

1 **Title:** Women in Science: A Student Workshop at a University in Mexico

2  
3 **Article type:** Experience

4  
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40 interest are women's health and the integration of gender perspective in Medicine.

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2 **Acknowledgment:** We thank Dr. Sonia Hernández-Díaz MD (Harvard School of Public Health) for her time  
3 and counseling sharing her experience on research and Medicine. We are grateful with the scientists Dr.  
4 Suetonia Palmer MD (University of Otago); Marleen Kunneman MD (Mayo Clinic); Nataly R. Espinoza-Suárez  
5 MD (Laval University); Angela M. Leung MD (University of California, Los Angeles); Dr. Marion Brunck  
6 (University of Queensland); Dr. Eva M. Trujillo-Chi Vacuán MD (Comenzar de Nuevo A.C.); Rosella Soriano-  
7 González MSc (Comenzar de Nuevo A.C.); Narjust Duma MD (Harvard Medical School); Andrea García MD  
8 (Mayo Clinic); Spyridoula Maraka MD (Arkansas University); Dr. Monica Siqueiros MD (Stanford University);  
9 and Helen O'Connell MD (University of Melbourne) for providing advice and words of encouragement. We also  
10 thank Miguel Zambrano-Lucio for proofreading our manuscript. Finally, we sincerely thank all our participants  
11 for joining this seminar and for their disposition to make a change in science.

12  
13 **Financing:** None.

14 **Conflict of interest statement by authors:** None.

15 **Compliance with ethical standards:** This experience does not involve ethical conflicts.

16  
17 **Authors Contribution Statement:** Conceptualization, D.C.G.C., S.J.M., P.C.L.C., A.F.R., K.R.C., and M.G.L.;  
18 Methodology, D.C.G.C., S.J.M., P.C.L.C., A.F.R., K.R.C., and M.G.L.; Investigation, D.C.G.C., S.J.M., P.C.L.C.,  
19 I.J.D.R., A.F.R., K.R.C., and M.G.L.; Writing – Original Draft, D.C.G.C., S.J.M., P.C.L.C., I.J.D.R., A.F.R.,  
20 K.R.C., and M.G.L.; Writing – Review & Editing, D.C.G.C., S.J.M., P.C.L.C., and A.F.R.; Resources, A.F.R.,  
21 K.R.C., and M.G.L.; Supervision, A.F.R., K.R.C., and M.G.L.

22  
23 **Manuscript word count:** 1567

24 **Abstract word count:** 122

25 **Number of Figures and Tables:** 3

26  
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30  
31 **Discussion Points:**

- 32 • Science is for everyone. Conscious consideration of inclusivity is critical to creating an  
33 equitable workplace.
- 34 • Support networks of women in science promote a sense of community and empowerment.
- 35 • Historically, gender bias has limited academic opportunities for women as compared to men.
- 36 • Creating professional development and leadership programs for women may help reduce  
37 the gender gap in science.

1 **Dates**

2 Submission: 03/10/2022

3 Revisions: 04/19/2022, 08/18/2022

4 Responses: 10/18/2022

5 Acceptance: 11/25/2022

6 Publication: 12/02/2022

7

8 **Editors**

9 Associate Editor/Editor: Francisco J. Bonilla-Escobar

10 Student Editors: Johnmark Boachie, Joseph Tonge

11 Copyeditor: L V Simhachalam Kutikuppala

12 Proofreader:

13 Layout Editor:

14

15 **Publisher's Disclosure:** *This is a PDF file of an unedited manuscript that has been accepted for publication.*  
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17 *will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final citable*  
18 *form. Please note that during the production process errors may be discovered which could affect the content,*  
19 *and all legal disclaimers that apply to the journal pertain.*

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1 **ABSTRACT.**

2

3 Women have participated in science since the earliest of times. However, their valuable contributions are not  
4 as widely acknowledged throughout our history and women still face several barriers throughout their  
5 professional career. We developed and hosted a mid-day Women in Science seminar by students and for  
6 students. The main goal was to promote ways to involve more women students in research activities and to  
7 strengthen the scientific community within our medical school. The workshop consisted of three main sections  
8 where we shared relevant statistics, resources, and strategies among a community of students interested in  
9 science. At the end of the workshop, participants shared their insights proving the necessity and utility of this  
10 type of events to strengthen science as an inclusive field.

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13 **Key Words:** Gender; Bias; Women; Science; Medicine; STEM.

