
DR. NIRAJ ARUN GHANWATE

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PERSONAL VITAE

Name : Niraj Ghanwate
Father Name : Shri Arun Panjabrao Ghanwate
Mother Name : Sau. Rekha Arun Ghanwate
Date of Birth : 23rd September 1974
Languages : Marathi, Hindi, English
Gender : Female
Marital status : Married
Religion : Hindu
Category : OBC

Currently working as Technical Officer in COVID 19 Molecular Diagnostic Laboratory at Sant Gadge Baba Amravati University, Amravati, Maharashtra, India. The lab was established in April 2020 as a Government lab and till date we have successfully processed with more than 85,000 samples for RT- PCR.

TEACHING EXPERIENCE

Sr. No	Joining	Leaving	Designation	Organization
1	20 th Nov 2008	Till date	Assistant Professor	PG Dept. of Microbiology, Sant Gadge Baba Amravati University, Amravati.
2	12 th Jan 1998	19 th Nov 2008	Demonstrator	Dept. of Microbiology, Dr. P D M Medical College, Amravati.

ACADEMIC QUALIFICATIONS

Qualification	Specializations	University	Year	Percentage
Ph.D	Microbiology	Amravati	2004	-
M. Sc.	Microbiology	Amravati	1997	71.8%
B. Sc.	Micro, Zoo, Che	Amravati	1995	69.1%

PROJECT

Sr. No.	Title	Agency	Period	Grant
1	Evaluation of Minimum Inhibitory Concentration and Minimum Biofilm Eradicating Concentration of selected antibiotics in biofilm producing uropathogenic <i>E.coli</i> . (Principal Investigator)	University Grants Commission	Two Years	RS. 1,70,000/-
2	Studies on Bacterial Colonization and Prevention of Biofilm in Urinary Catheters (Principal Investigator)	University Grants Commission	Three Years	Rs. 13,20,000/-
3	Development of Innovative Diagnostic kits to	Rajiv Gandhi Science and	Three Years	Rs. 39,04,960/-

	combat Antibiotic Resistance among multi drug resistant bacterial pathogens. (Co-investigator)	Technology Commission, Mumbai		
4	Development of novel urinary catheter that prevents colonization, biofilm formation and encrustation by bacterial pathogens (Principal Investigator)	Rajiv Gandhi Science and Technology Commission, Mumbai	Three Years	Rs. 42,55,825/-
5	Development of assay kits using tetrazolium salts for rapid detection of antibiotic susceptibility for clinically isolated pathogens. (Mentor)	Department of Science and Technology, Government of India.	Three Years	Rs. 21,18,560/-

PATENTS

Sr. No	Title	Filing Details	Publication Date	Status
1.	Colorimetric method and kit for rapid detection of methicillin resistant <i>Staphylococcus aureus</i>	Application No.201721004652 A	17/02/2017	Granted On 20/11/2020
2.	Method for rapid detection of minimum biofilm eradicating concentration Of antibiotics against bacterial pathogens	Application No.201721039367 A	24/11/2017	First Examination Report Received

PUBLICATION AND PAPER PRESENTATION

Research Publication

International/National Journals

Sr. No	Title	Journal	ISSN/ISBN No.
1	N-Succinyl-L,L-Diaminopimelic Acid Desuccinylase (DapE) a Potential Biomarker of Mycobacterium Tuberculosis: Tag-Free Purification by Metal Affinity Chromatography	Trends in Peptide and Protein Sciences DOI: http://dx.doi.org/10.22037/tpps.v5i0.31578 Sept 2020	Online ISSN: 2538-2446
2	Cloning, expression, and refolding of Nsuccinyl-L-l diaminopimelic acid desuccinylase (DapE) of <i>Mycobacterium tuberculosis</i>	International Journal of Life Sciences Research Pg. 110-115, Vol. 7, Issue 3, Month: July - September 2019	ISSN 2348-313X (Print) ISSN 2348-3148 (online)
3	Occurrence of pathogens in urinary catheters, its ability to form biofilm, antibiotic resistance and the use of triclosan to control catheter colonization	Open Journal of Medical Microbiology Impact Factor: 0.77	ISSN P: 2165-3372 ISSN E: 2165-3380
4	Screening of Antimicrobial Properties of Phenol Schiff Bases	International journal of pharmaceutical sciences and research 2017; Vol. 8(12): 1000-07 Impact Factor: 1.55	E-ISSN: 0975-8232; P-ISSN: 2320-5148

