Dr Kate Barclay

Dr Laura Porcza

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RESILIENCE

UK Medicines Manufacturing Skills Centre of Excellence

RESILIENCE Work Placement Training

Route Exchange Network – Health and Science

6th May 2026

UNIVERSITY OF BIRMINGHAM

UCL

Teesside University

HERIOT WATT UNIVERSITY
UK | DUBAI | MALAYSIA

Britest

RESILIENCE work placement and education overview

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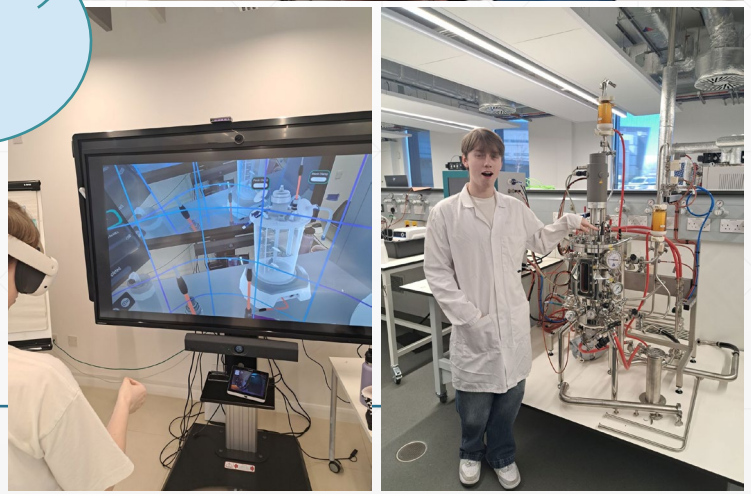
- **Workplace accelerators**
  - Foundation course
  - Main accelerator course
- **Education and career materials**
  - Advanced medicines and diseases posters
  - Workbooks
  - Workshop activities
- **Laboratory work placements**
  - Mammalian cell culture
  - Analysis of cell activity
  - Data analysis and interpretation
  - Data presentation
- **STEM career events**
  - Job searching
  - CV writing
  - Personal statement writing
  - Lab tours

Work place Accelerator Programme

The RESILIENCE workplace Accelerator programme is designed to meet training needs of post-16, UG, PhD/PDRA/CPD, degree apprentices.

- **Module 1:** Introduction to the UK Medicines Manufacturing Sector
- **Module 2:** Focus on the Patient, Quality and Good Manufacturing Practices
- **Module 3:** Health & Safety and Sustainable Manufacturing Technology
- **Module 4:** Organisations values and Expected Behaviours
- **Module 5:** Career Progression, Interview Skills and CV Writing

Teesside University, National Horizons Centre, Darlington - Workplace Accelerator (Darlington College) BTEC [16-17th & 24-25th Mar. 2026]



"I would say that I loved everything about it . It gave me so my reflections of my own experiences and life. During this time I learned so much about pharmaceutical companies"

"I liked the way each topic was divided comprehensively over several days to give in depth understanding in an accessible and well-paced manner."

"The practical skills I can take away and also information about more jobs"

