

# Curriculum Vitae of Dr. Jyotsna Agarwal

Name: **Dr. Jyotsna Agarwal**

Current Affiliation: Professor and Head, Department of Microbiology,  
Dr. R M L Institute of Medical Sciences, Lucknow-226010, India

Email: jyotsnaagarwal.micro@gmail.com

## **Educational Qualifications:**

---

M.D. (Microbiology) 1997 Institute of Medical Sciences  
Banaras Hindu University, Varanasi.

M.B.B.S. 1993 Christian Medical College & Hospital,  
Vellore, Madras University.

---

## **Overseas Training/ Fellowships**

- Fellowship awarded by *HIV foundation, Nagoya University, Japan*, to learn molecular techniques in diagnosis of HIV July 1999 for duration of two weeks.
- Honorary Registrar, Infectious Diseases, Royal North shore Hospital, University of Sydney, Australia, July 2000 to July 2001.

## **Membership Professional Bodies**

- Life Member of Indian Association of Medical Microbiologists
- Life member of UP Chapter of Indian Association of Medical Microbiologists
- Life member of Clinical Infectious Disease Society of India
- Member of American Society of Microbiologists
- Member European Society of Clinical Microbiologists and Infectious Diseases

**Areas of interest:** Molecular diagnostics, Antimicrobial resistance in microbes, uropathogenesis, STI/RTI in women, Hospital Associated Infections, Medical Education

## **Other Achievements**

- **Incharge** Covid-19, molecular diagnostic laboratory at RMLIMS Lucknow
- **Faculty In charge**, Resident development program at RMLIMS, Lucknow
- **Member** of Scientific Expert Committee for technical evaluation of ASEAN-India R&D projects, Department of Science & Technology (DST), Delhi.
- **Member** SERB Programme Advisory Committee on Biomedical and Health Science
- **Co-ordinator**, Medical Education Unit at Dr. RMLIMS, Lucknow
- **Member Secretary** of Hospital Infection Control Committee at RMLIMS, Lucknow
- **Convenor** Clinical Grand Rounds at RMLIMS, Lucknow
- **Editor** for Annual Microbiology News Letter, published by the Dept. of Microbiology at Dr. RMLIMS

- Awarded certificate of appreciation from The International Association of Lions Club for outstanding contribution to Covid-19 management, on occasion of World doctors day on July 1<sup>st</sup>, 2020
- Awarded as first runner up in the outstanding woman in medical and health care award category in **3<sup>rd</sup> FLO Women Awards of Uttar Pradesh 2017-2018**
- Voted “Best teacher” by outgoing MBBS students on Teachers’ day celebration on 5<sup>th</sup> September 2016, at King George’s Medical University.
- ‘Excellence in Teaching’ award on Teachers day on 5<sup>th</sup> September 2015, at King George’s Medical University Teachers’ day celebration
- Voted “Best teacher” by outgoing MBBS students on Teachers’ day celebration on 5<sup>th</sup> September 2014, at King George’s Medical University.
- Awarded first prize at KGMU Research Showcase 2013 October in Basic Sciences at KGMU, Lucknow.
- Was Nodal officer for regional laboratory for Diphtheria and Pertussis surveillance project sponsored by WHO.
- Was Nodal officer incharge for Regional RTI/STI diagnostic centre for state of UP sponsored by UPSACS and NACO
- Co-organised symposium on ‘Blood culture in sepsis” at KGMU, Lucknow on 2<sup>nd</sup> August, 2013
- Associate Editor for Clinical Epidemiology and Global Health (Official Journal of IndiaCLEN, an international, multidisciplinary, peer-reviewed journal published by Elsevier, India Ltd).
- Reviewer for Journal of Medical Microbiology, a journal of the Society for General Microbiology; Indian Journal of Medical Microbiology; Indian Journal of Medical Research
- National faculty for RTI/STI teaching and training programme of NACO, India and SIFPSA, UP Govt.
- Microbiology examiner for Diplomate of National Board (DNB).
- Member, Selection Panel for Microbiologists, Union Public Service commission.
- Core group member for curriculum designing and Module coordinator for Medical Microbiology, for M. Phil course in Translational Health Sciences, KGMU, sponsored by DBT, Govt. of India.
- Joint Organizing secretary for UP Chapter of IAMM, organized by Department of Microbiology, KGMU, Lucknow on 16<sup>th</sup> February 2008
- Co-organiser of “Hands on Training Work-Shop on Antibiotic sensitivity testing of commonly isolated bacteria” KGMU, Lucknow on 20<sup>th</sup>-21<sup>st</sup> March. 2005.

### **Professional Experience**

<i>Position</i>	<i>Department</i>	<i>Institution</i>	<i>Period</i>
Professor	Microbiology	Dr. RMLIMS, Lucknow	November 2017 till date
Assistant Professor- Professor	Microbiology	KGMU, Lucknow	April 2002 to November, 2017

### **Research Projects:**

#### **Current (On-going) Research Projects:**

1. **Project title:** Lymphopenia in COVID-19: implication in pathogenesis and disease management” (Proposal Reference Number: IUSSTF/VN-COVID/011/2020)  
**Funded by:** DST, New Delhi, under **IUSSTF COVID-19 Networks** (Indo-US Science and technology Forum) for 18 months, sanctioned in August 2020  
**Role: Principal Investigator**
2. **Project title:** Relation between Viral RNA in load in blood and clinical presentation and outcome in Covid-19 patients: a time course analysis  
**Funded by:** Dr. RMLIMS for 2 years from June 2020  
**Role: Principal Investigator**
3. **Project Title:** Child Health and Mortality Prevention Surveillance (CHAMPS) Program. A multi national project.  
**Duration:** 3 years  
**Collaborator and Source of funding:** Emory Global health Institute, Emory University, Atlanta, GA  
**Site PI- Microbiology:** Prof. Jyotsna Agarwal

