





Cell EXPLORERS Summary report 2016-2017

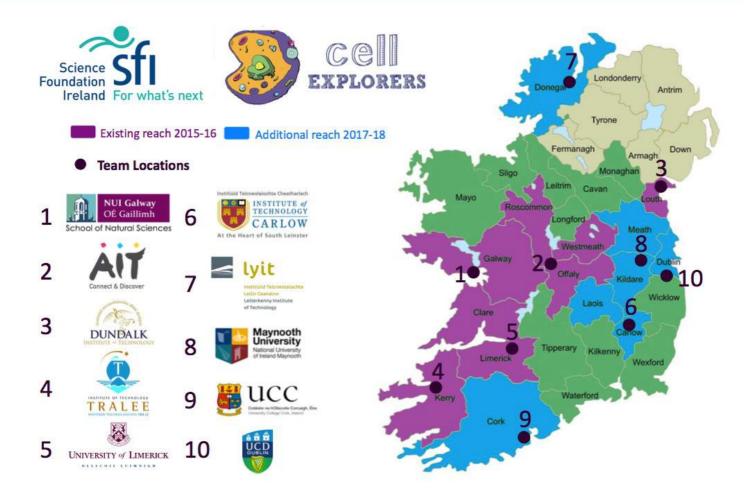


Cell EXPLORERS Summary reports 2016-2017

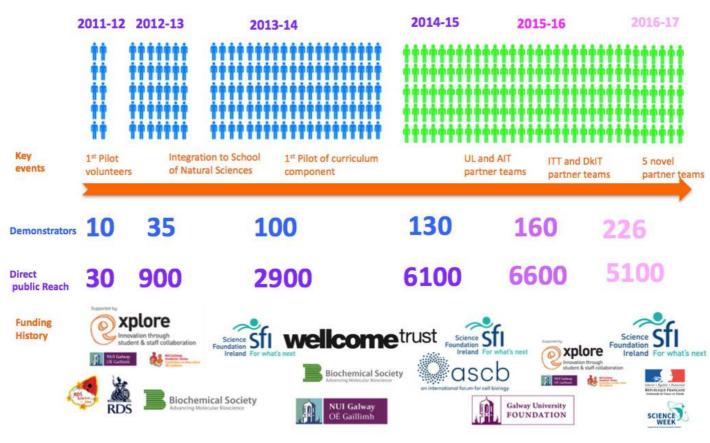
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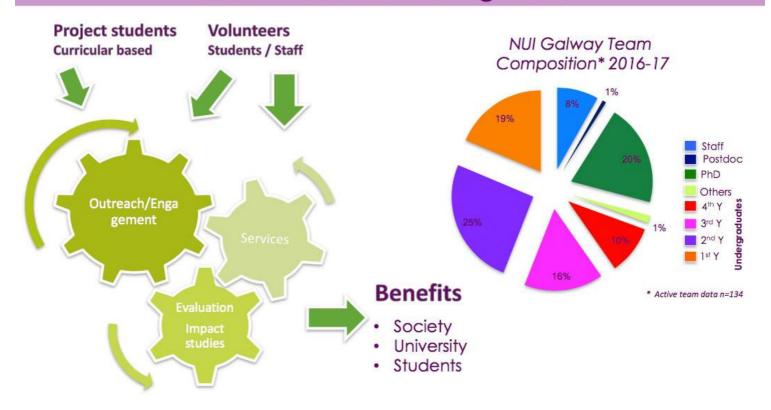
Cell EXPLORERS National Network



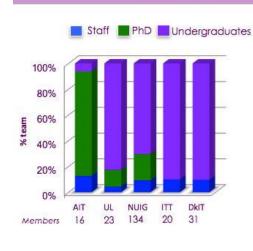
Cell EXPLORERS expansion, reach & funding history



