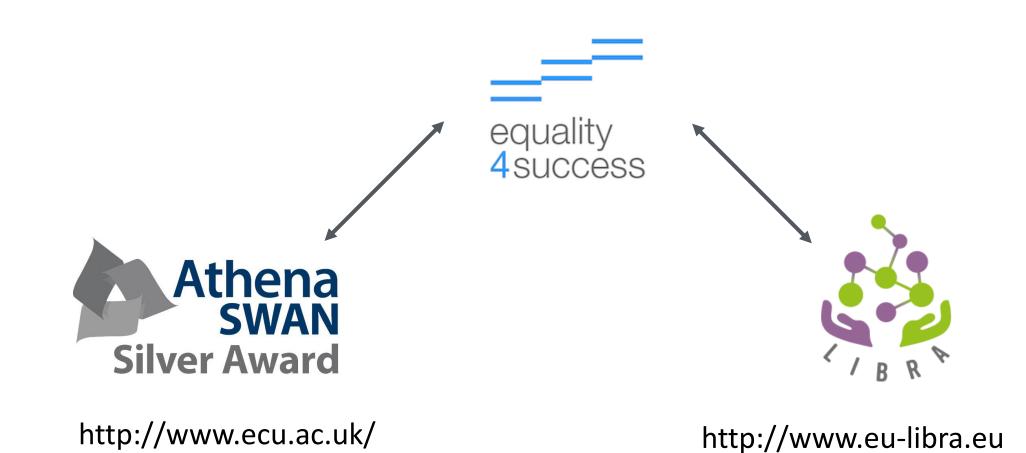
Why?

Three possible reasons:

- **1. Women are not capable**
- 2. Women do not have the desire
- 3. There are barriers preventing women from reaching senior levels



Gender Equality at Babraham Institute: equality4success



Babraham Institute

Athena SWAN

Scientific Women's Academic Network

Recognising advancement of gender equality: representation, progression and success for all

Established 2005 (STEMM)

Expanded 2015 – include arts, humanities, social sciences, business, law and professional and support roles within the organisation

Concerned with representation, progression, career journey, working environment





LIBRA

Leading Innovative Measures to Achieve Gender Balance in Research Activities



Gender Expert Social Science Organisation



ASDO - Assemblea delle Donne per lo Sviluppo e la Lotta all'Esclusione Sociale

Main areas of focus: Recruitment Career Progression Work Life Balance Sex and Gender Dimension of Research

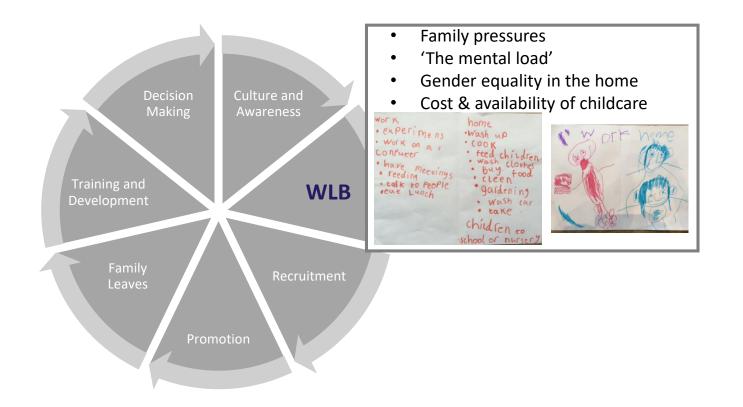


Barriers





Barriers





• Increased E & D awareness

Athena Making life work well at BI

Facilities

- Nursery, After school club, Funpack holiday club
- On site housing
- Free car parking

BBSRC

- Supported remote access to computing facilities
- Canteens, food outlets, coffee shops
- Gym & sauna, sports clubs, trim trail, tennis court
- Bike sheds (with equipment/support)
- Subsidised campus commuter bus
- Showers
- Social club and bar
- Book club, yoga classes
- Prayer room
- Lactation Room
- Nappy changing facilities (coming soon)
- Mindfulness seminars
- Cash machine
- Vending machines/coffee machines
- Allotments
- e4s children's resources box
- e4s children's book recommendations
- e4s library
- Gardens

Awareness

- e4s blog pages
- HR intranet e4s intranet
- My life in science seminars
- Group Leader seminars
- e4s twitter

For more information on any of these polices or facilities speak to an e4s team member, the e4s manager fauta.norten@labteham.ac.uk , HR, or Trevor Smith from HBS.

