Identification of Molecular Signatures and Therapeutic Targets
in Gastric Cancer Through RNA-Seq Data Analysis and Pathway Analysis

A project report
Submitted to the Guru Nanak Dev University, Amritsar
in the partial fulfilment of the requirement for the

DEGREE OF MASTER OF SCIENCE
IN

BIOINFORMATICS

(2022-2024)

<div style="display:flex; justify-content:space-between;">

<div>

Supervised by:
Mrs. Sonalika Ray
&
Dr. Harpreet Singh

</div>

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Submitted by:
Ms. Tania Sethi
University roll no.: 20662230103

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PG Department of Bioinformatics
HANS RAJ MAHILA MAHA VIDYALYA, JALANDHAR
Pursued through
OMICSLOGIC & Tauber Bioinformatics

Dated: 21.05.2024

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Tania Sethi**, University roll no. **20662230103**, has been a bonafide student of **M. Sc. Bioinformatics Sem. 4th** in this college. She has completed the Major Research Project entitled "**Identification of Molecular Signatures and Therapeutic Targets in Gastric Cancer through RNA-Seq Data Analysis and Pathway Analysis**" under the guidance of **Mrs. Sonalika Ray**, Bioinformatics Scientist, OmicsLogic Inc. and **Dr. Harpreet Singh**, Assistant Professor in Bioinformatics, HMV Jalandhar.

The project is being submitted as the partial fulfillment of requirements for the award of degree "**Master of Sciences in Bioinformatics**".

Her conduct was satisfactory during the project. I wish her all success in life.

Principal
Hans Raj Mahila Maha Vidyalaya
Jalandhar City

Deciphering Heterogeneity and Cellular Crosstalk in Non-Small Cell Lung Cancer (NSCLC) through Single Cell RNA Sequencing Analysis (scRNA-seq Analysis)

A project report
Submitted to the Guru Nanak Dev University, Amritsar
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IN
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(2022-2024)

Supervised by:
Mrs. Sonalika Ray
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A++ GRADE BY NAAC — HIGHEST SCORE NATIONWIDE

Dated: 21.05.2024

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Pallavi Jain**, University roll no. **20662230102**, has been bonafide student of **M. Sc. Bioinformatics Sem. 4ᵗʰ** in this college. She has completed the Major Research Project entitled "**Deciphering Heterogeneity and Cellular Crosstalk in Non-Small Cell Lung Cancer (NSCLC) Through Single-Cell RNA Sequencing Analysis**" under the guidance of **Mrs. Sonalika Ray**, Bioinformatics Scientist, OmicsLogic Inc. and **Mrs. Purnima**, Assistant Professor in Bioinformatics, HMV Jalandhar.

The project is being submitted as the partial fulfillment of requirements for the award of degree "**Master of Sciences in Bioinformatics**".

Her conduct was satisfactory during the project. I wish her all success in life.

Principal
Hans Raj Mahila Maha Vidyalaya
Jalandhar City

RNA-Seq Analysis and Pathway Mapping in Hepatocellular Carcinoma (HCC)

A project report
Submitted to the Guru Nanak Dev University, Amritsar
in the partial fulfilment of the requirement for the

DEGREE OF MASTER OF SCIENCE
IN

BIOINFORMATICS

(2022-2024)

Supervised by:
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&
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Submitted by:
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Dated: 21.05.2024

TO WHOM IT MAY CONCERN

This is to certify that **Mrs. Jagroop Kaur**, University roll no. **20662230101**, has been a bonafide student of **M. Sc. Bioinformatics Sem. 4th** in this college. She has completed the Major Research Project entitled **"RNA-Seq analysis and pathway mapping in hepatocellular carcinoma (HCC)"** under the guidance of **Mrs. Sonalika Ray**, Bioinformatics Scientist, OmicsLogic Inc. and **Mrs. Purnima**, Assistant Professor in Bioinformatics, HMV Jalandhar.

The project is being submitted as the partial fulfillment of requirements for the award of degree **"Master of Sciences in Bioinformatics"**.

Her conduct was satisfactory during the project. I wish her all success in life.

Principal
Hans Raj Mahila Maha Vidyalaya
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