** **

**Foundation Masterclasses 2022/23**

**Introduction to Chemistry for Biologists**

*Optional* *for first- and second-year EASTBIO students*

**Workshop leaders**: **Dr** **Sergio Dall’Angelo** and **Dr** **Wael Houssen** (Institute of Medical Sciences, University of Aberdeen)

**Date**: 10 March 2023, 11:00-16:00

**Venue**: Level 7 Conference Room, [Institute of Medical Sciences Building](https://www.abdn.ac.uk/about/documents/Foresterhill-Campus.pdf) (Foresterhill Campus, @11 on the linked map), Aberdeen

**Workshop description / Learning outcomes:**

This workshop will give the students an overview of:

1- Introduction to organic chemistry (types of chemical bonds, functional groups and their chemical transformation)

2- Chemistry of biomolecules (DNA, RNA, proteins and lipids)

3- Basic analytical techniques (NMR and UV spectroscopy, Mass spectrometry)

No previous knowledge on these topics is required.

**Training Schedule**:

|  |  |  |
| --- | --- | --- |
| 11:00-11:15 | Welcome | SD, WH |
| 11:15-12:00 | Introduction to Chemistry and Organic Chemistry | SD |
| 12:00-13:00 | Proteins chemistry  | WH |
| 13:00-14:00 | Lunch break |  |
| 14:00-14:30 | DNA & RNA chemistry | SD |
| 14:30-15:00 | Lipids chemistry | SD |
| 15:00-15:45 | Molecules characterisation techniques (NMR, UV, and MS) | WH, SD |
| 15:45-16:00 | Final Q&A and closing remarks | WH, SD |

*Questions and discussion will be encouraged during each session*

**Participation requirements:**

No prerequisite knowledge of organic chemistry is required.

**Training webpage:** <http://www.eastscotbiodtp.ac.uk/foundation-masterclasses>

For further info or any questions, please email enquiries@eastscotbiodtp.ac.uk