

## FACULTY PROFILE



1.	<b>Name</b>	:	<b>Dr. BHARAT BAJARANG BALLAL</b>
2.	<b>Educational Qualifications</b>	:	M.Sc. (Microbiology), SET (LIFE SCIENCES), Ph.D. (MICROBIOLOGY), PGDHE, DIPR, MS-CIT
3.	<b>Designation</b>	:	Associate Professor
4.	<b>Address for Communication</b>	;	69/3, 'Chintamani' Shukrawar Peth, Karad
5.	<b>E-mail Id</b>	:	<a href="mailto:bharat.ballal@bharativedyapeeth.edu">bharat.ballal@bharativedyapeeth.edu</a> (Office) <a href="mailto:sbballal23@gmail.com">sbballal23@gmail.com</a> , (Scientific Communications) <a href="mailto:sbballal23@rediffmail.com">sbballal23@rediffmail.com</a> , (Personal) <a href="mailto:sbballal23@outlook.com">sbballal23@outlook.com</a> , (Students)
6.	<b>Mobile No.</b>	:	9822458675 (Office), 7798685598 (Personal)
7.	<b>Experience</b>	:	
	a)	Teaching - UG	: 28 Years (As on 06/09/2021)
		PG	: 17 Years (As on 06/09/2021)
	b)	Research-	: 28 Years (As on 06/09/2021)
8.	<b>Details of Qualifications</b>	:	
<b>Sr · N o</b>	<b>Name of Examination</b>	<b>Name of University / Institute / Board</b>	<b>Grade / Class</b>
1	S.S.C.	S.S.C. Board Pune	Distinction
2.	H.S.C.	H.S.C. Board, Pune	Distinction
3	B.Sc. Microbiology	Shivaji University Kolhapur	Distinction
4	M.Sc. Microbiology	Shivaji University Kolhapur	First

5.	P.G.D.H.E. (Post Graduate Diploma in Higher Education)	IGNOU (Indira Gandhi National Open University)	First
6.	SET Exam.	University of Pune	Passed
7.	D.I.P.R. (Diploma in Intellectual Property Rights)	New Law College, Pune	Distinction
8.	MS-CIT	Maharashtra State Board of Technical Education	Passed Distinction
9.	Ph.D.( Microbiology)	Bharati Vidyapeeth (Deemed to be University),Pune, India	Completed

<b>9.</b>	<b>CAREER PROFILE</b>	:	
-----------	-----------------------	---	--

Sr.	College	Duration	Experience
A]	<u>Under Graduate Level:</u>		
i.	Yashwantrao Mohite College of Arts, Science and Commerce,Pune-411038 (University of Pune and Bharati Vidyapeeth Deemed to be University,Pune,India)	01.08.1995 To 03.08.2021	26 Years
ii,	P.S.G.V.P.Mandal's Arts,Science and Commerce College,Shahada, Dist Dhule. (North Maharashtra University, Jalgaon)	06.09.1993 To 31.07.1995	02 Years
iii.	Dr. Patangrao Kadam Mahavidyalay Sangali (Shivaji University, Kolhapur)	04.08.2021 Onwards	
Total Teaching Experience (UG):		28 Years	
B]	<u>Post Graduate Level:</u>		
i.	Yashwantrao Mohite College of Arts, Science and Commerce,Pune-411038 Bharati Vidyapeeth (Deemed to be University),Pune,India	01.06.2004 to 03.08.2021	17 Years
ii.			
Total Teaching Experience (PG):		Years	

<b>10.</b>	<b>RESEARCH CONTRIBUTION</b>	:	
a)	<b>Research Guidance</b>	:	
i.	<b>Supervision of Doctoral Theses (Awarded)</b>	:	

Recognized Ph. D. Guide of Bharati Vidyapeeth (Deemed to be University), Pune, India for the subject of Microbiology.

	<b>ii.</b>	<b>Supervision of Dissertations (Awarded)</b>	:	14 Candidates as mentioned below.		
<b>Sr.No.</b>	<b>Title</b>	<b>Name of the student</b>	<b>Period</b>	<b>Duration</b>	<b>Name of the University</b>	<b>Status</b>
1	Study of safety parameters and immunomodulating properties of potential immunomodulators	Miss Nitya Sharma	01/05/2011 to 31/10/2011	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
2	Evaluation of selected medicinal plants for their potential antimicrobial activities....	Miss. Divya Chandarsekharan	01/05/2018 to 31/10/2018	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
3	Evaluation of Herd immunity against Covid -19 from Pune.	Miss Amruta Pawar	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
4	Case study of biomedical waste management in hospitals from Sangli City, Maharashtra, India.	Miss Priyanka Jain	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
5	To Study efficacy and safety Parameters of clinical trials conducted by leading vaccine manufacturing	Miss Shifa Shaikh	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed

	companies.					
6	To study potential immunoboosting drugs as a supportive management for SARS-Cov-2	Mr. Ayush Shivaji More	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
7	Study of Fertilizers in use by farmers from Devegaon Village, District: Parabhani, State- Maharashtra.	Mr. Galbe Krushna Baliram	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
8	To Explore the interrelation between Blood groups and susceptibility to SARS-COV-2	Mr. Tukaram Gheware	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
9	Survey of impact of Covid-19 pandemic on the management of Dairy Industry.	Miss Amruta Dhobale	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
10	Study of the awareness in registered physician with respect to diagnosis and clinical management of COVID-19	Miss Prachi Deelip Khare	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
11	Predictive significance of Hepatic and cardiac function indicator	Miss Snehal Verenkar	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed

	enzymes in the Diagnosis of COVID-19				Pune,India	
12	Survey of hygienic practices to be followed by restaurants and subways in the lockdown and post lockdown period	Miss Prajakta Margale	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed
13	To study the spread of Covid-19 infection through Doctors, Paramedical, Health care workers in Pune City.	Mr. Ajinkyaraj Pawar	01/05/2020 to 31/10/2020	6 months	Bharati Vidyapeeth (Deemed to be University), Pune,India	Completed

b) Journal Publications:

**1. Research Papers publications in Pree-Reviewed or UGC Listed Journals :**

Sr No	Name of Author(s) as in Publication	Title of Research Paper	Name of Journal with Volume No., Year and Page Number.	Weather Peer-Reviewed/ UGC listed/ (Yes/No)	Impact Factor (0-1/1-2/ 2-5/2-10)	Contribution of Teacher
1	B.B.Ballal <i>et al.</i>	Deficiency of 25 –OH Cholecalciferol, an explored factor aggregating chronic arthrititis in Chikungunya and search of its therapeutic potential,	Asian Journal of Multidisciplinary Studies, Volume I, Issue I, August 2013	Yes Peer-Reviewed	1.498	Corresponding author
2	B.B.Ballal <i>et al.</i>	Availing CBWTF to Science Colleges, a need of time.	Asian Journal of Multidisciplinary Studies, Volume 3 Issue 3, March 2015, Pg. No.27-28, 2348-7186	Yes Peer-Reviewed	1.498	Corresponding author

3	B.B.Ballal <i>et al.</i>	Rifamycin induced fatal ventricular tachycardia, a case study,	'Asian Journal Of Multidisciplinary Studies', 5(3), 106-107  ISBN 2321-8819(Online), 2328-7186 (Print), 03.03.2017.	Yes Peer-Reviewed	1.498	Corresponding author
4	B.B.Ballal <i>et al.</i>	Immunomodulatory activities of blended formulation of <i>Chlorophytum borivilianum</i> , <i>Withania somnifera</i> , <i>Wagatia spicata</i> Dalz, <i>Picrorrhiza kurroa</i> and <i>Spilanthes paniculata</i> ,	Asian Journal of Multidisciplinary Studies, 3(11),26-28,2015.( ISBN 2321-8819).	Yes Peer-Reviewed	1.498	Corresponding author
5	B.B.Ballal <i>et al.</i>	"Subway foods: A mean to dangerous food borne and nosocomial infections",	Research & Reviews: Journal of Food Science & Technology, December 2013, pg 46-49.	Yes Peer-Reviewed	5.688	Corresponding author
6	B.B.Ballal <i>et al.</i>	Effect of blended formulations of selected biological immunomodulators on 'Absolute CD <sub>4</sub> count in HIV 1 infected individuals following Phase II human clinical trials.,	International Journal of current research, ISSN: 0975-833X,9(07), 54902-54905, July 2017, H index 6, ICV 72.25	Yes Peer-Reviewed	7.776	Corresponding author
7	B.B.Ballal <i>et al.</i>	Evaluation of selected medicinal plants for their potential antimicrobial activities against ESKAPE pathogens and the study of P-Glycoprotein related antibiosis, an indirect approach to assess efflux mechanism.	International Journal of Recent Scientific research, ISBN 0976-3031, Volume 9, Issue 11(A), pp 29461-29466, Impact factor 7.383, UGC approved list number : 46629, ICV: 81.25, H Index: 14, NAAS Score: 3.65, I <sub>10</sub> Index: 37	Yes peer reviewed UGC-CARE (No. 46629)	6.86	Corresponding author
8	B.B.Ballal <i>et al.</i>	<i>Acinetobacter baumannii</i> : A contributing factor for progression of 'Interstitial Lung Disease', a case study,	International Journal of Advanced Research in Biological sciences', ISBN 2348-8069, 4(2), 161-164, 01-03-2017, Impact Factor 6.433, Index Copernicus- 83.08	Yes Peer-Reviewed	6.433	Corresponding author