#### **Research Projects Completed: 6 as PI and 8 as Co-I**

1. **Project Title:** An assessment of changing pattern of seroepidemiology of Hepatitis A virus infection in endemic setting  
**Funded by:** Dr. RMLIMS for 2 years from July 2018  
**Role: Principal Investigator**
2. **Project Title:** Immunological, genetic and behavioral profile of women with urinary tract infections by *E. coli*: role of host factors  
**Funded by:** DBT [BT/PR7936/SPD/11/1437/2013], for 3 years from July 2015  
**Role: Principal Investigator**
3. **Project Title:** Role of real time multiplex PCR in rapid diagnosis of community acquired acute bacterial meningitis in children  
**Funded by:** UPCST [CST/SERD/D-295] for 3 years from July 2015  
**Role: Principal Investigator**
4. **Project Title:** Characterization of uropathogenic *E. coli* strains associated with specific clinical syndrome and fecal *E. coli* population of the same women: are there distinct uropathotypes?  
**Funded by:** DBT, New Delhi, India for 3 years from Sep’2010  
**Role: Principal Investigator**
5. **Project Title:** Phylogenetic classification and biofilm formation ability of *E. coli* isolates from acute first time and recurrent urinary tract infections in women.  
**Funded by:** UPCST [CST/SERD/D-295] for 3 years from June 2009  
**Role: Principal Investigator**
6. **Project Title:** Application of Nucleic Acid Amplification Techniques in Screening Women for Genital *Chlamydia trachomatis*  
**Funded by:** DST, New Delhi, India for 3 years from Dec’2006  
**Role: Principal Investigator**

#### **Research Supervision:**

**Chief Supervisor for following Post MD-PhD thesis**

- Identification of genetic markers of Uropathogenic *Escherichia coli* isolates associated with acute cystitis in women

#### **Chief Supervisor for following PhD thesis**

- Virulence determinants of *Escherichia coli* causing first urinary tract infection and risk of second infection, August 2010
- Transcriptional and translational expression of virulence factors in concurrent urinary and fecal isolates of *E. coli* from women with urinary tract infection, August 2011.

#### **Scientific Conferences/Workshops attended, Lectures Delivered:**

- Convenor and speaker in ‘Multi disciplinary seminar on covid-19’ organized under faculty and resident development program, at RMLIMS on 7<sup>th</sup> and 8<sup>th</sup> October 2020.
- Speaker at seminar on ‘Bioethical issues in laboratory diagnosis: covid 19’. Organised at RMLIMS, on 19<sup>th</sup> September, 2020
- On behalf of Medical Education Unit, organized 2<sup>nd</sup> **Curriculum Implementation Support Programme (CISP-II)** in Dr RMLIMS, under the aegis of Regional Centre KGMU, on the 13<sup>th</sup> to 14<sup>th</sup> of August 2020.
- Guest speaker at Covid-19 Conclave a media conference on ‘**Covid-19: management of Herd Immunity**’; organized by News Karnataka on July 8<sup>th</sup> 2020
- Guest speaker at National E-webinar on ‘**Post Covid-19 India: health and wellbeing**’ on 23<sup>rd</sup> June 2020 by Era;s Lucknow college of management & education, Lucknow
- Guest speaker at Webinar organized by Amity University, Lucknow on ‘**Covid-19 an interactive session**’, on April 6<sup>th</sup> 2020
- Guest speaker and Panel moderator for CME on ‘**Tuberuclosis and Covid update**’ on March 14<sup>th</sup> 2020, jointly organized by the departments of Respiratory medicine and Microbiology on the occasion of world tuberculosis day at RMLIMS, Lucknow.
- Guest speaker and Participated in Panel Discussion in Covid-19 an awareness organized by the Department of Microbiology at KGMU Lucknow on March 13<sup>th</sup> 2020.
- Organized National Workshop on ‘Designing MCQs’ on behalf of Medical Education Unit at RMLIMS, Lucknow on March 7<sup>th</sup> 2020
- Guest speaker at UP UK Microcon, 6-8<sup>th</sup> February at SRMS IMS, Bareilly. Delivered a lecture on ‘Molecular detection of Antimicrobial resistance in Gram negative rods: Current scenario’
- Participated in State Symposium and CME on “**Neglected Tropical Diseases in UP**” in collaboration with WHO; on 30<sup>th</sup> January 2020 at, King George Medical University, Lucknow, Uttar Pradesh, to speak on “Case based panel discussion on a case of suspected acute rickettsial fever as a cause of fever with rash in young adult”..
- Delivered talk on **Menstrual hygiene and Reproductive/genital tract infections** One Day Seminar on Menstrual Practices, Hygiene and it's Better Management at Amity University, Lucknow on 30<sup>th</sup> January 2020
- Chaired session on **Infection & ECMO** in ECMOCON-2019. Organised by ECMO Society of India at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow on 15<sup>th</sup> Dec, 2019,
- Participated and chaired a session on ‘Diagnosis and Antimicrobial Management of Infections in Critically ill Patients’ in 43<sup>rd</sup> Annual Conference of Indian Association of Medical Microbiologists (IAMM), microcon Mumbai from 29<sup>th</sup> November to 1<sup>st</sup> December 2019