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Accepted, in-press

## 1 THE EXPERIENCE

2

3 Gender bias is an “unfair difference in the way men and women are treated.”<sup>1</sup> This phenomenon has  
4 many different presentations and extends to work environments where men are considered over  
5 women for scientific tasks.<sup>2-4</sup>

6 Gender bias affects women in hiring decisions, perceptions of the quality of their work, research  
7 publications, peer-review processes, citation patterns, and leadership positions, among others.<sup>5-9</sup>

8 Barriers such as gender wage gaps, sexual harassment, and maternity and paternity policies often  
9 prevent women from growing in their professional careers, particularly in science.<sup>10-14</sup> Studies have  
10 shown that gender bias begins early in education and has deleterious effects throughout many  
11 aspects of academia<sup>15</sup>. It affects grading, mentoring, and letters of recommendation, which could  
12 certainly affect the progress of women in science.<sup>16, 17</sup>

13 Addressing this issue is key to pursuing gender equality in science, a problem that women have fought  
14 so hard to overcome. Thus, we designed, developed, and hosted a mid-day research-focused  
15 workshop to highlight the gender gaps in science, and to provide information on research  
16 opportunities available for medical and clinical biochemistry students. This workshop aimed to achieve  
17 the following:

- 18 • Provide information about ways to get involved in research as medical and clinical  
19 biochemistry students.
- 20 • Instill confidence in students by providing examples of women with research experience
- 21 • Foster a sense of community in our school among women in research
- 22 • Motivate and inspire women to pursue their scientific abilities
- 23 • Increase women’s participation in research activities at our university

24

## 25 IMPLEMENTATION OF THE WORKSHOP

26 The workshop was a hybrid event where students were invited to attend in person or online. Although  
27 the invitation was open to everyone regardless of gender, all of the 50 participants identified  
28 themselves as women. The workshop was divided into the three following phases:

29

### 30 *Phase one: History of women in science*

31 The first speaker was a fifth-year medical student from our university with previous research  
32 experience. Her session started with an implicit association exercise to assess unconscious bias in  
33 the audience. She continued with a talk entitled “Women in Medical Sciences Throughout Time” This  
34 talk presented women who have made essential contributions in the field of medical sciences. It  
35 included characters such as Agnodice, an important figure of Ancient Greece,<sup>18</sup> and the first woman  
36 to be acknowledged as a gynecologist; Doctor Alice Hamilton, first woman to become a faculty  
37 member of Harvard University;<sup>19</sup> and Nobel Prize winners Doctors Emmanuelle Charpentier, Jennifer

1 Doudna, and Rita Levi-Montalcini among other scientists and doctors.<sup>20</sup> The purpose of this  
2 introduction was to show how women have been actively participating in medicine from ancient times  
3 to the present and that their contributions have had a part in global and human development.

#### 4 5 *Phase two: Current State of Affairs*

6 The second speaker was a first-year clinical biochemistry student from our institution with previous  
7 research experience. The speaker focused on the National System of Researchers or SNI, a  
8 government-led program established in Mexico, in which scientific researchers across the country  
9 subscribe to receive funding for their projects and apply for academic positions. According to data  
10 provided by SNI, only 37.2% of Ph.D. researchers are women.<sup>21</sup> Afterwards, the speaker described  
11 some of the structural barriers that could explain the disparity between men and women in  
12 professional settings; such as the theory of the “glass ceiling and the sticky floor”, which addresses  
13 the challenges women face for being promoted in science, technology, engineering, and math (STEM)  
14 careers, as well as the increasing difficulty for securing a grant in research.<sup>22-25</sup> At the end of this  
15 presentation, we conducted an activity in which the audience was encouraged to write down thoughts  
16 and ideas to improve women’s situation in science in the present and near future (**Figure 1**).

#### 17 18 *Phase three: Leadership and empowerment seminar*

19 The third speaker was a fourth-year medical student from our institution with previous research  
20 experience on the field of Psychiatry. The talk focused on empowering and instilling confidence in  
21 leaders, promoting empathetic and respectful communication, and suggesting ways to establish  
22 boundaries at the workplace. We continued with a pre-recorded interview with Sonia Hernández-Díaz,  
23 MD, PhD, professor at Harvard T.H Chan School of Public Health. Her main area of research is  
24 Pharmacoepidemiology of Women’s Health. She spoke about the difficulties she faced in academia  
25 and shared insights on how she found her passion. We also displayed a video of women researchers  
26 around the world giving advice to inspire young students who are interested in research.

27  
28 We ended the workshop with a question-and-answer panel in which the participants and the  
29 presenters could share their doubts and experiences. Participants bounced ideas off one and  
30 another, and shared advice based on personal experiences and on how they found research  
31 opportunities within our university (**Figure 2**). Some of the attendees were already involved in  
32 research activities, therefore their input was of great importance to younger students who did not  
33 know where to begin.