Online Resources

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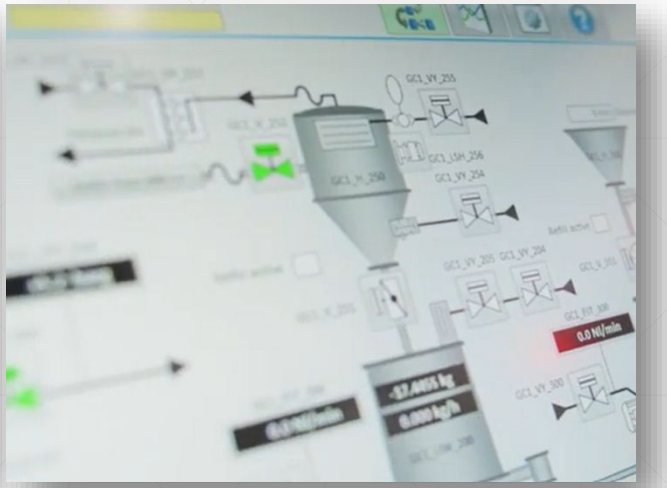
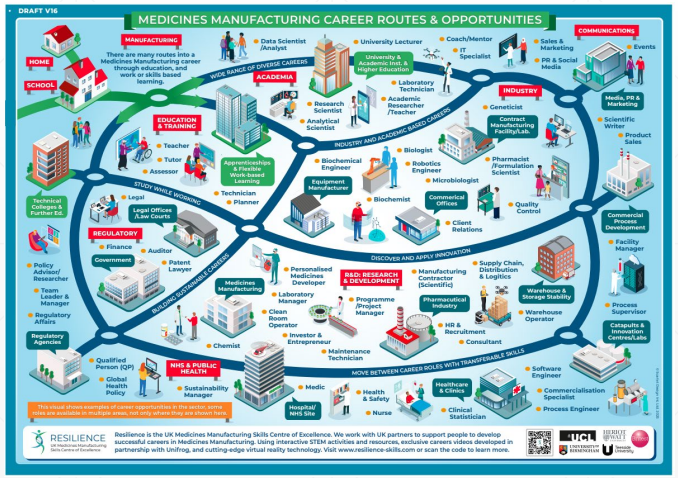
[Overview of careers across the sector]

[Laboratory Scientist Apprenticeship]

[Biochemical Engineer Careers Guide]



[Process Operator - Career Change]



Standard Member benefits (Open to all).
Access to:

- free teaching materials for undergraduate and MSc level
- free teaching materials for ages 16-18
- free teaching materials for ages 14-16
- outreach materials

Enhanced Member benefits. All standard materials, plus:

- Access to undergraduate accelerator materials or 16+ accelerator materials
- Annual free loan of VR headsets (5 per site)
- Annual single site FourPlus VR software license first year paid in full by RESILIENCE; second year 50% fee paid)
- Access to Bodyswaps VR software

