

Dr. Poonam S Deshpande

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Personal Details:-

Name	Deshpande	Poonam	Satyajeet
	<i>SURNAME</i>	<i>FIRST NAME</i>	<i>MIDDLE NAME</i>
Department	CHEMISTRY		
Designation	ASSISTANT PROFESSOR		
Qualification(s)	M.Sc., Ph.D.		
Certification(s)/Professional Courses/Exams	Professional Diploma in Clinical Research		
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Member Of:-

College Committees	Other Committees
NAAC Committee for Present Student Interaction	

Research Done:

Title of the Project	Name of the Funding Agency	Duration (Year)	Type (Minor/Major)	Status (Completed / Ongoing)
1. Development of PCR assay for Diagnosis of TBM	Central India Institute of Medical Sciences (In-house), Nagpur	01	Minor	Completed

2. Evaluation of <i>IS6110</i> PCR assay for amplification of <i>M.tuberculosis</i> DNA from peripheral blood cells.	Central India Institute of Medical Sciences (In-house), Nagpur	01	Minor	Completed
3. Heterologous prime-boost immunization approach using a Ag85 complex and BCG in PBMC model to improve the efficacy of vaccine against TB	Central India Institute of Medical Sciences (In-house), Nagpur	01	Minor	Completed
4. Screening of various medicinal plant for their Antibacterial, Antimicrobial and DNA damage protection activity	UGC- CPE, Fergusson College	01 (2014-15)	Minor	Completed

Area of Interest in Research:

Animal Cell culture
Molecular Biology
Immunology
Disease Diagnostics

Research publications: 22

1. **Poonam S Deshpande**, Dupadahalli Kotresha, Rahmah, Noordin, Muhammad Hafiznur Yunus, Geita Saadatnia, Majid Golkar, Sabariah Osman, Izzati Zahidah Abdul Karim and Fatemeh Ghaffarifar. IgG avidity Western blot using *Toxoplasma gondii* rGRA-7

cloned from nucleotides 39-711 for serodiagnosis of acute toxoplasmosis. *Revista do Instituto de Medicina Tropical de São Paulo*, April, 2013,55(2): 79-83.

2. Kotresh D., **Poonam S Deshpande** et al. Recombinant proteins from new constructs of SAG1, GRA1 and GRA7 sequences and their usefulness to detect acute toxoplasmosis. *Tropical Biomedicine*, May, 2012, 29(1): 129-137.
3. Khushboo J. Nagdev, Rajpal S. Kashyap, **Poonam S.Deshpande**, Hemant J. Purohit, Girdhar M. Taori and Hatim F. Dagainawala. "Determination of PCR efficiency for diagnosis of tuberculous meningitis in Chelex-100 extracted DNA samples". *International Journal of Tuberculosis and Lung Diseases*, 2010.
4. Rajpal Singh Kashyap, Aliabbas A Husain , Shweta H Morey , Milind S. Panchbhai, **Poonam S Deshpande**, Hemant J Purohit, Girdhar M Taori, Hatim F Dagainawala. Assesment of immune response to repeat stimulation with BCG vaccine using invitro PBMC model. *Journal of Immune based Therapies and Vaccine*, 2010, 8:3.
5. Khushboo J. Nagdev, Rajpal S. Kashyap, **Poonam S.Deshpande**, Hemant J. Purohit, Girdhar M. Taori and Hatim F. Dagainawala. Comparative evaluation of a PCR assay with an in-house ELISA method for diagnosis of Tuberculous meningitis. *Medical Science Monitor* , 2010, 16(6):289-295,
6. Rajpal Singh Kashyap, Shweta H Morey , Sonali S Ramteke, , Nitin H Chandak, Manmohan Parida, **Poonam S Deshpande**, Hemant J Purohit, Girdhar M Taori, Hatim F Dagainawala. Diagnosis of Chikungunya fever in an Indian population with an indirect ELISA protocol based on an antigen detection assay: A prospective cohort study. *Clinical and Vaccine Immunology*, 2010, 17(2):291-297.
7. Rajpal S. Kashyap, **Poonam S. Deshpande**, Sonali R. Ramteke, Milind S. Panchbhai, Hemant J. Purohit, Girdhar M. Taori, Hatim F. Dagainawala. Changes in cerebrospinal fluid cytokine expression in Tuberculous Meningitis patients with treatment. *Journal of Neuroimmunomodulation*, 2010, 17(5):333-9.
8. Rajpal S Kashyap, Sonali M Saha, Hari M Gaherwar, Poonam S Deshpande, Hemant J Purohit, Girdhar M Taori and Hatim F Dagainawala. Evaluation of BioFM liquid medium for culture of cerebrospinal fluid in tuberculous meningitis to identify Mycobacterium tuberculosis. *Indian Journal of Medical Microbiology*, 2010,28(4):366-369.
9. Kashyap R.S., Nayak A.R.,**Deshpande, P.S.**, Kabra D., Purohit, H.J., Taori G.M., Dagainawala, H.F. Inter- α -trypsin inhibitor heavy chain 4 is a novel marker of acute ischemic stroke. *Clinica Chemica Acta* 2009; 402:160-
10. Nagdev,K.N., **Deshpande, P.S.**, Kashyap,R.S., Purohit, H.J., Taori G.M., Dagainawala, H.F. Evaluation of nested PCR along with other laboratory techniques for the diagnosis of pleural tuberculosis. *Inter. J Integrat. Biol.* 2008; 4(1): 28.