#### 34 35 **RECOMMENDATIONS AND LESSONS LEARNED**

36 This workshop accomplished its objective of motivating women to pursue and embrace science as a  
37 career. The participants were asked about their opinions and feelings regarding the workshop, they

1 described it as an inspiring, deep, and informative experience. Here we propose specific actions to  
2 continue to address gender issues in science:

- 3  
4 • *Raise awareness, create, and participate in inclusive events*

5 The extended discussion following the presentations offered different ideas and possibilities for future  
6 projects. We extend the invitation to institutions to carry out and implement workshops that promote  
7 the inclusion of minorities and educate the majority. We hope these activities continue to generate  
8 interest in students and help everyone consider ways to move forward in an inclusive manner in  
9 today's science world.

- 10  
11 • *Increase women representation in science and promote gender-neutral mentoring*

12 According to the United Nations Educational, Scientific, and Cultural Organization (UNESCO), less  
13 than 30% of researchers worldwide are women.<sup>26</sup> We consider increasing women in high leadership  
14 positions leads to fairer decision-making and contributes to motivate more women to get involved in  
15 these areas. To achieve this, we must first recognize the women who have participated in science  
16 through the centuries and acknowledge their contributions; illustrating more women in books, scientific  
17 media, and even television communicates diversity and raises awareness in young girls on their  
18 importance for scientific development. As for current research, we support the concept of gender-  
19 neutral mentoring to help account for barriers such as gender bias on grants and scholarships for the  
20 funding of research projects led by women.

- 21  
22 • *Share and learn from each other*

23 We suggest women medical students look for support in other women leaders they look up to including  
24 older students, research trainees, professors, specialists, and researchers. We recognize it is possible  
25 to reach better ideas brainstorming as a group, discussing, and proposing solutions. Forming support  
26 networks of women, incorporating inclusive language in science, and promoting a sense of community  
27 that empowers women are actions that contribute to make a change (**Figure 3**).

- 28  
29 • *A job for everyone*

30 This is not only a job for women, but a job for *everyone*. We must all be conscious, inclusive, and  
31 account for everyone's needs to bring equity into the workplace and achieve better results that in the  
32 aggregate benefit everyone.

## 33 34 **CONCLUSION**

35 Is it hard to be a researcher? Undoubtedly yes. Should we try despite the difficulties we are supposed  
36 to overcome? Definitely. This workshop made us reflect that although we have made a lot of progress  
37 over the past few years, we still have a long way to go to close the gender gap in science. The impact

1 of the event on the women of our institution proves the efficacy and the need for this type of  
2 intervention to improve the development of women in science.

3

#### 4 **PARTICIPANT EXPERIENCES AND PERSPECTIVES**

5 "This workshop was a genuine experience. It was a space created by women for other women,  
6 which made me reflect upon the value and importance of us women helping each other, highlighting  
7 our skills, and reminding us that instead of competing, we can be allies. Without doubt I could say  
8 that more than one of us went home wishing to become a woman in science." Claudia Ramírez  
9 Mata, first-year Clinical Biochemistry student.

10

11 "Going to the workshop was enriching. I felt comfortable and safe, it was a very empowering  
12 environment. I loved that the speakers encouraged us to participate and even share our own  
13 experiences. It made me realize that there are many paths to follow in the world of science. They  
14 gave us advice to start doing research, and most importantly, they made us feel connected with  
15 other women as there is still work to do to achieve equality and lay a foundation for future events."  
16 Lourdes Gil Flores, fourth-year Medical student.

17

18 "Women in science was a delightful event, full of emotions, knowledge and women empowerment. At  
19 the beginning it was quite frightening to listen to data about discrimination against women and gender  
20 inequality in professional life. But as soon as the event went on, there were suggestions of what we  
21 can do to be part of the change, sharing of testimonies, and support from the whole auditorium. By  
22 the end of the event I was sure that our generation can make a change, that there are people willing  
23 to help and redirect to the correct areas to seek change, and that with small actions we can start to  
24 eliminate the injustices that exist nowadays. Honestly it was an event that I wish everyone, not just  
25 women, would attend." Daniela Ortega Mata, sixth-year Medical student.

