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**EASTBIO DTP Foundation Masterclasses 2020-21**

**Introduction to Matlab**

**Masterclass leader:** Dr Søren K. Andersen (University of Aberdeen)

**Date**: 13 November 2020, 10:00-17:00

Masterclass to be delivered online (link to be sent to participants by EASTBIO)

**Learning outcomes:**

1. Enable students with minimal prior coding experience to perform simple computations in Matlab;
2. Convey an overview of the specific strengths and weaknesses of Matlab.

**Proposed schedule:**

9:50-10:00 *Welcome*

10:00-12:00 Basics, Math & Variables (Presentation & Exercise 1)

12:00-13:00 *Screen break*

13:00-15:00 Logical Operators, Scripts, Functions and Flow Control (Presentation & Exercise 2)

15:00-15:30 *Screen break*

15:30-17:00 Statistics and Plotting (Presentation & Exercise 3)

17:00 *Close*

Matlab (Matrix Laboratory) is a numerical computing platform and a programming language. Matlab’s powerful basic capabilities can be extended by a variety of commercial and open source toolboxes and it is widely used in many fields of science and engineering.

The present course provides an introduction to Matlab and requires minimal previous knowledge. Through a combination of presentations and hands-on exercises, participants will gain a knowledge of the Matlab syntax and learn how to perform simple calculations and plot data. Exercises will include optional challenges for participants who already have some programming skills.

**Requirements**: All participants are requested to attend with a laptop computer with Matlab (or its freely available clone Octave) installed.

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