9	B.B.Ballal <i>et al.</i>	'Neutrophil Adhesion Test' as a tool for assessment of immunomodulatory activities of blended formulation of Chlorophytum borivilianum, Withania somnifera, Wagatia spicata Dalz, Picrorrhiza kurroa and Spilanthes paniculata,	International Journal of Advanced Research in Biological Sciences, Issue No. 2(11), pg.no.97-201.2015 (ISBN 2348-8069), IF 6.433. Index Copernicus 83.08	Yes UGC Peer- Reviewed	6.433	Corresponding author
10	B.B.Ballal <i>et al.</i>	'Study of absolute CD <sub>4</sub> count in the HIV-1 (c-strain) infected individuals following therapy of non toxic herbal extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs'.	Advanced biotech, Vol-III, Issue 7, pg.18, January 2005, ISSN-0973-0109.	Yes Peer- Reviewed	12.831	Corresponding author
11	B.B.Ballal <i>et al.</i>	The study of Thrombocyte count in the HIV-1 (c-strain) infected individual following therapy of non-toxic, herbal extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs, Page No. 19,	Advanced biotech, Vol-III, Issue 7, January 2005, ISSN-0973-0109.	Yes Peer- Reviewed	12.831	Corresponding author
12	B.B.Ballal <i>et al.</i>	'Study of absolute CD <sub>4</sub> count and plasma homocysteine in the HIV-1 (c-strain) infected individuals following therapy of Non-toxic extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs'	-American society for microbiology (ASM) final programme book for 104 <sup>th</sup> General meeting (May 23-27, 2004) Page No. -143 ISBN-1-555-81-313-5 and full length research paper was published online on the web site <a href="http://www.asm.org">www.asm.org</a>	Yes Peer- Reviewed	-	Corresponding author
13	B.B.Ballal <i>et al.</i>	'Invention of herbal drug against HIV infection /AIDS'.	The Patent Office, Journal dt. 13/01/2006. Pg.855	Yes Peer- Reviewed BY Patent Examiners	-	Corresponding author
14	B.B.Ballal <i>et al.</i>	'Study of immunomodulating, biochemical, and antiviral properties of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> , <i>Chlorophytum</i>	Bharati Vidyapeeth University Research Journal Vol-V, Number-1, April 2007, Page No. 87,.	Yes Peer- Reviewed	-	Corresponding author

		<i>borrivilinum</i> , <i>Wagatia spicata Dalz</i> and Two other patented novel herbs in the HIV-1 (c-strain) infected individuals',				
15	B.B.Ballal <i>et al.</i>	Invention of immunomodulating agent against HIV infection/AIDS',	page no 19980,issue no. 46/2011, The Patent Office Journal, dt.18/11/2011.	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
16	B.B.Ballal <i>et al.</i>	'Invention of improved process for obtaining <i>Piper longum</i> derived product having distinct properties with respect to enhancement of spermatogenesis process.	1632/MUM/2013,The Patent Office Journal, Issue 11/2015 dt. 13/03/2015, pg.no.28440Issue 11/2015 dt. 13/03/2015, pg.no.28440	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
17	B.B.Ballal <i>et al.</i>	'Invention of <i>Picrorrhiza kurroa</i> derived product having distinct properties with respect to augmentation of spermatogenesis process' 1633/MUM/2013,	The Patent Office Journal, Issue 11/2015 dt. 13/03/2015, pg.no.28443,Issue 11/2015 dt. 13/03/2015, pg.no.28443	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
18	B.B.Ballal <i>et al.</i>	'Novel product obtained from <i>Chlorophytum borivilianum</i> , <i>Piper longum</i> , <i>Picrorrhiza kurroa</i> , by using innovative steps and the unique blending process for enhancement of spermatogenesis process',1634/MUM/2013,	The Patent Office Journal,Issue 11/2015 dt. 13/03/2015, pg.no.28444,Issue 11/2015 dt. 13/03/2015, pg.no.28444	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
19	B.B.Ballal <i>et al.</i>	Invention of <i>Chlorophytum borivilianum</i> derived product having distinct properties with respect to enhancement of spermatogenesis process. 1635/MUM/2013,	The Patent Office Journal, Issue 19/2015 dt. 8/05/2015, pg .no.33581	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
20	B.B.Ballal <i>et al.</i>	Invention of mast stabilizing properties of <i>Piper longum</i> , <i>Aloe vera</i> ,	The Patent Office Journal ,Issue 21/2015 dt.	Yes Peer-Reviewed	-	Corresponding



		<i>Cynodon dactylin and Cymbopogon citratus</i> Application No. 1803/MUM/2015,6/5/2015	22/05/2015, pg.no.35070	BY Patent Examiners		author
21	B.B.Ballal <i>et al.</i>	Study of the effect of biological immunomodulators on percent Neutrophil count in Albino Mice	Proceeding of National Conference on 'Recent Trends in Physical, Chemical and Biosciences' (RTPCB-2016), ISBN: 978-93-81249-24-6, BPP-18,122, 16 <sup>th</sup> Dec. 2016.	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
22	B.B.Ballal <i>et al.</i>	Multiunit aseptic chamber,	The Patent Office Journal, volume number 40/2018, dt. 5/10/2018, pp 38809	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
23	B.B.Ballal <i>et al.</i>	Cylindrical sanitary pad incinerator,	The Patent Office Journal, volume number 49/2018, dt. 7/12/2018, pp 47051	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
24	B.B.Ballal <i>et al.</i>	Chromatography column with perforated gel slot,	The Patent Office Journal, volume number-17/2019 dt. 26/04/2019.	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
25	B.B.Ballal <i>et al.</i>	Hospital bed with adjustable inbuilt commode	The Patent Office Journal, volume number-35/2019 dt. 30/08/2019 pg.no. 40477	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author
26	B.B.Ballal <i>et al.</i>	Incinerator for biological waste,	The Patent Office Journal, volume number 35/2019, pg. no. 39583 dt. 30/08/2019	Yes Peer-Reviewed BY Patent Examiners	-	Corresponding author

#### DATABASE PUBLICATIONS

Online publications of 16S ribosomal RNA gene sequences at National Centre For Biotechnology Information (NCBI) Database, Bethesda US, European Molecular Biology Laboratory (EMBL) and DNA Database of Japan (DDBS) as follow:

Sr. No	Title of the Database Publication	Publication Date	Domain
.			

1	<i>Bacterium</i> BVDU01-BS-MAR-313-LIP03 (NEWLY INVENTED BACTERIUM )	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC130881.1">www.ncbi.nlm.nih.gov/ncore/KC130881.1</a>
2	<i>Bacillus anthracis</i> strain ATCC 14578	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC119183.1">www.ncbi.nlm.nih.gov/ncore/KC119183.1</a>
3	<i>Bacillus endophyticus</i> strain BVDU01-BRAS008-CON 7	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC130874.1">www.ncbi.nlm.nih.gov/ncore/KC130874.1</a>
4	<i>Enterobacter cloacae</i> strain BVDU01-RB-SAM-005-VEGRC01	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC130875.1">www.ncbi.nlm.nih.gov/ncore/KC130875.1</a>
5	<i>Aeromonas hydrophila</i> strain BVDU01-BS-RAM-003-PANPO3	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC130876.1">www.ncbi.nlm.nih.gov/ncore/KC130876.1</a>
6	<i>Acinetobacter calcoaceticus</i> strain BVDU01-BA-MSR-041-PANG02	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC130877.1">www.ncbi.nlm.nih.gov/ncore/KC130877.1</a>
7	<i>Micrococcus yunnanensis</i> strain BVDU01-MB-RSA-009-CON9	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC130878.1">www.ncbi.nlm.nih.gov/ncore/KC130878.1</a>
8	<i>Pseudomonas stutzeri</i> strain BVDU01-BAR-MS 073-LIP01	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC130879.1">www.ncbi.nlm.nih.gov/ncore/KC130879.1</a>
9	<i>Bacillus pumilus</i> strain BVDU01-BM-ARS-013-LIP02	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/KC130880.1">www.ncbi.nlm.nih.gov/ncore/KC130880.1</a>
10	<i>Pseudomonas koreensis</i> strain SGM-BVDU-PK-VBRAS-C1/S	08.11.2015	<a href="http://www.ncbi.nlm.nih.gov/ncore/KR868725.1">www.ncbi.nlm.nih.gov/ncore/KR868725.1</a>
11	<i>Enterobacter cloaca</i> strain BY1	17.12.2012	<a href="http://www.ncbi.nlm.nih.gov/ncore/JQ766938">www.ncbi.nlm.nih.gov/ncore/JQ766938</a>
12	<i>Exiguobacterium mexicanum</i> strain BVU3	15.06.2016	<a href="http://www.ncbi.nlm.nih.gov/ncore/KX170833">www.ncbi.nlm.nih.gov/ncore/KX170833</a>
13	<i>Acinetobacter variabilis</i> strain BVU4	15.06.2016	<a href="http://www.ncbi.nlm.nih.gov/ncore/KX170834">www.ncbi.nlm.nih.gov/ncore/KX170834</a>
14	<i>Bacillus flexus</i> strain BBB-1	29.01.2017	<a href="http://www.ncbi.nlm.nih.gov/ncore/KX192361">www.ncbi.nlm.nih.gov/ncore/KX192361</a>
15	<i>Rhizobium nepotum</i> strain BBB-2	29.01.2017	<a href="http://www.ncbi.nlm.nih.gov/ncore/KX192362">www.ncbi.nlm.nih.gov/ncore/KX192362</a>
16	<i>Citrobacter europaeus</i> Strain 97/99 (T)	07.02.2019	<a href="https://www.ncbi.nlm.nih.gov/sra/?term=PRJNA506888">https://www.ncbi.nlm.nih.gov/sra/?term=PRJNA506888</a>

