

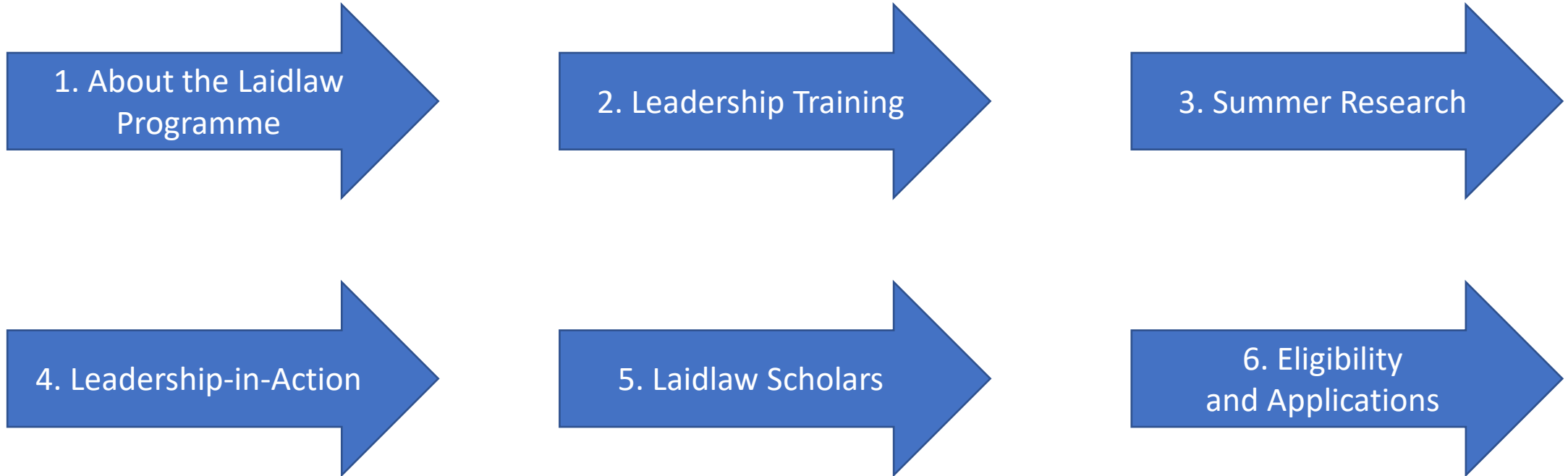


Laidlaw Leadership and Research Programme

at Newnham College, Murray Edwards
College, Fitzwilliam College, and Trinity
Hall at the University of Cambridge

Informational Session | October 25th, 2022

Session Overview



About the Laidlaw Programme

- Started at the University of Leeds and University of St. Andrews in 2014
- Gift of Lord Laidlaw of Rothiemay and the Laidlaw Foundation
 - to four participating Cambridge colleges, administered by Newnham College
- 25 Scholars per year
- 16 member institutions worldwide:

BARNARD



COLUMBIA COLLEGE
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK



EPFL

GEORGETOWN
UNIVERSITY




*The Swiss Federal Institute of Technology Lausanne (EPFL) to join the programme in 2023. Participating colleges at Cambridge are: Newnham College, Murray Edwards College, Trinity Hall, and Fitzwilliam College.



<https://laidlawscholars.network/>






The Laidlaw Leadership and Research Programme aims to develop a new generation of leaders who are skilled researchers, embrace data-based decision making, and believe it is a moral imperative to lead with integrity.



#LaidlawScholars23 @Cambridge!

25th October 2022

A large, stylized, light blue letter 'A' logo is positioned in the background, partially overlapping the text. The logo consists of a thick outline of the letter 'A' with a smaller, solid blue 'A' nested inside it.

The Laidlaw Foundation invests in the education of the underprivileged and underrepresented in order to break the cycle of poverty, reduce inequality and develop a new generation of leaders.



The Laidlaw Manifesto





Transforming Lives Through Inspirational Education

Genetic engineering was used to mutate the DNA sequence encoding lysine's at position 122/123 or 314/315 with glutamate to mimic acetylation.

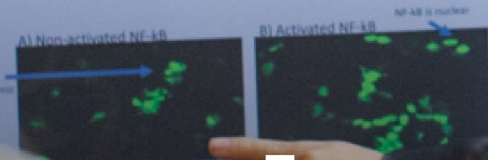


Fig. 3. Wild-type NF-kB-GFP sequence was mutated at amino acid residues 122 and 123 or 314 and 315 from lysine to glutamate to yield K122Q and K314Q. These mutations mimic acetylation and should inhibit the activity of NF-kB. The diagram of K122R/K314R indicates mutations of lysine residues to arginine residues to mimic de-acetylation, which is the next step to be explored within this research.