If you have any suggestions of how to improve life at BI please do contact us.





Policies

- Reguests to reduce/increase contracted hours considered
- Employee assistance programme (EAP)
- Flexible working

equality

4 succéss

- Job sharing
- Meetings during core hours Nursery salary sacrifice
- Childcare vouchers
- Shared parental leave policy
- Maternity leave policy
- Funding requests considered
- (emergency childcare
- arrangements/conference travel, travel
- to work scheme)







Further Information and Supportions



- Flexible working hours
- Working from home (supported network access)





Job Sharing



Claire Senner – Senior Post-doc

I have worked at BI as a Post-Doc for eight and a half years. During this time I have successfully carried out numerous research projects, mentored students, sat on the Post-Doc committee, and become a mother to three boys.

I have benefitted in numerous ways from the environment and specific initiatives for working mothers at BI. The e4s team has raised the profile of women scientists and are breaking down barriers that women are often up against. On a practical level, I have had three maternity leaves with full pay for 6 months and utilised the outstanding on-site nursery. My sons thoroughly enjoy their time there and the Institute's tax-relief salary sacrifice scheme helped especially at a time when two children were in nursery at once.



The most significant initiative that I have personally benefitted from is the introduction of job-sharing. I am one half of the Institute's first Post-Doc job share.

Whilst on maternity leave with my second child I worried how I would cope returning to my full-time position. My eldest child was about to start school and requires frequent check-ups in hospital following eye surgery as a baby. I am the "on-call" parent as my partner commutes, so dropping off, picking up and trips to the doctor are down to me. I love my children and caring for them is not a burden but I was beginning to feel like I wasn't doing either of my jobs well, as a mummy or a scientist. Friends suggested I work part-time, I was sceptical as I had never heard of a part-time Post-Doc. I talked to my Group Leader, initially requesting that I work three days a week, she suggested recruiting someone to work two days a week as a job-share. HR and senior management were immediately responsive and agreed to cover extra costs.

From a family point of view the lob-share is fantastic. I am at home two days a week. I schedule medical appointments and errands on my home-days so working-days run more smoothly. I am delighted that I have been able to continue as a Post-Doc which I love. I didn't want to leave the lab or BI and I'm so pleased that this has been possible.

When Sarah, my job-share partner, and I started, our main motivation was achieving a better work-life balance, but we've benefitted so much we want to share the experience. We are raising awareness on the topic – we worked with Ginibee, a local job-sharing platform, helping them to understand the peculiarities of being a Post-Doc; we presented at the BI job-share workshop; and we've written blog pieces with the e4s team. We



• Amenities e.g. housing, nursery, after-school club, holiday club, gym, bar, social club, commuter bus, showers, cycle path, allotments, sports clubs









- Increased E & D awareness
- Flexible working hours
- Working from home (supported network access)
- Job Sharing
- Amenities e.g. housing, gym, bar, social club, commuter bus, showers, cycle path, allotments, sports clubs
- Social events, informal networking
- Staff & student consultations
- Suggestion boxes





Career Re-entry Fellowships





"I love research, it really makes my mind feel alive..... It is enjoyable to work here: people are so enthusiastic about their projects..... I think any returning fellowship is fantastic – and the Daphne Jackson Trust is very good." -Dr Irina Abnizova



Flexible Working

When asked what the Institute does well for staff, staff consultation answers included 'the ability to work flexibly'. Flexible working is common at all grades and often arranged informally with the line manager. The working culture at the Institute is based on getting the job done and hours spent in the lab are not formally counted.

There are many reasons for flexible working: collecting children from school, caring for a relative, additional learning, religious observation or a long commute. Some staff work from home when reading or writing manuscripts. Each case is individual, and is based on the staff members' work and other commitments.

Claire Senner

Role models



I am a post doc at the Institute. Following the arrival of my second child I requested to work three days a week. Another post doc was recruited to work two days to job-share with me. Currently I am at home with my children on Monday and Tuesday and in the lab Wednesday, Thursday and Friday.