- Delivered a lecture on “**Standard Precautions and lab safety**” in foundation course for the post graduate students at SGPGIMS, Lucknow on 4<sup>th</sup> October 2019.
- Delivered a talk on "**Lab diagnosis of Rabies -Current Updates and Scope for Research**" in a National CME on “Recent Developments in Prophylaxis Against Rabies in Humans” on 16th November, 2019, organized by Department of Community Medicine, Dr. RMLIMS, Lucknow, under the aegis of Consortium Against Rabies India, Indian Association of Preventive and Social Medicine and Indian Public Health Association.
- Attended “**Introductory Course on Research Methodology and Biostatistics**” on 8<sup>th</sup> and 9<sup>th</sup> November 2019 under Faculty Development Program of RMLIMS. Workshop was conducted by Institute of Applied Statistics under the aegis of ICMR-NIMS and ICMR-NICPR as “Dr. Padam Singh Research and Development scheme”.
- Delivered a lecture on “Universal precautions and lab safety” in Foundation Course for Residents, at SGPGIMS, Lucknow on November 6<sup>th</sup> 2019
- Attended and presented a paper on “**Aetiology and clinical profile of acute bacterial meningitis in children**” at Madrid, Spain in “2<sup>nd</sup> Annual Congress in Microbiology” from October 7<sup>th</sup> to 8<sup>th</sup>, 2019
- As Co-ordinator medical education unit, Organized Curriculum Implementation Support Programme (CISP) workshop (under aegis of Regional centre KGMU, Lucknow) for the faculty of Dr. RMLIMS from 30<sup>th</sup> May to 1st June 2019
- Participated in Curriculum Implementation Support Programme (CISP) workshop organized by Medical education Unit at KGMU, Lucknow during 13<sup>th</sup>-15<sup>th</sup> May 2019
- Organized slogan competition and Hand hygiene day at Dept of Microbiology, RMLIMS Lucknow on 5<sup>th</sup> May 2019
- Organized CME on “Beyond Antibiotics” and Annual News letter release at Dept of Microbiology, RMLIMS Lucknow on 2<sup>nd</sup> Mar 2019
- Delivered a lecture on the topic "**Importance of Pk-Pd of Antibiotics**" in 15th UP UK MICROCON 2019 organized at Era’s Lucknow Medical College, on 1<sup>st</sup> February 2019
- Delivered a talk on “**Optimal dosing of antibiotics in children: role of Pk-PD**”, in a CME organized by Lucknow Association of Paediatricians, on 20<sup>th</sup> January 2019 at hotel Levana, lucknow.
- Chaired session on **Infection Control Practices** at Pre-Conference Workshop, on symposium on Infection Prevention and BMW, at Kalam Centre, organized by KGMU, Lucknow on Nov 30<sup>th</sup> 2018.
- Delivered a lecture on the topic “**Newer Vaccines in diseases**” at India International Science Festival (IISF-2018), a Health Conclave-2018 on 7<sup>th</sup> October 2018; organized at Atal Bihari Vajpayee Convention Centre, Lucknow during 5-20<sup>th</sup> Oct, 2018.
- Invited speaker at Asian Society of Mastology Conference between 3rd and 5th October, 2018 at Male, Maldives, delivered talk on ‘**Breast Abscess: role of microbiology diagnosis**’
- Invited speaker in Panel Discussion on the topic “**Save Antibiotics, Save future**” organized by Lucknow Academy of Pediatrics in Antibiotic awareness week on 30<sup>th</sup> Sept 2018.
- Speaker in 27th annual conference of Neurotrauma society of India 2018, Lucknow, **Risk of Surgical site infection in post-op trauma patient**, on 17<sup>th</sup> August at Indira Gandhi Pratishthan Gomti Nagar Lucknow, organised by neurosurgery department of RMLIMS, Lucknow

- **“Pathophysiology & Diagnosis of Bacterial Vaginosis”** in a CME on Obstetric Dilemmas, Organized by Lucknow Chapter of ISOPARB & MFHER Foundation, at Clark’s Avadh, Hazrat Ganj, Lucknow on 8<sup>th</sup> Sep 2018.
- Attended **“ Technology Vision-2035 in relevance to the State of Uttar Pradesh”** as Director, Dr. RMLIMS nominee member, organized on the occasion of National Science Day by Council of Science and Technology, U.P. in association with Technology Information Forecasting & assessment Council on 28<sup>th</sup> February 2018
- Delivered a lecture on the topic **“Bad Bugs No Drugs”** in Annual CME of Vivekanand Polyclinic & Institute of Medical Sciences, Lucknow, 20<sup>th</sup> February 2018
- Chaired session on **“Antimicrobial Stewardship”** in National CME cum workshop on Hospital Infection Prevention & Control Practices organized by Department of Microbiology SGPGIMS in collaboration with SGPGIMS Hospital Infection Control Committee from 12<sup>th</sup> to 15<sup>th</sup> December, 2017.
- Delivered a lecture on the topic **“Super bugs: no escape”** on the occasion of **“World Antibiotic Awareness Week of WHO”** on 18<sup>th</sup> November 2017, organized by the Department of Microbiology and Department of Anaesthesiology and Critical care, Dr. RMLIMS
- Attended orientation workshop on the theme **“Seek Advice from a Healthcare Professional before taking Antibiotics”** at DGMH's Swasthya Bhawan, Lucknow on 13<sup>th</sup> November 2017
- Attended and presented a paper titled **“Genotyping of E. coli associated with community acquired vs. Hospital acquired urinary tract infection”** in International Congress on Nosocomial and Healthcare Associated Infections at Las Vegas, USA during 2<sup>nd</sup> - 4<sup>th</sup> Oct 2017
- Participated in Newton fund proposal development workshop as SIFPSA nominee for **“Improving the diagnosis and management of infectious and non-infectious abnormal genital discharge in women, by formal and informal frontline health workers in rural India and Bangladesh”** organised by London School of Hygiene & Tropical Medicine at New Delhi on 4<sup>th</sup> August 2017.
- Participated in ICMR workshop on **“Antimicrobial stewardship”** on May 10<sup>th</sup> at TMC Kolkata, under flagship of CDC Atlanta.
- Attended and presented poster titled **“Comparative gene expression of urine and fecal E. coli isolated from women with acute cystitis”** in **“12th International Conference of Laboratory Medicine and Pathology”** t London, UK, from 15<sup>th</sup>-16<sup>th</sup> March, 2017
- Delivered Guest Lecture in meeting of Lucknow Obstetrics & Gynaecology Society as part of women health awareness program for sensitization of Gynaecologist for **‘Prevention of Urinary tract infection’** on 4th February 2017 at Hotel Gemini Continental, Lucknow
- Delivered Guest Lecture for post graduate students of Department of Obstetrics & Gynaecology on **“Urinary Tract Infection”** on 2<sup>nd</sup> February 2017
- Attended workshop for **“Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India”** organised by AIIMS, New Delhi under CDC Atlanta, flagship; at India Habitat Center, New Delhi, from 14<sup>th</sup> to 15<sup>th</sup> December, 2016
- Delivered Guest Lecture at ‘IAMM Symposium on MICROBIOME’ on **“Microbiota in Disease”** in **MICROCON 2016**, organised by **PGIMER, Chandigarh**, from 23<sup>rd</sup> to 27<sup>th</sup> November 2016.
- Participated at **SGPGI, Lucknow**, in Basic Course in **‘Antimicrobials’** from 21<sup>st</sup> to 24<sup>th</sup> November 2016, Organised by Department of Critical Care Medicine.