**DETAILS OF DATABASE PUBLICATIONS:**

Sr. No.	OBJECTIVE AND DOMAIN	National / International	Date of Linkage
1.	To study the role of microorganisms in health sector and environment, <b><i>Bacterium</i> BVDU01-BS-MAR-313-LIP03 (NEWLY INVENTED BACTERIUM )</b>  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC130881.1">www.ncbi.nlm.nih.gov/nuccore/KC130881.1</a>	International	17/12/2012
2.	To study the role of microorganisms in health sector and environment , <b><i>Bacillus anthracis</i> strain ATCC 14578</b>  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC119183.1">www.ncbi.nlm.nih.gov/nuccore/KC119183.1</a>	International	17/12/2012
3.	To study the role of microorganisms in health sector and environment ,(Sole) <b><i>Bacillus endophyticus</i> strain BVDU01-BRAS008-CON 7</b>  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC130874.1">www.ncbi.nlm.nih.gov/nuccore/KC130874.1</a>	International	17/12/2012
4.	To study the role of microorganisms in health sector and environment, <b><i>Enterobacter cloacae</i> strain BVDU01-RB-SAM-005-VEGRC01</b>  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC130875.1">www.ncbi.nlm.nih.gov/nuccore/KC130875.1</a>	International	17/12/2012
5.	To study the role of microorganisms in health sector and environment , <b><i>Aeromonas hydrophila</i> strain BVDU01-BS-RAM-003-PANPO3</b>  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC130876.1">www.ncbi.nlm.nih.gov/nuccore/KC130876.1</a>	International	17/12/2012
6.	To study the role of microorganisms in health sector and environment , <b><i>Acinetobacter calcoaceticus</i> strain BVDU01-BA-MSR-041-PANG02</b>  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC130877.1">www.ncbi.nlm.nih.gov/nuccore/KC130877.1</a>	International	17/12/2012
7.	To study the role of microorganisms in health sector and environment, <b><i>Micrococcus yunnanensis</i> strain BVDU01-MB-RSA-009-CON9</b>  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC130878.1">www.ncbi.nlm.nih.gov/nuccore/KC130878.1</a>	International	17/12/2012
8.	To study the role of microorganisms in health sector and	International	17/12/2012

	environment , <i>Pseudomonas stutzeri</i> strain BVDU01-BAR-MS 073-LIP01  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC130879.1">www.ncbi.nlm.nih.gov/nuccore/KC130879.1</a>		
9.	To study the role of microorganisms in health sector and environment, <i>Bacillus pumilus</i> strain BVDU01-BM-ARS-013-LIP02  <a href="http://www.ncbi.nlm.nih.gov/nuccore/KC130880.1">www.ncbi.nlm.nih.gov/nuccore/KC130880.1</a>	International	17/12/2012
10.	To study the role of microorganisms in health sector and environment , <i>Pseudomonas koreensis</i> strain SGM-BVDU-PK-VBRAS-C1/S  <a href="http://www.ncbi.nlm.nih.gov/nucore/KR868725.1">www.ncbi.nlm.nih.gov/nucore/KR868725.1</a>	International	08/11/2015
11.	To study the role of microorganisms in health sector and environment , <i>Enterobacter cloaca</i> strain BY1  <a href="http://www.ncbi.nlm.nih.gov/nuccore/JQ766938">www.ncbi.nlm.nih.gov/nuccore/JQ766938</a>	International	23/04/2012
12.	To study the role of microorganisms in health sector and environment, <i>Acinetobacter variabilis</i> strain BVU4  <a href="http://www.ncbi.nlm.nih.gov/nucore/KX170834">www.ncbi.nlm.nih.gov/nucore/KX170834</a>	International	15/06/2016
13.	To study the role of microorganisms in health sector and environment, <i>Exiguobacterium mexicanum</i> strain BVU3  <a href="http://www.ncbi.nlm.nih.gov/nucore/KX170833">www.ncbi.nlm.nih.gov/nucore/KX170833</a>	International	15/06/2016
14.	To study the role of microorganisms in health sector and environment <i>Bacillus flexus</i> strain BBB-1  <a href="http://www.ncbi.nlm.nih.gov/nucore/KX192361">www.ncbi.nlm.nih.gov/nucore/KX192361</a>	International	29/01/2017
15.	To study the role of microorganisms in environment, <i>Rhizobium nepotum</i> strain BBB-2  <a href="http://www.ncbi.nlm.nih.gov/nucore/KX192362">www.ncbi.nlm.nih.gov/nucore/KX192362</a>	International	29/01/2017
16.	To study the role of microorganisms in the disease transmission through slaughter houses.  <a href="https://www.ncbi.nlm.nih.gov/sra/?term=PRJNA506888">https://www.ncbi.nlm.nih.gov/sra/?term=PRJNA506888</a> ( <a href="https://www.ncbi.nlm.nih.gov/sra/PRJNA506888">https://www.ncbi.nlm.nih.gov/sra/PRJNA506888</a> release date 09/02/2019)	International	07/02/2019

**PATENTS AND TECHNOLOGY TRANSFER**

Sr. No.	Academic Year	Title of the patent	Type of the patent (National / International)	Patent Application Number	Date of Filing	Date of Publication	Status (Registered / Granted)
1	2005-06	Invention of herbal drug against HIV infection/AIDS	National	1512/MUM/2005	07/12/2005	13/01.2006	Objections Recorded Under Examination
2	2009-10	Invention of Immunomodulating Agent Against HIV infection/AIDS	National	2326/MUM/2009	07/10/2009	18/11/2011, Issue No. 46/2011, page no 19980, The Patent Office Journal,	First Examination Report filed.
3	2012-13	'Invention of improved process for obtaining <i>Piper longum</i> derived product having distinct properties with respect to enhancement of spermatogenesis process.	National	1632/MUM/2013	06/05/2013	13/03/2015, ISSUE NO.11/2015, P G. No.28440	Registered and Under Examination
4	2012-13	'Invention of <i>Picrorrhiza kurroa</i> derived product having distinct properties with respect to augmentation of spermatogenesis process'	National	1633/MUM/2013	06/05/2013	13/03/2015, ISSUE NO.11/2015, P G. No.28443	Registered and Under Examination
5	2012-13	'Novel product obtained from <i>Chlorophytum borivilianum</i> , <i>Piper longum</i> , <i>Picrorrhiz</i>	National	1634/MUM/2013	06/05/2013	13/03/2015, ISSUE NO.11/2015, P G. No.28444	Registered and Under Examination

		<i>akur- roa</i> , by using innovative steps and the unique blending process for enhancement of spermatogenesis processes'					ation
6	20 12- 13	'Invention of <i>Chlorophytum borivilianum</i> derived product having distinct properties with respect to enhancement of spermatogenesis process.	National	1635/MUM/2013 A	06/05/2013	08/05/2015, ISSUE NO.19/2015, P G. No.33581	Registered and Under Examination
7	20 14- 15	Invention of mast stabilizing properties of <i>Piper longum, Aloe vera, Cynodon dactylon</i> and <i>Cymbopogon citratus</i>	National	1803/MUM/2015 6/5/2015A	06/05/2015	22/05/2015, ISSUE NO.21/2015, p g.No.35070	Registered and Under Examination
8	20 17- 18	Chromatography column with perforated gel slots	National	296390, CBR No 15996	03/08/2017	26/04/2019	Approved with certificate number 74233 dt 24/04/2019
9	20 17- 18	Cylindrical Sanitary Pad Incinerator	National	298132 CBR No. 19257	05/10/2017	07/12/2018	Approved with patent number:

							68581. Date of approval: 28/11/2018
10	20 17- 18	Multiunit aseptic Chamber	National	Design Number: 299682	24/11/2017	05/10/2018	Approved with patent number: 67170. Date of approval: 07/09/2018
11	20 18- 19	Green pathofree sanitary pad incinerator	National	Application number 314445-001	01/02/2019	Design Patent	Approved
12	20 18- 19	Aerosole trapper Ballal pipe	National	Application number 314449-001	01/02/2019	Design Patent	Under examination
13	20 19- 20	Hospital bed with adjustable inbuilt commode	National	Application number : 318608-001	11/06/2019	Design patent	Approved
14	20 19- 20	Incinerator for biological waste	National	Application number:20 192103297 6 CBR number 17857	14/08/2019	Design patent	Under examination
15	20 19- 20	Microbial filters for AC vents	National	Application Number: 325713-001	09/01/2020	Design patent	Under examination

