

Curriculum Vitae of Dr. Krishna Kumar Patel

DR. KRISHNA KUMAR PATEL

M.Sc, Ph.D. (Microbiology)

ASSISTANT PROFESSOR

Department of Microbiology

Govt. TCL P.G. College Janjgir,

Dist. Janjgir-Champa (C.G.), India

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Personal Details

Father's Name : Shri B. R. Patel

Date of Birth : February 06, 1978

Current Status : **Assistant Professor**, in the Department of Microbiology,
Govt. TCL P.G. College Janjgir,
Dist. Janjgir-Champa (C.G.), India

Sex : Male

Marital Status : Married

Languages known : English, Hindi

Nationality : Indian

I.A.M.M. : **Life Member Indian Association of Medical Microbiology
(LM-1575/06)**

EDUCATIONAL QUALIFICATIONS

DOCTOR OF PHILOSOPHY (Ph.D.)

Year : 2005
University/Institution : Pt. Ravishankar Shukla University, Raipur, India
Field : Medical Microbiology
Title of the Thesis : **Genus *Enterobacter* : isolation and characterization from clinical specimen & water"**
Date of Award : March 15, 2005

TECHNICAL QUALIFICATIONS

- ▶ **ASSISTANT PROFESSOR** in the Department of Microbiology at Govt. TCL P.G. College Janjgir, Dist. Janjgir-Champa (C.G.), India since 21st February 2017 to till date.
- ▶ **ASSISTANT PROFESSOR** in the Department of Microbiology at Acharya Panth Shri G.M.N.S. Govt. College, Kawardha, Dist., Kabirdham, (C. G.), India since 8th August 2016 to 20th February 2017.
- ▶ **ASSISTANT PROFESSOR** in the Department of Microbiology at Government Science College Ambikapur Surguja (C. G.) since 2nd September 2013 to 6th August 2016.
- ▶ **ASSISTANT PROFESSOR** in the Department of Microbiology at Government Medical College, Jagdalpur (C.G.) since 1st May 2012 to 30 April 2013.
- ▶ **ASSISTANT PROFESSOR** in the Department of Microbiology at Chhattisgarh Institute of Medical Sciences, Bilaspur (C.G.) since 14th August 2008 to 30th November 2011.
- ▶ **MICROBIOLOGIST** at State TB Training and Demonstration Center, Lalpur, Raipur (C.G.) since 28/06/2007 to 13/08/2008.
- ▶ **DEMONSTRATOR** in the **Department of Clinical Microbiology** at **Chhattisgarh Institute of Medical Sciences, Bilaspur (C.G.)** since 19/07/2005 to 26/06/2007.
- ▶ **Senior Research Scholar** in the **Department of Clinical Microbiology** at **Chhattisgarh Institute of Medical Sciences, Bilaspur (C.G.)** since November 2002 to Jun 2005.

TOTAL TEACHING EXPERIENCE:

S. N	DESIGNATION	INSTITUTION	DURATION	TOTAL YEARS
1	DEMONSTRATOR	Chhattisgarh Institute of Medical Sciences, Bilaspur (C.G.)	19/07/2005 to 26/06/2007.	1 Years 11 Months
2	ASSISTANT PROFESSOR	Chhattisgarh Institute of Medical Sciences, Bilaspur (C.G.)	14/08/2008 to 30/11/2011	3 Years 3 Months
3	ASSISTANT PROFESSOR	Government Medical College, Jagdalpur (C.G.)	01/05/2002 to 30/04/2013	1Year
4	ASSISTANT PROFESSOR	Government Science College Ambikapur Surguja (C. G.)	02/09/ 2013 to 06/08/2016	2 Years 11 Months
5	ASSISTANT PROFESSOR	Acharya Panth Shri G.M.N.S. Govt. College, Kawardha, Dist., Kabirdham, Chhattisgarh (C. G.)	08/08/ 2016 to 20/02/2017	6 Months
6	ASSISTANT PROFESSOR	Govt. TCL P.G. College Janjgir, Dist. Janjgir-Champa (C.G.)	21/02/ 2017 to till Date	3 Years 08 Months
Total Period of Teaching Experiences				12 Years 7 Months

LIST OF RESEARCH PAPER PUBLICATION

1. **K. K. Patel** and R. Murthy, (2006) *Enterobacter*: An emerging nosocomial pathogen. *Advancing frontiers of ecological researches in India* 421-436.
2. **K. K. Patel** and R. Murthy (2006) Hospital Acquired Infection: With Special Reference to genus *Enterobacter*, *National Journal of Life Sciences* 3 (3): 389-392.
3. **K. K. Patel** and R. Murthy (2009) Multiple drug resistant *Staphylococcus aureus* strains isolation from fish market and from fish handlers, *Journal of Microbial world* 11 (1): 54-58.