- Attended workshop on Laboratory Quality Management Systems and Internal Audit As per ISO15189-2012, organised by Foundation for Quality (India), at **KGMU, Lucknow**, from 4<sup>th</sup> -7<sup>th</sup> November 2016
- Participated in **ASM CME on “Antibiotic Resistance: Renewed Fears”**, on 10<sup>th</sup> September, 2016, organised by The American Society of for Microbiology in collaboration with AIIMS, New Delhi and UCMS, New Delhi at **New Delhi**.
- Invited Speaker at **“Hospital Based Surveillance for Radiological Pneumonia in Children Under 5 Years of Age in Uttar Pradesh and Bihar”** organised by **Department of Paediatrics, KGMU** on 25<sup>th</sup> august 2016 at Lucknow
- Participated in **6<sup>th</sup> Annual conference of Clinical Infectious Diseases society (CIDSCON 2016)**, from 26<sup>th</sup> to 28<sup>th</sup> August, 2016, at **Varanasi**.
- Invited speaker at **Symposium** on ‘Molecular diagnosis of infectious diseases’ on “Molecular detection of antimicrobial resistance in Gram negative rods” on 22<sup>nd</sup> June 2016, organised by **T.N. Medical College and Byl Nair Hospital, Mumbai**
- Invited speaker at **Critical care workshop**, delivered lectures on ‘Infection control & concept of bundle’ and ‘Microbiological sample collection’ on 7<sup>th</sup> May 2016, organised by **Department of Anesthesiology, KGMU, Lucknow**
- Invited speaker at **CME on ‘Growing Resistance to antimicrobials’** on account of World Health Day on 6<sup>th</sup> April 2016, organised by **Era’s Lucknow Medical College and Hospital, Lucknow**.
- Scientific committee member for **“Update on Infectious disease 2016”** conference and panellist on “Diagnosis and management of endocarditis” at KGMU, Lucknow on 2<sup>nd</sup> -3<sup>rd</sup> April. 2016. Also won first prize in e-poster category
- Invited speaker at pre conference **CME at UPMICROCON (UP chapter of IAMM) on ‘Challenges in management of STDs (gonorrhoea and chlamydia)**, 5<sup>th</sup> February 2016, organised by Department of Microbiology at **RMLIMS, Lucknow**.
- Participated in the **“International Symposium on Genetics and Genomics in Modern Clinical Medicine”** organized by the Indo UK Genetic education Forum, Wales Gene Park, Cardiff University, UK and KGMU, Lucknow, UP, India from 9<sup>th</sup> to 10<sup>th</sup> February, 2015, at **KGMU, Lucknow, UP**.
- Attended & participated as Faculty in **International Seminar on Competency based Medical Education**, organized by MCI and ICMR, New Delhi from 9<sup>th</sup> to 10<sup>th</sup> October 2015 at KGMU Lucknow
- Attended **Evidence based Medicine course**, 10<sup>th</sup> to 21<sup>st</sup> August 2015 at KGMU Lucknow
- Participated in workshop on **Laboratory Diagnosis of Diphtheria**, organised by WHO and Public Health England, from 28<sup>th</sup> to 30<sup>th</sup> January, 2015, at **CMC Vellore**.
- Attended Hands on Training on Rickettsial infections with special reference to **Scrub Typhus**, organised by CDC, Atlanta, at **National Centre for Disease Control, New Delhi**, from 27<sup>th</sup> -29<sup>th</sup> May, 2015
- Invited speaker at **SGPGI, Lucknow**, for Basic Course in ‘Antimicrobials’ from 8<sup>th</sup> to 13<sup>th</sup> December 2015, Organised by Department of Critical Care Medicine.
- Participated and presented paper in 114<sup>th</sup> **General Meeting of American Society of Microbiologists** at Boston, USA, from May 17<sup>th</sup>-20<sup>th</sup>, 2014
- Participated in **Examiner Training Workshop** held at KGMU, on Oct 31<sup>st</sup>, 2014
- Participated and presented paper in 37<sup>th</sup> **Annual Conference of IAMMMICROCON** organised by Nizam’s Institute of Medical Sciences, Hyderabad 21<sup>st</sup> -24<sup>th</sup> Nov 2013
- Chaired session on ‘Special Issues’ at **ISHWMCON 13** organized by Indian Society of Hospital Waste Management, KGMU from 7-8<sup>th</sup> December, 2013.

- Invited speaker in **Panel Discussion on Antibiotics** at **UPPEDICON-2013** organized by Lucknow Academy of Pediatrics and Department of Pediatrics, KGMU from 26<sup>th</sup>-27<sup>th</sup> October 2013.
- Delivered Guest Lecture at **CME on Antibiotic Stewardship** organized by Ram Manohar Lohia Institute of Medical Sciences, Lucknow on 5<sup>th</sup> October, 2013.
- Delivered Guest Lecture at **Surgery Updates**, organised by ASI, at Maulana Azad Medical College, New Delhi on 24<sup>th</sup> September, 2013.
- Participated in **GASP workshop**, organised by **World Health Organization** at Safdarjung Hospital, New Delhi, from 3<sup>rd</sup>-5<sup>th</sup> September, 2013.
- Attended **Basic course in Medical Education Technologies**, 4-6<sup>th</sup> April 2013, at KGMU Lucknow
- Invited speaker at **International Seminar on Airborne and Respiratory Afflictions** Organised by Association of Research Professionals, at Balrampur Hospital, Lucknow on 23<sup>rd</sup> March, 2013.
- Participated **Annual IndiaCLEN Conference** 2<sup>nd</sup>-3<sup>rd</sup> March 2013, Organised at KGMU Lucknow
- Invited speaker at **Advances Immunology Course** organised by Department of Biochemistry, KGMU, Lucknow from 22<sup>nd</sup>-23<sup>rd</sup> February, 2013.
- Invited speaker at **Training Course on Scientific Writing** organised by National Institute of Health and Family welfare & Department of Community Medicine, KGMU, Lucknow held KGMU, Lucknow from 16<sup>th</sup> to 20<sup>th</sup> December 2012.
- Chairperson for oral paper presentation session in **36<sup>th</sup> Annual Conference of IAMMMICROCON** organised by Lady Harding Medical College, New Delhi from 23<sup>rd</sup>-25<sup>th</sup> November 2012.
- Invited speaker at CME on **“Hospital Acquired Infections”** organised by the Department of Microbiology at Hind Institute of Medical Sciences, Barabanki, Lucknow on 18<sup>th</sup> November 2012
- Invited speaker at **All India Ophthalmic society- PG Refresher programme** held at Dept. of Ophthalmology, KGMU, 25<sup>th</sup> to 27<sup>th</sup> September 2012
- Invited speaker at CME organised by **Christian Medical College Vellore Alumni Association**, August 9<sup>th</sup> 2012 at CMC Vellore.
- Invited speaker at **Critical Care Update: New perspectives** organised by Department of Anaesthesiology, 7<sup>th</sup> April 2012
- **35<sup>th</sup> Annual Conference of IAMM MICROCON**, at BHU, Varanasi, UP from 23<sup>rd</sup> -26<sup>th</sup> Nov'2011.
- **1st Global Forum on Bacterial Infections: Balancing Treatment Access and Antibiotic Resistance**, New Delhi, 3<sup>rd</sup> - 5<sup>th</sup> October, 2011.
- **34<sup>th</sup> Annual Conference of IAMM MICROCON**, at Kolkata from 23<sup>rd</sup> -26<sup>th</sup> November 2010.
- **14<sup>th</sup> International Congress on Infectious Diseases**, at Miami, Florida, and presented a paper on “Unusual presentation of Dengue infection in children in North India” 9-12<sup>th</sup> March 2010
- **5<sup>th</sup> annual conference of UP chapter of IAMMU.P.** Rural Institute of Medical Sciences & Research Saifai, Etawah Co chaired session on Multi-drug Resistant Bacterial Infections 7-8<sup>th</sup> February 2009
- Attended orientation meeting of **National STI Resource Pool** held at National Institute of Health and Family welfare, New Delhi on May 19<sup>th</sup> 2008



