



**YENEPOYA**

(DEEMED TO BE UNIVERSITY)

Recognized under Sec 3(A) of the UGC Act 1956

Accredited by NAAC with 'A' Grade

## Details of the Collaborative Activity

2017-2020

**Name of the Collaborating Institute:** Dr. D.Y. Patil Medical College Hospital and Research Centre, Dr. D. Y. Patil Vidyapeeth, Pune.

**Name of the Collaborating Department:** Yenepoya Research Center (YRC)

### Activities:

#### Joint Research Project:

Dr. Keshav Prasad, Dr. Prashanth Modi and Dr. Shobha D from YRC were involved in a Joint Research with Dr. Chandrashekar Rout, Dr. D.Y. Patil Medical College Hospital and Research Centre for the project entitled "*Decoding the host response to COVID-19 for development of novel antiviral therapeutics*". This project was submitted to the Intensification of Research in Higher Priority Areas (IRHPA) program of Science and Engineering Research Board (DST-SERB) in 2020.

#### Research training and Research Facility usage

Mr. Deepak Sawant, Ph. D Scholar from Prof. Dr. Shivaji H Pawar Laboratory, DY Patil University, Maharashtra completed a research project on the "Development of nano-biosensor for detection of mycobacterium related tuberculosis diseases" under the guidance of Dr. Rekha PD from 11.02.2018 to 01.03.2018 in Yenepoya research Center.

ATTESTED

Dr. Mangadhara Somayaji K S  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore 575 018, Karnataka.

**Dr. P. D. Patil**  
President

**Dr. J. S. Bhawalkar**  
Dean

Ref. No. : DYPMC/ 01/1879/2020

Date : 28/04/2020

Grants Review Committee  
SERB IRHPA

Dear Colleagues,

#### Re: Collaboration on COVID-19

This is to confirm our collaboration with Dr. Richard K. Kandasamy and Dr. T. S. Keshava Prasad on the project, "DECODING THE HOST RESPONSE TO COVID-19 FOR DEVELOPMENT OF NOVEL ANTIVIRAL THERAPEUTICS" which will be submitted to The Intensification of Research in High Priority Areas (IRHPA) program of Science and Engineering Research Board (SERB). Dr. Kandasamy proposes a systematic survey of the Secretome, metabolome and host signaling dynamics of SARS-CoV-2 infection to get the molecular footprint of COVID-19 to develop novel host-directed therapeutics.

We are in a unique position to contribute to the proposed studies with Dr. Kandasamy and Dr. Prasad at Centre for Systems Biology and Molecular Medicine (CSBMM), Yenepoya Research Centre. Our group houses complementary research focus and the necessary infrastructure including the BSL-3 laboratories (with our coinvestigator – PSVPL, Narayangaon, Pune). We will be supporting to each other for performing the virology experiments, sample preparation as well as follow-up experiments associated with this proposal and, overall, I do not foresee any major obstacles in accomplishing the goals of the project.

We are looking forward to an exciting and interesting collaboration with Dr. Kandasamy and Dr. Prasad from CSBMM.

Sincerely,



Dr. J. S. Bhawalkar  
Dean

**DEAN**

**Dr. D. Y. Patil Medical College,  
Pimpri, Pune - 411018.**

ATTESTED

Dr. Gangadhara Somayaji K.S.  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Derlakatte  
Mangalore - 575 018, Karnataka



Certificate from the Investigators (PI & all Co-PIs)

Project Title: DECODING THE HOST RESPONSE TO COVID-19 FOR DEVELOPMENT OF NOVEL ANTIVIRAL THERAPEUTICS

It is certified that

1. The same project proposal has not been submitted elsewhere for financial support or is currently under progress with financial support from any funding agency.
2. The research work proposed in the scheme/project is not duplicate or significantly overlap with the work already done or being carried out elsewhere on the same topic.
3. We undertake that equipment procured in the project will be notified through SERB website and be made available to other users in spare time whenever possible.
4. We certify that the proposal in part or full is free from plagiarism and conforms to all ethical norms of SERB.
5. We agree to submit a certificate from Institutional Biosafety Committee, if the project involves the utilization of genetically engineered organisms. We/I also declare that while conducting experiments, the Biosafety Guidelines of Department of Biotechnology, Department of Health Research, Ministry of Environment Forest and Climate Change, GOI would be completely followed.
6. We agree to submit ethical clearance certificate from the concerned ethical committee, if the project involves field trials/experiments/exchange of specimens, human and animal materials etc.
7. We agree to abide by the terms and conditions of SERB grant including (a) submission of progress report, utilization certificate and statement of expenditure as per SERB norm, and (b) utilization of fund (purchase, travel, staff, etc.).
8. Intellectual property (IP) generated in this project will be shared and governed by the existing norm of the host Institute/University without violating the SERB norms.

