The Brain Buskers Project: taking science to the streets

Brain Buskers is an initiative developed by the University of Coimbra in Portugal. The project aims to join science with the daily and cultural life of the city in order to engage local communities. Its informal nature promotes the understanding of biochemistry in everyday life, demystifying the image of scientists and increasing scientific literacy. The project has also helped to inspire scientists with the skills and confidence to hold and inspire a passing audience with science.

In this context, we also believe that informal education can be a great tool to teach science and promote curiosity towards scientific content. This type of experience usually takes place outside educational establishments, and often occurs in a spontaneous and creative way for learners, through daily life interactions and shared relationships among members of society. The selection of public and informal environments can be crucial in engaging society in science-related issues: discovering science at an informal venue produces awareness and excitement, and can help people to feel more confident in asking questions and expressing their views.

In this regard, and inspired by buskers’ street performances, the project ‘Brain Buskers’ was born,
Outreach

aiming to capture the attention of the public to unveil and explore biochemical phenomena in an informal environment, taking advantage of the scientific expertise of the researchers of the Center for Neuroscience and Cell Biology (CNC) from the University of Coimbra. The researchers left their laboratories and embraced the challenge to take science to the city's daily life and communicate with the society in public spaces, such as streets, parks, beaches and pubs, among others (Figure 1). With this project, we aimed to bring science close to the public by creating meeting places between scientists and citizens, building informal and unexpected conversations about scientific contents, with the main focus on CNC target research fields: neuroscience and disease, metabolism and active ageing, and biotechnology.

The Brain Buskers events, organized during the last year, transformed different public areas into an arena for public learning and scientific debate. The researchers talked about scientific curiosities, processes and findings, and performed hands-on activities, games and brain teasers in order to engage the local community, inserted in the local agenda and the daily life of the citizens. Table 1 exemplifies some activities that were performed during the project.

The events were held in different public spaces with different environments and designed to attract different publics. Table 2 provides some examples of the events organized, the target audience and the estimated number of people engaged.

By analyzing the results, we observed that the most successful events (in terms of numbers of people reached) were at Queima das Fitas and on city buses, which reinforces the idea that science communication initiatives can work well when inserted both into existing entertainment events with large audiences or appearing spontaneously in people's daily routine. The events which fell short of our expectations were at Figueira da Foz beach and Expofafic. In the first one, we can reasonably say that the unusual weather conditions for the time of the year kept people away from the venue. At Expofafic, the activities occurred during dinner time, which may explain the low number of children and families who would have engaged in the activities. This observation will be taken into account in planning future initiatives during this festival.

The Brain Buskers initiative was promoted on the CNC social media networks, Facebook and Instagram.
to let people know about the different events that would take part at different locations. Furthermore, by revealing the locations of these events, we did not lose the non-generic aspect, yet, we stimulated the search by audiences already engaged with our events.

On Facebook, the different episodes of Brain Buskers were divulged as both Events and Posts, by sharing the event’s outreach poster on the official CNC Instagram and Facebook page. By talking with the public during the events, we learned that promotion on social media particularly encourages parents to take their children to the events held in public spaces suitable for families. During the events, we also posted photos and videos on the InstaStories tool and Facebook photo album, which encouraged people to repost, share and come to future events.

Furthermore, by promoting the different Brain Buskers events in our CNC social media accounts, we have encouraged people’s curiosity to know more about the institution itself and we have built the public trust towards science and researchers.

In summary, we can conclude that the Brain Buskers project has had success in bringing science to citizens. In total, we had around 764 people participating in our activities throughout the 16 events. Social media proved to be a useful tool to promote events suitable for families, and also to foment institutional recognition, which in turn has led to a snowball effect towards our scientific research and science communication initiatives. Regarding the feedback we received at different events, people became more conscious about several biomedical concepts and aware of the ongoing research at our center thanks to the unexpected and informal nature of the initiative. We realized that to attract and engage a larger number of people, the events inserted in the daily life routine or associated with local culture agenda are the most successful.

Moreover, this project has been inspiring and engaging for CNC researchers (volunteers) in science communication initiatives, giving them tools to improve their public speaking and better interact with the public. Furthermore, this initiative constitutes an additional motivation for scientists to conduct their research for the benefit of society. Additionally, the project has been supporting the establishment of improved communication strategies and team spirit inside the research centre.

Lastly, the activities allowed us to validate our science communication approaches in order to improve and understand the best practices to engage the community in science and scientific themes. During the project we were able to reach different sections of the public, with more incidence in children and families. In future events, we intend to reach a different section of the public, promoting new activities in places frequented by not only families, but especially by adults and young adults. Future events will take advantage of new activities developed according to the necessities observed during past events and also new activities developed during other science communication projects.

Scientific Outreach Grants

Do you want to help enthuse the next generation of bioscientists? Keen to show the public the positive impact molecular biology has on their lives?

If so, we can help!

The Biochemical Society offers grants of up to £1,000 to support scientific outreach activities that communicate the excitement and relevance of molecular bioscience to young people and the general public, to help develop their interests or skills. Examples of possible events include:

- workshops for school students
- exhibitions at festivals
- inspiring scientific talks
- activities for a science club or within the community.

We are especially keen to see applications for activities that are sustainable or can be rolled out by others.

Further details, including activity ideas, reports from past events, potential collaboration partners, eligibility criteria and the application form are available at biochemistry.org/scientific-outreach-grants

Apply by the deadline of: 24 September 2019