

A man with dark hair, a beard, and glasses, wearing a dark blue button-down shirt over a white t-shirt, is pointing his right index finger towards a yellow rectangular box. He is looking towards a woman on the left, who is partially visible in profile, wearing a black and white top with a red strap. The background is a solid red color with white geometric shapes. The text 'PRESENTING A PROJECT AT' is in a yellow box, and 'LIYSF SCIENCE BAZAAR' is in large black letters on a white background. Below the man, a yellow box contains the text 'RESOURCE PACK'. In the bottom right corner, the text 'LIYSF' is written in white.

PRESENTING A PROJECT AT

LIYSF SCIENCE BAZAAR

RESOURCE PACK

LIYSF

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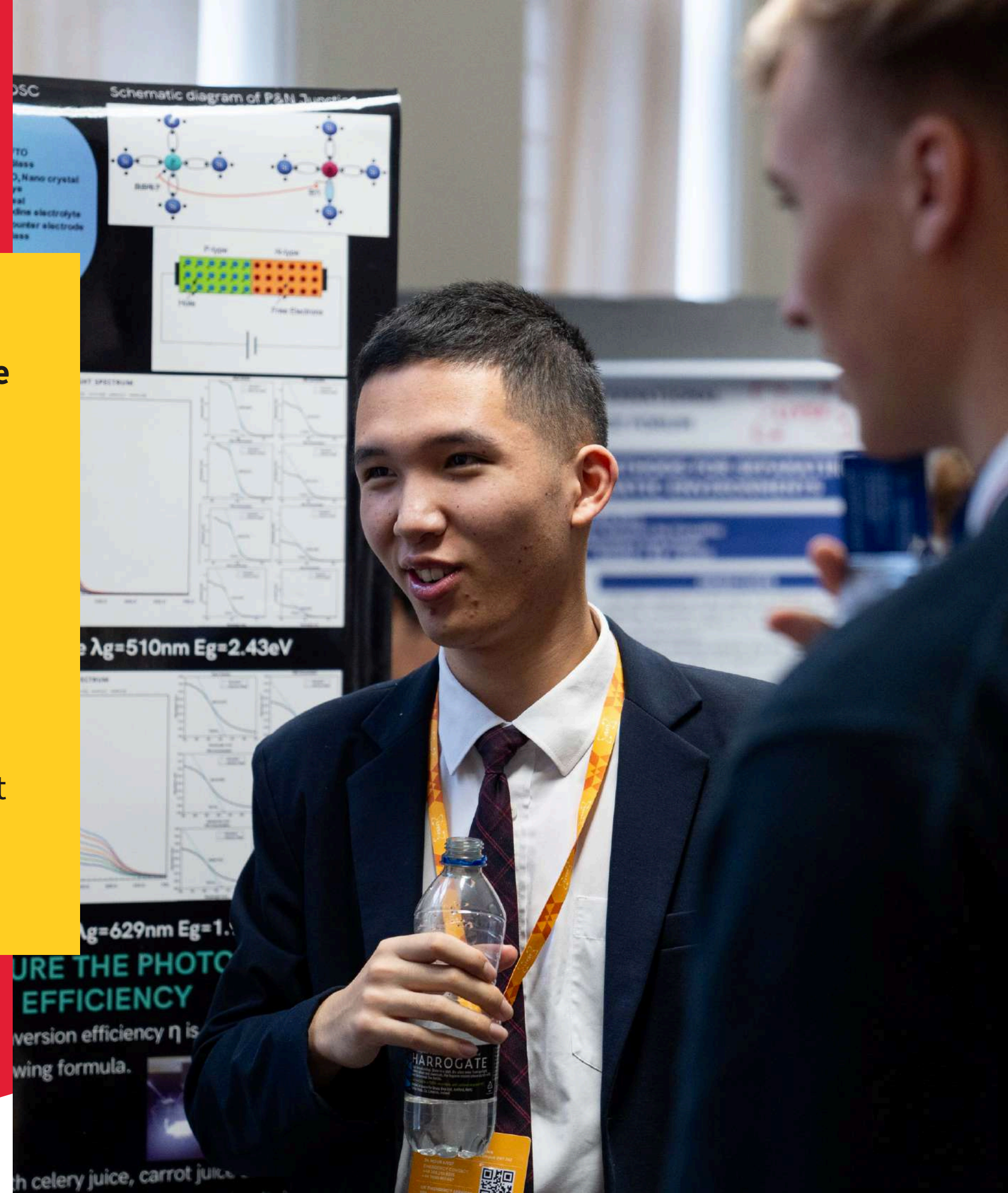
INTRODUCTION