Signature:

Signature:

(Principal Investigator)

Dr. Richard K. Kandasamy

Adjunct Professor

Yenepoya (Deemed to be University)

(Principal Investigator and Project Coordinator)

Dr. T. S. Keshava Prasad

Professor and Deputy Director

Yenepoya (Deemed to be University)

(Co-Investigator)

Dr. Shobha Dagamajalu

Assistant Professor

Yenepoya (Deemed to be University)

(Co-Investigator)

Dr. Prashant Modi

Assistant Professor

Yenepoya (Deemed to be University)

(Co-Investigator)

Dr Nitin C. Salvi

Deputy General Manager &

Head Quality Control

Premium Serums & Vaccines Pvt. Ltd.,

Narayangaon, Dist. Pune,

Maharashtra-410504, India.

(Co-PI)

Dr. Chandrashekhar G Raut

Director- Interdisciplinary Research

Dr. D Y Patil Medical College Hospital and

Research Centre,

Pimpri, Pune-411018

ATTESTED

Note: This document has to be signed by all investigators (PI and all Co-PIs)

Dr. Gangadhara Somayaji K.S.  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 018, Karnataka

Ref. No. : DYPMC/D/O/1880/2020

Date : 28/04/2020

### Endorsement from the Head of the Institution of PI

(To be given on University/ Institute/Organization/College Letter head)

This is to certify that:

1. Institute welcomes participation of Name : Dr. Chandrashekhar Raut Designation : Director as the Co-Principal Investigator and Dr. Nitin C Salvi, Deputy General Manager from Premium Serums & Vaccine Pvt Ltd, Narayangaon, Pune as the Co- Investigator/s for the project titled *DECODING THE HOST RESPONSE TO COVID-19 FOR DEVELOPMENT OF NOVEL ANTIVIRAL THERAPEUTICS* and that in the unforeseen event of discontinuance by the Principal Investigator, the Co-Investigator will assume the responsibility of the fruitful completion of the project with the approval of SERB.
2. The Co-PI, Dr. Chandrashekhar Raut is a permanent or regular employee of this Institute/University/Organization and has ten years of regular service left before superannuation.
3. The project starts from the date on which the University/Institute/ Organization/College receives the grant from SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi.
4. The investigator will be governed by the rules and regulations of University/ Institute/Organization/College and will be under administrative control of the University/ Institute/Organization/College for the duration of the project.
5. The grant-in-aid by the SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi will be used to meet the expenditure on the project and for the period for which the project has been sanctioned as mentioned in the sanction order.
6. No administrative or other liability will be attached to SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi at the end of the project.
7. The University/Institute/Organization/College will provide basic infrastructure and other required facilities to the investigator for undertaking the research project.
8. The University/ Institute/Organization/College will take into its books all assets created in the above project and its disposal would be at the discretion of SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi.
9. The University/ Institute/Organization/College assumes to undertake the financial and other management responsibilities of the project.

Seal of

University/ Institute/Organization/College

Date:28/04/2020

ATTESTED



Dr. Gangadhara Somayaji K.S.  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 018, Karnataka

Registrar of University/Head of the Institute/  
Head of organization / Principal of College

**DEAN**  
**Dr. D. Y. Patil Medical College,**  
**Pimpri, Pune - 411018.**





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### Endorsement from the Head of the Institution of PI

This is to certify that:

1. Institute welcomes participation of Name :**Dr. Richard K. Kandasamy** Designation : **Adjunct Faculty and Professor** as the **Principal Investigator** and **Dr. T. S. Keshava Prasad, Professor and Deputy Director** as the **Principal Investigator and Project Coordinator**; and **Dr. Shobha Dagamjalu and Dr. Prashant Modi, Assistant Professors** as the Co-Investigators for the project titled **"DECODING THE HOST RESPONSE TO COVID-19 FOR DEVELOPMENT OF NOVEL ANTIVIRAL THERAPEUTICS"** and that in the unforeseen event of discontinuance by one Principal Investigator, one of the other Principal Investigator or Co-Investigators will assume the responsibility of the fruitful completion of the project with the approval of SERB.
2. The PI, **Dr. Richard K. Kandasamy** is an Adjunct Faculty and Professor. The PI and Project Coordinator, **Dr. T. S. Keshava Prasad** is a permanent or regular employee of this University and has fifteen years of regular service left before superannuation. Other Coinvestigators, **Dr. Shobha Dagamjalu and Dr. Prashant Modi** are also regular employee of this University and have twenty-four and twenty years, respectively, of regular service left before superannuation.
3. The project starts from the date on which the University receives the grant from SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi.
4. The investigator will be governed by the rules and regulations of University and will be under administrative control of the University for the duration of the project.
5. The grant-in-aid by the SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi will be used to meet the expenditure on the project and for the period for which the project has been sanctioned as mentioned in the sanction order.
6. No administrative or other liability will be attached to SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi at the end of the project.
7. The University will provide basic infrastructure and other required facilities to the investigator for undertaking the research project.
8. The University will take into its books all assets created in the above project and its disposal would be at the discretion of SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi.
9. The University/ Institute/Organization/College assumes to undertake the financial and other management responsibilities of the project.

Date: 27.04.2020

ATTESTED

Dr. Gangadhara Somayaji K.S.  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 018, Karnataka



Dr. Gangadhara Somayaji K.S.

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# D. Y. PATIL UNIVERSITY, KOLHAPUR

D. Y. PATIL EDUCATION SOCIETY, KOLHAPUR

(Deemed to be University Declared u/s of 3 of the UGC Act 1956)

**Prof. (Dr.) S. H. Pawar** (Emeritus Scientist)  
M.Sc., Ph.D., F. I. C.C., F. M.A.Sc



869, 'E', D.Y. Patil Vidyanagar,  
Kasaba Bavada, Kolhapur-416006  
Phone: 0231-2601235, Fax:0231-2601595  
Mob. 09822878226  
E-mail: [shpawar1946@gmail.com](mailto:shpawar1946@gmail.com)

**Distinguished Professor &  
Former Vice-Chancellor**

Accredited by NAAC with 'A' Grade

Date:06-Jan-2018

To,  
**Prof. Dr. Rekha P.D.**  
Professor & Deputy Director

**Subject:** Request for lab work and hostel facilities.

Madam,

This is in connection with your mail, one of my Ph.D. students Mr. Deepak Sawant, he is working on early detection of *Mycobacterium tuberculosis* using nanotechnology. He has done collaborative work with Dr. Mangesh Suryavanshi since early 2017. He is interested to carry out some experiment related to the development of nano-biosensor for detection of *Mycobacterium* related tuberculosis disease in your Yenepoya Research Center.

I learnt that assay based molecular characterization can be possible there at YRC in collaboration with Dr. Mangesh Suryavanshi and Dr. J. Venkateshan.

So, for this purpose, I request you to give him permission for lab work and hostel facilities for 15<sup>th</sup> -20<sup>th</sup> January 2018.

12<sup>th</sup> Feb - 22<sup>nd</sup> Feb 2018

All work in this collaboration will be highly appreciated and acknowledged.

With regards,

Yours Sincerely,

Prof. Dr. Shivaji. H. Pawar (Emeritus Scientist)  
Distinguished Professor &  
Former Vice-Chancellor  
D.Y. Patil University, Kolhapur. Maharashtra.

ATTESTED

Dr. Gangadhara Somayaji K.S.  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Derlakatte  
Mangalore- 575 018, Karnataka

Permitted  
c/o  
Dr. Mangesh,  
Dr. Venkateshan  
& Dr. Rekha

Rekha P.D.  
12/02/2018



YENEPOYA  
UNIVERSITY

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## YENEPOYA RESEARCH CENTRE

Yenepoya University

University Road, Deralakatte

Mangalore - 575 018.

Email : research@yenepoya.edu.in

Ph : +91 8242204668 / 69 / 70, Ext. : 2035

28.02.2018

### CERTIFICATE

This is to certify that Mr. Deepak Sawant, Ph.D Scholar from DY Patil University, Maharashtra, was in Yenepoya Research Centre to carry out experiments related to the development of nano-biosensor for detection of Mycobacterium related tuberculosis diseases from 11<sup>th</sup> February to 1<sup>st</sup> March 2018.

*Rekha P.D.*  
*28/2/2018*

Dr. Rekha P.D.

Deputy Director  
Yenepoya Research Centre  
Yenepoya University  
Deralakatte, Mangalore-575 018

ATTESTED

*te*  
Dr.Gangadhara Somayaji K.S.  
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