The mutated gene sequences were ligated into plasmid vectors then transfected into human embryonic kidney (HEK) cells and the location of the NF-kB visualised using fluorescence microscopy.

Results

I first tested that addition of GFP to NF-kB did not inhibit its normal movement to the nucleus when activated. Fig4A shows the fusion protein is present in the cytoplasm and when the NF-kB is activated it is transported into the nucleus, Fig4B. Mutation of the K122/123 to glutamate resulted in NF-kB being expressed in the nucleus (Fig4C) while mutation of K314/315 had no effect (Fig4D). This provides the first evidence that acetylation of NF-kB does influence its cellular localisation.



Developing The Next Generation Of Leaders



Fuelling Women In Leadership

Lauren
Whehead '20

Whehead '20

TURBOCHARGING GOOD BUSINESSES

We invest in businesses founded and led by Laidlaw Scholars – NextGen leaders we know to be ambitious, brave, curious, determined, extraordinary, fast and good.

[FUND YOUR BUSINESS](#)



**CHANGE
MAKER**
NOT CHANGE TALKER

734m live < \$1.90 a day

50m children in war zones

9% female Fortune 500 CEOs

Poorest 50% own just 1%

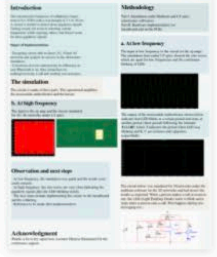
750m illiterate adults

**8m air pollution
deaths**

6 Black Fortune 500 CEOs

Poster

Engineering



STEM
Part I: Simulation/ Cell phone detecting system

 Inkindi Mutoni Sabine
Mar 25, 2021

Literature Review

Physics



STEM
The localisation transition in the sub-Ohmic spin-...

 Riccardo Bonzano
Mar 03, 2021

Report

Arts

History



ARTS & HUMANITIES
Report: Integrated Imaging on Collections From UCL...

 SUN JIERAN
Mar 01, 2021

Poster

History

Technology



ARTS & HUMANITIES
Poster: Integrated Imaging on Collections From UCL...

 SUN JIERAN
Mar 01, 2021

Technology



STEM, STEM
Discussion post II: IoT today, Are we ready?

 Inkindi Mutoni Sabine
Feb 22, 2021

Blog

Pharmacy

Technology



MEDICINE & HEALTH, STEM, MEDICINE...
What future holds for 3D-printed Drugs

 SUN JIERAN
Feb 17, 2021

Blog

Literature Review

Web Article

Biotechnology



MEDICINE & HEALTH, STEM, MEDICINE...
Clinical Robotics: Where are we now?

 SUN JIERAN
Jan 23, 2021

Members Only

Presentation

Biotechnology

Engineering

Gene Circuits for Cancer Immunotherapy
Nissim et al., 2017

Presentation by Brandon Yu | 15 January 2021

MEDICINE & HEALTH, STEM, MEDICINE...
Journal Club #1 (Immunocircuits by...

 Brandon Yu
Jan 17, 2021



SCHOLARS' STORIES

Asking For Help Is a Greater Challenge Than Any Ultramarathon



Paul Burgum
Nov 18, 2019

1 Asking For Help Is a Greater Challenge Than Any Ultramarathon

2 Perspectives 02 - Of Threats, Dances and Deeds

3 #LaidlawUCL19 Showcase

4 5 Traits of Mentors



Hello, Nikol Chen

[Edit Your Profile >](#)

Grow your network today

Share expertise; make new connections



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VIDEO



DOCUMENT



VIDEO PANEL



QUESTION



COLLABORATE

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Invite

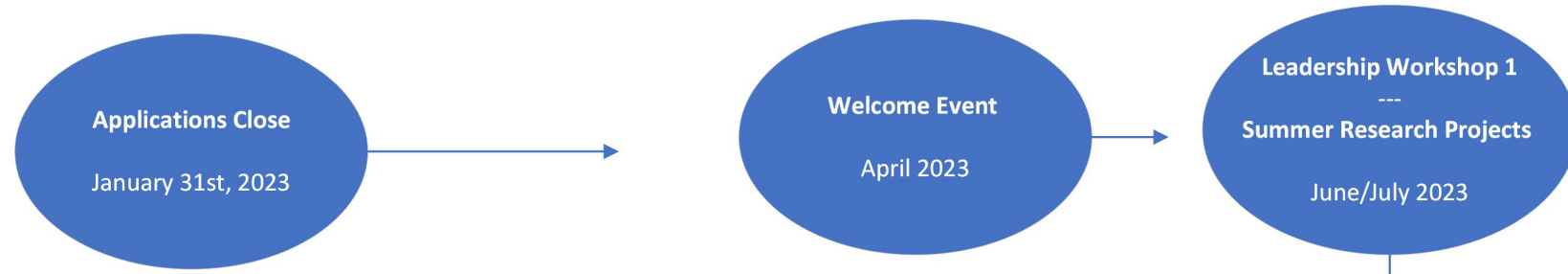
Join 1000+ Change Makers







Year One



Year Two





Leadership Training

Key Questions:

What does leadership mean to you?