16	20 19- 20	Inoculating loop for microbial isolation	National	Application No. 327333-001	15/02/ 2020	Design patent	Approved vide certificate no. 92819 dt. 10/11/2020
17	20 19- 20	Shield for car drivers	National	Application No. 327332-001	15/02/ 2020	Design patent	Under examination
18	20 19- 20	INCINERATOR FOR BIOLOGICAL WASTE	International	International Patent Application No. PCT/IB20 20/054376  International Bureau of the World Intellectual Property Organization, Geneva	08/05/ 2020	Product Patent	Under examination

**APPROVED IPR/ PATENTS**

Sr. No	Title of the IPR/ Patent	Details about the IPR/ patent and technology transfer	Valid up to
1	Design patent entitled, 'Multiunit Aseptic Chamber'	Patent approval certificate number: 67170 dt. <b>07/09/2018</b> , 14:53:21	07/09/2028 with extension up to 07/09/2033
2	Design patent of 'cylindrical	Patent approval certificate number: 68581 dt. <b>28/11/2018</b> , 12:36:18	28/11/2028 with extension up to



	sanitary pad incinerator'		28/11/2033
3	Chromatography column with perforated gel slots	Patent approval certificate number: 74233 dt. <b>24/04/2019</b> , 11:55:18	24/04/2029 with extension up to 24/04/2034
4	Hospital Bed with adjustable inbuilt commode	Patent approval certificate number: 80365 dt. <b>26/08/2019</b> , 12:42:14	26/08/2029 with extension up to 26/08/2034
5	Inoculating loop for microbial isolation	Patent approval certificate number: 92819 dt. <b>10/11/2020</b>	10/11/2029 with extension up to 10/11/2034

<b>d)</b>	<b>Research Projects</b>	:
-----------	--------------------------	---

Sr.No.	Title	Agency	Period	Amount Mobilized	Status
1	Study of Immunomodulating and antiviral properties of plants	UGC New Delhi	16/03/2011 to 16/03/2013	Rs. 1,35,000	Completed in the month of Feb.2013.

<b>e)</b>	<b>Research Papers Presented</b>	:
-----------	----------------------------------	---

Sr. No.	Title of the Paper	Theme/Title of the Conference/Seminars	Organized by	Date	Abstract/ Page no.	National / International
1.	Exploring Nosocomial Pathogens	International	DBT INDIA,	28th -	CD-ROM	Intern

	from acclaimed hospitals in Pune	Conference on Environmental Pollution and Health Management	Microbiologist Society India, Career College, Bhopal	29th, February 2020	Pg. No. 102	ational
2.	A scientific study on presence of human pathogens with unused sanitary pads, an alarming threat to society	International Conference on Environmental Pollution and Health Management	DBT INDIA, Microbiologist Society India, Career College, Bhopal	28th - 29th, February 2020	CD-ROM Supplement	International
3.	Isolation of MDR pathogens from sanitary pads and study of social links for their prevalence	National level seminar on 'Current trends in identification and diagnostics'.	Government college of Arts, Science and Commerce, Khandola, Marcela-Goa - 403107, India	10/12/2019	11	National
4.	Evaluation of indoor air quality from Maharashtra state air conditioned buses with specialempphasis on MDR pathogen	National level seminar on 'Current trends in identification and diagnostics'.	Government college of Arts, Science and Commerce, Khandola, Marcela-Goa - 403107, India	10/12/2019	12	National
5.	Isolation of drug resistant pathogens from dish washer scrubbers from residential and commercial sources.	National level seminar on 'Current trends in identification and diagnostics'.	Government college of Arts, Science and Commerce, Khandola, Marcela-Goa - 403107, India	10/12/2019	15	National
6.	Isolation of commercial pathogens from cosmetic equipments.	National level seminar on 'Current trends in identification and diagnostics'.	Government college of Arts, Science and Commerce, Khandola, Marcela-Goa - 403107, India	10/12/2019	14	National
7.	Biological waste management through design and development of sanitary pad incinerator with comparative evaluation	DBT-STAR Funded National Conference on recent trends in solid waste management (NCRTSM-2019)	Organized by Microbiology society of India in collaboration with YCIS, Satara, Maharashtra, In	January 30-31, 2019	Oral presentation	National

8.	Study of potential antimicrobial activities of selected plant extracts against ESKAPE pathogens with predictive study of P-glycoprotein efflux protein	59 <sup>th</sup> Annual International Conference of Association of Microbiologists of India and International Symposium on Host Pathogen Interactions	School of Life Sciences, University of Hyderabad	December 9-12, 2018	Abstract no.: AMRP/001 (30095)  Registration ID: 30095  Proceedings Page no 293	International
9.	Study of nosocomial pathogens with respect to their distribution, source and drug resistance	59 <sup>th</sup> Annual International Conference of Association of Microbiologists of India and International Symposium on Host Pathogen Interactions	School of Life Sciences, University of Hyderabad	December 9-12, 2018	Abstract no.: AMRP/003 (20056)  Registration ID: 20056	International
10.	Isolation and Characterization of Drug resistant Pathogens from fresh meat samples collected from slaughter houses.	106 <sup>th</sup> Indian Science Congress	The Indian Science Congress Association, Kolkata	January 3-7, 2019	Abstract No. PP-20, Page No. 235	International
11.	Effect of biological immunomodulators on 'Absolute CD4 count' in HIV infected individuals following phase- II human clinical trials.	Microbial Technology for Better Tomorrow (ICMTBT-2018)	Dr. D.Y. Patil Arts, Commerce and Science College, Pimpri, Pune,	17th - 19th February 2018	CD-ROM	International
12.	Spectroscopic analysis of <i>Chlorophytum borivillianum</i> , <i>Spilanthes paniculata</i> Wall. Ex. DC. And <i>Withania somnifera</i>	National Conference on 'Ingenious Trends in Life Sciences',	Abeda Inamdar Senior College of Arts, Sc. & Comm. Pune, 6 <sup>th</sup> and 7 <sup>th</sup> Oct. 2017	6 <sup>th</sup> and 7 <sup>th</sup> Oct. 2017	Page no 34	National
13.	Fourier Transformer Infra Red Spectroscopy study of <i>Wagatia spicata</i> Dalz. And <i>Picrorrhiza kurroa</i> .	National Conference on 'Ingenious Trends in Life Sciences',	Abeda Inamdar Senior College of Arts, Sc. & Comm. Pune,	6 <sup>th</sup> and 7 <sup>th</sup> Oct. 2017	pg. no. 26	National
14.	Study of antibacterial activities of selected immunomodulating plants.	National Conference on 'Ingenious Trends in Life Sciences', organized	Abeda Inamdar Senior College of Arts, Sc. & Comm. Pune,	6 <sup>th</sup> and 7 <sup>th</sup> Oct. 2017	Pg. no. 36	National
15.	Study of antifungal activities of selected immunomodulating plants.	National Conference on 'Ingenious Trends in Life Sciences',	Abeda Inamdar Senior College of Arts, Sc. & Comm. Pune,	6 <sup>th</sup> and 7 <sup>th</sup> Oct. 2017	Pg. no. 36	National
16.	Need of CBWTF to non medico	International	Mitsom College	dt.3 <sup>rd</sup>	Oral	Intern

	higher education institutes.	Youth Conference,	Pune and TERRE Policy Center, Pune.	March 2017.	presentation	ational
17.	Enterovirus as an emerging pathogen for development of ulcerative pharyngitis, a case study.	National Conference on 'Recent trends and Opportunities in Life Sciences	2017 (RTOLS-2017), Organized by 'Science College, Saswad'	24 <sup>th</sup> and 25 <sup>th</sup> January 2017	MM-25,63	National
18.	Study of the effect of biological immunomodulators on percent Neutrophil count in Albino mice.	'Recent Trends in Physical, Chemical and Biosciences' (RTPCB-2016),	Vidya Pratishthan's, Arts, Science and Commerce College, Baramati, Pune- Maharashtra, India.	Dt. 16 <sup>th</sup> -17 <sup>th</sup> December 2016	BPP -18, pg. 122	National
19.	Exploring Anti HIV principles of blended formulation of <i>Chlorophytum borivillianum</i> , <i>Withania somnifera</i> , <i>Wagatia spicata</i> Dalz, <i>Picrorrhiza kurroa</i> and <i>Spilanthes paniculata</i>	3 <sup>rd</sup> International Conference on Herbal and Synthetic Drug Studies (HSDS-2016)	Abeda Inamdar College, Pune, University of Kansas Cancer Center, USA and ISTRA Pune.	Jan. 07-09,2016	P-06, Pg. No. 67	International
20.	Study of leukocyte count in the patient having progressive cellulitis with concurrent left ventricle failure.	International Conference on 'New Horizons in Biotechnology (NHBT-2015),	NHBT Trivandrum, Kerala, India.	Nov. 22-25,2015	Supplement Publication	International
21.	Study of Warfarin resistance in IHD patient.	International Conference on 'New Horizons in Biotechnology (NHBT-2015),	Trivandrum, Kerala, India.	Nov. 22-25, 2015	Supplement Publication	International
22.	Availing CBWF TO Senior Colleges	National Conference on Advances and Challenges in Green Technology	Singhgad College of Science Pune	Feb. 13-14,2015	Oral P-38	National
23.	Effect of herbal extracts on CD <sub>4</sub> count in HIV infected individuals	New Trends in Biotechnology	Osmania University Hyderabad, Feb. 26-28, 2015	Feb. 26-28, 2015	VMVM- 24, Pg. 27	International
24.	Study of warfarin therapy interference by <i>Streptococcus pneumoniae</i> in the patient of 'coronary artery calcification	New Trends in Biotechnology	Osmania University Hyderabad, Feb. 26-28, 2015	Feb. 26-28, 2015	VMVM- 089, Pg. 76	International
25.	Study of Immunomodulator agents in	International Conference on	Sadguru Gadage Maharaj College,	22-23 April	Oral presentation	Intern

