



ABCDE



## Scientific Report

First name / Family name

Alexander Turner

Nationality

British

Name of the *Host Organisation*

NTNU

First Name / family name  
of the *Scientific Coordinator*

Pål Sætrom

Period of the fellowship

01/03/2014 to 30/11/2014



## **I – SCIENTIFIC ACTIVITY DURING YOUR FELLOWSHIP**

The activity followed two distinct tracks. The first was to generate an understanding of how epigenetic mechanisms function in biological organisms. This was achieved via the analysis of specific epigenetic marks in conjunction with gene expression profiles during stem cell differentiation. We then conducted experiments to understand how the epigenetic marks influenced gene expression.

The second track was to use this information to redesign the model developed during my previous research (the artificial epigenetic network) to improve its biological realism and its computational abilities.

## **II – PUBLICATION(S) DURING YOUR FELLOWSHIP**

One paper is planned to capture the first track of research and is in its first draft. The completion of this paper will remain of high importance until completion, regardless of time scales.

## **III – ATTENDED SEMINARS, WORKSHOPS, CONFERENCES**

A single conference was attended. The SocBiN Bioinformatics conference, Oslo, 11-13<sup>th</sup> June 2014. The conference proved highly informative and gave a solid underpinning of the current state of bioinformatics research.

## **IV – RESEARCH EXCHANGE PROGRAMME (REP)**

Not attended due to termination of contract because of the acquisition of another position.