Cell EXPLORERS working model



The 5 Cell EXPLORERS Teams active in 2016 *











****			Mixed	
68% Science Undergraduates	73%	49%	incl. Share interest about science & community contribution	
83% Science Education undergraduates	38%	63%	Share interest about science	
94% Researchers	50%	71%	Share interest about science	
90% 1st & 2nd year undergraduates	100%	100%	Mixed Community contribution Interest in programme	
	 Low pre-Volunteering survey intake 			
90% 3rd & 4th year	71%	50%	Teaching experience	

^{*} pre-volunteering survey, N=59 (28, 5, 13, 2 & 11 for NUIG, UL, AIT, ITT & DkIT respectively)

NUI Galway Final Year project students

undergraduates



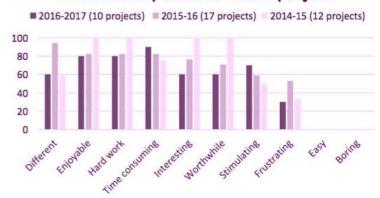


- 95% students satisfied
- 100% students recommend science communication to be part of curriculum

wellcome trust



Student's experience of the project



Biochemistry External Examiner:

"The outreach projects are very well organised, and the students who take part in these gain significantly from them. This is to be applauded"

Cell EXPLORERS volunteers feedback 2016

Data obtained from * pre-volunteering survey, n=59 * post-volunteering survey, n=61



1. Engage Children and Public in Science

2. Contribute to the community

4. Acquire teaching experience

7. Add this experience to CV

5. Cease an interesting opportunity

3. Gain new skills

6. Work with children

8. Meeting with people



- Volunteers gained: 1. Communication skills 90%
- 2. Skills of working with children 82%
- 3. Working in a team 79%
- 4. Teaching skills 77%
- 5. Confidence 74%
- 6. People management 69%
- 7. Speaking in group 69%
- 8. Time management 64%
- 9. Oral presentation 52%
- 10. Organisation skills 62%

Benefits of taking part#

And also:

'It was fulfilling and enjoyable to teach the school children and to see them enjoying learning about science.

'I'm so much more confident in my self-esteem and I have benefited hugely from it! I love it! I believe in myself and I am recommitted to science and love promoting it!'

'There is something about teaching kids about science that makes you feel good about being a scientist yourself. It helps you remember why it matters.

'It is a really good insight as to the type of work I might possibly want to do going forward when I finish my degree.

'A greater understanding of how science can be applied in everyday life'

'Happiness, it was fun.' 'It was great to meet other Cell Explorers volunteers from other disciplines in the college. I have made new friends.

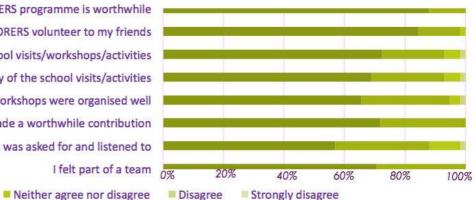
'I gained the opportunity to get to know other like-minded people with same professional interest."

View on the Cell EXPLORERS programme

Positive feedback was provided on all aspects of the programme

The Cell EXPLORERS programme is worthwhile I would recommend becoming a Cell EXPLORERS volunteer to my friends I had sufficient training to complete the school visits/workshops/activities I had sufficient support on the day of the school visits/activities The school visits/workshops were organised well I felt that my time made a worthwhile contribution I felt that my opinion was asked for and listened to

I felt part of a team 0%



Strongly agree

2 Favorite 1. Work with children

Agree

2. bring excitement of science to the public

90% would volunteer again 84% think their experience will with Cell EXPLORERS in the future. help them in their studies/career.

View# on Science Outreach

It is important in universities: Agree

Why is universities engagement important?

- To get young people in science
- To benefit society
- It is their duty

How should it be integrated?

It should be mandatory: 20% It should be optional: 80%

'It is my favorite thing that I do as a part of the University.'

'Everyone was very welcoming and we worked well as a team making the experience an enjoyable one.'

'I enjoyed the short few months so far doing it and am already looking forward to next year's outings. It has become an integral part of my week and I hope it continues and I can continue to contribute. '

'As a child, I would have reveled in an opportunity like this! I am so happy to be able to give children this wonderful experience and encouragement!'