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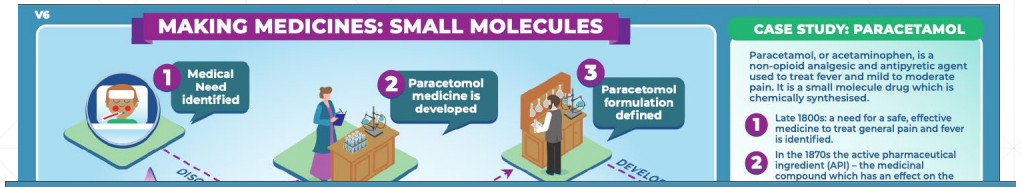
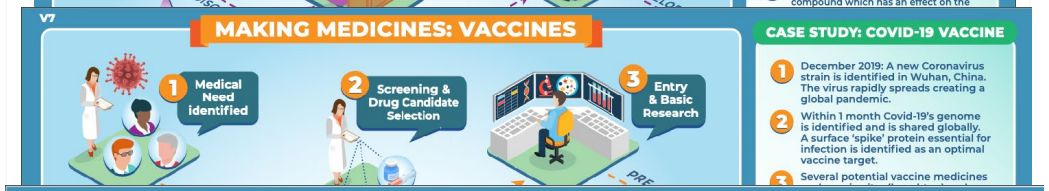
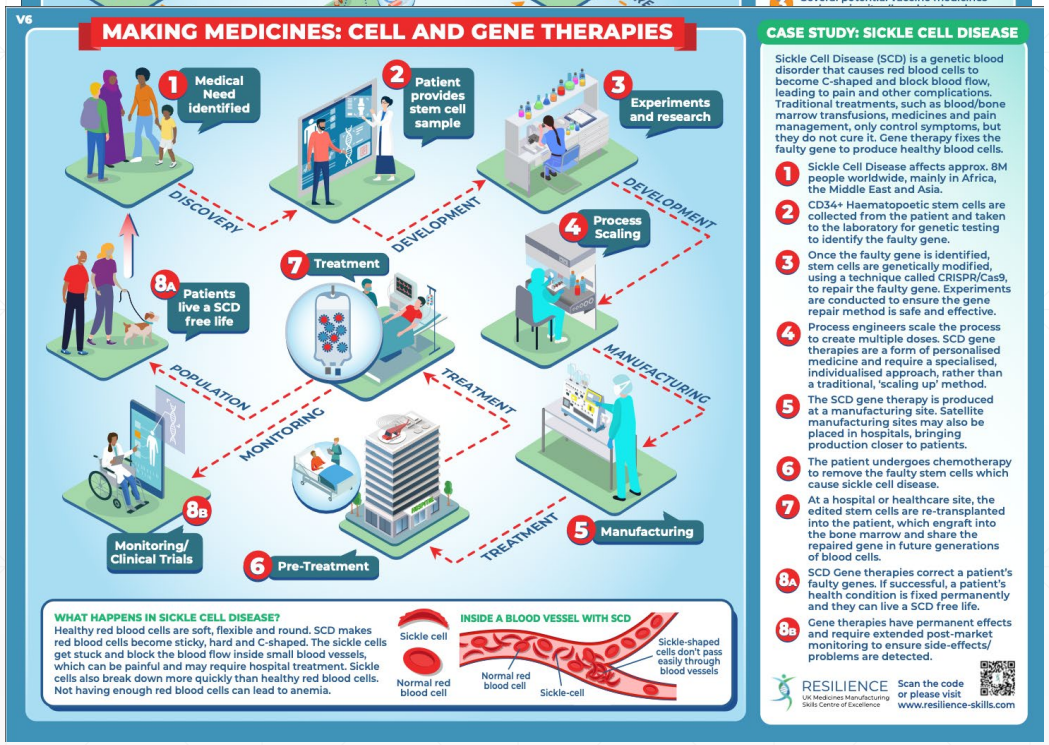
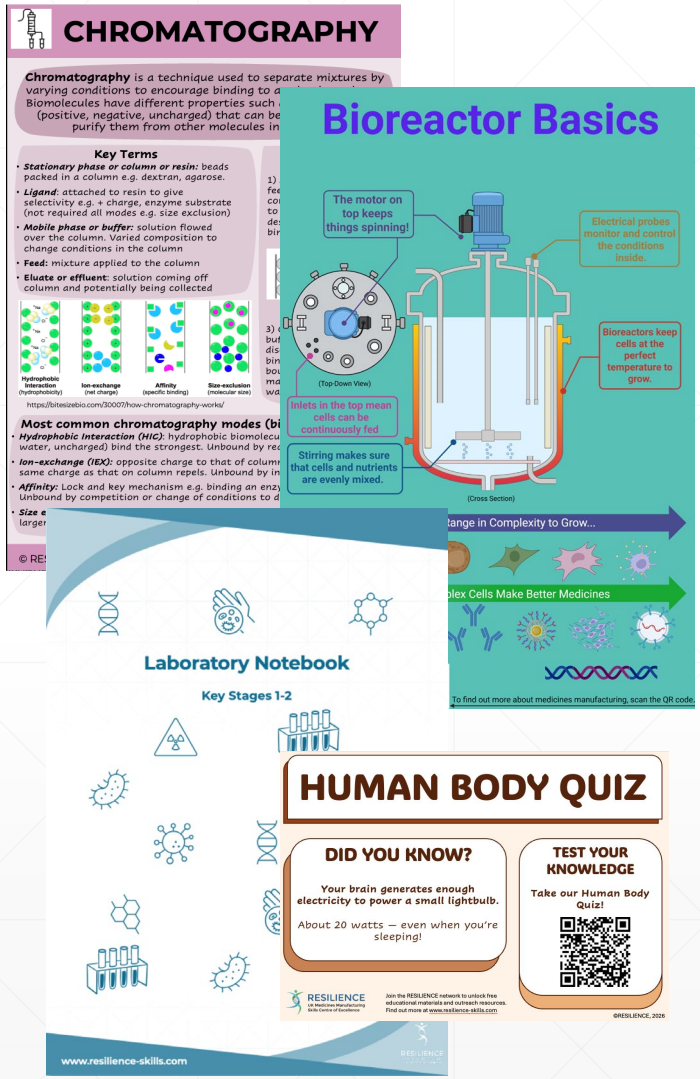




