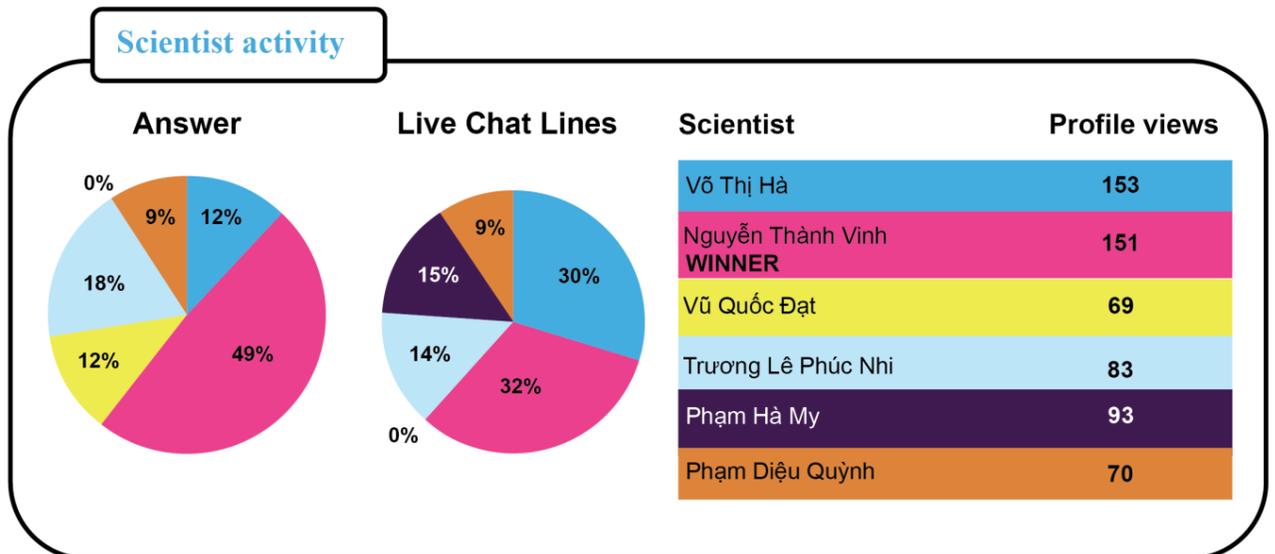
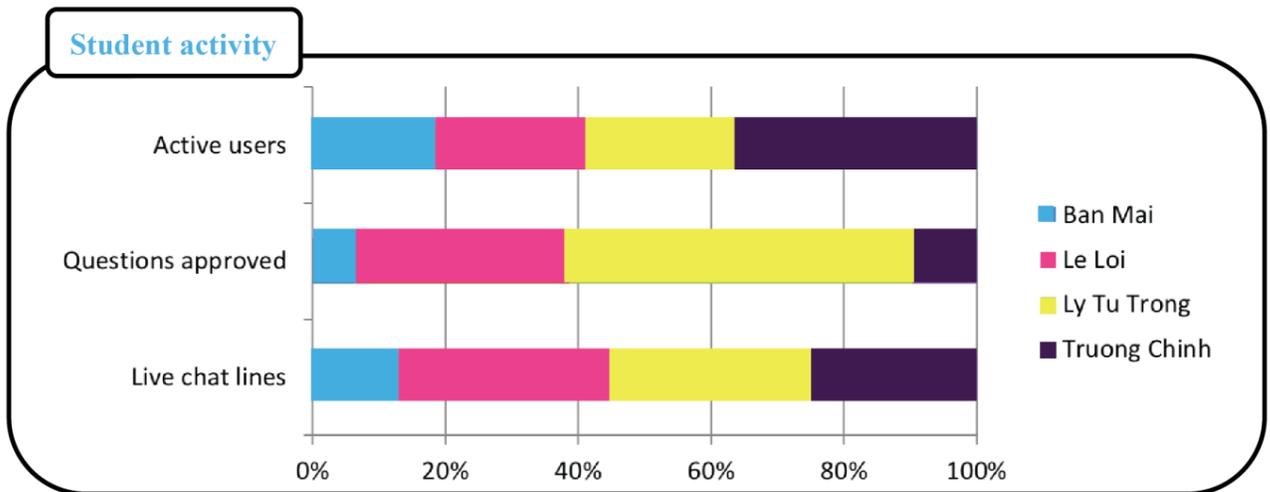




ANTIBIOTIC RESISTANCE Zone
APRIL 2018

This summary zone report contains key data on the activity in the Antibiotic Resistance Zone, *Kháng kháng sinh*, which ran from 2nd to 13th April. This zone took place with the participation of:

- **4 schools** in Hanoi, Ho Chi Minh City and Tra Vinh City.
- **6 scientists** working in 3 major cities of Vietnam including Hanoi, Hue and Ho Chi Minh City.
- **100 students** aged from 13 – 14 logged into the zone, **87.72 %** actively took part in the event in either the ASK, CHAT, or VOTE sections.