4. R. Murthy, **K. K. Patel**, Sarita Patel and K.R. Sahu (2009) Field-Test For Detecting of Fecal Contaminations In Drinking Water, *Life Sciences Bulletin* **6 (1): 63-66**.
5. M. Murthy, Sarita Patel, **K. K. Patel**, and R. Murthy (2009), Incidence Of Carbapenem Resistant Non-fermenting Gram-Negative Bacilli Isolated From Endotracheal Aspirate Infection In Critical Care Units. *National Journal of Life Sciences* **6 (3): 301-303**.
6. M. Murthy, Sarita Patel, **K. K. Patel**, and R. Murthy (2010) Emergence Of Carbapenem-Resistant Among Isolates Of *Pseudomonas aeruginosa* In Diabetes Patients. *Journal of Microbial world* **12 (1): PP 87-91**.
7. **K. K. Patel**, Sarita Patel (2010) Antimicrobial Resistance Among Nosocomial Isolates In A Teaching Hospital Chhattisgarh Institute of Medical Sciences, Bilaspur, Chhattisgarh *Columban J. Life Sci.* Vol. 11 No. 1& 2: 85-88.
8. Sarita Patel, **K. K. Patel** and K. R. Sahu (2010) Incidence of bacterial vaginosis in sexually active females. *National Journal of Life Sciences*, 7(3) 29-31.
9. **K. K. Patel**, Sarita Patel, and K. R. Sahu (2011) Antimicrobial Resistance Among Nosocomial Isolates In A Teaching Hospital Of Bilaspur (C.G.) *Life Science Bulletin*, 8(1) 94-96.
10. M. Murthy, **K. K. Patel**, P. Tembhornikar and R. Murthy (2011), Resistance Pattern of Extended-Spectrum β -Lactamase Producing Strains of *Escherichia coli* and *Klebsiella pneumoniae* In A Teaching Hospital of Chhattisgarh. *Life Sciences Bulletin* **8(1): 131-134**.
11. M. Murthy, **K. K. Patel**, L. Singh and R. Murthy (2011), Carbapenem Resistance Among Fermenting Gram Negative Bacilli Isolated from Patients with Respiratory Infection in critical care unit. *Journal of Microbial world* **13 (2): PP 286-288**.

12. **K. K. Patel**, Sarita Patel, and K. R. Sahu (2011) Therapeutic Challenges Associated With Extended Spectrum Beta -Lactamase (ESBL)-Producing *Escherichia coli* and *Klebsiella pneumoniae* ***Flora and Fauna*** 17 (1): PP 185-189.
13. **K. K. Patel** and Sarita Patel (2011) Incidence of ESBL & Amp-C Beta-lactamases and newer antimicrobial agents susceptibility to complicated urinary tract infection patients. ***Biospectra*** 6 (1) Sept. (Spl.issue) PP159-162.
14. **K. K. Patel** and Sarita Patel (2011) Prevalence of asymptomatic bacteriuria and lower urinary tract infection with type-2 diabetes mellitus ***Columban. J. Life Sci.*** Vol. 12 No. 1& 2: 118-121.
15. Sarita Patel, **K. K. Patel** (2011) Isolation and characterization of *Enterobacter Cloacae* from selected patients in a teaching hospital, Bilaspur, Chhattisgarh. ***Columban. J. Life Sci.*** Vol. 12 No. 1& 2: 127-130.
16. **K. K. Patel**, Sarita Patel and K. R. Sahu (2012) Incidence of clinical strains resistant to extended spectrum beta-lactamase (esbl) in a teaching hospital. ***Life Sciences Bulletin*** 9 (1): 7-10.
17. **K. K. Patel**, Sarita Patel (2012) Identification of antimicrobial susceptibility, aetiology and bacterial agents of neonatal sepsis in a teaching hospital ***Flora and Fauna*** 18 (1): PP 161-164.
18. **K. K. Patel**, Vishal Khare, Sarita Patel, Suneeta Patra and Devjyoti Majumdar (2012) Antimicrobial Resistance Pattern of Clinical Isolates of *Pseudomonas aeruginosa* in a Teaching Hospital ***Columban. J. Life Sci*** Vol. 13 No. 1& 2: 28-31.
19. **K. K. Patel**, V. C. Yadav, Sarita Patel, Vishal Khare and Devjyoti Majumdar (2012) Antimicrobial resistance pattern of Plasmid-Mediated Extended-Spectrum Beta-Lactamase producing strains of *Escherichia coli* ***Columban. J. Life Sci*** Vol. 13 No. 1& 2: 21-24.
20. **K. K. Patel**, D. Majumdar, Sarita Patel, R. Sujatha, D. N. Singh (2013) Emerging Ciprofloxacin And Multi Drug Resistant Salmonella Species Isolated From Patients With Enteric Fever In Chhattisgarh ***Journal of Evolution of Medical and Dental Sciences/ Volume 2/ Issue 10/ March 11, Page-1638.***