Simon Cook



am a group leader at the Institute. I worked flexibly for a period of time while both of my parents were ill. My line manager understood that sometimes I had to leave with little or no notice to help care for either of them.

Cheryl Smythe



Sarah Bell

Anne Corcoran

m a group leader at the Institute. My children attended the excellent on-site nursery and this allowed me to continue to breastfeed during the day. Now my children are older I work flexibly so that I can pick them up from school a few times

I'm the International Grants Manager at the Institute. I work both part-time and flexibly. This, not surprisingly, has both pros and cons. My week is a mixture of long and shorter days in the office and then logging on as required at other times. This working pattern will not suit everyone, because closing the door to your office does not always mean it is the end of your working day.

Mikhail Spivakov



am a group leader at the Institute. I live in from home one day a week.

Stefan Schoenfelder



Michael Hinton

m a member of the Public Engagement Team. I eniov being able to start and leave work earlier than 'normal' working hours. As a father of two children I am grateful for this flexibility – even a alf-hour difference gives me more time with my family. I occasionally work at evenings and weekends, and my line manager encourages me o balance these extended working hours with ime off to ensure a healthy work/life balance.

am a senior postdoc with young children. My line manager is very supportive, understanding that my working hours need to be flexible when my children need me. This can involve leaving work early with little or no notice, and then working from home or returning to the lab to finish experiments. On-site housing, an excellent nursery and after-school club have helped me to juggle my work and my family.





family commitments.



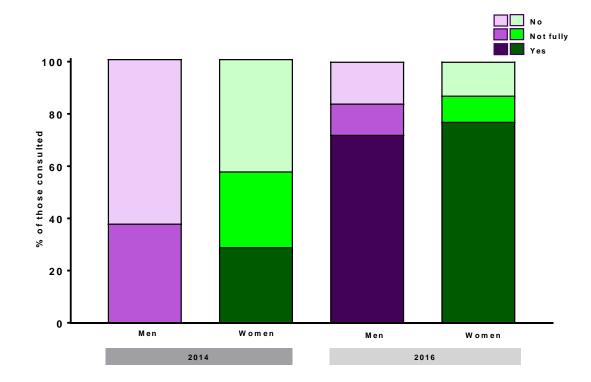
London and have a small child, so I usually work

- Increased E & D awareness
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- Amenities e.g. housing, gym, bar, social club, commuter bus, showers, cycle path, allotments, sports clubs
- Social events, informal networking
- Staff & student consultations
- Suggestion boxes
- Career Re-entry Fellowships
- Role models
- E & D team & budget
- Wellbeing team & budget



Impacts: Work Life Balance

Are you aware of Work Life Balance Practices at Babraham?





Impacts: Work Life Balance

"It is **incredible to have a nursery close to the office**, it makes childcare **less stressful**. I know my two children are **very happy** in the nursery and **I can stay focused at work**." —PhD Student (M)

"Work-life balance has become a lot more relevant to me now I have a family. I think **it would have been hard to go back to another job** after maternity leave – but here I love what I'm working on, who I am working for and the balance that Babraham provides" —RA (W)



What can you do?

Institutions:

- Develop appropriate data collection tools
- Collect and analyse appropriate data
- Listen, gather opinion
- Increase awareness
- Invest in E & D projects
- Care
- Make appropriate changes

A diverse workforce leads to greater productivity and a more efficient business

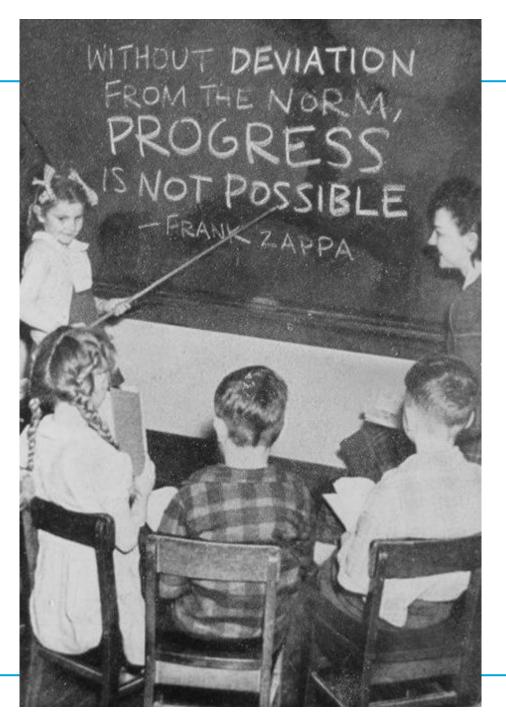


What can you do?