- **Molecular Epidemiology of diarrhoeal diseases** with special reference to Cholera. Hands on training workshop organised by National Institute of Cholera and Enteric Diseases, Kolkata, 12-23 November 2007.
- Resource person in “**Hands on Training Work-Shop on Antibiotic sensitivity testing of commonly isolated bacteria**” organized by Departments of Microbiology and Pathology, KGMU, Lucknow on 20<sup>th</sup>-21<sup>st</sup> March. 2005.
- Work shop on **RTI/STI/HIV** organised by SIFPSA, Department of Health and family Welfare, Govt. of UP, on February 21<sup>st</sup> to 23<sup>rd</sup>, 2005.
- Delivered Guest Lecture at **CME and update in Microbiology**, organised by Department of Microbiology, SN Medical College, Agra, on 17<sup>th</sup>-18<sup>th</sup> January, 2005.
- Participated and presented a paper entitled “In house PCR on first void urine in women for diagnosis of genital Chlamydia trachomatis” at National conference of **Indian Association of Medical Microbiologists**, held at SGPGIMS, Lucknow, November 26<sup>th</sup> -29<sup>th</sup>, 2004.
- Delivered Guest Lecture in CME on **Surgical Infections** organised by Department of Surgery, IMS, BHU, Varanasi on April 11<sup>th</sup>, 2004.
- Workshop on **Research on Sexually Transmitted and Reproductive Tract Infections in India: Problems and Solutions**. Organised by Population Council, from 17<sup>th</sup> –20<sup>th</sup> April, 2004 at Goa.
- **Recent Developments in Medical Mycology** a pre conference CME organised by SIHAM at PGIMER Chandigarh on March 11<sup>th</sup> 2004. **Awarded First Prize** in poster on “Role of candida sp. in neonatal septicaemia”
- **Molecular Epidemiology of diarrhoeal diseases** with special reference to Cholera. Hands on training workshop organised by National Institute of Cholera and Enteric Diseases, Kolkata, from 2-13<sup>th</sup> November 2003.
- **Encephalitis: Current trends and challenges**, CME organised by department of Microbiology, SGPGIMS, Lucknow on 26<sup>th</sup> and 27<sup>th</sup> September, 2003
- Workshop on **HIV/ AIDS training** at King George’s Medical College organised by National AIDS Control Organization and U. P. State AIDS Control Society, Lucknow, from 15-17<sup>th</sup> May 2002.
- Participated in monthly meetings of **Sydney Infectious Diseases Group**, at Sydney, Australia, from August 2000 till July 2001.
- Two weeks long fellowship awarded by HIV foundation, Nagoya University, Japan, to learn **molecular techniques in diagnosis of HIV**, which included nested PCR, RT assay, Anti HIV assay, quantitative estimation of HIV using amplicor kit and ELISA for P-24 antigenaemia July 1<sup>st</sup> –15<sup>th</sup> 1999.
- National Workshop on **Helicobacter/Campylobacter** organised by Department of Microbiology, SGPGIMS, Lucknow, January 19<sup>th</sup> – 23<sup>rd</sup> 1999.
- Workshop on **Role of Microbiology Laboratory in Control of Hospital associated Infection**, at V<sup>th</sup> National Conference on Hospital Infection, Lady Harding Medical College, New Delhi, November 26<sup>th</sup> 1998.
- Symposium on **Gastrointestinal Protozoal Infection** organised by Department of Gastroenterology, SGPGI, Lucknow, February 23<sup>rd</sup> – 24<sup>th</sup>, 1998.
- Workshop on **Recent Advances in Mycobacterial Diseases** at the XX Annual conference of Indian Association of Medical Microbiologists, Agra, October 31<sup>st</sup> 1996.

**Scientific Publications:*****Books:***

1. Section Editor and Author. In: Jain A, Venkatesh V & **Agarwal J** (Eds) **Microbiology Practical Manual**. Elsevier India, 2019.

