

## Report

### Task:

Task 1. Organisation of mobilities

Task 2. Subsidising participation in international conferences

### Participant's first and last name, academic degree and title:

Ewa Grochowska, D.Sc.

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### University name:

Bydgoszcz University of Science and Technology

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### Faculty/Department name:

Faculty of Animal Breeding and Biology

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### Implementation period:

03/11/2021 – 01/02/2022

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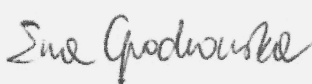
### Description of actions implemented within the task:

The aim of the mobility was to complete a three-month research internship entitled “Next-generation sequencing data analysis” in the Center for Quantitative Genetics and Genomics at Aarhus University (Denmark). The tasks implemented during the internship covered: 1/ introduction to bioinformatics; 2/ self-study assignment; 3/ the analysis of next-generation sequencing (NGS) data generated in two projects (including one funded by the National Science Centre in Poland, grant no. UMO-2020/37/B/NZ9/00497), 4/ preparation of a draft manuscript on muscle transcriptomes and differently expressed genes (DEG) in sheep, 5/ co-supervising the PhD student at Aarhus University within MonoGutHealth (MGH) project (Horizon2020); 6/ participation in three supervisor meetings with PhD student enrolled in MGH project; 7/contribution to a review article about the influence of thermal manipulation during embryogenesis on chicken muscle development; 8/ providing an oral presentation about Faculty of Animal Breeding and Biology and Department of Animal Biotechnology and Genetics; 9/providing an oral presentation entitled “Effect of in ovo administration of bioactive substances on the chicken epigenome in the intergenerational and transgenerational approach”; 10/ participation in QGG forum meeting.

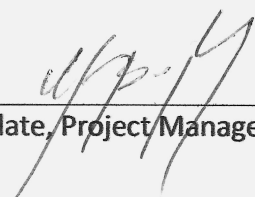
**Description of results obtained during the implementation of the task:**

<p><b>Short-term:</b></p>	<ul style="list-style-type: none"> <li>• Gaining new knowledge about the bioinformatic analysis of NGS data.</li> <li>• Learning and the implementation of bioinformatic pipelines in transcriptomic and epigenomic research.</li> <li>• Obtaining results for differently expressed genes in two research projects.</li> <li>• Delivering two draft manuscripts (one research article and one review paper).</li> </ul>
<p><b>Long-term:</b></p>	<ul style="list-style-type: none"> <li>• Transfer of new knowledge in the field of bioinformatics.</li> <li>• Development and implementation of bioinformatic pipelines in omics study.</li> <li>• Plan of development of bioinformatics workshop in the Department of Animal Biotechnology and Genetics.</li> <li>• Setting the cooperation with members of the Center for Quantitative Genetics and Genomics (QGG) at Aarhus University.</li> <li>• Development of a cooperation plan with QGG members focusing on joint projects performance and writing common research publications.</li> </ul>

10/02/2022



date, Beneficiary signature



date, Project Manager signature