Exploring quotas in academia

Robert Bosch Stiftung (EMBO



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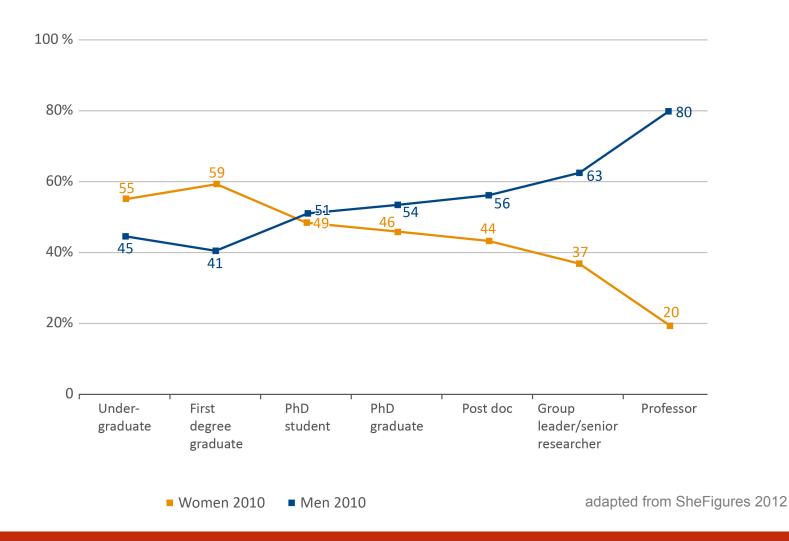


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EMBO is

- a European academy for the life sciences
 - >1700 elected members in Europe and world-wide
- a funder
 - funds via 27 member state intergovernmental organization (EMBC)
- a publisher of scientific journals

Why quotas in academia?



Reasons for concern in academia

quotas vs merit

Where have quotas been tried?

- Politics
- Business

Aim of the report

- Analyze possible harms and benefits of gender quotas to increase the number of women at the highest career levels.
- Provide options to decision makers:
 - Politicians
 - Science administrators/heads of institutes
 - Funders
 - Scientists

Project methodology

- Literature review
- Interviews with stakeholders
- Closed workshop with stakeholder group

Working group

Researchers on gender issues

Scientists in academia

Government officials

Decision makers in academia

Funders

Decision makers in industry

Project methodology

- Literature review
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- Report

Gender quotas analysed in 3 areas

- 1. for hiring at the highest career levels
- 2. for the composition of evaluation committees
- 3. for research funding

1. Quotas for hiring at the highest academic career levels

The cascade model

Quotas for hiring at the highest academic career levels The cascade model

Benefits

- Would effect long-term change in academic units.
- Realistic, based on composition of individual departmental/ institutional workforce.
- Require active participation of the institute.

Harms or concerns

- Quota calculation may become complicated and can be manipulated.
- Perpetuation of small numbers due to small entry numbers.
- May lead to promotion/hiring of less qualified individuals.
- Stigma for those hired under a quota system.
- Stigma for institutions hiring under a quota system.

Open questions

• Should there be a time window in which the quota is reached?

2. Quotas for the composition of evaluation committees

Critical mass

• 30%?

Effect of more women on committees?

- Data are unclear:
 - ERC: no correlation (Vernos, 2013)
 - Italy: inverse relation (Bagues et al, 2014)
 - Spain: correlation only for full professor positions (Zinovyeva and Bagues, 2011)

Existing quotas for review committees and oversight bodies

- Finland, Gender Equality Act: 40%
- Norway, Gender Equality Act: 40%
- Spain, Law on Science, Technology and Innovation: 50%
- European Commission, Horizon 2020: 40% on advisory structures
- EMBO: 30%
- The Swedish Research Council: 30%

2. Quotas for the composition of evaluation committees

Benefits

- Reduce isolation and tokenism.
- Broaden the points of view in discussions.

Harms or concerns

• Cause work overload for the few women who qualify for committee work, thereby limiting their scientific output.

Unknowns

- What is the "critical mass" that represents women effectively?
- What is the effect of the presence of women in a committee?

3. Equal success rate for research funding

Is there a lower success rate for women when applying for research funding?

YES:

- BBSRC: women 3-5% less successful, 2009-2012
- EMBO: women had 20% lower success rate, 1998-2008
- ERC: women have 16% lower success rate, 2007 2013

NO:

- Wellcome Trust, 2007
- Wellcome Trust and UK Research Councils, 2000
- DFG, 2008
- EC (27 members states), 2009

3. Equal success rate for research funding

Benefits

- Systemic biases would be excluded.
- The applicant pool would be fairly reflected, full inclusion is ensured.
- Equal success rate might encourage a higher rate of applications by the underrepresented group.

Harms or concerns

- Possibly less qualified applicants may get funded.
- Other minorities may demand quotas as well.
- May be viewed as an unfounded measure, since systemic biases have not been demonstrated in all funding schemes.

Open questions

• Should there be a time window in which the quota is reached?

Governments

Universities or institutes

Funders

Governments

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Funders

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Universities or institutes

Funders

Conclusions

Benefits:

Quotas can make change happen (fast)

Harms and drawbacks:

- Stigma for individuals hired or selected through a quota process
- Concern expressed by the academic community
- Quotas will not be sufficient to address all issues effecting gender balance

Issues not addressed by quota

- Precipitous drop of women after post doc: women do not apply for professorial positions.
- Women do not choose the more technical subjects.





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www.embo.org/science-policy

Thank you for your attention!



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Working group members and interviewees

Scientists

- Johanna Ivaska, Fl
- Cornelia Ulrich, DE
- Detlef Weigel, DE
- Curt Rice, NO
- Monica Gotta,
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Decisions makers in academia

- Ricarda Opitz, DE
- Ulrike Beisiegel, DE
- Eleanor Campbell, UK
- Iain Mattaj, DE
- Maria Leptin,
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Government

- Petra Schott,EC
- •Sarah Dickinson, UK
- •Ines Sanchez de Madariaga, ES

Researchers on gender issues

- Sarah Childs, UK
- Sara de la Rica, ES
- Nina Steinweg, DE
- Mari Teigen,
 NO
- Linda Senden,
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- Marc Gärtner,
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Funders

- Ulrike Eickhoff, DFG, DE
- Jackie Hunter, BBSRC, UK
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- Anna Lönnroth, ERC, SE
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Decision makers in industry

Thomas
 Sattelberger, DE

Quotas for hiring at the highest academic career levels

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