***Book Chapter:***

1. Prasad KN, **Agarwal J**. Laboratory diagnosis and Microbiology: Bacteria. In Dionisio D (Ed.) **Textbook and Atlas of Intestinal Infections in AIDS**. Springer Verlag Italia, 2002, Milano.
2. **Agarwal J**, Radera S. Biofilm-Mediated Urinary Tract Infections in Kumar S. et al (Eds) **Biofilms in Human Diseases: Treatment and Control** Springer Nature Switzerland, 2019, page 177-213

***Original Papers:***

3. Prasad KN, **Agarwal J**, Dixit AK, Tiwari DP, Dhole TN, Ayyagari A. Role of yeasts as nosocomial pathogens and their susceptibility to fluconazole and amphotericin B. **Indian Journal of Medical Research**. 1999; 110: 11-17; **Impact Factor: 1.396, citations:26**.
4. Dhole TN, Kapoor A, **Agarwal J**, Isomura S, Kew OM. Intratyping and partial nucleotide sequencing of poliovirus isolates of Northern India. **Indian Journal of Medical Research**.2000; 111: 151-156; **Impact Factor: 1.396**.
5. **Agarwal J**, Anupurba S. Isolation rates of mycobacterial species from Varanasi (north India). **Indian Journal of Medical Microbiology**.2000; 18(4): 178-179; **Impact Factor:0.882**.
6. Choudhury A, **Govil J**, Nath G. Characterization and antimicrobial susceptibility of clinical isolates of non-fermentative bacteria. **Indian Journal of Medical Microbiology**.2001; 19(1): 48-9; **Impact Factor:0.882**.
7. Prasad KN, **Agarwal J**, Nag VL, Verma AK, Dixit AK, Ayyagari A. Cryptococcal infection in patients with clinically diagnosed meningitis in a tertiary care centre. **Neurology India**. 2003; 51(3): 364-366; **Impact Factor: 1.232, citations: 33**.
8. Kishore J, **Agarwal J**, Agarwal S, Ayyagari A. Seroanalysis for *Chlamydia trachomatis* and S-TORCH agents in women with recurrent spontaneous abortions. **Indian Journal of Pathology and Microbiology**.2004; 46(4): 684-687; **Impact Factor: 0.466, citations:16**.
9. **Agarwal J**, Bansal S, Jain A. Trends in neonatal septicemia: emergence of non albicans *Candida*. **Indian Journal of Paediatrics**.2004; 41(7): 712-715; **Impact Factor: 0.867,citations: 26**.
10. Jain A, **Agarwal J**, Bansal S. Prevalence of methicillin resistant coagulase negative staphylococci in neonatal ICU- findings from a tertiary care hospital in India. **Journal of Medical Microbiology**.2004; 53: 941-944; **Impact Factor: 2.248, citations:32**.
11. Bansal S, Jain A, **Agarwal J**, Malik GK. Significance of coagulase negative staphylococci isolated from neonates with late onset septicemia.**Indian Journal of Pathology and Microbiology**.2004; 47(4): 586-588;**Impact Factor: 0.466, citations:14**.
12. Das V, Agarwal M, **Agarwal J**, Jain A, Agarwal A and Pandey A. Prevalence of genital *Chlamydia trachomatis* by first void urine polymerase chain reaction test in women attending out patient clinic. **Journal of Obstetrics and Gynecology of India**.2006; 56 (6): 511-513.

13. Jain R, Jain A, **Agarwal J** and Awasthi S. Role of Chlamydia sp. in children with community acquired pneumonia, **Indian Pediatrics**.2007; 44(3):216-218; **Impact Factor: 1.04,citations:5.**
14. Chandrakanta, Kumar R, **Agarwal J**, Kapoor G, Jain A, Changing clinical manifestations of Dengue infection in North India. **Dengue Bulletin of WHO**. 2008; 32:118-125.
15. Agarwal J, Kalyan R and Singh M. High level Resistance to aminoglycosides and  $\beta$ - lactamase production in enterococci at a tertiary care hospital. **Japanese Journal of Infectious Diseases**.2009; 62: 158-159;**Impact Factor:1.161, citations:13.**
16. Agarwal J, Awasthi S, Rajput A, Tiwari M, A Jain. Atypical bacterial pathogens in community-acquired pneumonia in children: a hospital based study. **Tropical Doctor**.2009; 39:109-111; **Impact Factor:0.481,citations:11.**
17. **Agarwal J**, Kapoor G, Srivastava S, Singh KP, Kumar R, Jain A. Unusual clinical profile of Dengue Infection in patients attending a tertiary care teaching hospital in north India. Abstract published in **International Journal of Infectious Diseases**.2010; 14(1): e174-e175; **Impact Factor: 1.859.**
18. Mittal V, **Agarwal J**, Jain A, Verma AK. Prevalence of genital *Chlamydia trachomatis* in women using PCR on urine specimen. **Biomedical Research**. 2010; 21: 21-24.**Impact factor: 0.24.**
19. Jindal G, Pandey RK, **Agarwal J**, Singh M. A comparative evaluation of probiotics on salivary mutans streptococci counts in Indian children. **European Archives of Paediatric Dentistry**.2011; 12(4): 211-215; **Impact Factor: 0.48, citations:14.**
20. Malik S, Gupta A, Singh KP, **Agarwal J**, Singh M. Antibiogram of Aerobic Bacterial Isolates from Post-operative Wound Infections at a Tertiary Care Hospital in India. **Journal of Infectious Diseases and Antimicrobial Agents**. 2011; 28(1): 45-51
21. Mishra B, Srivastava S, Singh K, Pandey A, Agarwal J. Symptom based diagnosis of urinary tract infections in women: are we over prescribing antibiotics? **The International Journal of Clinical Practice**.2012; 66(5): 493–498;**Impact Factor:2.566.**
22. Awasthi S, Yadav KK, **Agarwal J**. *Chlamydia Pneumoniae* infection associated with uncontrolled asthma: A hospital based cross sectional study. **Indian Journal of Pediatrics**.2012;79(10):1318-22; **Impact Factor:0.867.**
23. Mohd S, Vaish AK, Mohd ZI, Sonkar AA, **Agarwal J**, Singh M, Ahmad I, Gupta M. Prevalence of nosocomial infections in surgical wards of tertiary care hospital at Lucknow. **Indian Journal of Scientific Research** 2012; 3(2):79-84.
24. Mohd S, Vaish AK, Mohd ZI, Sonkar AA, **Agarwal J**, Singh M, Singh SK, Srivastava VK. Pattern of antibiotic usage among patients admitted in medical and surgical wards of a secondary care hospital in north India- an epidemiological evaluation. **Indian Journal of Community Health**. 2012; 24: 285-290.
25. Saleem M, Vaish AK, Idris MZ, Sonkar AA, **Agarwal J**, Singh M, Ahmad I. Prevalence of Nosocomial infection among patients admitted in medical and surgical wards of a secondary care hospital in north India-an epidemiological evaluation. **Journal of Recent Advances in Applied Sciences**, 2013: 28, 12-18.
26. Agarwal J, Mishra B, Srivastava S, Srivastava R, Genotypic characteristics and biofilm formation among *Escherichia coli* isolates from Indian women with acute cystitis. **Transactions of Royal Society of Tropical Medicine and Hygiene**.2013; 107(3): 183-187; **Impact Factor:1.839.**
27. Sinha N, Agarwal J, Srivastava S, Singh M. Phenotypic and genotypic analysis of carbapenem resistant *Acinetobacter* from a tertiary care setting in north India.