5	Importance of biofilm in medical sciences: With special reference to uropathogens	African Journal of Microbiology Research Vol. 10(34), pp. 1371-1379, 14 September, 2016 Impact Factor: 1	ISSN 1996-0808
6	Antimicrobial Activity and Phytochemical Screening of Methanol Extract of Chlorophytum kolhapurens and Chlorophytum baruchii	International Journal of Pharmacognosy and Phytochemical Research 2016; 8(5); 794-799 Impact Factor: 1.341	ISSN: 0975-4873
7	Colorimetric method for rapid detection of Oxacillin resistance in <i>Staphylococcus aureus</i> and its comparison with PCR for <i>mec A</i> gene	Scientific Reports 6, Article number: 23013 (2016) doi:10.1038/srep23013 Impact Factor: 5.578	ISSN: 2045-2322
8	Doctors Pen: Fomite for a super bug Methicillin Resistant <i>Staphylococcus aureus</i>	Journal of Pure and Applied Microbiology, 9(3), Sept 2015, 2611-2614 Impact Factor 0.06	ISSN 0973-7510
9	Prevention of Biofilm Formation in Urinary Catheters by Treatment with Antibiofilm Agents	International Journal of Science and Research 3(4),714-717, April2014 Impact Factor 3.52	ISSN (Online): 2319-7064
10	Diagnostic Evaluation of Blood Culture	Environment Observer, Vol.14, Nov 2013, 60-61	ISSN 2320-5997
11	Detection of Biofilm Formation among the Clinical Isolates of Staphylococci by Different Methods and Its Correlation with Antibiotic Resistance	Bionano Frontier, 6(3), 67-71, September 2013	ISSN 0974-0678
12	Prevention of Biofilm formation in Urinary Catheter by coating Enzymes/ Gentamycin/EDTA	World Academy of Science, Engineering and Technology 70, 739-741, Oct 2012	ISSN 2010-376X
13	Biofilm eradication studies on uropathogenic <i>E. coli</i> using ciprofloxacin and nitrofurantoin.	International Journal of Pharmaceutical and Biomedical Research 3(2), 127-131, June 2012	ISSN 0976-0350
14	Study on biofilm production by uropathogenic <i>Escherichia coli</i> isolated from tertiary health care centers of Vidarbha and its correlation with antibiotic susceptibility.	Journal of Pure and Applied Microbiology, 6 (2) Impact Factor 0.06	ISSN 0973-7510
15	Antimicrobial and synergistic activity of ingredients of betel quid on oral and enteric pathogens	Bioscience Discovery, 3 (1), 47- 51, Jan. 2012,	ISSN 2229-3469
16	Occurrence of extended spectrum β -lactamases among <i>E. coli</i> and <i>Klebsiella pneumoniae</i> isolated from urinary tract infection from tertiary health care center in Amravati district.	Bioscience, Biotechnology Research Asia, 8(2),849-852, Dec 2011	ISSN 0973-1245
17	Synthesis and antimicrobial properties of flavone imines.	Oriental journal of chemistry, 24(2); 721-724, April 2008	ISSN 0970-020X

18	Synthesis and antimicrobial activity of chalcone imines.	Oriental journal of chemistry, 24(2); 733-736, April 2008	ISSN 0970-020X
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International Conference (Poster Presentation)

Sr. No	Title	Duration	Theme
1	Biofilm Production by Uropathogenic <i>Escherichia coli</i> and its correlation with minimum inhibitory and minimum biofilm eradicating concentration of selected antibiotics.	52 nd AMI 3-6 Nov 2011	Annual Conference, International Symposium on Chandigarh
2	Study on biofilm production by uropathogenic <i>Escherichia coli</i> and its correlation with antibiotic susceptibility	51 st AMI 14-17 Dec 2010	Recent Advances in Cross-disciplinary Microbiology: Avenues and Challenges, Ranchi
3	Evaluation of Minimum Inhibitory Concentration and Minimum Biofilm Eradicating Concentration of selected antibiotics in biofilm producing Uropathogenic <i>E. coli</i> .	1-3 July 2011	Microorganisms in Environmental Management and Biotechnology, Bhopal
4	Prevention of Biofilm formation in Urinary Catheter by coating Enzymes/ Gentamycin/ EDTA	15-16 October 2012	International conference on Bioinformatics, Computational Biology and Biomedical Engineering, Lucerne, Switzerland.
5	Prevention of Biofilm formation in Urinary Catheter by Intraluminal Antibiofilm coating	22-25 Nov 2012	Microbial World: Recent Innovations and Future Trends, Dept of Biotechnology, KIIT University, Bhubaneswar
6	Evaluation of Minimum Biofilm Eradicating Concentration of Uropathogenic <i>E. coli</i> by using 3-(4, 5-Dimethyl-2-thiazolyl)-2, 5-diphenyl-2 H-tetrazolium bromide (MTT)	28-29 June 2013	Biotechnology, Bioinformatics and Bioengineering, Tirupati, Andhra Pradesh
7	Methyl thiazole tetrazolium bromide based colorimetric method for rapid detection of Oxacillin resistance in <i>Staphylococcus aureus</i> and its comparison with PCR for <i>mecA</i> gene.	25-27 November 2013	International Conference on Advances in Biotechnology and Bioinformatics ICAAB 2013, D Y Patil Vidyapeeth, Pune
8	Prevention of Bacterial Attachment to Foley Urinary Catheter using Copper Nanoparticles.	21-23 November 2014	International Symposium on Genetic Analysis Trasional and Developmental, University of Burdwan
9	Minimum inhibitory and Minimum Biofilm Eradicating concentration of Copper Nanoparticles against biofilm forming wound pathogens	03-04 Aug 2015	2 nd International Conference on Biotechnology and Pharmaceutical Sciences, Hyderabad, India.