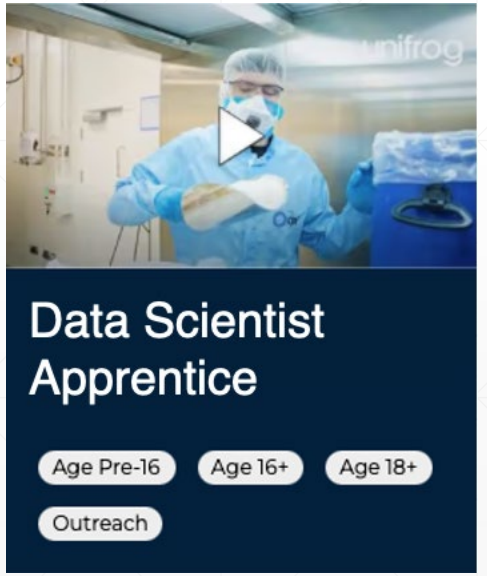


Commissioned infographics



Posters and Workbooks

YouTube Videos



Unifrog videos

T-level and BTEC lab work placements

CANARY WHARF GROUP PLC

UCL Biochemical Engineering

UCL

VaxHub

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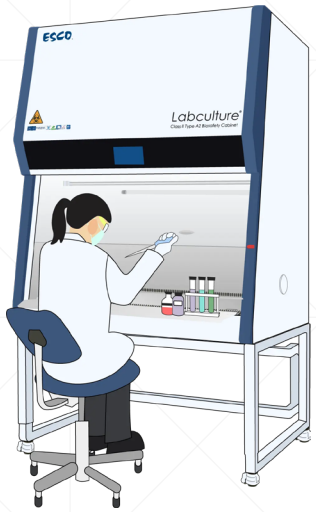
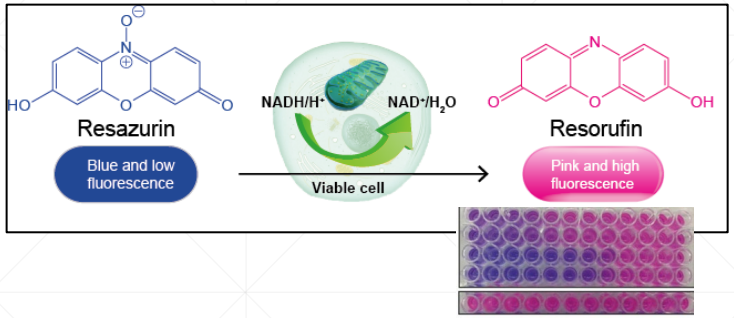
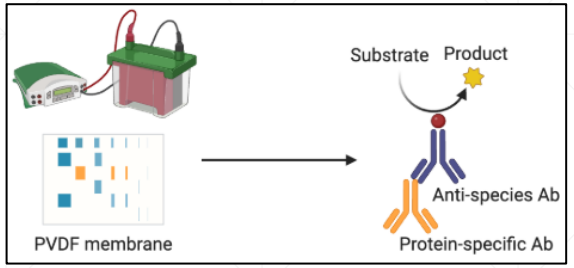
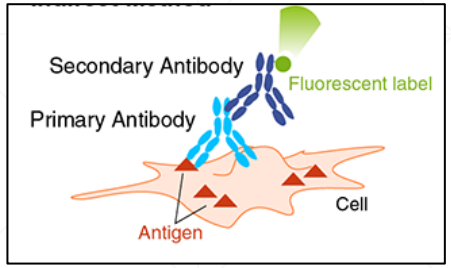


cell culture

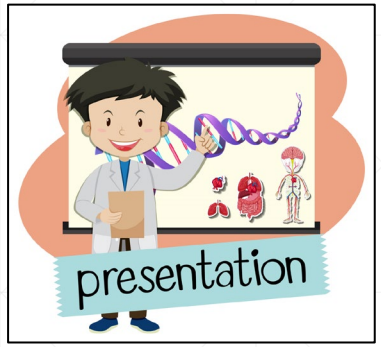


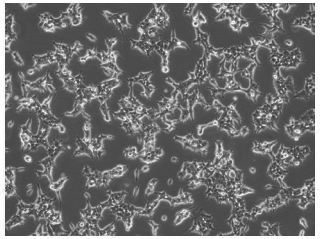
assessment of drug effect on cell proliferation

