



This is to certify that **Valerii Darmostuk** participated

ForBio course: DNA barcoding - from sequences to species

[online course]

February 15–19, 2021

The five-day course program was comprised of lectures, seminars, and practical exercises. The aim of the course was to give students the theoretical and practical background to understand, perform and critically evaluate the use of DNA barcodes and DNA barcoding in biodiversity research. Students received hands-on experience on how to handle biodiversity data available through open access databases. The following topics were covered: Species identification and delimitation with DNA, characteristics of barcode reference databases, major uses of DNA barcode data in biodiversity science and management, opportunities and challenges with DNA barcoding of plants, quality assurance and quality control of barcode reference libraries, DNA barcodes in integrative taxonomy, challenges for international genetic projects in the light of international agreements on access and benefit sharing of genetic resources (e.g. the Nagoya Protocol), and the future of DNA barcoding in biodiversity research.

The total course workload was 70 hours including 30 hours of preparatory reading and 40 hours onsite lectures, exercises, seminars, and reading.

The course was taught by Prof. Torbjørn Ekrem (NTNU University Museum), Dr. Filipe Costa (University of Minho), Dr. Mika Bendiksby (NTNU University Museum), Dr. Rakel Blaalid (Norwegian Institute for Nature Research), Prof. Pete Hollingsworth (Royal Botanic Garden Edinburgh).

April 08, 2021, Trondheim, Norway

Dr. Elisabeth Stur
ForBio Coordinator

Prof. Torbjørn Ekrem
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