Individuals:

- Be aware of your own biases take the Implicit Association Test
- Question your own biases (reviewing grants, recruiting, chairing a session, organising an event, attending an event, writing a reference, buying a birthday present for a child)
- Feedback your opinions
- Provide your organisation with data
- Act as a role model
- Share the load (at home, at work- who organises social events, who does the washing?)
- Call out bad behaviour







Equality4success at Babraham Institute



equality 4success





HR Andrea Last Carol Barrow Rosie Almond Niki Rau Nathan Hills

Cheryl Smythe Simon Cook Anne Corcoran Matthew Humphries Simon Jones **Christel Krueger** Andrea Last Jonathan Lawson Michelle Linterman Natasha Morgan Laura Norton Sam Rees Simon Rudge Priya Schoenfelder Michael Wakelam Simon Walker

The Plant



Daniel Bolland Jo Brock Linda Clark Tacita Croucher Cristina Cruz Mark Grint Andrea Last Andrea Lopez Emma Martinez Natasha Morgan Laura Norton Rebecca Roberts Simon Rudge Trevor Smith Cheryl Smythe

Wellbeing

Focus group

Rosie Almond

Diversity failure in UK academia

Academic Staff by Professorial Status (FPE) 2014/15

Ethnicity	Female	Male	Total
White	3895	12455	16,350
Black Caribbean	15	15	30
Black African	10	60	70
Black Other	5	5	10
	30	80	110
Indian	80	305	385
Pakistani	10	55	65
Bangladeshi	5	15	20
Chinese	75	335	410
Other Asian	35	165	200
Other Mixed	120	365	485
Not Known	300	1305	1605
			19630



UK World Business Football UK politics Environment Education Science Tech (

Higher education

British universities employ no black academics in top roles, figures show

Figures record zero black academics in the elite staff category of 'managers, directors and senior officials' for third year in a row

Guardian Newspaper January 19th 2017







A view-point from Institut Curie

Geneviève Almouzni, PhD Director of the Research Centre at Institut Curie- Paris, France



Euroscience Open Forum Toulouse 2018

Who am I? A scientist and a woman





- Director of the Research Centre at the Institut Curie since 2013
- Pl of the Chromatin Dynamics team since 1994
- Department head of the Nuclear Dynamics unit (1999-2014)
- Women in Science Award: EMBO/FEBS 2013



Institut Curie: A Research Centre and a Hospital Group





- An internationally-renowned Research Centre and an advanced Hospital Group focused on cancer
- A non-profit foundation serving the public interest:
- A place with a unique history for women !

Combining history and modernity ! This sets the stage.

History of Institut Curie – A family with 5 Nobel prizes Men and women together : a strong message





Pierre and Marie Curie win the Nobel Prize for Physics, along with Henri Becquerel, for the discovery of natural radioactivity.



1935 <u> </u>

Irène and Frédéric Joliot-Curie win the Nobel Prize for Chemistry for having invented artificial radioactivity at the Radium Institute.

1911 🤶

Marie Curie wins the Nobel Prize for Chemistry for her work on radioactivity. She is the only woman to have received this prestigious award twice.



Women, sciences & family : the history continues



Irène & Frédéric Joliot with their children

1934



Armelle Corpet,

PhD in my lab did a Postdoc and got a position in Lyon France



Today at Curie: 32 Women PI among a total of 87 PI: a ratio > 35 %



Alena Shkumatava



Geneviève Almouzni



Angela Taddei



Edith Heard



Gudrun Schleiermacher



Laurence Desjardins



CélineVallot



Deborah Bourc'his Elizabeth Blackburn



Allison Bardin



Nadine Andrieu Valérie Borde



Renata Basto



Aura Carreira







Ines Drinnenberg

And many more !



