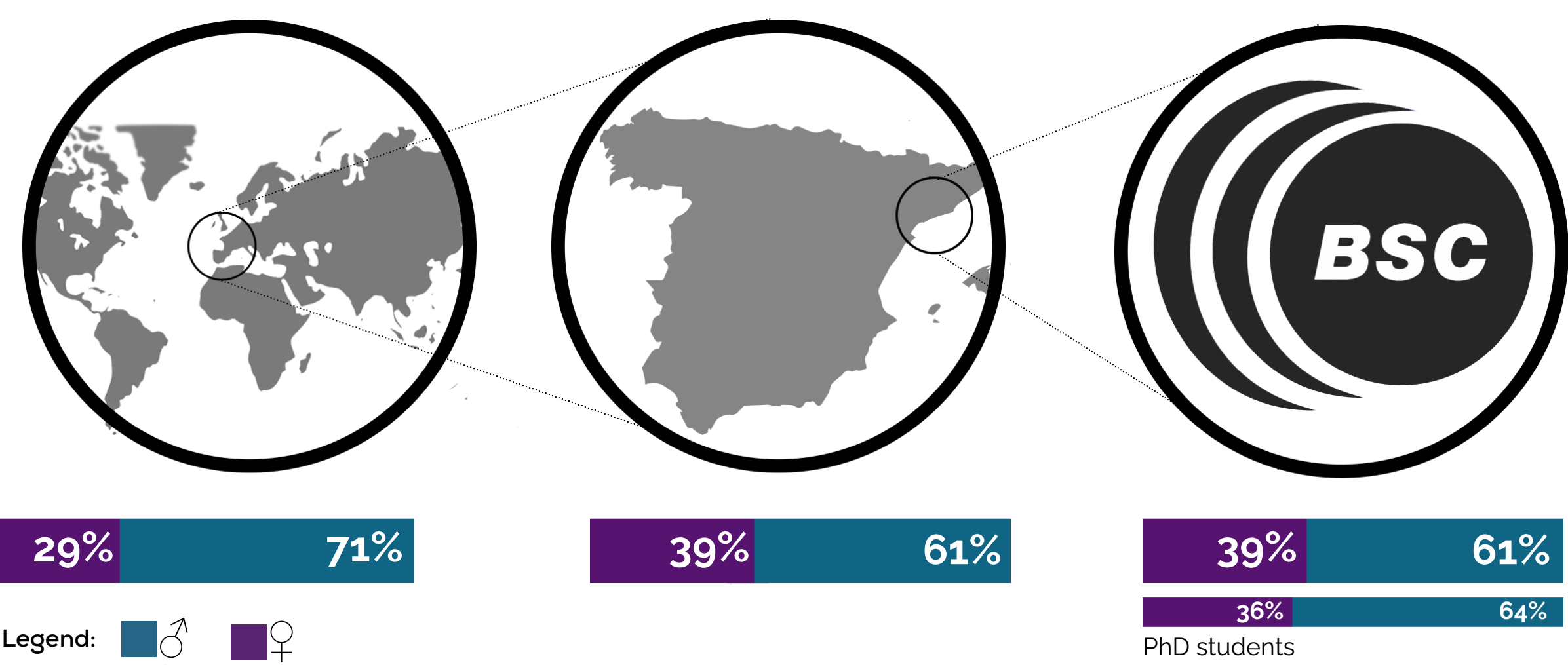


## Supporting women bioinformaticians and computational biologists

### Gender imbalance at different scales



### MISSION AND VISION – What are the main goals of bioinfo4women?

- 1 Promote recognition of achievements
- 2 Support transition from senior *postdocs* to junior *PIs*
- 3 Raise awareness and promote research in gender bias within computational biology
- 4 Increase participation and leadership by promoting exchange of knowledge
- 5 Establish networks of researchers and institutions

Rooted in these objectives, the 5 different working groups that constitute bioinfo4women were formed



### Internationalization & networking

Establishing an international network of women in bioinformatics and computational biology. Organizing and funding one-month BSC visits for outstanding researchers to give seminars and carry out training activities. Also fostering collaboration among women scientists through the coordination of conferences (e.g. AdvCompBio or ECCB).



Networking with Organizations

ECCB 2022

ISCB COSI Membership

Regional Groups

BSC Annual Meeting

5 working groups of kw

Mentoring

Fellows

### Support women's scientific career

Helping overcome the *crystal ceiling* that is prevalent in such cases as the transition from *postdocs* to Junior *PIs*; Encouraging networking amongst exemplary women researchers through seminars, conferences, mentorships or specific collaborations.

