

The 3rd Annual

Expanding Undergraduate Success in STEM Conference



1992
BSP begins

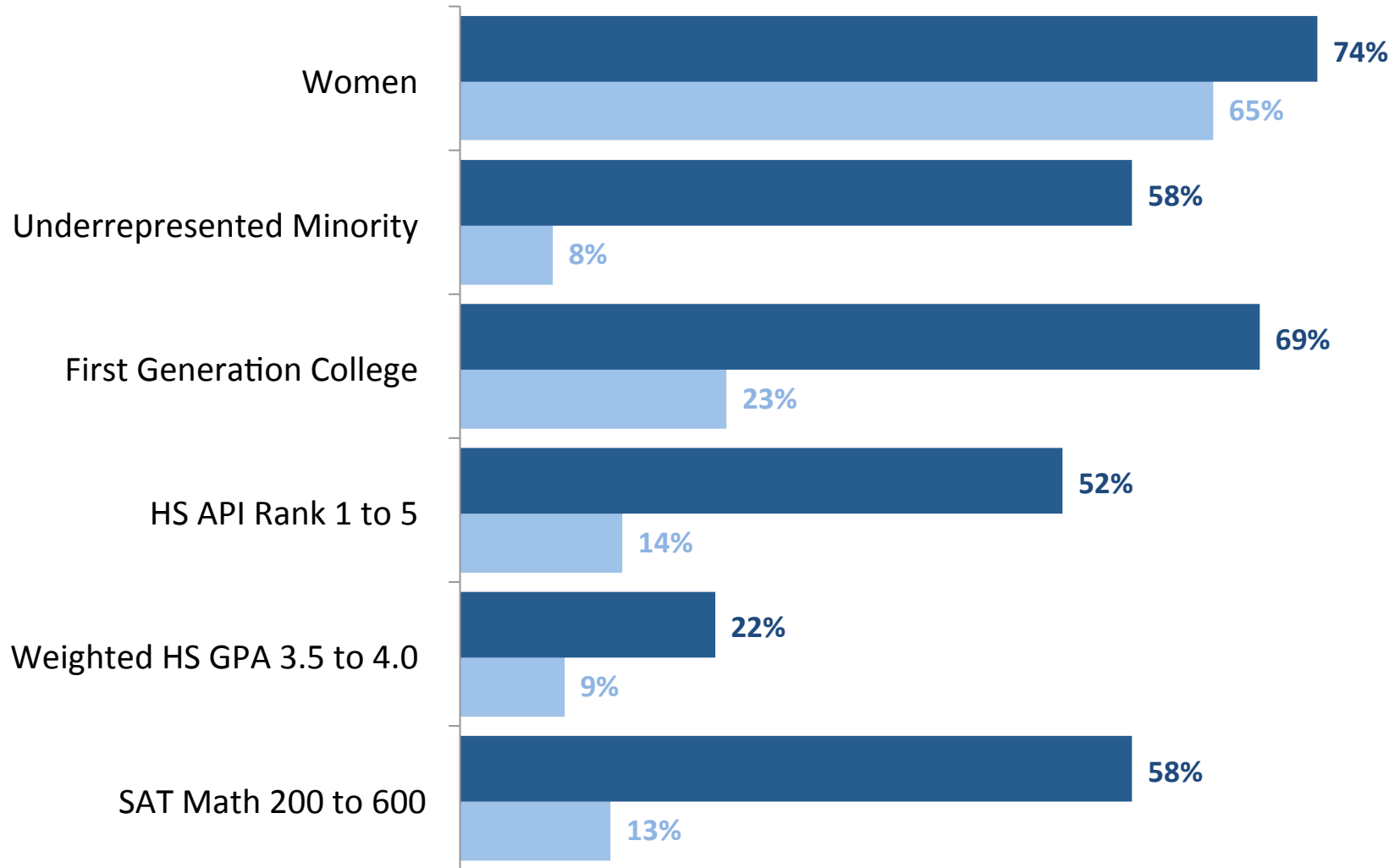


The Biology Scholars Program (BSP)

