

NUMBERS

Up to 16 students in the lab (working in pairs).

COST

£3 per student (Half day) £6 per student (Full day)

BOOKING

Fill out the enquiry form at

www.bioknex.org/lab

Or send an email to info@bioknex.org

Or telephone 0115 912 4472

We need to know :- The name of the school and a named person's contact details; the workshops you are interested in; the number, and school year of students to attend and the preferred date.

Confirmation of the booking and details of the visit will be sent via email.

SAFETY

All workshop activities and premises are risk-assessed. (Details are available after registering for a visit.)

VISITING BIOCITY

Located in Nottingham city centre (just behind the Ice Arena), it is close to rail and bus links. There is ample parking space available.

Our mission is to make practical bioscience easily accessible to young people, in order to enthuse and inspire the scientists of our future.



PROJECT PART
FINANCED BY THE
EUROPEAN UNION



east midlands
development agency
the catalyst for change

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bioknex

Bioscience Education Lab

An exciting opportunity for students to do practical workshops related to today's cutting edge bioscience industry.



www.bioknex.org/lab

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Enhance the science learning experience

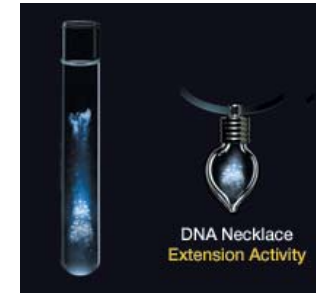
for your students by visiting a high specification lab at BioCity (the U.K's largest bioscience innovation and incubator centre).

The Workshop Activities

Bottle your own DNA and make a necklace

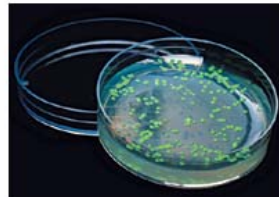
(KS3/4)

Whether it's being cloned, sequenced, fingerprinted, mapped, or genetically engineered, DNA has become an everyday topic in the media and the classroom. In this workshop students extract their own DNA from their cheek cells and put it in a small bottle to make a necklace.



Genetically engineer glowing bacteria - Shine a Little Light on Your Molecular Biology

(KS3/4)



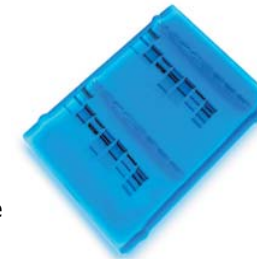
Students genetically re-engineer bacteria with the genes from a bioluminescent jellyfish. The new trait is visible as a neon glow under UV light.

Solve a murder mystery using DNA fingerprinting

(KS4/A-level)

This workshop allows students to play the role of a forensic scientist and make a positive identification simulating the use of real DNA evidence to figure out for themselves, "Who done it?"

In this activity, students analyse six different DNA samples. One is from a 'crime scene' and five are from 'suspects'. After digesting the samples with DNA restriction enzymes and separating them using agarose gel electrophoresis, students can compare the DNA restriction fragment patterns and match the suspect to the crimescene.



ALSO AVAILABLE

Have your students amplify and analyze their own DNA and compare it with other populations around the world. (KS4/A level)

Reveal evolutionary patterns using protein fingerprinting (KS4/A level)

Simulate real-world HIV testing using the ELISA Immuno Explorer Kit—Biology's Magic Bullet (KS4/A level)

Find out if your foods have been genetically modified (KS4/A level)

The fully risk assessed workshops

are based on half day or full day activities. They are facilitated by experienced scientists (although the lab and resources are available for schools and colleges to hire for their own use).

Aimed at 14+ and 16+ students throughout the East Midlands, this is a chance to do some 'exciting' topical practical bioscience related to their course but is not normally facilitated in the school/college environment.

These workshops are based on the kits available from **Bio-Rad**. For more detailed descriptions go to their website

www.bio-rad.com

A 'Meet the Scientist' session

is also available (by prior arrangement upon request). Students get a chance to gain an insight into the bioscience industry from people with first-hand experience.