Training plan

- PhD training program at BSC with gender dimension
- Review BSC soft skills training courses from gender-sensitive standpoint
- Specific b4w training
- Job description writing training from non-biased perspective

Mentoring programme

- bioinfo4women mentoring programme with BSC HR
- Build international network of bioinfo4women-related mentors and mentees



### Strategy, Organization and Financial Engagement

Managing the day-to-day financial aspects of the bioinfo4women programme, implementing actions that have been approved, but also providing optimal strategic decisions.

Legend:

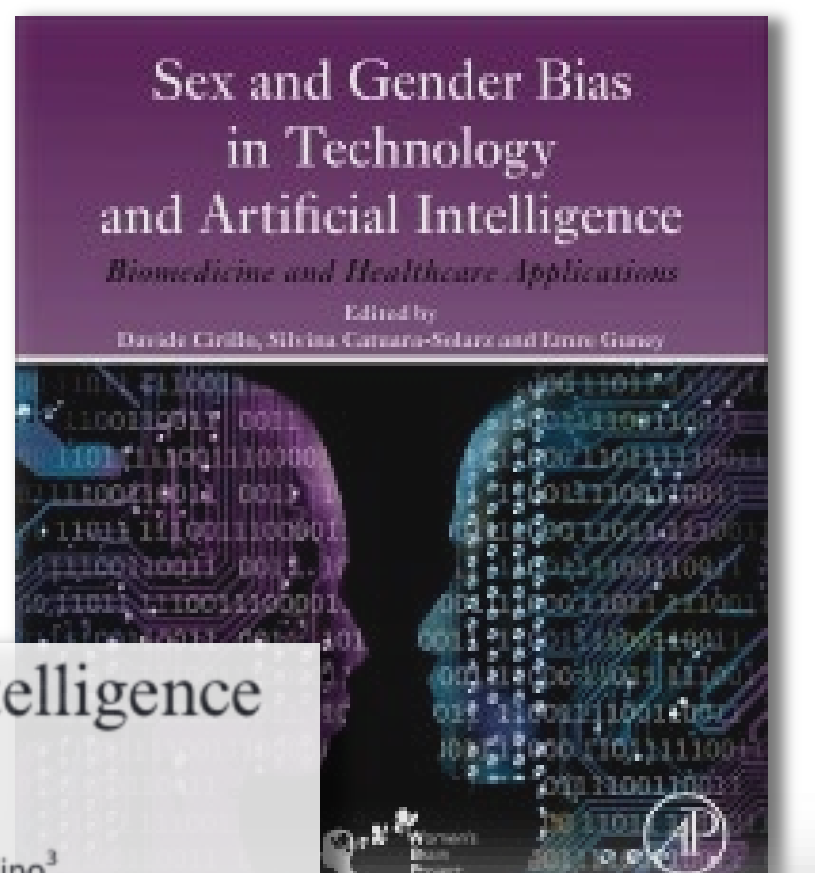
Task not accomplished yet

Task that has been accomplished

\*This applies to all 5 different working groups

### Sex and gender differences and biases in artificial intelligence for biomedicine and healthcare

Davide Cirillo<sup>1,10,11</sup>, Silvina Caturana-Solarz<sup>2,3,10</sup>, Czeze Morey<sup>4</sup>, Emre Guney<sup>5</sup>, Laia Subirats<sup>6,7</sup>, Simona Mellino<sup>8</sup>, Annalisa Gigante<sup>9</sup>, Alfonso Valencia<sup>1,8</sup>, Maria José Rementería<sup>1</sup>, Antonella Santucci Chadha<sup>3</sup> and Nikolaos Mavridis<sup>9</sup>



### Artificial Intelligence-Aided Precision Medicine for COVID-19: Strategic Areas of Research and Development

Enrico Santus<sup>1,2</sup>; Nicola Marino<sup>2,3</sup>; Davide Cirillo<sup>2,4</sup>; Emanuele Chersoni<sup>5</sup>; Arnau Montagud<sup>4</sup>; Antonella Santucci Chadha<sup>2,6</sup>; Alfonso Valencia<sup>4,7</sup>; Kevin Hughes<sup>8</sup>; Charlotta Lindvall<sup>9,10</sup>

