

Biggest challenges/ hurdles both in your career and beyond

- A day has only 24 hours!
- Being able to balance work and family.
- Overcoming stereotypes.



The key discovery that made the difference early on

Brief Definitive Report

Toll-like Receptor 9-mediated Recognition of Herpes Simplex Virus-2 by Plasmacytoid Dendritic Cells

Jennifer Lund, ¹ Ayuko Sato, ² Shizuo Akira, ³ Ruslan Medzhitov, ¹ and Akiko Iwasaki ^{1, 2}

Recognition of single-stranded RNA viruses by Toll-like receptor 7

Jennifer M. Lund*†, Lena Alexopoulou*†*, Ayuko Sato⁵, Margaret Karow¹, Niels C. Adams¹, Nicholas W. Gale¹, Akiko Iwasaki*[§]||**, and Richard A. Flavell*||^{††}

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Were there moments of doubt/ facing rejection and how did you overcome these?

- Too many such moments to list!
- Prevent the rejection from becoming personal.
- Take a few days before responding to editors.
- Remember that everyone has similar doubts about themselves.
- Be true to yourself. Seek advice.

What would your advice be to a young scientist starting his or her own adventure or journey today?

- Being a scientist is the best job in the world!
- Find multiple mentors and consult with them often.
- Seek help to obtain invitations to seminars, symposia, and nominations for awards, prizes, and other opportunities.

My outreach efforts

Published: 21 July 2015

Balancing family life with a science career

Akiko Iwasaki ⊠

Nature Immunology 16, 787–790 (2015) Cite this article

World View | Published: 09 April 2020

Antidote to toxic principal investigators

Akiko Iwasaki 🖂

Nature Medicine 26, 457 (2020) Cite this article

40k Accesses | 5 Citations | 640 Altmetric | Metrics

NEUROVIEW | VOLUME 109, ISSUE 19, P3041-3044, OCTOBER 06, 2021

How COVID-19 has transformed my science

Akiko lwasaki 🖇 🖾

Comment | Published: 19 August 2019

Why we need to increase diversity in the immunology research community

Akiko Iwasaki ⊠

Nature Immunology 20, 1085–1088 (2019) Cite this article

8798 Accesses | 6 Citations | 500 Altmetric | Metrics

World View | Published: 20 June 2022

Using social media to promote science

<u>Akiko lwasaki</u> ⊠

Nature Immunology (2022) Cite this article



14.5K posts



Prof. Akiko Iwasaki 💝

@VirusesImmunity

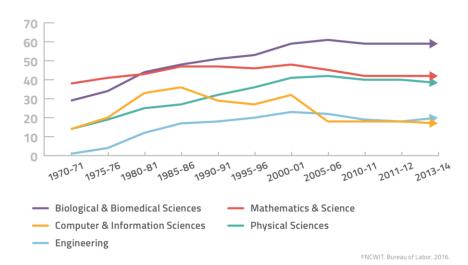
We study antiviral immunity and viral disease pathogenesis. #COVID19 #longCOVID #vaccines @HHMINEWS @YaleIBIO @YaleMed @YaleCII President of @ImmunologyAAI

1,996 Following **221.3K** Followers

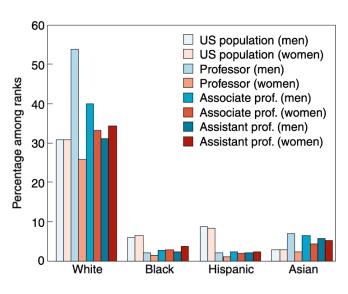
What is the current state of diversity

in academic research?

A Historic Perspective: Percent Women with Undergraduate STEM Degrees



Gender and Racial Disparity in US Academia



Iwasaki, A. Nat Immunol. 2019 Sep;20(9):1085-1088.