➤ We want you to take part in an exciting opportunity to **present your work (virtually or in-person poster) in a non-competitive environment**, to your fellow colleagues from all over the world and to our science experts.

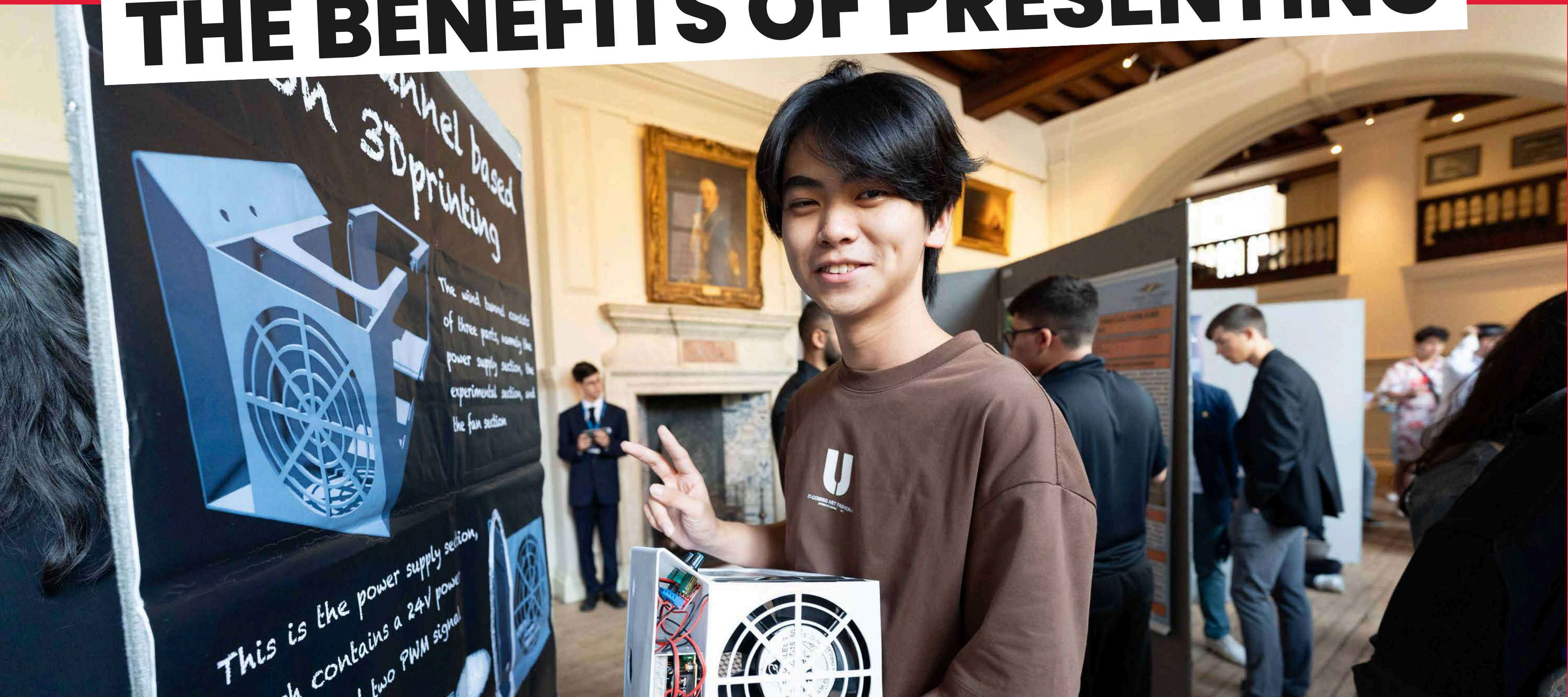
➤ Presenting your work is a really great opportunity to represent your school/university, region and country with your own scientific research and **share it with the world**.