What can leadership look like in different contexts?

Outcomes:

Engage in practical leadership activities.
Reflect on your experiences.

Gain deeper self-knowledge. Find your leadership style.

Grow your network and become part of a leadership community.

Create connections between leadership and academics (research).



Summer One: Research Project

- 6 weeks in the 2023 long vacation
 - 2023 dates are June 17-July29; in Cambridge
- Student designed; student led
 - It's your project – follow your curiosity and your passion
 - A chance to be creative, be innovative, be interdisciplinary, push at the bounds of your field
 - Publication and/or presentation of your research in other venues is allowed, encouraged
- Work with a Cambridge-based academic
- £3000 stipend to cover your room and board, research expenses, etc.
- All subjects and academic disciplines are welcome!



Nervous about approaching a Research Supervisor for the Laidlaw Programme? We can help.

**Approaching Academics with Dr. Sam Lucy
October 31st, 2022
4:30pm**

Registration is required. Book your place here:



Summer Two: Leadership in Action

Leadership Expedition

- Work with a Laidlaw partner organisation
- Scholars are part of a Laidlaw Scholars group with students from other participating universities

Leadership Project

- Work with an NGO or Not-for-Profit
- Scholars work independently to create their own project in line with the needs and mission of their chosen organisation

Research Implementation

- In-field application of the Scholar's research project
- Put the findings of the Summer One project into action with the aim of creating positive change in society

Summer Two: Leadership in Action

Leadership Expedition

- Work with a Laidlaw partner organisation
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make_sense

 **MAGGIE'S**
Everyone's home of cancer care

Tortoise


**think
pacific**

**ite
ack**
2030

**The
Kasiisi
project**



TSN
TIMOTHY SMITH NETWORK

Summer Two: Leadership in Action

Leadership Expedition

- Work with a Laidlaw partner organisation
- Scholars are part of a Laidlaw Scholars group with students from other participating universities

Leadership Project

- Work with an NGO or Not-for-Profit organisation
- Scholars work to create their own, self-led project in line with the needs and mission of their chosen organisation

Research Implementation

- In-field application of the Scholar's research project
- Put the findings of the Summer One project into action with the aim of creating positive change in society



Summer Two: Leadership in Action

Project Criteria:

- Has an overseas component;
- In a new and challenging environment;
- Working with communities in need;
- Doing something that makes the world a better place;
- Develops and demonstrates your leadership skills and attributes.

Rewards

- Personal Rewards
 - Build skills and confidence; become a next-gen leader
 - Be a force for good
- Funding – upwards of £6000 in total
- Share your experiences; Raise your profile
 - Publish your research or take it to conferences and seminars
 - Expand your virtual footprint by blogging about your leadership experience
- Global Network via the Laidlaw Scholar's Network
 - Opportunities for mentorship; for you to become a mentor when you're ready



Eligibility

- Members of: Newnham, Murray Edwards, Trinity Hall, and Fitzwilliam Colleges
- First-Year Undergraduates
 - Some Second-Years on four-year courses may be eligible—if you have two consecutive summers remaining on your course
 - Foundation Year students are not eligible (during their foundation year)
- All subject areas are eligible and encouraged to apply
- You should be sure that you can participate in all elements of the programme, over the full 18 months

Application Materials

Start by reading the guide for applicants available at <https://laidlaw.fund.cam.ac.uk/laidlaw-scholars/apply/>

- Research Supervisor
- Research Proposal (1000 words max)
 - Achievable in the 6-week research period
 - A Research Supervisor can help you refine and define your project
 - If you are planning an in-field application for your LiA, you should give the broad strokes of that (but know you can change your mind)
- Personal Statement (1000 words max)
 - Thoughtful about how the programme would help you develop as a leader and a thinker
- Letter from your Director of Studies

Application and Selection Process

Processes:

Online form via CASC Fellowship Application System

Applications are:

- anonymized for the initial review;
- read by a small selection committee;
- ranked within their college group;
- shortlisted candidates will be invited for a short interview;
- final selection is made.

Key Dates:

Nov 28th, 2022: Applications open

Jan 31st, 2023: Applications close

March 31st, 2023: Scholars announced

Full programme runs April 2023 through October 2024