



Details of the Collaborative Activity

2020-2021

Name of the Collaborating Institute: Central University of Kerala

Name of collaborating Department: Yenepoya Research Centre

1. Joint Research Project : Ongoing

Title: Influence of Vitamin D on early cell-fat decisions of human pluripotent stem cells. Funded by DBT, Govt of India (2019-2022)

Collaborators: Dr. Smitha Sudheer, CUK and Dr. Raghu Bhushan, YRC

2. Joint Research Publication

Sweta S, Dudnakova T, Sudheer S, Baker A, Bhushan R Importance of long noncoding RNAs in the development and disease of skeletal muscle and cardiovascular lineages. *Frontiers in Cell and Developmental Biology section Stem Cell*. 2021

ATTESTED


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No. BT/PR29717/PFN/20/1361/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 18 / 03 / 2014

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**Influence of Vitamin D on early cell-fate decisions of human Pluripotent Stem Cells**" for a period of 3 Year 0 Month at a total cost of Rs. **4501000** (Rupees Fourty Five Lakhs One Thousand Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Influence of Vitamin D on early cell-fate decisions of human Pluripotent Stem Cells"

2.2 Details of the Investigators:

Project Cordinator

Dr. Smita Sudheer
Assistant Professor
Genomic Science
Central University Kerala
Smita Sudheer
Assistant Professor (Genomic Science)
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Periye (PO),
Kasaragod (DT),
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Principal Investigators:

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CO-PI:

Dr. Raghu Bhushan
Assistant Professor
Yenepoya Research Centre
Yenepoya University, Deralakatte
Yenepoya Research Centre, Yenepoya
University, Deralakatte, Mangalore, India,
Mangalore - 575018, Karnataka

2.3 Objectives:

Overall Objectives:

1. Investigate the status and effect of Vitamin D in Pluripotent Stem Cells and during their specification towards early embryonic and extraembryonic lineages (Endoderm, Mesoderm, Neuroectoderm, Trophoblast, Neuromesodermal progenitors (NMPs), Presomitic mesoderm (PSM))
2. Understand the influence of Vitamin D signalling on pluripotency or differentiation of PSCs using systems level approach (RNA transcriptomics)

Institute wise Objectives:

Central University Kerala

1. Investigate the status and effect of Vitamin D in Pluripotent Stem Cells and during their specification towards early embryonic and extraembryonic lineages (Endoderm, Mesoderm, Neuroectoderm, Trophoblast, Neuromesodermal progenitors (NMPs), Presomitic mesoderm (PSM))
2. Understand the influence of Vitamin D signalling on pluripotency or differentiation of PSCs using systems level approach (RNA transcriptomics)

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **4501000/-** (Rupees Forty Five Lakhs One Thousand Only) as per details given below :

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