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Ref. No. : BVDU/RGIITBT/256 / 20 20-20 21

Date : 29/07/21

Certificate

This is to certify that the project dissertation entitled, "Analysis of viral genomic data with Bio python and Scikitbio" to be submitted by **Pranay Shinde** (PRN No. - 1916120032) for the partial fulfillment of M.Sc. (Bioinformatics) degree of Bharati Vidyapeeth Deemed University, Pune is absolutely based upon his own work which has been undertaken with my supervision since March 2021 to June 2021. Neither this dissertation nor any part of it has been submitted for any degree or diploma elsewhere.

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This is to certify that the project dissertation entitled, "Cell Type Mapping of Glioblastoma by Recursive Consensus Clustering" to be submitted by Shatakshi Shukla (P.R.N. - 1916120031) for the partial fulfillment of M.Sc. (Bioinformatics) degree of Bharati Vidyapeeth Deemed University, Pune is absolutely based upon his own work which has been undertaken with my supervision since March 2021 to June 2021. Neither this dissertation nor any part of it has been submitted for any degree or diploma elsewhere.

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This is to certify that the project dissertation entitled, "Biodiversity Data Analysis Tool" to be submitted by **Gayatri Joshi** (PRN No. -1916120049) for the partial fulfillment of M.Sc. (Bioinformatics) degree of Bharati Vidyapeeth Deemed University, Pune is absolutely based upon his own work which has been undertaken with my supervision since March 2021 to June 2021. Neither this dissertation nor any part of it has been submitted for any degree or diploma elsewhere.

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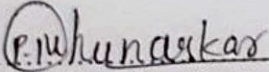
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This is to certify that the project dissertation entitled, "Screening of bioactive molecules of Madhav Rasayan and its molecular docking study against SARS-cov-2 structurally conserved NSP." to be submitted by **Gauri Mahadik** (PRN No. -1916120030) for for the partial fulfillment of M.Sc. (Bioinformatics) degree of Bharati Vidyapeeth Deemed University, Pune is absolutely based upon his own work which has been undertaken with my supervision since March 2021 to June 2021. Neither this dissertation nor any part of it has been submitted for any degree or diploma elsewhere.



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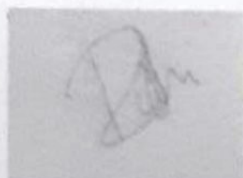
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This is to certify that the project dissertation entitled, "Studying phenotypical characteristics of smoker and non-smoker in European population using Nextflow GWAS analysis" to be submitted by **Bhavya Saini (PRN No.- 1916120046)** for the partial fulfillment of M.Sc. Bioinformatics degree of Bharati Vidyapeeth Deemed University, Pune is absolutely based up on her own work which has been undertaken with my supervision since January' 2021 to June' 2021. Neither this review dissertation nor any part of it has been submitted for any degree or diploma elsewhere.



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This is to certify that the project dissertation entitled, "Structure based screening of naturally occurring databases against SARS CoV-2 for successful inhibition of papon like proteases", to be submitted by **Ritisha Gupta (PRN No. - 1916120044)** for the partial fulfillment of M.Sc. (Bioinformatics) degree of Bharati Vidyapeeth Deemed University, Pune is absolutely based upon his own work which has been undertaken with my supervision since March 2021 to June 2021. Neither this dissertation nor any part of it has been submitted for any degree or diploma elsewhere.

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This is to certify that the project dissertation entitled, "Design, Molecular Modelling, Structure Activity Relationship, and ADMET analysis of modified NSAIDs as novel COX-2 selective Inhibitors" to be submitted by Nidhi Verma (PRN No. - 1916120043) for the partial fulfilment of M.Sc. (Bioinformatics) degree of Bharati Vidyapeeth Deemed University, Pune is absolutely based upon her own work which has been undertaken with my supervision since November' 2012 to April' 2013. Neither this review dissertation nor any part of it has been submitted for any degree or diploma elsewhere.

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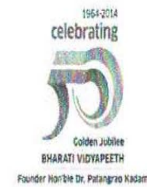
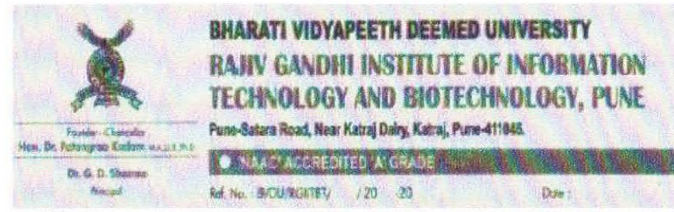
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Certificate

This is to certify that the project dissertation entitled, " **Classifying Onco-Gene Variants for Cancer Class and Applications in Personalized Medicine**" to be submitted by **Pratibha Sharma** (Roll No. - 1916120042) for the partial fulfillment of M.Sc. (Bioinformatics) degree of Bharati Vidyapeeth Deemed University, Pune is based upon her own work which has been undertaken with our supervision since March' 2021 to June' 2021. Neither this review dissertation nor any part of it has been submitted for any degree or diploma elsewhere.

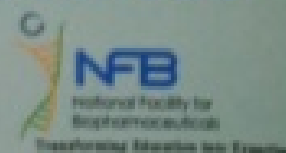
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Project sponsored by
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CERTIFICATE

This is to certify that the project dissertation entitled, "EXCAVATING THE SURFACE-ASSOCIATED AND SECRETORY PROTEOME OF *Mycobacterium tuberculosis* FOR IDENTIFYING VACCINES AND DIAGNOSTIC MARKERS RELEVANT IMMUNODOMINANT EPITOPES" to be submitted by Ms. Sneha Tasildar (Roll No. -1916120047) for the partial fulfillment of M.Sc. (Bioinformatics) degree of Bharati Vidyapeeth Deemed University, Pune is absolutely based upon her own work which has been undertaken with my supervision since January 2021 to June 2021. Neither this review dissertation nor any part of it has been submitted for any degree or diploma elsewhere.



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