	HIV infected individuals	Contemporary Research in Chemical and Life Sciences	Karad. (ICCRCLS-2015).	2015	n	ational
26.	'Neutrophil Adhesion Test' of herbal extracts as a mean for evaluation of cellular immunity.	54 <sup>th</sup> Annual Conference of Association of Microbiologist of India	Maharshi Dayanand University Rohatak-124001,Harayana, India.	17 <sup>th</sup> Nov.2013	Pg.180MMVV-099	International
27.	Exploring Etiopathology of persistent post influenza cough	54 <sup>th</sup> Annual Conference of Association of Microbiologist of India	Maharshi Dayanand University Rohatak-124001,Harayana, India.	17 <sup>th</sup> Nov.2013	MMVV-064, Pg.159	International
28.	Isolation of food borne <i>Salmonella</i> from mid day meals with respect to pune region.	54 <sup>th</sup> Annual Conference of Association of Microbiologist of India	Maharshi Dayanand University Rohatak-124001,Harayana, India.	17 <sup>th</sup> Nov.2013	MMVV-085, Pg.171	International
29.	Effect of herbal extracts on haemoglobin percentage of white Albino Mice.	National Conference on BioEngineering Sciences	College of Engineering , Pune	15 <sup>th</sup> to 16 <sup>th</sup> March 2013	PP-5, Pg. - 75	National
30.	Isolation of MDR <i>Escherichia coli</i> from the serum sample of Adenocarcinoma patient and the study of plasmid curing agent.	International Conference on Microbial World	KIIT University,Bhubaneswar, Odisha	22 <sup>nd</sup> to 25 <sup>th</sup> Nov.2012	PD2-598 Pg.362	International
31.	Isolation of pathogens from state transport vehicles.	International Conference on Microbial World	KIIT University,Bhubaneswar, Odisha	22 <sup>nd</sup> to 25 <sup>th</sup> Nov.2012	PD1-381 Pg.253	International
32.	Isolation of food borne pathogens from potential carriers.	International Conference on Microbial World	KIIT University,Bhubaneswar, Odisha	22 <sup>nd</sup> to 25 <sup>th</sup> Nov.2012	PD2-425 Pg.275	International
33.	Isolation of food borne pathogens from subway foods.	International Conference on Microbial World	KIIT University,Bhubaneswar, Odisha	22 <sup>nd</sup> to 25 <sup>th</sup> Nov.2012	PD2-556 Pg.341	International
34.	Isolation of potential pathogens from cosmetics.	International Conference on Microbial World	KIIT University,Bhubaneswar, Odisha	22 <sup>nd</sup> to 25 <sup>th</sup> Nov.2012	PD2-625 Pg.375	International
35.	Isolation of pathogens from raw vegetables supplied to five star	International Conference on	KIIT University,Bhuban	22 <sup>nd</sup> to 25 <sup>th</sup>	PD2-641	Intern

	hotels.	Microbial World	eswar, Odisha	Nov.2012	Pg.383	ational
36.	Isolation of <i>Acinobacter calcoaceticus</i> from food handlers and exploring the new way of disease transmission for the pathogens.	International Conference on Microbial World	KIIT University,Bhubaneswar, Odisha	22 <sup>nd</sup> to 25 <sup>th</sup> Nov.2012	PD1-361 Pg.243	International
37.	Isolation of <i>Aeromonas hydrophila</i> , a flesh eating bacteria from hand impressions of food handlers.	International Conference on Microbial World	KIIT University,Bhubaneswar, Odisha	22 <sup>nd</sup> to 25 <sup>th</sup> Nov.2012	PD2-568 Pg.347	International
38.	Determination of most probable number of coliforms from water reservoir used for dish washing purpose.	International Conference on Microbial World	KIIT University,Bhubaneswar, Odisha	22 <sup>nd</sup> to 25 <sup>th</sup> Nov.2012	PD2-522 Pg.324	International
39.	Studies on Indian Medicinal Plants with respect to regulation of Innate immunity	National seminar on 'Recent Trends in Life Sciences'	Yashwantrao Mohite College,Pune	21 <sup>st</sup> to 22 <sup>nd</sup> December 2012	P-2, Pg 66	National
40.	Effect of <i>Picrorrhiza kurroa</i> on phagocytic cells of White Albino Mice	National seminar on 'Recent Trends in Life Sciences'	Yashwantrao Mohite College,Pune	21 <sup>st</sup> to 22 <sup>nd</sup> December 2012	P-4, Pg 68	National
41.	Effect of <i>Piper longum</i> on cellular immunity of White Albino Mice	National seminar on 'Recent Trends in Life Sciences'	Yashwantrao Mohite College,Pune	21 <sup>st</sup> to 22 <sup>nd</sup> December 2012	P-3, Pg 67	National
42.	Effect of <i>Chlorophytum borivilianum</i> on haematological parameters of experimental animals.	National seminar on 'Recent Trends in Life Sciences'	Yashwantrao Mohite College,Pune	21 <sup>st</sup> to 22 <sup>nd</sup> December 2012	P-5, Pg 69	National
43.	'Study of Antibacterial Activity of Indian Medicinal plants and conservation of Biodiversity through 'Tissue culture technique'	UGC sponsored national seminar on 'Biodiversity Conservation and Protection'	Yashwantrao Mohite College, Pune-38	13th and 14th March 2012	Pg. 36	National
44.	'Study of Antifungal Activity of Indian Medicinal plants and Phytochemical Analysis of Piper longifolium	UGC sponsored national seminar on 'Biodiversity Conservation and Protection'	Yashwantrao Mohite College, Pune-38	13th and 14th March 2012	Pg. 42	National
45.	Probiotics to alleviate irritable bowel syndrome	one day seminar on ' Biotechnology for Better Tomorrow-2020	Department of Microbiology, Dr. Babasaheb Ambedkar Marathwada University, sub	January 22, 2012	Pg.	National

			campus, Osmanabad and Microbiologist Society of India.			
46.	'Therapeutic value of 25-OH-cholecalciferol in the treatment of chronic arthritis in Chikungunya- A virgin application'	International conference on 'New Horizons in Biotechnology'	National Institute for interdisciplinary science and technology, NIIST, CSIR, Trivandrum, The Biotech Research Society, INDIA	November 21-24, 2011	page no. 251, Abstract no MB-28	International
47.	'Study of prevalence of <i>Salmonella</i> and <i>Shigella</i> during endemic outbreak of diarrhoea in Pune city	'International conference of Microbial Biotechnology for sustainable development'	Punjab University Punjab	Nov. 3 to 6 2011	Pg.	International
48.	'Study of Potential Pathogens in processed and unprocessed milk sample from Pune region'	MICROCON 2011, XVII Maharashtra Chapter conference of Indian Association of Medical Microbiologist	Bharati Vidyapeeth Deemed University, Medical College, Pune	Sept. 22-24, 2011	P-48 Pg. No. 152	International
49.	'Determination of potability of borewell water available in Pune city'	MICROCON 2011, XVII Maharashtra Chapter conference of Indian Association of Medical Microbiologist	Bharati Vidyapeeth Deemed University, Medical College, Pune	Sept. 22-24, 2011	P-47 Pg. No. 152	International
50.	'Checking of abundance of <i>Salmonella</i> and <i>Shigella</i> on vegetables sold in Pune region'	MICROCON 2011, XVII Maharashtra Chapter conference of Indian Association of Medical Microbiologist	Bharati Vidyapeeth Deemed University, Medical College, Pune	Sept. 22-24, 2011	P-49 Pg. No. 153	International
51.	'Probiotics to alleviate Irritable Bowel Syndrome : A case study''	'International Conference on Biotechnology for Better Tomorrow (BTBT-2011)	Dr. Babasahib Ambedkar Marathawada University, Aurangabad, Maharashtra, INDIA.	Feb. 6 to 9 2011,	Page No. 49, OMM-12	International
52.	'Study of IgM, IgG and IgA by Nephelometry technique in the	51st AMI	Birla Institute of Technology	Dec. 14-17,	Pag. No. 286, MM-	Intern

