



Science student makes discovery in fight against cancer

Young scientist Naomi Conlon has made a major breakthrough in the fight against cancer while on work placement.

The 17-year-old made the discovery with scientists undertaking genetic research at MRC London Institute of Medical Sciences, part of Imperial College London.

The research used experiments with *E. coli* to reveal that some information that regulates genes can also damage DNA causing it to be lost in cancer cells.

Scientists believe this will give them a much better understanding of what happens in the early stages of the disease.

Naomi, who is studying for an Applied Science Extended Diploma Level 3, said: "I never expected anything like this. I thought I would be just watching the experiments, but I have been involved in everything we did."

"It feels great to have contributed to a scientific breakthrough that could help fight cancer in the future."

Naomi hopes to study a degree in sports science at university when she finishes her diploma at CONEL and has aspirations to become a physio or sports psychologist.

She is expected to be named as a co-author in a leading scientific journal, in light of the findings.

MRC London Institute of Medical Sciences undertakes a wide range of research into genetics to advance understanding of biology and its application to medicine.

Dr Peter Sarkies, from MRC London Institute of Medical Sciences, said: "I have been very impressed with Naomi."



Science student Naomi Conlon made a discovery in the fight against cancer.

"She is a dedicated and conscientious student who has proved herself to be a real asset to my research team and a great ambassador for the T level programme as a whole."

Our Pass Rate

92.8% of Science students at the College of Haringey, Enfield and North East London achieved their qualifications in 2016-17.



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CONEL Science students offer health checks at National Junior Rowing Championships

Our Science students offered health checks to participants at the National Junior Indoor Rowing Championships (NJIRC) this March, which took place at Lea Valley Athletics Stadium.

Shoheb Payandeh, Level 3 Science student, said: "This was my first time doing health checks at a busy event. It was good experience to do a practical activity on the visitors of different ages measuring their heart rates and blood pressures."

Using a blood pressure monitor, the Level 3 and Level 1 students checked blood pressure and heart beats per minute. The students also measured lung capacity using a peak flow meter. From the results, the students were able to give appropriate advice to the young athletes depending whether or not their blood pressure and heart rate were found to be low, average or high, as well how well their lungs were able to push out air.

Saeema Khatri, Level 3 Science student, said: "I enjoyed the day. I want to get into Science so it was a great opportunity to get work experience, measuring the visitors' blood pressure and giving them health advice."

The NJIRC, organised by London Youth Rowing, is their annual flagship event where schools and colleges across the UK attend to compete. NUJIRC is the largest indoor junior rowing event in the world and it's a chance for many young rowers to enter their first competition.

Science teacher and Curriculum Manager, Ann Obatomi: "Work experience is an essential aspect of study at CONEL and we were delighted to be able to provide this for our students today as many of them want to work in health related industries. We also really enjoyed the event watching hundreds of excited young people competing on the indoor rowing machines."



CONEL Science students at the National Junior Indoor Rowing Championships



DISCOVER



Student Profiles: Tipped for Success

Svitlana Romanovas Access to Higher Education Diploma in Science

Svitlana studied Access to Higher Education Diploma in Science and distinguished herself by submitting well researched assignments at an excellent quality. She received Distinctions for all her Science units. Svitlana progressed to the University of East London where she is now studying for a degree in Podiatry.



Newton Ofei Applied Science Diploma Level 3

Newton volunteered as his class representative and achieved double Distinctions on his Applied Science Level 3 programme. Newton was a conscientious student with a strong work ethic and a 100% attendance and punctuality throughout his programme. Newton is now working and training as a Pharmacy Technician Advanced Apprentice, working for Pharmacy Warehouse.



Laurentine Dassidji Applied Science BTEC Extended Diploma Level 3

Laurentine excelled in all aspects of her Applied Science Extended Diploma. She completed her course with excellent grades and has progressed to Middlesex University where she is now studying for a degree in Biomedical Science.



Our learners achieve at College and go on to achieve at work and university

- Katazyna Ward now works as a Science Technician at a secondary school in Finchley after completing her Science BTEC Level 2 Diploma with the College.
- Fabiana Hayes is following her dream, studying Physiotherapy at Hertfordshire University.
- Zolyka Knight is studying for a Sports Science Degree at London Metropolitan University.
- Russell Group undergraduates: Daniel Corken - studying for a Chemistry Degree at Queen Mary University of London and Ayesha Ibrahim, studying for a degree in Biomedical Science at Bristol University - both stay in contact with the College as peer mentors.

20 Science students plant trees with OrganicLea at Enfield Centre

Four new trees planted as part of the creation of a new garden space at our Enfield Centre will benefit generations to come. The tree planting exercise tied in with one of the students' course units on bio-diversity.

OrganicLea believes 'Every school should be growing food and helping to develop food-growing projects'.

The food-growing project based in North London educates young people about sustainable food growth through theoretical and practical workshops.

One student said: "This workshop has taught me how to grow my own fruit and given me ideas in the long-term on how I could save money."



Environmental campaigners, Friends of the Earth visited a Science Level 2 group to talk about Divestment – an initiative to get organisations to redirect funds away from fossil fuels. They explained the issues behind Divestment and what's causing climate change. They also talked about what people can do themselves in terms of making their homes and how they travel more energy efficient.

Student Simran Kasba (pictured) said "The session was interesting, and I learnt a lot about the earth". Class tutor David Dane said "I think the session was extremely successful and raised a lot of issues that perhaps people were not as aware about, 'such as the impact of fossil fuels and climate change."



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