

ANTibioticS and mobile resistance elements in WastEwater Reuse applications: risks and innovative solutions

H2020-MSCA-ITN-2015/675530 - ANSWER



## Outreach Activity 1:

"School visit and presentations to the 9<sup>th</sup> grade students at Escola Básica 2,3 Visconde de Chanceleros"

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## Description

- Date of the Event: The event occurred on the 9<sup>th</sup> of December 2016
- The presentations took place at Escola Básica 2,3 Visconde de Chanceleros, Merceana, Portugal.
- Audience was composed by 9<sup>th</sup> grade students (14/15 -year old students), both male and female, with a total of 63 students. There were three presentations. Each session was 45 minutes. The First one was from 8h30 to 9h15, the second one from 9h15 to 10h00 and the last one from 15h30 to 16h15.
- I talked about the ANSWER project- that we are an international group, including 15 PhD students, doing research in several countries, mostly in Europe. I told them the DNA structure, what are antibiotics, and antibiotic resistance (bacteria and genes), how the resistance begins and how it spreads. Then, I talked about the problem nowadays with antibiotic misuse. After, I showed how antibiotic resistance is studied (classical methods, and molecular biology methods'). Finally, I talked about my project. Firstly, what I did until now, and what I will do in the future.

## Announcement of the (i.e. café scientific) event

- There was no announcement. I contacted the directors of the school in September, and I proposed to present the ANSWER project, the antibiotic resistant bacteria, and my project to the 9<sup>th</sup> grade children of that school. They agreed, and we talked about what should be included in the presentations and what not. Afterwards, we agreed on the date.

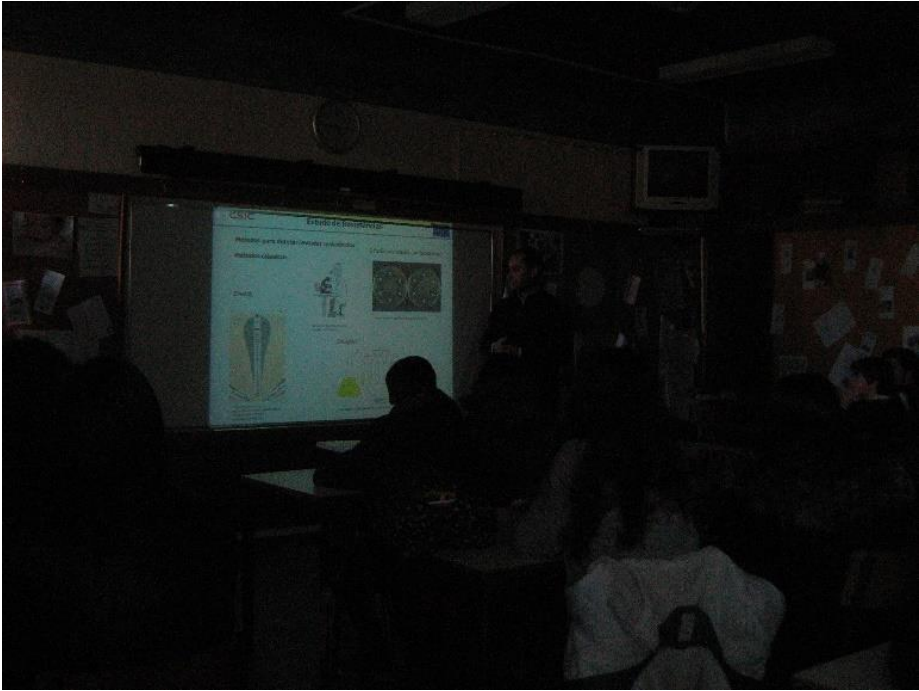
## Dissemination material distributed during the event

- I send some photos. I also send the power point presentation, and the certificate signed by the director of the school, with the number of students that assisted the presentations in annex.

## Photos of the event

Francisco Cerqueira on the 9th of December doing presentations to the 9th graders (14/15 -year old students) regarding antibiotic resistance bacteria(ARBs) and genes(ARGs), and methods to study the ARGs and ARBs. Moreover, he talked about the [AnswerITN](#) project, and his project. The presentations were performed at the school, Escola Básica 2,3 Visconde de Chanceleros, Merceana, Portugal.







## Final Remarks

- The students were in the 9<sup>th</sup> grade. They have to choose in the end of the year what is the area they want to pursue in high school (science and technology; economy; Arts, Social Sciences). I noticed the ones that want to study science in the futures were interested (I would say around 30% of the students). In the end of each presentation they asked questions. Most of the question were related to the types of careers they can choose in science, and what is like to work as a researcher. Few asked about the biology bachelor's, the bacteria, especially related to their impact in human health. The ones, that were not interest in pursuing their studies in science, were not much interested in the presentation.