21. **Dr Krihna Kumar Patel**, Dr. Sarita Patel, Dr. Ramanesh Murthy, Dr. Madhumita Murthy, (2015) Multidrug-Resistant *Escherichia Coli* Urinary Isolates From Cases of UTI, International Journal of Research Studies in Biosciences (IJRSB) August 2015, PP 20-24.
22. **Dr. Krishna Kumar Patel**, Dr. Sarita Patel, Dr. Chandrakishor Chandrawanshi, Vishal Kahre, Medha Singh (2016) INCIDENCE OF FOSFOMYCIN ROMETHAMINE AGAINST EXTENDED SPECTRUM BETA-LACTAMASE PRODUCING URINARY TRACT BACTERIA, JOURNAL OF SCIENTIFIC RESEARCH AND ADVANCES , Vol. 3, No. 1, 2016, PP 175-179.
23. **Dr. Krishna Kumar Patel**, Dr. Sarita Patel, Dr. Chandrakishor Chandrawanshi, Dr. Vikas Kumar Jain, Deepali Rajwade, Dr. Santosh Agrawal, Vishal Kahre, Medha Singh, (2016) Detection of resistance pattern, extended-spectrum Beta -lactamase producing clinical isolates *Escherichia coli* and *Klebsiella pneumonia* International Journal of Applied Research 2016; 2(1): 523-525 Impact Factor: 5.2
24. **Dr. Krishna Kumar Patel**, Dr. Sarita Patel, Enterbacter spp. An emerging nosocomial infection, International Journal of Applied Research 2016; 2(11): 532-538
25. **Dr. Krishna Kumar Patel**, Dr. Sarita Patel, In vitro activity of fosfomycin tromethamin against ESBL: Producing Enterobacteriaceae of Urinary tract infection in India. International Journal of Advanced Research and development 2017; 2(4): 220-223. Impact Factor: 5.24.
26. **Dr. Krishna Kumar Patel**, Dr. Sarita Patel, Bacteriological Profile and antibiotic pattern in blood stream infection in critical care units of a tertiary care hospital in central India. International Journal of Advanced Science and Research 2017 Impact Factor: RJIF 5.24.
27. **Dr. Krishna Kumar Patel**, Dr. Sarita Patel, Virulence Factors amongs MBL and Non MBL Producing Urinary isolates of *Pseudomonas aeruginosa*. International Journal of Research in Pharmacy and Pharmaceutical Science 2018 Impact Factor: RJIF 5.24.
28. **Dr. Krishna Kumar Patel**, Dr. Sarita Patel, A comparative study on variations in bloodstain patterns due to change in surface-angles-using blood from four common animal species. International Journal of Clinical and Diagnostic Pathology 2019: Valume 2: Issue 2: 2019 Page No. 161-166.
29. **Dr. Krishna Kumar Patel**, Dr. Sarita Patel, A comparative study on variayion in bloodstain patterns due to change in surface-using blood from four common animal species International Journal of Clinical and Diagnostic Pathology 2019: Valume 2: Issue 2: 2019 Page No. 167-174.