Attrition of Women in Academic Career Stages

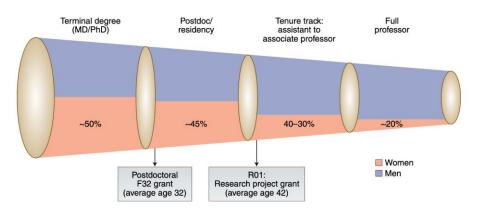
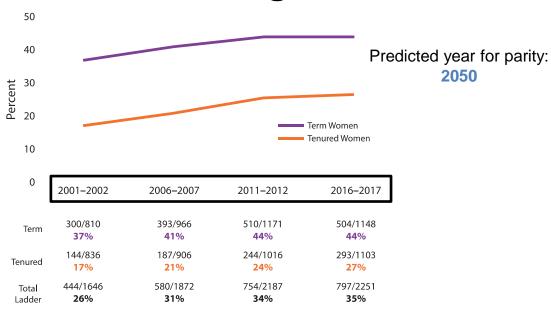


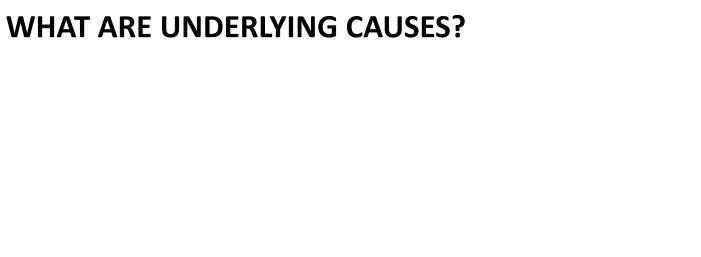
Fig. 2 | **Percentage of women in career stages and typical timing of first F32 and R01.** Figure from Marc J. Lerchenmueller and Olav Sorenson (ref. ¹³).

Iwasaki, A. Nat Immunol. 2019 Sep;20(9):1085-1088.

If we do nothing about it....

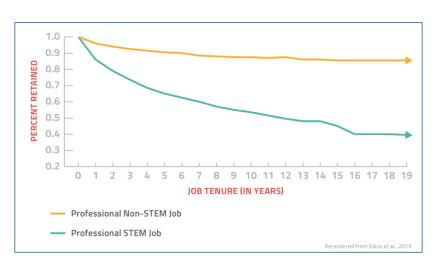


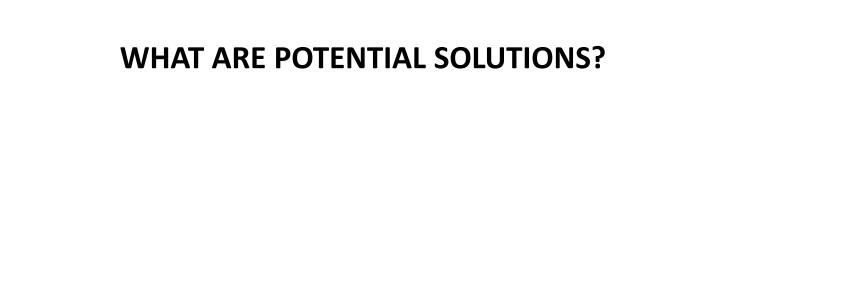
Source: WFF report The View (2017)



Myths

- Myth #1: It's a talent issue
- Myth #2: It's a pipeline issue
- Myth #3: Women go off to have babies





Diversity effort is not enough

Diversity effort must be accompanied by inclusion and equity.



What can we do to achieve gender and race balance?

Infrastructure

- childcare
- couples recruitment, cluster recruitment
- grant panel education
- mind set change in recruitment
- change metric of success

Tactics

- Affirmation: band together preemptively to consciously support other women in discussion
- Networking, identifying and hiring of qualified women and URM
- Realizing this is not a woman/URM problem
- Involving men (#HeforShe)

- Mentoring and role model
- Women/URM in leadership roles could effect change from the top
 - Leadership what should a leader look like? Act like?
- Policy and institutional solutions
- Reflective: not just have programs; change mind-set
 - Acknowledge and tackle biases
- Leadership training and mentoring for women, boards, committees
- Effort starts from one
 - A lot one can do on an individual level