<u>Funding</u>	HHMI, NIH, Moore Foundation, California Wellness Foundation, and UC Berkeley
<u>Goal</u>	To <i>enlarge</i> and <i>diversify</i> the pool of students who succeed in biology majors and careers
<u>Members</u>	3500 UCB undergraduates (1992-present) 3200 graduates; ~ 60% minority 70% women 80% low income/1 st generation; most interested in health careers
<u>Success</u>	BSP Minority vs. Non-BSP Majority <ul style="list-style-type: none">• <u>Enter UCB</u> with lower SATs and GPAs• <u>Graduate</u> in biology majors in ~ same % and with nearly equivalent GPAs

BSP Demographics

BSP Participants **All Intended Biology Majors Entering as Freshmen**



*Note: 2002-2008 entering freshmen cohorts, intended biological and biomedical sciences majors
Andrew Eppig, UCB E&I*

Origin of this conference?

2014 Awarded HHMI Grant

1. Continue Biology Scholars Program (BSP)
2. Research Why and How BSP 'Works'
3. Disseminate 'Best Practices' at Berkeley

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Shift from
Localized Responsibility

A Program/Office/Position

'Few of Us'

To

Distributed Responsibility

The Institution

'All of Us'

Who's Here?

Participant Affiliations

- American Association of Colleges & Universities
- Berkeley Community Fund
- Berkeley Connect Program
- Bioengineering
- Biosciences Division
- Career Center
- Center for Education, Equity & Excellence
- Center for Educational Partnerships
- Center for Teaching & Learning
- College of Chemistry
- College of Engineering
- College of Natural Resources
- Environmental Science & Policy Management
- Helen Wills Neuroscience Institute
- Incentive Awards Program
- Integrative Biology
- Interdisciplinary Studies
- Jepson Herbarium
- Joint Medical Program
- Lawrence Hall of Science

Participant Affiliations

- Library Administration
- Mathematics
- Math & Physical Sciences Centers & Programs
- Molecular and Cell Biology
- Museum of Paleontology
- Office of Equity and Inclusion
- Physics
- Plant and Microbial Biology
- Pre-Post Doc Fellowship Program
- Psychology
- QB3 Institute
- School of Education
- School of Optometry
- School of Public Health
- SMASH Academy
- Undergraduate Interdisciplinary Studies Program
- Upward Bound Program
- Other affiliated

Institutional Roles

- Staff (67)
- Faculty (23)
- Grad Students (16)
- Undergrads (8)
- Post-docs (9)
- Program Coordinators
and Directors (9)
- Administrators (5)
- Did not State (5)

Student Population of Interest

- URM (68)
- 1st to College (27)
- Low-income (13)
- Women (10)
- With Disabilities (4)
- Immigrants (2)
- ESL (1)

Today?

AM

Keynote

- Case for Institutional Change

Research Update

- Why BSP Works

Undergrad STEM Experience

- Student Perspective

'BSP Way'

- Terms and Phrases
- How Generalizable, Valuable, Feasible?

PM

Breakout Groups

- Advising, Mentoring, and Teaching
- Critique the Value/Feasibility of 'BSP Way'

Plenary

- Group Report Back
- 'Next Steps'

Keynote

Dr. Kelly Mack

AAC&U

Research

Dr. Mica Estrada

UCSF

BSP Student Panel

Yessenia Hernandez-Cruz

Quijai Johnson

Gabriel Santamaria

Quotes

- ‘I teach science, I don’t teach students.’
Faculty member on teaching
- ‘This is science, leave your culture at the door.’
PI to an African American BSP student entering his lab
- ‘You may like science but science doesn’t like you.’
Staff advisor to a BSPer who received a ‘C’ in Chem 1A and 3A
- ‘If we’d admit the right students there’d be no problem.’
Faculty member on underrepresentation in STEM

‘The BSP Way’

About Diversity

About Diversity

S/he gets 'it.'