	patient of Irritable Bowel Syndrome following probiotic therapy'	Conference	Mesra, Ranchi, INDIA	2010	30	ational
53.	'Study of Probiotics in the treatment of Irritable Bowel Syndrome'	51st AMI Conference	Birla Institute of Technology Mesra, Ranchi, INDIA	Dec. 14-17, 2010	Page No. 285, MM.27	International
54.	'Study of Tissue Transglutaminase in the patient of Irritable Bowel Syndrome following therapy of Probiotics'	51st AMI Conference	Birla Institute of Technology Mesra, Ranchi, INDIA	Dec. 14-17, 2010	Page No. 279, MM.17	International
55.	'Study of endomyelial antibody IgA in the patient of Irritable Bowel Syndrome'	51st AMI Conference	Birla Institute of Technology Mesra, Ranchi, INDIA	Dec. 14-17, 2010	Page No. 279, MM.16	International
56.	'Effect of herbal extract on Thrombocyte count in HIV-1 (C-strain) infected individuals	National Conference on new frontiers in herbal and synthetic drug studies	Abeda Inamdar College, Pune	14 <sup>th</sup> to 16 <sup>th</sup> Jan 2010	Page No. 59	National
57.	'Immunomodulatory and antiviral effects of herbal extract in HIV –I (C-strain) infected individuals'	National Conference on new frontiers in herbal and synthetic drug studies	Abeda Inamdar College, Pune	14 <sup>th</sup> to 16 <sup>th</sup> Jan 2010	Page No. 59	National
58.	'Evaluation of Probiotics in the Patient of Irritable Bowel Syndrome'	50th Annual conference of Associations of Microbiologist of INDIA,	NCL, Pune	15-18th Dec. 2009	MM-002, Pg. 265	International
59.	Immunomodulating effects of herbal extracts on the CD4 subset in the HIV-1 (C-strain) infected individuals	50th Annual conference of Associations of Microbiologist of INDIA,	NCL, Pune	15-18th Dec. 2009	MM-001, Pg. 265	International
60.	'Study of calibration parameters of flow cytometric tools during antiretroviral therapy'	49th Annual conference of Associations of Microbiologist of INDIA	University of Delhi	Nov. 18-20-2008	Pg.316	International
61.	'Clinical trials of <i>Wagatia spicata</i> Dalz, <i>Chlorophytum barivilianum</i> , <i>Withania</i> , <i>Somnifera</i> , <i>Picrorrhiza kurroa</i> and patented herbs in HIV (c-strain) infected Individuals'	49th Annual conference of Associations of Microbiologist of INDIA	University of Delhi	Nov. 18-20-2008	Pg. 269	International



62.	'Study of cellular parameters in HIV-1 (c-strain) infected individuals following herbal therapy	49th Annual conference of Associations of Microbiologist of INDIA	University of Delhi	Nov. 18-20-2008	Pg. 266	International
63.	Study of Immunomodulating, Biochemical and antiviral Properties of <i>Phyllanthus reticulates</i> , <i>Tinospora cordifolia</i> , <i>Chlorophytum barivilianum</i> , <i>Wagatia spicata Dalz</i> and two other patented Novel Herbs in The HIV-1 (C-Strain) infected individuals	34 <sup>th</sup> Indian Immunology Society Conference	National AIDS Research Institute , Pune	16 <sup>th</sup> -18 <sup>th</sup> Decemb er, 2007.	Abstract No. PS- 1-45, Page No. -70	International
64.	Isolation of Klebsiella pneumoniae from the patient having haematuria & the study of drug resistance	A.M.I. conference	Barkatulla Univ. Bhopal	Dec. 6 to 8, 2006	Abstract book page No. 102, MG-42	International
65.	Study of CD <sub>4</sub> count in HIV-1 (c-strain) infected individual following therapy of non toxic herbal extracts of <i>Phyllanthus reticulates</i> , <i>Tinospora cordifolia</i> , <i>Chlorophytumbarivilianum</i> , <i>Wagatia spicata Dalz</i> and two other patented Novel Herbs	A.M.I. conference	Barkatulla Univ. Bhopal	Dec. 6 to 8, 2006	Abstract book page No. 102, MG-42	International
66.	Study of absolute CD <sub>4</sub> - court in the HIV-1 (C-strain) infected individual following therapy of non-toxic herbal extract of <i>Phyllanthus reticulates</i> , <i>Tinospora cordifolia</i> , and two other patented Novel Herbs	46th AMI conference	Osmania University Hyderabad.	Dec. 8 to 10-2005	Page No. 120 Abstract No. Med-01).	International
67.	study of viral load & thrombocyte count in the HIV-1 (c-strain) infected individual following therapy of nontoxic herbal extracts	46th AMI conference	Osmania University Hyderabad.	Dec. 8 to 10-2005	Page No. 146 Abstract No. Med-66).	International
68.	Study of absolute CD <sub>4</sub> count in the HIV-1 (c-strain) infected individuals following therapy of the non toxic herbal extracts of <i>Phyllanthus reticulates</i> , <i>Tinospora cordifolia</i> , and two other Novel drugs	Indo-Australian conference on biotechnology in infectious diseases	Kasturba Medical College, MANIPAL	March 1-3, 2005	P-81, Page No. 113.	International
69.	Study of Plasma Homocysteine count in the HIV-1 (c-strain) infected individuals following	Indo-Australian conference on biotechnology in	Kasturba Medical College, MANIPAL	March 1-3, 2005	P-82-Page No. -114.	International

	therapy of the non toxic herbal extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs	infectious diseases				
70.	Study of thrombocyte & viral load in the HIV-1 (c-strain) infected individual following therapy of nontoxic herbal extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs	Indo-Australian conference on biotechnology in infectious diseases	Kasturba Medical College, MANIPAL	March 1-3, 2005	P-83-Page No. -115	International
71.	Study of thrombocyte count in the HIV-1 (c-strain) infected individual following therapy of nontoxic herbal extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs	Symposium on molecular basis of disease	Indian Institute of Technology, Madras (IITM).	January 8,9, 2005	Advanced Biotech, Page No. 19, Volume – 111, issue 7	International
72.	Study of absolute CD <sub>4</sub> count in the HIV –C-strain) infected individual following therapy of the non toxic herbal extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs	Symposium on molecular basis of disease	Indian Institute of Technology, Madras (IITM).	January 8,9, 2005	Advanced Biotech, Page No. 18, Volume – 111, issue 7	International
73.	Study of Plasma Homocysteine in the HIV-1 (c-strain) infected individual following therapy of the non toxic herbal extract of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs”,	45 <sup>th</sup> AMI conference, Microtech 2k4	National Dairy Research Institute, Karnal – 132001 (Haryana).	November 23-25, 2004	Abstract MPM-4, Page No. 118,	International
74.	Study of absolute CD <sub>4</sub> count in the HIV-1 (c-strain) infected individual following therapy of the non toxic herbal extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs	45 <sup>th</sup> AMI conference, Microtech 2k4	National Dairy Research Institute, Karnal – 132001 (Haryana).	November 23-25, 2004	Abstract MPM-6, Page No. 119,	International
75.	Isolation and Characterization of laboratory fungi	45 <sup>th</sup> AMI conference, Microtech 2k4	National Dairy Research Institute, Karnal – 132001 (Haryana).	November 23-25, 2004	Abstract ECO-10, Page No. 29,	International
76.	Study of absolute CD <sub>4</sub> count and plasma homocysteine in the HIV-1 (c-strain) infected individual following therapy of the non toxic extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drugs”	ASM 104th GENERAL MEETING, New Orleans, USA	Central Hall ASM, New Orleans, USA	May 23-27, 2004	Abstract No. 4906 T-028, Page No. 143	International
77.	Reactivity p-24 antigens in HIV-1	44 <sup>th</sup> annual	AMI local chapter,	12-14	Page No.	Intern

	infected individuals following long term ayurvedic therapy”	conference of A.M.I	Dharwad-Karnataka	Nov. 2003	266,	ational
78.	Study of absolute CD <sub>4</sub> count in the HIV-1 infected individual following therapy of the non toxic extracts of <i>Phyllanthus reticulatus</i> , <i>Tinospora cordifolia</i> and two other novel drug	44 <sup>th</sup> annual conference of A.M.I	AMI local chapter, Dharwad-Karnataka	12-14 Nov. 2003	Page No. 262,	International
79.	Study of viral load, CD <sub>4</sub> , count and opportunistic infections in the HIV-1, infected individuals	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	MVM-30, Page No. 75	International
80.	Formulation of modified coriander seed agar medium	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	MBT-61, Page No. 78	International
81.	Growth study of <i>Penicillium chrysogenum</i> in coriander broth medium	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	MBT-60, Page No. 128	International
82.	Study of nutrient utilization in coriander seed broth” by the fungus <i>Penicillium chrysogenum</i>	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	MBT-59, Page No. 127	International
83.	Formulation of fungal growth medium	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	MBT-58, Page No.127	International
84.	Study of fungal pigmentation on newly formulated medium and its comparison with respect to traditional fungal medium	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	MBT-62, Page No. 129	International
85.	Use of <i>Daphnia magna</i> as bioindicator of water pollution	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	EMB-23, Page No. 152	International
86.	Death rate of <i>Daphnia magna</i> as marker for toxic pollutants in water	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	EMB-24, Page No. 152	International
87.	Comparative study of <i>Bacillus thuringiensis israelensis</i> H-14 formulations with respect to its mosquitocidal activity	43 <sup>rd</sup> annual conference of A.M.I.	Agricultural University, HISAR	December, 11-13, 2002	BC-12, Page No. 169	International
88.	Study of thrombocyte count in the	International conference on	Hotel Taj,	16-19 Decemb	Pg	Intern