- Indian Journal of Medical Microbiology.**2013; 31(1): 60-63; **Impact Factor: 0.882, citations:6.**
28. Kalyan R, Singh M, Singh A K, **Agarwal J.** Prevalence of Syphilis at a Tertiary Care Setup of Northern India: A Hospital Based Study. **Indian Journal of Public Health Research & Development.** 2013; 4(1): 153- 157.
  29. Kalyan R, Singh M, **Agarwal J.** Vancomycin Resistant Enterococci at a Tertiary Care Hospital in Northern India. **International Journal of Pharma and Bio Sciences.**2013; 4(2): 1090 – 1094.
  30. Jain B, Agarwal J, Singh M. Observations on community associated methicillin resistant *Staphylococcus aureus* carriage.**Clinical Epidemiology and Global Health**2013.2(1): 15–18.
  31. Srivastava R, Agarwal J, Srivastava S, Kumar M, Singh M. Multi drug resistant Gram negative bacillifrom neonatal septicaemia at a tertiary care centre in north India- a phenotypic and genotypic study. **Indian Journal of Medical Microbiology.**2014;32(1):97-8;**Impact Factor:0.882.**
  32. Verma M K, Pandey R K, Khanna R, **Agarwal J.** The antimicrobial effectiveness of 25% propolis extract in root canal irrigation of primary teeth. **Journal of Indian Society of Pedodontics and Preventive Dentistry.** 2014; 32(2): 120-124.
  33. Srivastava R. Agarwal J, Srivastava S. Mishra B. Role of special pathogenicity vs. prevalence theory in pathogenesis of acute cystitis caused by *E. coli*. **Journal of Medical Microbiology.**2014; 63(8):1038-43;**Impact Factor:2.248.**
  34. Mohan S, Agarwal J, Srivastava R, Singh M. Observations on *Citrobacter* species from a tertiary care health centre with special reference to multi drug resistance and presence of CTX-M gene. **Indian Journal of Pathology and Microbiology.**2014; 57(3): 439-441; **Impact Factor:0.466.**
  35. Baghel K, Srivastava RN, ChandraA, Raj S, Goel SK, Pant AB, **Agrawal J.** Tumor Necrosis Factor- $\beta$  Nco1 Polymorphism and Susceptibility to Sepsis following Major Elective Surgery. **Surgical Infections.** 2014; 15(3): 213-220; **Impact Factor:1.148.**
  36. Baghel K, Srivastava RN, Chandra A, Goel SK, Pant AB, **Agrawal J,** Kazmi HR, Raj S. TNF- $\alpha$ , IL-6, and IL-8 Cytokines and Their Association with TNF- $\alpha$ -308 G/A Polymorphism and Postoperative Sepsis. **Journal of Gastrointestinal Surgery.** 2014; 18(8): 1886-1894; **Impact Factor:2080.**
  37. Agarwal J, Mishra B, Srivastava S, Srivastava R, Pandey A. Virulence determinants in *E. coli* associated with recurrent cystitis in sexually active women.**Microbial Pathogenesis.**2014; 74:38-41; **Impact Factor: 1.79.**
  38. Singh M, **Agarwal J,** Tripathi CP, Chandrakanta. Spotted fever rickettsiosis in Uttar Pradesh: a case series. **Indian Journal of Medical Research.** 2015 Feb; 141(2): 242–244. **Impact Factor:1.396.**
  39. Krishna K Yadav, Shally Awasthi, Lalit Takia, **Jyotsna Agarwal,** G G Agarwal. Procalcitonin and C-Reactive Protein in WHO defined severe and very severe community acquired pneumonia: ahospital based cross sectional study. **Clinical Epidemiology and Global Health,** 2015.
  40. Kalyan R, Radera S, **Agarwal J,** Singh M. Superbugs causing infections at a tertiary care hospital and the return of pre-antibiotic era! **Asian Journal of Medical Sciences,** 2015, 7 (2):72-79
  41. Gupta P, **Agarwal J,** Reddy H, W Anupam, S. Kirti, P. Mohd . Evaluation of a hand hygiene campaign in various intensive care units of a tertiary care hospital **Journal of Patient Safety & Infection Control,** 2015 August 3 (2): 73