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1 **SUMMARY - ACCELERATING TRANSLATION**

2

3 **Mujeres y ciencia: el horizonte en investigación**

4

5 Las mujeres han participado en la ciencia desde el inicio de los tiempos. Sin embargo, sus logros no son tan  
6 vastamente reconocidos dentro de la historia. Actualmente, las mujeres enfrentan barreras asociadas al género  
7 cuando se trata de avanzar en su carrera profesional. Debido a esto, decidimos crear un espacio dirigido a  
8 estudiantes para hablar de la historia de la mujer en la ciencia y difundir estrategias para fortalecer la comunidad  
9 de mujeres en investigación. Durante este taller se compartieron estadísticas, experiencias personales y  
10 consejos sobre la trayectoria de distintas mujeres que se desarrollan en campos científicos alrededor del  
11 mundo. Al finalizar el taller, la retroalimentación de las participantes puso en evidencia la utilidad y necesidad  
12 de este tipo de espacios para motivar y enriquecer la comunidad científica de mujeres.

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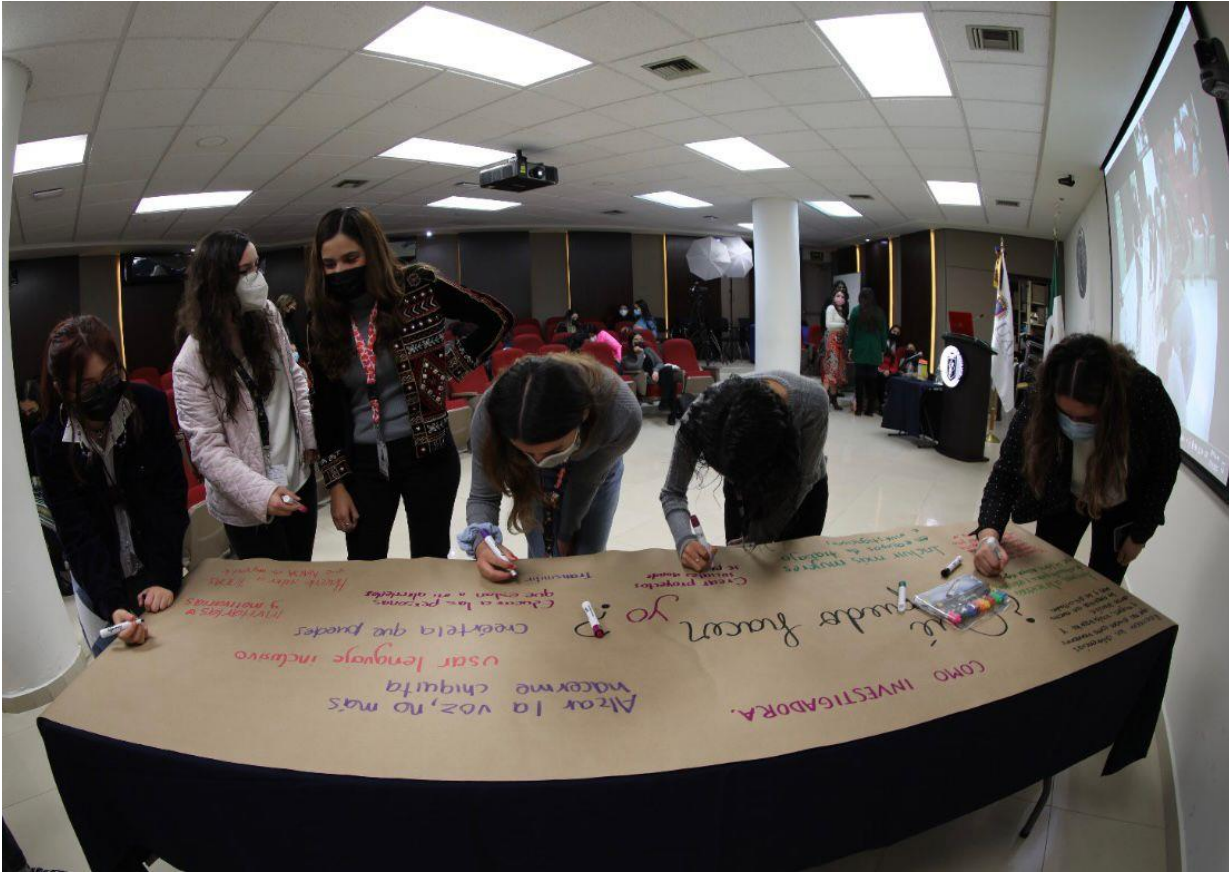
Accepted, in-progress

1 **FIGURES AND TABLES.**

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3 **Figure 1.** Audience Participation Proposing Ways to Address Gender Bias at the University.

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1 **Figure 2.** Round Table  
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1 **Figure 3: The Seminar**

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