10	Comparison of tests to detect MRSA and to correlate Methicillin resistance with biofilm formation	Nov 22-25, 2015	National Institute for Interdisciplinary Research(CSIR), Trivandrum, Kerala, India
11	Expression of Type 1 Fimbriae enhances virulence of Uropathogenic <i>E. coli</i> by biofilm formation	8-10 Dec, 2016	International Conference on Current Trends In Biotechnology, VIT Vellore, India
12	Phenotypic and genotypic identification of ESBL among <i>Pseudomonas</i> species isolated from urinary catheters.	November 16th-19th, 2017	58th Annual Conference of AMI, Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow, UP, India.
13	Isolation, identification and susceptibility profile of biofilm forming nosocomial pathogens from used urinary and venous catheters.	22-25 Nov 2018	CSIR-Indian Institute of Chemical Technology, Hyderabad, India Indian Institute of Chemical Technology, Hyderabad, India
14	Biofilm eradication studies on uropathogenic <i>E. coli</i> using ciprofloxacin and nitrofurantoin	26-27 Nov 2018	International Conference on Women Empowerment and Leadership, Gondia Education Society, Dhote Bandhu Science College, Gondia.
15	Studies on bacterial colonization of urinary catheters and strategies for its prevention	15- 18 Nov 2019	International Symposium on Microbial Technologies in Sustainable Development of Energy, Environment, Agriculture and Health. Central University of Haryana, City:- Mahendragarh, Dist.:- Mahendragarh, State:- Haryana

National Conference (Poster Presentation)

S. N	Title	Duration	Theme
1	Prevention of Biofilm formation by intraluminal coating of Urinary catheter with copper nanoparticles	28 th Feb 2016	Nanotechnology Today and Tomorrow, JB Science College, Wardha
2	Biofilm formation by Fungal Pathogen, <i>Candida albicans</i> : Development and Drug Resistance	27-28 March 2015	Recent trends in Applied Microbiology, Human Health and Environment
3	Screening of antibacterial and antifungal properties of phenol Schiff's bases	6-7 Feb 2012	National conference on Mycodiversity with its Sustainable exploration and Biotechnological applications.

4	The ethics of prescribing antibiotics and drug resistance	28-30 Jan 2011	XI All India Meeting of Women in Science and Technology: Ethical Issues
5	Synthesis and antimicrobial activity of chalcone imines.	2-3 Feb 2000	National Conference on Recent Trends in Biotechnology
6.	Phenotypic and Genotypic Identification of ESBL among <i>Pseudomonas</i> Species Isolated From Urinary Catheter		Recent Trends In Life Sciences For Sustainable Development (RTLSSD)-2019. P. G. Department of Zoology And IQAC, Sant Gadge Baba Amravati University, Amravati

Workshop

Sr. No	Theme	Duration	Organizer
1	Short term training course in techniques in genetic engineering	15-21 Feb 2009	Department of Biotechnology, S G B Amravati University
2	Two day workshop on Massive Training of teachers for students counseling	6-7 Sept 2010	Student Welfare Department, S G B Amravati University
3	Regional Teachers Training Workshop	7 th Sept 2002	Dr. P D M Medical College, Amravati
4	COVID 19 molecular diagnostic training	3 rd April 2020	All India Institute of Medical Sciences, Nagpur

ACCOMPLISHMENT

- As member of Internal Quality Assurance Cell (IQAC) Core Committee, S G B Amravati University.
- Represented the University as a team manager in the Inter University research festival "Avishkar" for the year 2010 and 2011
- As member of Central Admission Committee of S G B Amravati University.
- Anchored the socio academic programme in the university.
- As a scientist Incharge and Member of Institutional Animal Ethical Committee of Animal facility of Dr. P D M Medical College Amravati.
- As member of Internal BioSafety Committee in various institutions.
- As member of PhD Entrance Test and various committees in the university.

DECLARATION

I do hereby declare that all the information furnished above is true to the best of my knowledge and belief.

Date : 20/01/2021
Place : Amravati

Niraj Arun Ghanwate