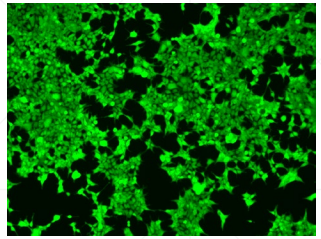


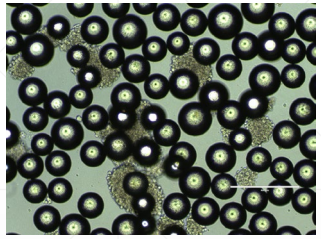


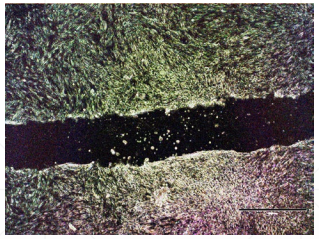
assessment of drug mechanisms of action

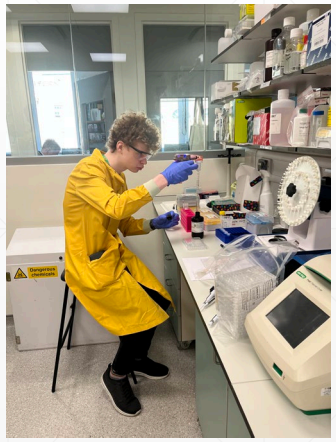












STEM Career Workshop

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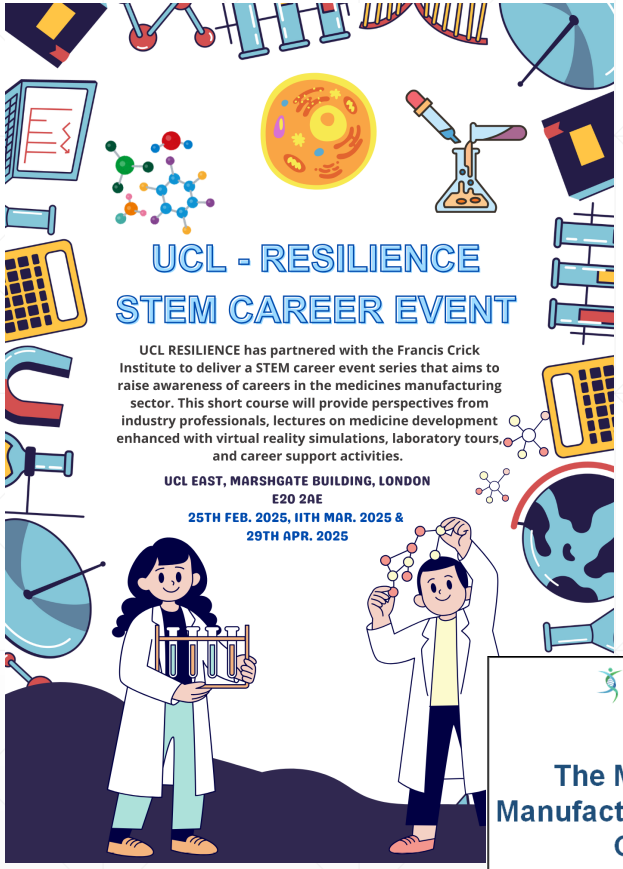

Day 1 - Tuesday 25th February 2025

09:00 - 09:15am	Registration & coffee
09:15 – 09:45am	STEM Careers talk
09:45 - 10:30am	Lecture: Cell Therapy
10:30 -11:00am	VR session & Lab tour
11:10 - 11:50am	Activity 1: Exploring Career Aspirations
11:50am – 12pm	Break
12 – 12:40pm	Workshop: CV writing
12:45 – 1:30pm	networking lunch

Day 2 - Tuesday 11th March 2025

09:00 - 09:15am	Registration & coffee
09:15 – 09:45am	STEM Careers talk
09:45 - 10:30am	Lecture: Small Molecule drugs
10:30 -11:00am	VR session
11:10 - 11:50am	Activity 2: Exploring STEM careers
11:50am – 12pm	Break
12 – 12:40pm	Workshop: Personal statements
12:45 – 1:30pm	networking lunch