Personalised medicine & Transgender

Conference on Sex and Gender Biases Health & AI (Palau Macaya)

Scientific publications Q1

ELIXIR BioHackathon Europe 2021

Tackling gender, race and other biases in AI

Research Line

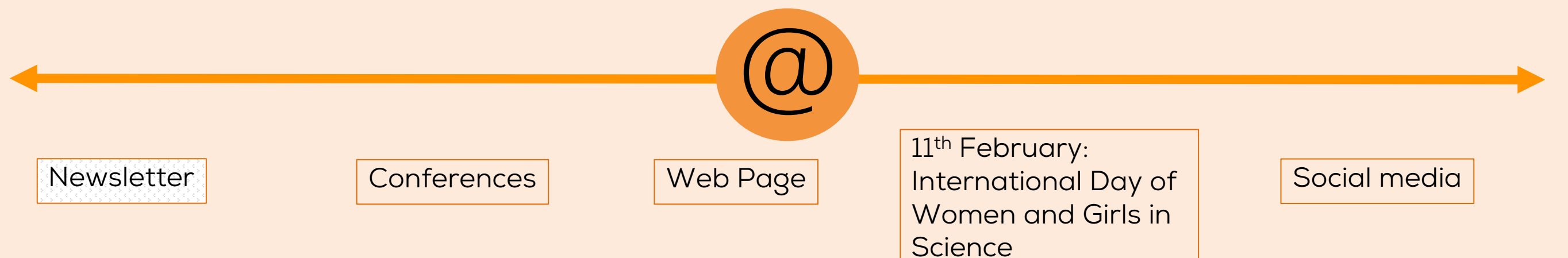
### Artificial intelligence in cancer research: learning at different levels of data granularity

Davide Cirillo<sup>1</sup>, Iker Núñez-Carpintero<sup>1</sup> and Alfonso Valencia<sup>1,2</sup>

1 Barcelona Supercomputing Center (BSC), Barcelona, Spain  
2 ICREA, Barcelona, Spain

### Communication

Bridging all the activities carried within the different b4w working groups and the general public by disseminating relevant information: Seminars and conferences taking place, new and notable publications or even gender-related stories that can make a change. With this, new exciting collaborations can appear.



STATISTICS (As of Sept. 2021)

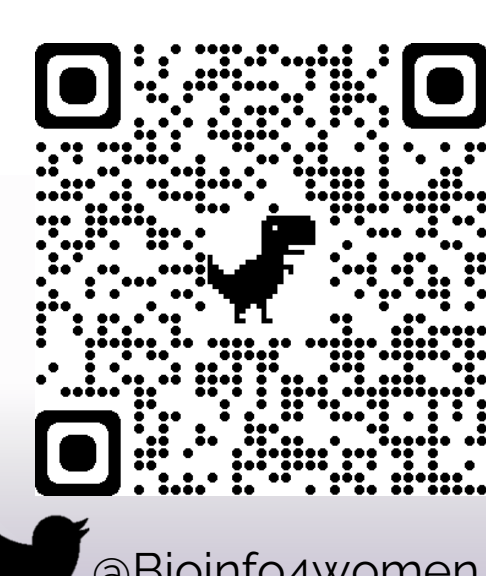
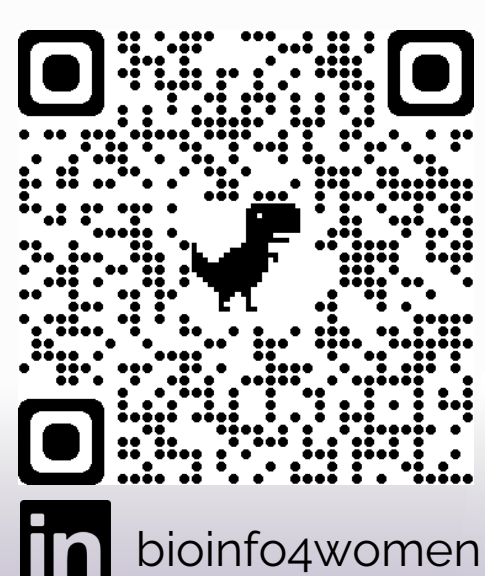
318 followers  
19.371 impressions (1 year)  
6,29% average engagement rate (1 year)



1981 followers  
128.7k impressions  
1400 impressions/day



Reach out to bioinfo4women!



bioinfo4women

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bioinfo4women.bsc.es