Interaction outcome

Student

75 students from 4 secondary schools in Hanoi, Ho Chi Minh and Tra Vinh City took part in post-event surveys after joining Chat voi Nha khoa hoc.

Students' changes of interest in science

BEFORE

68% of students interested in science

Chat với
NHA KHOA HỌC

AFTER

98.87% of students interested in science

Students' feedback on 3 main activities

Ask ?

93% agreed scientists gave clear and satisfying answers.

Chat

92% agreed they felt scientists were friendly and science works were more interesting than they thought before.

Vote ✓

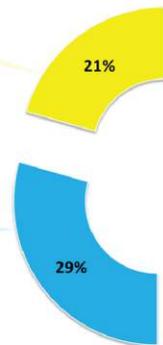
92% agreed they voted for the scientist, that was humorous and friendly, giving clear answers to their questions.

Science knowledge students gained after the event

- Understanding and How to use antibiotic
- Antibiotic resistance
- Science in general and Scientist's life

"Science is an interesting subject. It seems not too complicated as I thought. As a student I can also participate in scientific work."

"Antibiotic resistance is caused by using antibiotics in the wrong way. It should be prevented globally."



"Bacteria are beneficial in the production of antibiotics. After killing bacteria, antibiotics will be eliminated through the excretion."

"Drinking plenty of antibiotics will lead to intestinal disorders."

"Anaphylactic reactions are the most common side effects of antibiotics."

Scientist

"Chatting with school students was wonderful and exciting. Students nowadays have many good and quite difficult questions. Some of the questions are naive, reminding me of the time when I was a student. They are very interesting and focusing on the topic, leading me to some issues that I may study more in practice later."

– **Nguyen Thanh Vinh**, OUCRU HCMC, Vietnam

"Chat voi Nha khoa hoc is an interesting and useful activity, bringing science closer to school students. We need to explain our knowledge in an understandable and simple way for students. I also learned more about how students look at issues. We need to further promote the connection between students and scientists."

– **Truong Le Phuc Nhi**, OUCRU HCMC, Vietnam

"After participating in Chat voi Nha khoa hoc, I think this is a useful activity for school students. Their smart and challenging questions sweat the scientists. I think I need to be more responsible with the community in terms of health communication relating to my career."

The weak connection between Vietnamese scientists and school students needs to be improved. We should communicate about it widely on Facebook, television, websites."

– **Dr. Vo Thi Ha**, Hue University of Medicine and Pharmacy, Vietnam

Feedback on the online engagement method

The effectiveness of the online engagement method used for school students to access to science was rated **9 over 10** by teachers. Furthermore, **85.3%** of students participating in this zone find it easy to use the website. Meanwhile, scientists commented:

"Students should be instructed more carefully about the zone topic before joining in chat sessions to avoid wasting 30 minutes. Some students raise questions extensively, which are beyond the topic, causing difficulties for scientists to answer."

– **Nguyen Thanh Vinh**, OUCRU HCMC, Vietnam

"The internet (at schools) needs to be improved to avoid the congestion in website when many people log in. Each scientist should have their own chat screen to follow questions and avoid omission."

– **Truong Le Phuc Nhi**, OUCRU HCMC, Vietnam

"Each student should have their own avatar picture so that scientists can recognise. The chat screens should not move up. We could show students in the next sessions the previous questions of the first chat, or save the questions and answers to the ASK for everyone to read."

Currently, many students (from the same or different schools) ask similar questions, which may make the scientists become less and less patient."

– **Dr. Vo Thi Ha**, Hue University of Medicine and Pharmacy, Vietnam

Key figures from Antibiotic Resistance zone and Environment Science zone, which ran at the same time

	ANTIBIOTIC RESISTANCE Zone	ENVIRONMENT SCIENCE Zone
Total page views	4,648	4,263
ASK page views	240	546
CHAT page views	770	723
VOTE page views	349	420
Live chat sessions	7	7
Live chat lines	1,036	1,585

Top issues students asked in Antibiotic Resistance zone

Size represents frequency of issues.
The bigger the size is, the more interested the students are.
(English translation in brackets.)

Sốt rét (malaria)

Cầu vồng, không khí (rainbow, air)

Ebola Vaccine Vũ trụ (universe)

Giải thưởng Khoa học Trường học (School Engagement Prize)

ARV (antiretroviral drug)

Định hướng học tập, nghề nghiệp (work and study orientation)

Đời sống của nhà khoa học (scientists' life)

Kháng sinh (antibiotic)

Vi khuẩn, vi rút (bacteria, virus)