Day 3 - Tuesday 29th April 2025

09:00 - 09:15am	Registration & coffee
09:15 – 09:45am	STEM Careers talk
09:45 - 10:30am	Lecture: Gene Therapy
10:30 -11:00am	VR session
11:10 - 11:50am	Activity 3: Reflecting on Career Opportunities
11:50am – 12pm	Break
12 – 12:40pm	Workshop: Job searching
12:45 – 1:30pm	networking lunch

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The Medicines Manufacturing Careers Game

Learn how skills fit together for each career.

RESILIENCE STEM OUTREACH

Student feedback

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The coordinator was very knowledgeable and helpful throughout the whole placement, made everything do-able in such a short time.

i enjoyed going to the laboratory with my group and adding the Alamar blue assay on microtiter plate which was something new I've never tried before which made my experience enjoyable as i get to try to do something new

I enjoyed being able to connect with other companies within life sciences and gaining insight as to what it's like to be a research scientist.

I enjoyed making a presentation and including all the information I learnt from the two days.

I enjoyed just getting there and getting on with the work and how the teachers are very patient and very helping.

I enjoyed the experiment on drug testing on cells.

I enjoyed the teamwork.

Developing Support for T-level and BTEC placements

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Prism

ORIGINPRO
The Ultimate Software for Graphing & Analysis

data analysis and interpretation

literature searching

presentation skills

scientific report writing

designing experiments

teamwork

Plans for future lab work placements

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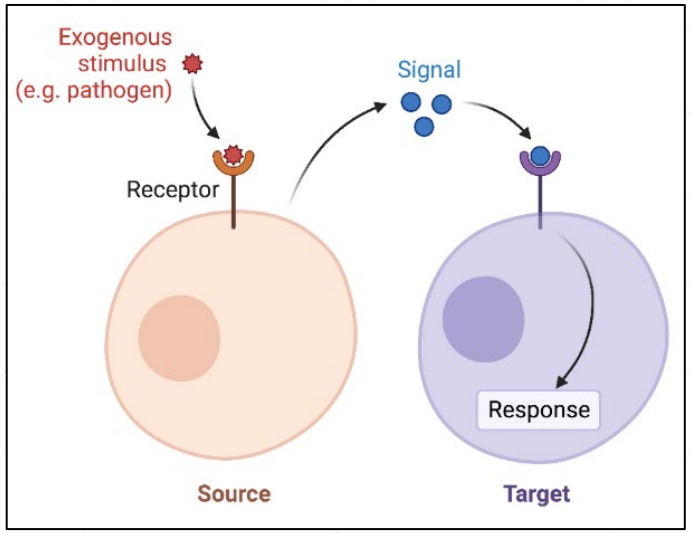
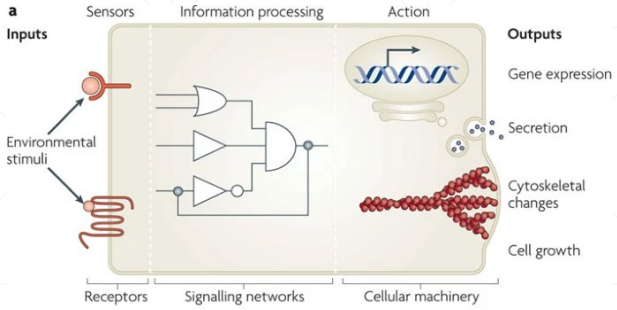
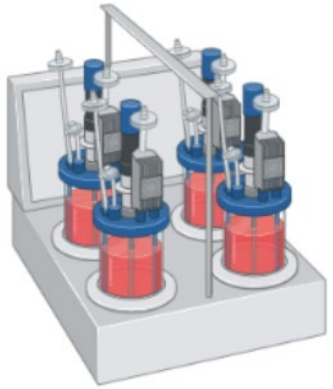
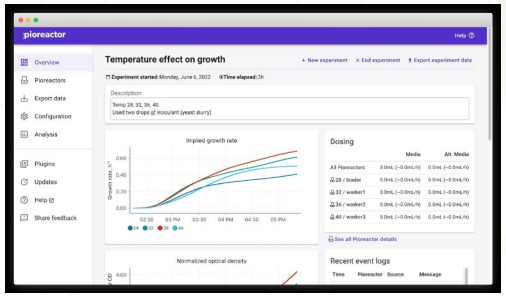
Using logic gates to understand cell signalling & metabolism