	HIV-1 infected individuals.	HIV / AIDS	Mumbai, India	er 2001		ational
89.	Formulation of enrichment medium for <i>Cladosporium oxysporum</i>	42 <sup>nd</sup> AMI Conference, Gulbarga	Gulbarga University, Gulbarga	9-11 November 2001	Pg	International
90.	Study of Absolute-CD <sub>4</sub> Count in the HIV-1 infected individuals following therapy of herbal extracts	42 <sup>nd</sup> AMI Conference, Gulbarga	Gulbarga University, Gulbarga	9-11 November 2001	Oral presentation	International
91.	Study of thrombocyte count and absolute – CD4 Count’ in the HIV- 1 infected individuals following therapy of herbal extracts”	41 <sup>st</sup> AMI conference, Jaipur,	AMI local chapter, Jaipur	November, 25-27, 2000	Pg.	International
92.	Effect herbal extracts on the CD <sub>4</sub> & CD <sub>8</sub> antigens and study of physical parameters in the HIV infected individual.	International Conference on Microbial biotechnology, trade and public policy, Hyderabad	Osmania University, Hyderabad	15 <sup>th</sup> to 17 <sup>th</sup> July 2000	Pg.	International
93.	Effect of HIV replication on the population of WBCs and the reactivity of p-24 antigen in the infected individual following long terms ayurvedic therapy”	40 <sup>th</sup> Annual A. M. I. Conference	AMI Unit, Bhubaneswar	January, 22-24, 2000	Pg.	International
94.	Effect of Sodium taurocholate and other inorganic compounds on spore germination of <i>Cladosporium oxysporum</i>	39 <sup>th</sup> Annual, A.M.I. conference,	AMI Unit Mangalore	December, 5-6, 1998.	Pg.	International

**12. WEBINARS ATTENDED**

:

Sr. No.	Title of the Webinar	Organized By
1.	The impact of research data and metrics	Skyline University College
2.	CAS promotion issues and E- content development	Dnyandeo Mohekar Mah
3.	Covid-19 Lab parameters as early indicators and prognostic	Transasia Biomedical Lim

	markers. speaker- Dr.Sitalakshmi Subramanian, Professor, Head, Lab services, Transfusion Medicine and Immunohaematology, St. Johns Medical College and Hospital, Bengaluru		
4.	Revised NAAC assessment and Accreditation: Nurturing quality culture	IQAC Cluster India in Mahavidyalaya,Ambejogai.	association w
5.	Covid-19: Understanding the evolving pandemic-Laboratory perspective Speaker: Dr.Sujay Prasad, Technical Director, Neuberg Anand Reference Laboratory, Bengaluru.	Transasia Biomedicals Limited	
6.	Effective research paper writing by Dr. Pragyesh Kumar Agarwal	Career College, Bhopal	
7.	Covid-19 Biology, Clinics and laboratory diagnostics Speaker : Dr. Giuseppe Lippi (M.D.), University Hospital of Verona, Italy (International Webinar)	Transasia Biomedicals Limited	
8.	Diagnostic and clinical aspects and moving towards the new normal Speakers: Dr. Preet Kaur, Dr. Sonal Saxena, Dr. Bharati Vadhava, Dr. Seema Tyagi	Transasia Biomedicals Limited	
9.	Thyroid Test Technology and Disorder Speaker: Dr. A. Velumani, Creator, Thyrocare, Mumbai.	Transasia Biomedicals Limited	
10.	Global and Food security in post Covid era	Bareilly College Bareilly with Asian PGPR	
11.	One Day National Level Workshop on 'Advanced Google Form' (Webinar)	T.C.College, Baramati	
12.	Perspectives for Microbiology Graduates and post graduates in Industries and Research	Matoshri Bayabai Mahavidyalay Kadegaon,	Shripatrao K Dist Sangali

13.	<b>ORIENTATION/REFRESHER COURSES</b>		
-----	--------------------------------------	--	--

**REFRESHER COURSES**

- 1) Completed refresher course in 'Environmental Science (Microbiology.) conducted by UNIVERSITY OF PUNE in the period of 1-12-2000 to 28-12-2000 & honored by outstanding performance (0-grade)
- 2) Completed refresher course in 'Life-Science' organized by Goa University in the period of 23-08-2007 to 12-09-2007 and honoured by "A" Grade.
- 3) Completed P.G.D.H.E. course (Post Graduate Diploma in Higher Education) of I.G.N.O.U. (Indira Gandhi National Open University). December 2009
  - As per U.G.C. notification D.O. No. F.1-6/90 (ASC), September 1993, para b), the P.G.D.H.E. course of I.G.N.O.U. is equivalent to one orientation course and two refresher courses.
  - As per Maharashtra State Government resolutions No. NGC-1298 /(4619)/UNI-4, dt. 11<sup>th</sup> December 1999, Page No. (8), Clause No. (13)- ii), a lecturer will be eligible for placement in a senior scale through a procedure of selection if she/he has ---"engaged in other appropriate continuing education programs of comparable quality as may be specified or approved by the University Grants Commission".

Thus P.G.D.H.E. of I.G.N.O.U., is appropriate education program of comparable quality as per U.G.C. notification D.O. No. F-1-6/90 (ASC), September 1993, Parab)
- 4) Completed Faculty Development Program (2 weeks)on 'Managing online classes and co-creating MOOCS', April 20 to May 6, 2020 (everyday 6 pm to 2 am flexible), organized by Ramanujan College, University of Delhi.
- 5) Completed Faculty Development Program (1 week) on 'NAAC Assessment and Accreditation', 21<sup>st</sup> May to 25<sup>th</sup> May 2020, (9.00 am to 2.00 pm) organized by MSP Mandal's Shri Shivaji College, Parbhani.

6) Completed Faculty Development Program (2 weeks) on 'MOOCS', May 22 to June 30, 2020 (everyday 6 pm to 2 am flexible), organized by Ramanujan College, University of Delhi.

Thus

Net creditable orientation programs – O1 (ONE)

Net creditable refresher programs – 04 (FOUR)

Net Creditable Faculty Development Programs ( 2 Weeks) -02 (TWO)

Net Creditable Faculty Development Programs ( 1 Weeks) -01 (ONE)

**14. ADMINISTRATIVE ASSIGNMENTS**

Position	Institution	Duration
Department of Microbiology	Yashwantrao Mohite College of Arts, Science and Commerce,Pune	31/1/2018 TO

**15. INVITED LECTURES/KEYNOTE ADDRESSES/SESSION CHAIRS**

Sr. No.	Title of the speech	Title of the event	Organized
1	Intellectual property rights and patent registration	3 days workshop on 'Innovations in Teaching and Learning in Life'	Teaching (Center College, S
2	Innovative methods in teaching	3 days workshop on 'Innovations in Teaching and Learning in Life'	Teaching (Center College, S
3	Intellectual property rights and patent registration	One day National Webinar on Intellectual property Rights in Life Sciences.	Microbiolo Lakhandu Science Co
4	Intellectual Property Rights	Lead College Activity	S.G.M. Co

5	Review of Publication	Review of Publication	Journal of American Hear
---	-----------------------	-----------------------	--------------------------

**16. ASSOCIATION WITH PROFESSIONAL BODIES :**

Sr.	Position	Name of the Professional Body
1	Coordinator, PUNE UNIVERSITY	Microbiologist Society, India.
2	Member	American Society for Microbiology
3	Member	Association of Microbiologist of India

**17. KNOWLEDGE EVENTS ORGANISED :**

Sr.	Title of the Event	Level	Date(s)	Position
1	Campus Drive for Placements	UG/PG	June 2019	Organizer
2	Campus Drive for Placements	UG/PG	May 2020	Organizer

**18. ACADEMIC ODYSSEY :**

**a) Foreign Countries :**

Sr.	Name of the City and Country	Date(s)
1	USA, New Orleans	2004

**b) India :**

**Write only the name of the State visited for academic purpose.**

1	Tamil Nadu	2	Gujarat	3	Harayana
4	Andhra Pradesh	5	Karnataka	6	UP and MP Etc.

**19. POLICY DOCUMENTS :**

Sr. No.	Title	Party no.1	Party no. 2	Date of policy document
1	Agreement for seeking Intellectual Property Rights	Bharat Bajarang Ballal	National Biodiversity Authority, Government of India.	12 August 2010
2	Agreement for seeking Intellectual Property Rights	Bharat Bajarang Ballal	National Biodiversity Authority, Government of India.	12 July 2017