'It's an amazing programme!'

















Cell EXPLORERS Fantastic DNA School Roadshow 2016

Schools visited by NUI Galway, UL, DkIT, ITT, & AIT teams

Partner teams NUI Galway Castlebar **University of Limerick** Dubli Athlone Institute of Technology M18 Institute of Technology MII Kilkenny Tralee Wexford Waterford **Dundalk Institute of** Technology

Map of Cell EXPLORERS Fantastic DNA school visits 2016

5 Teams

64 Volunteers

43 Schools

78 Classes

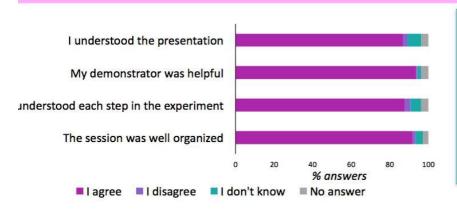
1881 children

1100 Children Feedback

50% boys 49% girls

50 Teacher Feedback

Children's Feedback on the Fantastic DNA session



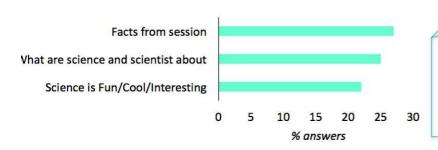
"I liked it because it was fun to learn"

"That I want to go back there [DkIT] in
the future"

"It was exciting and really cool the demonstrators put in a lot of work to make it exciting"

"Thanks and thanks for inspiring me to be a scientist"

What new things did you learn about science?



"DNA is like a spiral staircase And I want to be a scientist when I'm...!!OLDER!!"

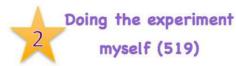
"I learned you need science for almost everything"

"The science can be fun and not hard"

"There are a lot of scientists and they don't always work in a lab"

What did you like best about Cell EXPLORERS session? (Top 3 answers)





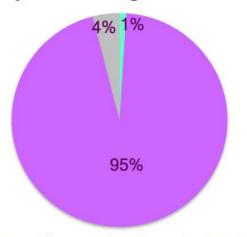


Meeting the Cell EXPLORERS scientists

Had you met a scientist before the Cell **EXPLORERS?**



Did you like meeting the scientists?



Why did you like meeting the scientists?

"They taught us a lot and it made science fun" "I liked meeting the Cell EXPLORERS because I never seen a scientist girl before" "It was fun to see real scientists" "They were brilliant at explaining and it was all fun experiments" "they have fun with their job"

Teacher feedback on Cell EXPLORERS visits

Top two MOST beneficial aspects of the visit as ranked by teachers:

- 1. The opportunity for each child to do an experiment (47%)
- 2. Interactions between the children & local 3rd level science demonstrators (26%)

Differences between CE & other science visits to school:

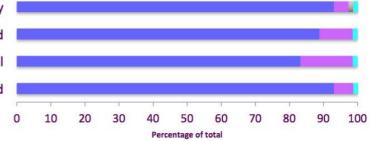
- CE is MORE hands on (10 Teachers)
- CE has MORE instructors (8 Teachers)
- CE has BETTER organization and MORE resources (5 Teachers)

Schools reported average annual science visits between 1 and 2.

'What did you think of the CE session?

Good balance between presentation and activity Demonstrators were well trained Content of session was well adapted to the children level Session was well organized

■ Strongly Agree ■ Agree ■ Disagree ■ No anwser



"Thanks for a wonderful workshop. Both the children and I really enjoyed it and learned a lot"

"very impressive demonstration and intriguing experiment that motivated and appealed to the children senses."

"The cell explorers approach the lesson in a very child friendly fashion, get the balance between activity, information exactly right."

"I thought that today's session was fantastic. The children learnt so much and also a greater interest in science was instilled in them."





NUI Galway Cell EXPLORERS sample activities & reach



