EXPERIENCE & OTHER QUALIFICATIONS

- ▶ **Training at All India Institute of Medical Sciences (New Delhi)** on various aspects of Clinical Microbiology and Pathology described as under:
General Laboratory Diagnosis: Specimen collection and processing, isolation of fungi from clinical specimens *viz.*, CSF, sputum, bronchial washings, throat swabs, blood, bone marrow, urine, skin scrapings, swabs and post operative specimens.
Identification of Medically Important Fungi: *Zygomycetes, Basidiomycetes, Yeasts, ascomycetes* and *Hyphomycetes*.
Candidiasis : *Candida albicans, C. famata, C. glabrata, C. guillier mondii, C. haemulon, C. krusei, C. tropicalis, C. parapsilosis, C. kefyr*.
Cryptococcosis : *Cryptococcus albidus, C. laurentii, C. neoformans*.
Aspergillosis : *Aspergillus flavus, A. fumigatus, A. niger, A. nidulans, A. terreus*.
Zygomycosis : *Mycor spp., Rhizopus spp., R. oryzae, Absidia corymbifera*.

- ▶ **TRAINED IN TUBERCULOSIS:** Which are a National Program of Govt. of India, Health and Family Welfare Department. At Jan Swasthya Sahyog, Ganiyari, Bilaspur (C.G.) India.
On the following techniques and procedures:
Preparation of the IUAT modification of LJ medium,
Concentration and decontamination of sputum and other samples for mycobacterial culture by Petroff's methods, Identification of Mycobacterium tuberculosis by growth rate, growth in PNB containing media, Niacin production and nitrate reduction, Drug resistance testing of Mycobacterium tuberculosis for ISONIAZID, RIFAMPIN, ETHAMBUTOL, STREPTOMYCIN, & OFLOXACIN by the proportion method in drug- containing LJ medium.

- ▶ **Training at JAPAN International Cooperation Agency - National Institute of Cholera and Enteric Diseases (JICA-NICED), Kolkata** on "Molecular epidemiology of diarrhoeal diseases with special reference to cholera".

- ▶ **Training at Christian Medical College, Vellore (T.N.)** on various virological tests including tests on HIV / HTLV - 1 and other tests as under:
Antibody testing: Rapid screening, Spot HIV, ELISA, Immunoblots, HTLV - 1
Hepatitis: HBs Ag, Anti HBs, Anti HBC Total, HBe Antigen, HBe Antibody, HBv PCR, Anti HBc IgM, Anti HAV IgM, Delta Antibody, HEV Antibody IgM, HCV PCR, RT-PCR.
Immunodiagnostic/Viral Isolation: CMV IgG, CMV IgM, CMV Antigen, CMV PCR, Rubella, Measles, Polio serology, Coxsackie serology, viral culture.
Other Tests : Polio serology, Coxsackie serology, EV 71 serology, Mumps serology, CMV IgG, Measles serology, Herpes and Rubella serology, Dengue and JE serology, CMV IgM, Dengue IgM, Torch Mother IgG, Torch Child IgM, Parvo B-19 IgM, Viral Culture & serology. Acquainted with efficient use and operation of equipments and techniques including **Electrophoresis** and **Spectrophotometry** etc.

- ▶ **Training at Apollo Hospitals Chennai (T.N.):** Dept of Microbiology, on various aspects of Medical Microbiology.
- ▶ **Training on DNA Marker Technology:** at Indira Gandhi Agriculture University, Raipur (C.G.) on various aspects of molecular biology like, **DNA extraction, PCR assay, RAPD and RFLP analysis** from different sources *viz.*, plants, bacteria & insects.
- ▶ **Training on Vaccine Production:** At Pasteur Institute of India, Conoor, Nilgiris (T.N.) on production and quality control of Rabies vaccine and DPT group of vaccines.
- ▶ **Trained in Repair and Maintenance of Medical Laboratory Instruments:** Organised by Western Regional Instrumentation Center, Mumbai and Department of Biochemistry, Chhattisgarh Institute of Medical Sciences Bilaspur (C.G.) India.
- ▶ **Model Injection Centers (MICs):** Organised by Department of Pediatrics, Chhattisgarh Institute of Medical Sciences Bilaspur (C.G.) India.
- ▶ **Training on RNTCP, Modular Training at National Tuberculosis Institute, Bangalore (KA)** From 10th to 21st September, 2007.
- ▶ Training on RNTCP, External Quality Assessment (EQA) at National Tuberculosis Institute, Bangalore (KA) From 25th to 29th February, 2009.
- ▶ Training on Prevention, Management and Control of Reproductive Tract Infection Including Sexually Transmitted Infection at Raipur (C.G.) 15th -17th December 2008.

