

Institute of Biology of Ireland Activity Series, 2015



The Institute of Biology of Ireland, as part of the 2015 activity series, invites its members, families, friends and the general public to attend this free lecture.

Lecture: Canine Genetics: How man's best friend helps in the study of human disease

**Presenter: Dr Kay Nolan, Senior Lecturer,
School of Biology and Environmental Science, UCD**

Date and Time: Friday, November 20th 2015 @ 8pm

Location: Lecture Theatre, National Botanic Gardens, Glasnevin, D9

About the lecture content:

Dogs are domestic animals that descended from the grey wolf about 15 thousand years ago. Over the last few hundred years, humans have generated a number of dog 'breeds' by selecting for desirable traits, either physical traits (eg size, shape, hair length or colour) or behavioural characters (herding, pointing, retrieving etc). As a downside of this selection, many breeds also display pre-dispositions to certain diseases. With the advent of high throughput DNA sequencing, the genetic basis of the differences between dog breeds and of their genetic diseases is being elucidated. Many canine diseases are similar to human conditions and, as a result, the information emerging from these studies is helping us understand the genetic basis of complex human disease.

About the presenter:

Dr Kay Nolan received her BSc and PhD (both in Zoology) from UCD. She is currently Senior Lecturer in UCD's School of Biology and Environmental Science where she contributes to the BSc Programme (Cell and Molecular Biology, Genetics and Zoology) and to the MSc programme in Evolutionary Biology. Her current research addresses the genetic basis of canine disease, the role of cell signalling in animal development and the evolution of genomic imprinting.

Getting to the National Botanic Gardens

GPS users

either use the garmin loc8 system with this code: **NP7-57-F53**
or input the following latitude **53.3717** and longitude **-6.2696**

By Bus:

4 ([Route Map](#) Harristown, Ballymun, Botanic Ave., Phibsboro Shopping Centre, O'Connell St., Pembroke Rd., Blackrock, Stradbrook)

9 ([Route Map](#) Limekiln Ave. South Circular Rd. O'Connell St. Botanic Rd. Beneavin Rd. Charlestown)

83 ([Route Map](#) Kimmage {Sundrive road, Rathmines} / Harristown {Ballygall Road East}

For any other starting points in Dublin, use Hittheroad.ie which is an excellent website showing you how to get between any two points in Dublin City, using a smart combination of Dublin Bus, Luas and DART routes.

By Car, Bike or on Foot:

From the south, or City centre: leave Dublin via the Drumcondra road (N1) and turn left at Botanic Avenue (Fagan's pub), just before crossing the river Tolka. At end of Botanic Avenue turn left at T-junction

ALTERNATIVELY, leave the city via Phibsborough, on the Finglas road (N2). Just after passing over the Royal Canal, follow the one way system around Hart's corner, turning right, then left onto Botanic Road. At the bottom of the hill turn left at the traffic lights. The Botanic Gardens are 100m past this junction and on the left.

Car parking facilities are available: Hours 1 and 2: €1 per hour; Hours 3 onwards: €2 per hour.

Visit www.ibioli.net for more information on the activities and role of the Institute of Biology of Ireland.