3	Consent for mutual co-operation for the purpose of research.	Bharat Bajarang Ballal	Golwilkar Metropolis	3 June 2013
4	Haffkine Policy Document	Bharat Bajarang Ballal	Haffkine Research Institute Mumbai	29 August 2008
5	Applied Research Institute	Bharat Bajarang Ballal	Government of Maharashtra	20 January 2011
6	Elixir Society for HIV Infected Individuals	Bharat Bajarang Ballal	Government of Maharashtra	07/01/2008
7	Dossier	Bharat Bajarang Ballal	Dinakar Ayurvedic Pharmacy, Karad	01/01/2008
8	Prepared Proposal for running skill based programme for the academic year 2020-2021 B.Sc. (DMLT)	Bharat Bajarang Ballal	UGC New Delhi	23/05/2020

**20. AWARDS AND HONOURS** :

**I) Awards conferred by scientific communities.**

- 1) Presented a research paper titled, "Effect of HIV replication on the population of WBCs and the reactivity of p-24 antigen in the infected individuals following long term ayurvedic therapy" at 40<sup>th</sup> Annual A.M. I. Conference, **Bhubaneswar, January, 22-24, 2000. This paper bagged best research paper award.**
- 2) Presented research paper titled, "Reactivity p-24 antigens in HIV-1 infected individuals following long term ayurvedic therapy" at 44<sup>th</sup> annual conference of A.M.I. (Page No. 266, abstract book 12-14 Nov. 2003, Dharwad-Karnataka and **received the best research paper award in immunology and medical session.**
- 3) Presented a research paper titled : "Study of CD<sub>4</sub> count in HIV-1 (c-strain) infected individuals following therapy of non toxic herbal extracts of *Phyllanthus reticulatus*, *Tinospora cordifolia*, *Chlorophytum barvillianum*, *Wagatia spicata Dalz* and two other patented Novel Herbs. (A.M.I. conference Abstract book Page No. 86, MG-11, Dec. 6 to 8, 2006 Barkatulla Univ. Bhopal). **The paper bagged best research paper award in Molecular biology section.**
- 4) Research paper titled 'Effect of herbal extract on Thrombocyte count in HIV-1 (C-strain) infected individuals" was presented at "National Conference on new frontiers in herbal and synthetic drug studies" dated 14<sup>th</sup> to 16<sup>th</sup> Jan 2010. **The paper bagged 'Best Research paper award.**
- 5) Received the award from FRIEND'S INTERNATIONAL , USA for exemplary contribution in the field of AIDS research.( 6<sup>th</sup> September 2012)
- 6) Certificate of BEST INTERJECTOR during ASM Virtual Workshop on Scientific Writing and Publishing organized by The American Society for Microbiology at Kalinga Institute of Industrial

Technology, Bhubaneswar, Odisha, India.( 22<sup>nd</sup> November 2012 )

7) Academic achievement by Microbiologist's Society of India dt. 2<sup>nd</sup> July 2017.

8) Second prize in the research paper presentation at National level seminar on 'Current Trends in Identification and Diagnostics' dt. 10<sup>th</sup> December 2019.

**II) Awards conferred by community**

9) For social activities by Sangar Community, Pune 25/12/1999.

10) For social activities by Bhusari Colony, Munch Pune (2005)

11) For AIDS Research, by Dilasa Sanstha, Pune dt. 16/10/2007.

**12)'Best Teacher Award' by Pune Municipal Corporation dt. 5/9/2013**

**21. CONSULTANCY**

Sr. No.	Title of the Project	Organization	Nodal Agency for Evaluation	Period
1	Technology transfer to Dinakar Ayurvedic Pharmacy	Dinakar Aayurvedic Pharmacy, Karad	FDA	02/01/2012 to 02/01/2022
2	HIV testing and counselling (Evidence NARI letter dt 5/11/96	National Institute of Virology	NIV	1995-96
3	HIV testing and counselling (Evidence NARI letter dt 25/09/2000	National Institute of Virology	NIV	2000-2001
4	Evaluation of microbial load in State Transport Vehicle dt 11/07/2012 letter of depot manager	Maharashtra State Transport Depot, Pune	S.T., Maharashtra	2012-13
5	Making Science Fun Sunday Sakal Times dt 10/03/2013	Applied Research Institute, Pune	Applied Research Institute	2013 onwards
6	Extended Consultancy services for drafting and filing of patent vide application number E45/2751/2020/MUM entitled, 'A Novel product for blocking RNA replication of Covid 19 virus using innovative procedure for isolation of active agent from blended formulation of	<b>News on You Tube:</b> <a href="http://youtu.be/a9zrxHMOYoo">http://youtu.be/a9zrxHMOYoo</a>	Patent Office Mumbai	14/05/2020

	Isoborneol flakes, Mentha Spicata and Trachyspermum ammi			
--	--	--	--	--

**SEMINARS / SYMPOSIA / CONFERENCES ATTENDED WITH NO PRESENTATIONS**

- 2) Impact of pollution on Biosphere, Duration 11<sup>th</sup>& 12<sup>th</sup> Feb. 2000, organized by Y. M. College, Pune – 411038.
- 3) Emerging technologies in Life Sciences dt. 16<sup>th</sup> Feb. 2002, organized by Y. M. College, Pune – 411038.
- 4) Recent Trends in Bioinformatics dt. 1<sup>st</sup> Oct. 2002, organized by Y. M. College Pune – 411038.
- 5) Biodiversity, perspectives and challenges in 21<sup>st</sup> Century dt. 11<sup>th</sup> Oct. 2006, organized by Y. M. College, Pune – 38.
- 6) 'Symedin 2009' a symposium on 'Medical Instrumentation 2009' dt. 31<sup>st</sup> Jan. & 1<sup>st</sup> Feb. 2009, organized by Government College of Engineering, Pune.
- 7) UGC sponsored Symposium on 'Entrepreneurship :A Gateway for Biologists 2015, 22<sup>nd</sup> Dec. 2015, organized by BVDU Yashwantrao Mohite College of Arts ,Science and Commerce , Pune 38.
- 8) Symbiosis School of Biomedical Sciences Organized Symposium on 'Emerging Trends in Biomedical Sciences', 27<sup>th</sup> Jan. 2016.
- 9) Microbial Culture Collection Pune organized two day workshop on 'Nomenclature of Archaea and Bacteria held during 9-10 Sept. 2016
- 10) One day state level Microbiologists students meet, dt 2<sup>nd</sup> July 2017 organized by Haribhai V. Desai College.
- 11) One day state level Inter University Microbiology teacher's meet, dt 25<sup>th</sup> June 2017 organized by Haribhai V. Desai College.
- 12) Two days state level seminar on 'Frontiers in Microbiology and Annual Microbiologist's meet-2018' dt. 20<sup>th</sup> -21<sup>st</sup> October 2018 organized by Microbiologist Society of India and HPT Arts and RYK Science College, Nashik
- 13) One day International Symposium on Microbiomix : From Space to Gut held on November 17, 2018 at NCCS Pune, India.
- 14) One day seminar on Entrepreneurship: A Gateway For Biologists, 2018 organized by Association of Microbiologists of India, Pune Unit dt. 09/10/2018.
- 15) One day national seminar on Innovative Practices in Life Sciences, dt. 5<sup>th</sup> March 2019. Organized by Y.M.College, Pune.
- 16) Two Days State Level Conference on 'Current status of River Water in Pune With Reference to Pollution, Management and Restoration' dt 3<sup>rd</sup> and 4<sup>th</sup> Feb 2020, organized by Haribhai Desai College, Pune.

**EXTENSION WORK**

- 1) Delivered the lecture on 'Socio economic impact of AIDS' at the function organized by 'FRIEND'S

INTERNATIONAL , USA' at Sahitya Parishad Pune on 6<sup>th</sup> September 2012

- 2) Completed pilot study regarding possible transmission of diseases from State Transport Vehicles on request of Depot Manager Swargate Bus Depot ,Pune , with the reference number RP/ASTHA/SWAR/PRATHA/1092 Dt. 11/7/2012
- 3) Delivered the lecture on 'Beneficial and Harmful Microorganisms', at 'Dagdusheth Halwai Trust's Children Sanatorium, Kondhawa,Pune. The lecture was organized On Sunday 4-03-2012.
- 4) Published health article in the Marathi magazine named "Smaranika 2000' by Late Rajaram Tukaram Bhoite Smruti Arogya Prathishthan, Baramati dt. 04/02/2001
- 5) Published health article in the Marathi magazine named "Arogyita", April 2007, by lynxeyedivisions health publisher.
- 6) Written various newspaper articles in newspaper like Lokmat, Aikya etc. The newspaper like Sakal, Tarun-bharat, Kesari, Indian Express facilitated dissemination of scientific information.
- 7) In associations with former additional director of Maharashtra State AIDS control society (MSACS), Dr. S.S. Narvekar, recommended suggestions to Government of INDIA for amendment of ART guidelines.
- 8) In associations with National AIDS Research Institute (NARI) Pune, implemented AIDS counseling program.
- 9) Registered as volunteers to fight against Covid-19 and extended technical help to sanction for vaccine trial center at Krushna Hospital Karad through Dr. RUTUJA MORE, CONSULTANT  
KRISHNA HOSPITAL,KARAD

--	--	--	--	--