42. Srivastava S, Agarwal J, Mishra B, Srivastava R. Virulence vs. fitness determinants in *E. coli* isolated from asymptomatic bacteriuria in healthy non pregnant women. Accepted for publication in **Indian Journal of Medical Microbiology**. 2016; 34 (1): 46-51; **Impact Factor:0.882**.
43. Mishra B, Srivastava R, Agarwal J, Srivastava S, Pandey A. Behavioral and psychosocial risk factors associated with first and recurrent cystitis in Indian women: a case-control study. **Indian Journal of Community Medicine**, 2016; 41 (1): 27-33
44. Yadav DK, Tripathi AK, Kumar A, **Agarwal J**, Prasad KN, Gupta D, Singh AK. Association of TNF- $\alpha$  -308G>A and TNF- $\beta$  +252A>G genes polymorphisms with primary immune thrombocytopenia: A North Indian study. **Blood Coagulation and Fibrinolysis**. 2016 Oct, 27(7):791-796.
45. Pant S, **Agarwal J**, Goel A, Gangwar PK, Waseem M, Gupta P, Sankhwar SN, Purkait B. Does 24bp Duplication of Human CHIT1 Gene (Chitotriosidase1) Predispose to Filarial Chyluria? A Case-Control Study. **Journal of Clinical and Diagnostic Research** 2016 Sep, 10(9):PC01-PC04.
46. Tripathi C D P , Singh M, **Agarwal J** , Kalyan R K , Chandra Kanta, Atam V. Scrub Typhus in Uttar Pradesh, India-A Prospective Study. **International Journal of Current Microbiology and Applied Sciences**, 2017, 6(4): 977-986.
47. Tripathi C D P , Singh M, **Agarwal J** , Kalyan R K , Chandra Kanta, Atam V. Seroepidemiology of Spotted Fever Rickettsiosis in Uttar Pradesh: A Prospective Study. **Journal of Clinical and Diagnostic Research**, 2017, June 11(6): 4-9.
48. Ahuja S, Chhabra AK, **Agarwal J** (2017) Study of Bacterial Spectrum in Patients of Chronic Dacryocystitis, at a Tertiary Care Centre in Northern India. J Community Med Health Educ, 2017, Jul (7) 536. doi:10.4172/2161-0711.1000536
49. Yadav DK, Tripathi AK, Gupta D, Shukla S, Singh AK, Kumar A, Agarwal J, Prasad, KN. Interleukin-1B (*IL-1B-31* and *IL-1B-511*) and interleukin-1 receptor antagonist (*IL-1Ra*) gene polymorphisms in primary immune thrombocytopenia. *Blood Res*. 2017;52(4):264-269.
50. Sen M, Singh V, Das A, Garg J, Pandey A, **Agarwal J**. Analysis Of Bacterial Cholangitis In Patients Attending Tertiary Health Care Centre In North India. *Int J Microbiol Res* 2018; 10(6): 1256-1258
51. Singh V, Maurya K, Sen M, Das A, **Agarwal J**. Candida biofilm-a medical havoc: prospective study among the patients in a tertiary health care centre in north India. Accepted for publication in IP international Journal of Medical Microbiology and tropical diseases. vol. 4 issue 3; manuscript id 2001.
52. Chaudhary N, Kalyan RK, **Agarwal J**, Singh M, Qureshi S. Evaluation of risk factors in women attending a sexually transmitted infection clinic at a tertiary care centre. *International Journal of Research in Medical Sciences* 2018 Jul;6(7):2332-2337. DOI: 10.18203/2320-6012.ijrms20182812.
53. Das A, Islahi S, Sen M, Kanujia R, Kumar G, **Agarwal J**. In vitro susceptibility of *Escherchia coli* and *Enterococcus faecalis* isolates from patients with urinary tract infection to Fosamycin in North India: A retrospective study in a tertiary care center. *MGM J Med Sci* 2018;5(3):110-114.
54. **Jyotsna Agarwal**, Shruti Radera, Swastika Suvirya, Manish Awasthi. Antibiotic resistance in Neisseria gonorrhoeae isolated from a tertiary care center in North India *Indian Journal of Sexually Transmitted Diseases and AIDS*, Volume 40, Issue 2, July-December 2019 page 182-183

55. M Srivastava, A Chandra, **J Agarwal**, R Rahul, J Nigam, D Parmar, L K Satyam. Antibacterial spectrum of human omentum and differential expression of beta defensins. *Indian Journal of Gastroenterology*: 2019 October
56. Chaudhary N, Kalyan R, Singh M, **Agarwal J**, Qureshi S. Prevalence of Reproductive tract infections in women attending a tertiary care centre in Northern India with special focus on associated risk factors. *Indian Journal of sexually transmitted disease and AIDS*; Vol 46, issue 2, July-December 2019
57. Sanshriti Chauhan<sup>1</sup>, **Jyotsna Agarwal**, Amita Jain, K.K. Sawlani, Prashant Gupta, Abhishek Goel, Neera Verma & D. Himanshu. Status of adult immunity to hepatitis A virus in healthcare workers from a tertiary care hospital in north India *Indian J Med Res* 150, November 2019, pp 508-511
58. Jaya Garg, Vikramjeet Singh, Pranshu Pandey, Ashish Verma, Manodeep Sen, Anupam Das, **Jyotsna Agarwal**. Evaluation of sample pooling for diagnosis of COVID-19 by Real time PCR- A resource saving combat strategy, First published: 01 September 2020, <https://doi.org/10.1002/jmv.26475>
59. ICMR COVID Study Group, Laboratory surveillance for SARS-CoV-2 in India: Performance of testing & descriptive epidemiology of detected COVID-19, *Indian J Med Res* . May;151(5):424-437. doi: 10.4103/ijmr.IJMR\_1896\_20.

**Review Article:**

60. Ayyagari A, **Agarwal J**, Garg A. Antibiotic associated diarrhoea: Review. **Indian Journal of Medical Microbiology**.2003; 21(1): 6-11;Impact Factor:0.882, citations:16.
61. **Agarwal J**, Srivastava S, Singh M. Pathogenomics of uropathogenic *E.coli*: Review. **Indian Journal of Medical Microbiology**.2012; 30(2): 141-149; Impact Factor: 0.882, citations:8.
62. IndiaClen 2013 Annual Conference Group, **Agarwal J**, et al. IndiaClen recommendations for improving postgraduate medical research and publication. Published **Clinical Epidemiology and Global Health**.2013; 1(2): 54-57.

**Case Reports:**

63. **Agarwal J**, Agarwal G, Ayyagari A, Kar DK, Mishra S K, Bhatia E. Isolated *Pneumocystis carinii* infection of adrenals causing Addison's disease in a non-immunocompromised adult. **Endocrine Pathology**.2001; 12(1): 87-91; **Impact Factor:1.76**
64. Kar D, Agarwal G, Mehta B, **Agarwal J**, Gupta RK, Dhole TN, Agarwal A, Mishra SK. Tubercular granulomatous inflammation associated with adenoma of parathyroid gland manifesting as primary hyperparathyroidism. **Endocrine Pathology**.2001; 12(3): 355-359; Impact Factor: **1.76**.
65. Suvirya S, Gandhi R, **Agarwal J**, Patil R K. Erythematous candidiasis leading to systemic manifestations of human immunodeficiency virus coinfection with secondary syphilis: A diagnostic and therapeutic dilemma. **European Journal of Dentistry**. 2015; 9: 449-452.Impact Factor: **0.94**
66. Radera S, Tripathi S, **Agarwal J**, Kumar M. Chryseobacterium Indologenes-Associated Pneumonia in 2 Neonates. **Pediatrics Infectious Disease Journal**. 2017 Mar;36(3):337-339. doi: 10.1097/INF.
67. Jameel F, Agarwal J, Waseem M Serajuddin M. Antibacterial activity of epidermal mucus extracts of three freshwater air-breathing fish species against human pathogenic bacteria. *Indian J. Fish.*, 2019; 66(1): 119-123.