Institut Curie | ESOF 2018 | Geneviève Almouzni

19/09/2018

Figures at the Research Centre – Institut Curie



	Men C	Vome	° Q
Researchers	96	95	
Research Engineers	35	67	
PostDocs	91	102	
PhDs	81	128	
Admin. + Tech. Staff	109	204	
Total	412	596	
PI Head of Units	55 Men 8 Men	32 Women 4 Women	> 35 % > 30 %

5 keys points for today's discussion



- Gender Equality at Institut Curie
- How to build a culture to support gender equality?
- Stepping stones on the way to reach gender equality
- LIBRA Activities at Institut Curie
- Discussions

Gender Equality at Institut Curie

What has contributed to the gender distribution at Institut Curie?



- In the case of Institut Curie, **historical** reasons have certainly contributed
- Women in leading positions attract other women – it is working proof of a climate supportive for female Pis
- France is in a good place concerning childcare and the acceptance of working mothers
- Creating **an environment** that shows applicants that their scientific career can take off at Institute is crucial
- **PI recruitment** do not accept shortlists without female candidates



How to build a culture to support gender equality?

- Involve female scientists in all activities
- Regard having a family as normal for women and men
- Create a culture that supports a healthy work-life balance
 seminars not too late in the day
 - No criticism for taking holidays (for woman and men alike)
 - No expectation/pressure to routinely work late in the lab
 - Possibility to work remotely
- Do not foster a culture of male networks
 ensure a good gender distribution for evaluation committees
 - institutionalize the recruitment process
 & evaluation procedures
 - do not accept shortlists without female candidates for any recruitment









Stepping stones on the way to reach gender equality

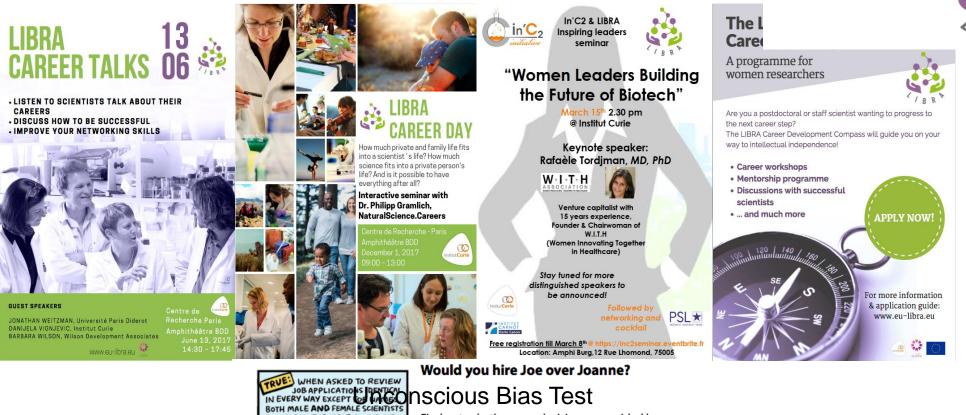
- As long as women are underrepresented, they face a greater administrative burden to ensure participation of women – it is hard to find enough women to be involved! : numbers
- Difficulty to ensure the participation of women at all levels of the decision-making process through **rules and regulations**.
- A complex organisational set-up:
 - constrictions on the composition of existing decision making bodies can be practical barriers.
 - Many stakeholders involved in such a process it is a path of many steps and milestones.



LIBRA Activities at Institut Curie

PREFERRED THE MALE CANDIDATE.

SEEMS VALIFIEL





Find out, whether your decisions are guided by unconscious attitudes to gender, by completing two quick, 10-minute tests!

The tests will measure your gender associations connected to different topics, such as natural sciences, humanities and the arts and family & career issues.

Institut Curie and other EU-LIFE partners aim to achieve gender equality in academia through the project LIBRA. As one of the first steps, we want to increase awareness of unconscious bias to not let it dictate our decisions.



The LIBRA Career Development Compass

A programme for 20 post-doctoral women researchers

Programme Content



- Online collaboration group and meetings
- **Mentorship programme:** meetings of mentor and mentee
- Workshop on **self leadership**, communication and self-confidence
- Workshop on strategic career planning (job interviews, applying for promotion etc....)
- Talks by scientists about their career
 experience and discussions with successful researchers













Marta Dias Agostinho



And to all the women and men that work together For the progress of Science and Society



Thank you for your attention







Gender inclusiveness: changing cultures, mindsets and the design of research structures in life sciences

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