Bioprocess engineering

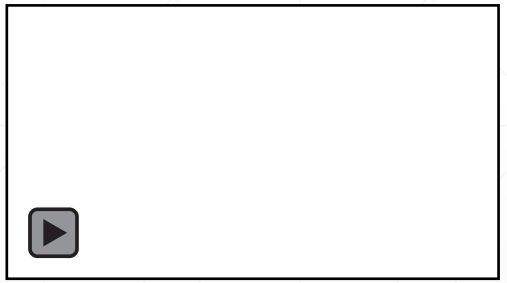


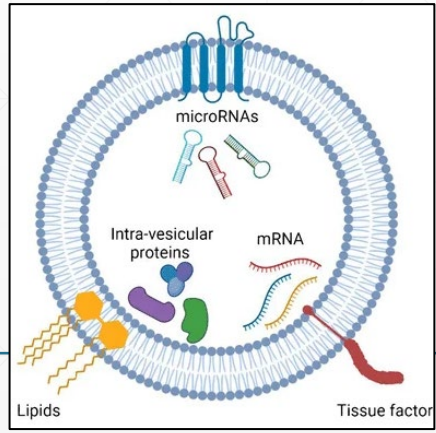


molecular docking

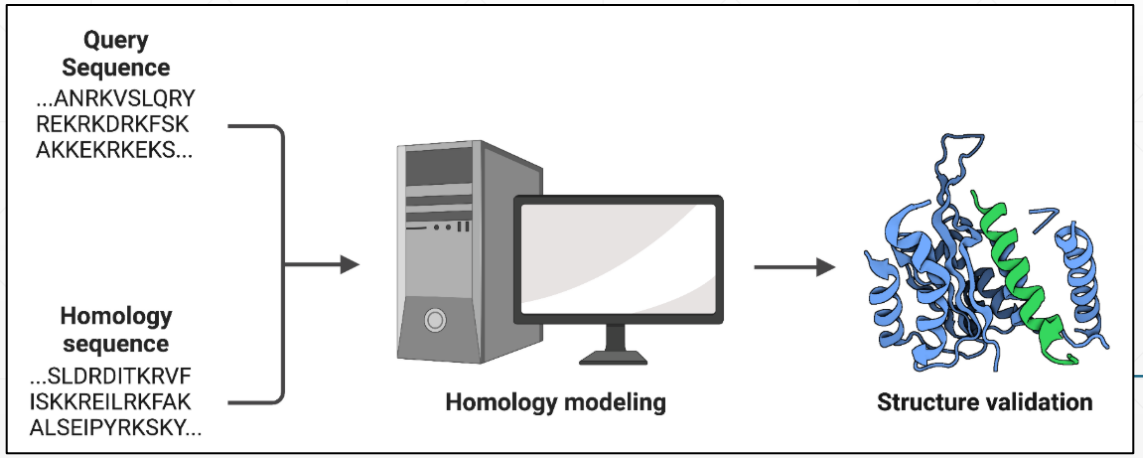
Compound	Score
	-154.8
	-20.8
	141.5

Extracellular vesicle processing





Protein homology modelling



https://www.nature.com/articles/nrm2904; www. Biorender.com

Links to resources

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- UCL Engineering Foundation Year - https://www.ucl.ac.uk/prospective-students/undergraduate/degrees/engineering-foundation-year-2026
- RESILIENCE Skills - https://www.resilience-skills.com/
- UCL International Foundation Year - https://www.ucl.ac.uk/languages-international-education/preparation-courses/upc-foundation
- RESILIENCE Benefits - https://www.resilience-skills.com/for-educators/benefits/
- UCL Biochemical Engineering - https://www.ucl.ac.uk/engineering/biochemical-engineering