➤ **Communicating Science** is a vital part of being a scientist and in the modern world this is becoming very important. This is a great step in your learning and development in science communication.



THE LIYSF SCIENCE BAZAAR

THE BENEFITS OF PRESENTING



➤ The poster-board session is **not a competition!** This is your chance to share your research project with your fellow colleagues either in person or via our virtual platform.

➤ At LIYSF **the focus is on you sharing your research** and talking about it and perhaps getting new ideas and feedback. This is unique as most other fairs are based on you competing against each other.

➤ **Improve your presentation, analytical and thinking skills** in a friendly and supportive environment. Perhaps even gain practice in presenting in English (if English is not your native language).

➤ Get the chance to **present your work to experts:** professors, experienced scientists and researchers.

➤ **Earn recognition** with a certificate stating that you presented your research at the LIYSF Science Bazaar.



THE LIYSF SCIENCE BAZAAR

THE DO'S & THE DON'TS



THE DO'S

- Practice how to say what you want to say in a concise and clear manner and don't rely heavily on other materials, like complicated props or demonstrations.
- Your project should be something you have personally chosen and are passionate about.
- **Use your own poster(s)** to support your project and illustrate your work. Photos, graphs, diagrams, illustrations and pictures are a great way to help others understand your concepts.
- You can use a project that you have done before for a science fair or other contest if you like.
- **For Virtual students:** we will ask you to record yourself showing us your presentation in your own words, so we can share it with the rest of the students. Remember it is important to quote theories and scientists of course, but what we are really interested in is your ideas.



THE DON'TS

- **Do not be shy!** We are just excited to hear about your findings.
- **Do not create a recorded documentary!** Let's keep it short and sweet. PowerPoint presentations (or similar) are not permitted for in-person presentation. The idea is to enable participants to make a presentation in their own words of a project they have personally selected and undertaken.
- **Do not forget** to say what inspired you to do the project and what you learnt from your mistakes.
- **Do not speak too quickly.** We need to be able to understand the information you are telling us.
- **Do not record yourself in a noisy place (virtual presenters).**
- **Do not worry about your best angle.** You do not have to always appear on camera, focus on your research.
- **We want to hear what you think!** Do not come with a project that has been entirely directed by a teacher. Of course you may have had help and guidance from a teacher along the way and this is totally fine.

Screening Novel Bacteriocins

Ocala, FL, USA

Q3: Data Analysis and Results

tested, 7 demonstrated inhibitive
th significant inhibition against
S. aureus ($p < 0.05$)

hogens was isolated to protein
n focus (3-10 kDa) and greater.

two samples demonstrated
target protein yields compared to
tration ($p < 0.05$)

strated a MIC within resolution
markers, two were significantly
tested samples ($p < 0.05$)

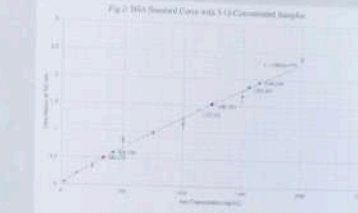
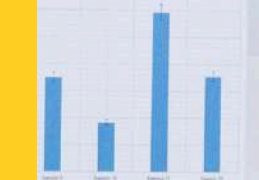


Fig 2. MIC Screened CFS with 5-10 Concentration Samples

Four samples demonstrated CFS isolates that are within the target class (1). Samples 1 and 19 likely related on different inhibition mechanisms with class (3) and (7).

Maximum Inhibitory Concentration against *E. coli* and *S. aureus*



Samples with MIC > 400 did not demonstrate clear inhibition within the assay resolution.

Q4: Interpretation and Conclusion

ins isolated from caprine samples demonstrated
s. Secondary hypothesis was incorrect.