PROJECT PARTICIPATED

- ▶ Bacteriological quality of the water from ponds, tube wells and public water supply taps of Raipur City (C.G).
- ▶ Indigenous preparation of *Aspergillus fumigatus* antigen at the laboratory for clinical Mycology and infections in immunocompromised patients, at All India Institute of Medical Sciences (New Delhi).
- ▶ Neonatal septicaemia : A microbiological study
- ▶ Post Operative wound sepsis and antibiogram.
- ▶ Genus Enterobacter: Isolation and characterization from clinical cases.
- ▶ Isolation of Non-fermenters from clinical specimens.
- ▶ Effect of fumigation on bacteriology of operation theatre

RESEARCH PAPER PRESENTATIONS

- ▶ 2nd Chhattisgarh Young Scientist Congress, 28-29 February 2004 at Guru Ghasidas University, Bilaspur (C.G.)
- ▶ 3rd Chhattisgarh Young Scientist Congress, 28 February -1 March 2005 at Pt. Ravishankar Shukla University Raipur, India (C.G.)
- ▶ Incidence of ESBL & AMP-C_β beta lactamases and Newer Antimicrobial agents Susceptibility to complicated Urinary Tract Infection Patients, University Grand Commission, Cenral Reginaol Office, Bhopal (M.P.) Govt. Vivekanand (P.G.) College, Manendragarh (C.G.)
- ▶ Fosfomycin Romethamine Against Extended Spectrum Beta-Lactamase Producing UTI, University grand commission, Cenral reginaol office, bhopal (M.P.) Govt. Pataleshwar college, Musturi (C.G.)
- ▶ Fosfomycin tromethamine, against antibacterial activity, and therapeutic efficacy as a single-dose oral treatment for acute uncomplicated lower urinary tract infections. School of Studies in Biotechnology Pt. Ravishankar Shukla University Raipur 492010 Chhattisgarh
- ▶ OPPORTUNISTIC INFECTIONS IN HIV INFECTED CASES IN A TEACHING HOSPITAL OF CHHATTISGARH STATE at Dept. of Microbiology & Bioinformatics, Bilaspur University, Bilaspur, 12-13 September 2016.

CONFERENCE / WORKSHOP / SEMINAR ATTENDED

- ▶ **National Conference on Innovations And Prospects In Life Sciences**, 14-16th December, at School of Life Sciences, Pt. Ravishankar Shukla University, Raipur (C.G.)
- ▶ **National Workshop on Bio-informatics: A computational Biology of the Millennium** 14-19th July, 2003 at School of Biotechnology, Guru Ghasidas University, Bilaspur (C.G.)
- ▶ **Seminar on 50 Years Journey of DNA- A blue Print of Life & 25 Year of In Vitro fertilization**, 25th March 2003, at School of Biotechnology, Guru Ghasidas University, Bilaspur (C.G.)
- ▶ 3rd Annual Conference of API Bilaspur chapter (3rd C.G. APICON) Bilspur (C.G.) Feb. 2005.
- ▶ IX regional Conference of Paediatric Haemato Oncology (IAP) at CIMS & Apollo Hospitals, Bilaspur. - Oct. 2005.
- ▶ Choice Based Credit System (CBCS) Choice Based Credit System (CBCS) As per UGC Guidelines Bilaspur University Bilaspur (C.G.)
- ▶ Right to Information Act 2005, Sarguja University Ambikapur (C.G.)
- ▶ UGC sponsored National Workshop On Disaster Manegment : Techniques & Stratege Disaster Manegment : Techniques & Stratege Rajiv Gandhi Govt. PG. College Ambikapur (C.G.)
- ▶ National Research Seminar On Space Science and Environment Space Science and Environment Rajiv Gandhi Govt. PG. College Ambikapur (C.G.)

DR. KRISHNA KUMAR PATEL

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