

Al-Naser Al-Rais

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EDUCATION

University of Cambridge

BA in Natural Sciences

Cambridge, UK

Oct 2024 - June 2027

- **Specialisation:** Biochemistry, Pharmacology, Computational Biology
- **Coursework:** Cell and molecular biology, protein biochemistry, drug design and pharmacodynamics, mathematical biology
- **Accomplishments:** **1 of 10 worldwide** selected for fully funded placement at TU Munich (Max Planck Institute); Vivensa Foundation Ignition Fund Fellow (**£5,000 grant** for aging research); Raised **\$10,000** to fund aging research in Church lab; G.R.N. Minchin Award (substantial travel grant funded by Cambridge); Bio-Spark Exploring Fellow

SKILLS

Laboratory: droplet microfluidics (making devices, droplet generation); mammalian cell culture (HEK293, U2OS); plasmid design and editing; lentiviral transduction; DNA and protein purification; fluorescence microscopy; well-plate assays; gel electrophoresis

EXPERIENCE

Knowles Lab, University of Cambridge

Undergraduate Researcher

Cambridge, UK

Oct 2025 - Present

- Investigating TDP-43 phase boundary in ALS/FTD using droplet microfluidics

Lu Lab, Harvard Medical School

Undergraduate Research Fellow, Systems Biology

Boston, MA

Jun 2025 – Sep 2025

- Engineered tunable model system to study pathological protein aggregation
- Executed genetic construct editing, viral transduction, fluorescent imaging and analysis independently
- Managed experimental design and timelines
- Presented findings to collaborators

EXTRACURRICULAR ACTIVITIES

Cambridge Society for Ageing and Longevity Research

[Head of undergraduate engagement]

Jan 2026 – present

Darwin Society (Christ's College Scientific Society)

[Committee Member]

June 2025 - present

- Organised high-profile speaker events and formal dinners

British Powerlifting

[National Competitor, 2022]

- Ranked top 25 nationally