, which demonstrated the lowest inhibitory
nd the highest inhibition were identified as *L. lactis*
us according to 16S analysis. Primary hypothesis was

in 3-10 kDa range of isolate demonstrated 2 bands
at ranges that were not previously identified in
s, 2020). Provides evidence of novel bacteriocin

fig 5. CFS Screen *E. coli*



fig 6. CFS Screen *S. aureus*



protocol achieved central goal of isolating
ch demonstrated activity against *E. coli* (in niche), and
niche).

ved efficacy in isolating novel bacteriocins at a rate
the cost of comparable test methodologies with
resolution. (Refay, 2020)



THE LIYSF SCIENCE BAZAAR

ESSENTIAL INFORMATION

present, the den
imated based on
ts of the nuclear
average number of nuclear medicine examinations per 10,000
people is about 64 people. However, in China
people who receive medicine ex
people, which is only about 30%
d much lower than the level
world.

diotopes can be made e
diotopes are artificially
posing a target material
ent chemical processes t
l forms. Currently, the
ina that can be used for
Table 2.

imited by production capa
actor (CMRR) can indepe
ium-177 in small scale,
or (HFETR) can achieve
m-89. Other research rea
capacity of medical isotopes.

Table 2: List of rese
to produce medical

No.	Reactor
1	China Advanced Reser Reactor (CARR)
2	Swimming Pool Re (SPR)
3	High Flux Engineerin Reactor (HFETR)
4	Minjiang Test React (MJTR)
5	China Mianyang Researc Reactor (CMRR)



MAP

Lake Erken
Baltic Sea

WHY & HOW

Streams are essential ecosystems, protecting us from flooding, housing wildlife, and supplying a significant amount of our water supply. Benthic invertebrates and water samples were collected from three locations in the Beiströmmen between lake Erken and the Baltic Sea.

HYPOTHESIS

As the water of Beiströmmen flows from lake Erken to the Baltic Sea...

- 1...the pH level will decrease.
- 2...the nutritious levels will increase.
- 3...there will be more benthic animals with low ASPT.

CONCLUSION

The water quality is the worse closest to the Baltic sea, supporting hypothesis 3. Whilst, water quality and chemistry are similar between Erken (L. 0) and Drenningsdal och Näs (L. 2). Meaning, hypothesis 1 and 2 were not proven.

Figure 1: Nitrogen concentration in Beiströmmen

Location	Organic N ug/l	NH ₄ ⁺ ug/l	NO ₃ ⁻ ug/l
Location 1	~100	~100	~100
Location 2	~100	~100	~100
Location 3	~100	~100	~100

Figure 2: Phosphorus concentration in Beiströmmen

Location	Organic N ug/l	PO ₄ ³⁻ ug/l
Location 1	~100	~100
Location 2	~100	~100
Location 3	~100	~100

We are Bottom dwellers

ASPT

Effects of Caffeine

AND STEP

IN-PERSON

- Each student will have their **own poster board**, that is your “stand” where you present to other participants and science experts who judge your work and give feedback.
- You should ideally present on your own, but small groups, up to 3 persons, are allowed.
- We will ask you to register and **provide the title** of your project as a first step.
- **Your stand consists of 1 poster board: 2 metres high by 1 metre wide (provided by LIYSF).** The boards fit one A0 portrait poster, or you can put several A4 and A3 posters on the board. There is Wi-Fi but no electricity at your stand.
- You might be chosen to present your work at our Student Topics Session in a lecture theatre to the full LIYSF student body, in a short 3 min on-stage presentation.
- **To present your project in person please complete the information in your profile by 1st July.**



VIRTUAL

- **Each student will have their own online exhibitor booth,** which other students and experts can visit and ask questions.
- Videos should not be more than 5 minutes long. Attach a link to the video of your presentation via, Youtube, Vimeo, DailyMotion, SlidesLive. Uploading a file from your local computer or from a cloud URL is not allowed.
- We will ask you to register and **provide the title** of your project as a first step.
- You can attach a maximum of 2 pdf handouts and/or 3 photographs (jpg or png format recommended) to show your research.
- Each student will be assigned a time slot to discuss the project with an expert.
- **For virtual projects, please contact us at virtual@liysf.org.uk for any questions!**





THE LIYSF SCIENCE BAZAAR **REGISTER NOW!**

In-person projects please complete the information in your profile by **1st July**.

Virtual projects please upload to your profile when we launch the app. (Around a week prior to the start of the Forum!)

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BE A CHANGEMAKER!

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