11. **Deshpande,P.S.**, Kashyap,R.S., Nagdev,K.N., Ramteke,S.S., Purohit.H.J., Taori,G.M., Daginawala,H.F., Evaluation of the IS6110 PCR assay for the rapid diagnosis of tuberculous meningitis. *BMCCerebrospinal Res.* **2007**, Nov 2, 4(1):10.
12. Kashyap,R.S., Ramteke,S.P., **Deshpande, P.S.**, Purohit, H.J., Taori G.M., Daginawala, H.F. Comparison of an adenosine deaminase assay with ELISA for the diagnosis of tuberculous meningitis infection. *Med Sci Monit.* **2007** Sep;13(9):BR200-204.
13. Kashyap,R.S., **Deshpande,P.S**, Nayak,A.R., Purohit,H.J., Deopujari,,J.Y., Taori,G.M., Daginawala, H.F Adenosine deaminase activity in the supernatant of monocytes infected with *Mycobacterium tuberculosis*. *Inter. J Integrat. Biol.* **2007**; 1 (2), pp.61-64.
14. **Kainthla,R.P***,Kashyap,R.S.,Purohit.H.J., Deopujari,J.Y., Taori,G.M.,Daginawala,H.F., Study of interaction between cyclosporin A and herbal extracts on *in vitro* cultured human T-cells. *J Cell & Tissue Res*; **2007**(1): 877-880.
15. Kashyap R.S, Kainthla R.P, Purohit H.J, Taori G.M and Daginawala H.F. Tuberculosis meningitis in patients without systemic focus of miliary tuberculosis.American-Eurasian **Journal of Scientific Research**; **June 2007, 2(1):33**
16. **Kainthla,R.P***, Kashyap,R.S., Prasad,S., Purohit.H.J., Taori,G.M., Daginawala,H.F., Evaluation of Adenosine deaminase assay for analyzing T-lymphocytes density *in vitro*.*In Vitro Cell Dev Biol Anim.* **Nov-Dec 2006**;42(10):287-9.
17. **Kainthla,R.P***,Kashyap,R.S.,Purohit.H.J.,Deopujari,J.Y.,Taori,G.M.,Daginawala,H.F., Effect of Hemidesmus indicus (Anantmoool) extract on IgG production and ADA activity of human peripheral blood lymphocytes in vitro.*Ind.J Pharmacol.* **June-August, 2006**, Issue 3, pp 190-193.
18. Satpute,R.M.,Kashyap,R.S.,**Kainthla,R.P***,Purohit.H.J.,Taori,G.M.,Daginawala,H.F.,.Se ceratory factor of human neuroblastoma (IMR-32) and human glioblastoma (U87MG) cell lines induce neurite outgrowths in PC-12 cells. *Ind. J.Expt.Biol*; **May 2006** ;367-370.
19. Kashyap,R.S.,**Kainthla,R.P***, Mudaliar,A.V.,Purohit.H.J., Taori,G.M., and Daginawala, H.F. Adenosine deaminase :A complimentary tool in the early diagnosis of Tuberculous meningitis. *BMC Cerebrospinal Fluid Research*, **May 2006**.

20. Kashyap,R.S., **Kainthla,R.P*.**, Satpute, R.M., Agarwal, N.P., Chandak, N.H, Purohit,H.J., Deopujari,J.Y., Taori,G.M., and Daginawala,H.F,. Differential Diagnosis of Tuberculous Meningitis from partially treated cases of pyogenic meningitis by Cell ELISA. *BMC Neurology* **2004**, 4:16.
21. Kashyap, R.S., **Kainthla, R.P*.**, Satpute, R., Purohit, H.J., Chandak.N., Taori, G.M. and Daginawala, H.F. Demonstration of IgG antibodies to 30 Kd protein antigen in CSF for diagnosis of TBM by antibody capturing ELISA. *Neurology India* **2004**:52(3);359-362.
22. Kashyap,R.S., **Kainthla,R.P*.**, Saibal K. Biswas, Agarwal, N.P., Chandak, N.H, Purohit,H.J., Deopujari,J.Y., Taori,G.M., and Daginawala,H.F,. Rapid diagnosis of tuberculous meningitis using the Simple Dot ELISA method. *Med.Sci.Monit***2003**; 9(11): MT123-126.

*Previous name

Participation in Conferences/Seminars/Symposia/Workshop :

Sonali M Bhansode, Gaurav V Naik, **Poonam S Deshpande**. Screening of *Semecarpus anacardium* extracts for assessing antioxidant, anti-arthritic and DNA damage protection activity, Regional Research Conference “**Innovation- 2015**”, **DES Fergusson College, Pune, June 2015**

Khushboo J. Nagdev, Rajpal S. Kashyap, **Poonam S. Deshpande**, Hemant J.Purohit, Girdhar M. Taori and Hatim F. Daginawala. Evaluation of One-step Chelex-100 resin based DNA extraction protocol for PCR based diagnosis of Tuberculosis meningitis. **78th Annual Meeting Society of Biological Chemists (India), Pune. October 30- November 1, 2009.**

Khushboo J. Nagdev, Rajpal S. Kashyap, **Poonam S. Deshpande**, Hemant J. Purohit, Girdhar M. Taori, Hatim F. Daginawala. Clinical Utility of Polymerase Chain Reaction as a diagnostic test for detection of Mycobacterium tuberculosis in different clinical specimens. **64th National Conference on Tuberculosis and Chest Diseases, Kolkatta, December 27- December 29, 2009**

Khushboo J. Nagdev, **P. S. Deshpande**, R. S. Kashyap, H. J. Purohit, G. M. Taori and H. F. Daginawala. Evaluation of in house developed PCR and comparison with different assays for the diagnosis of Tuberculous meningitis.**76th annual meeting, Society of Biological Chemists (India), Tirupati, November, 2007.**

Khushboo J. Nagdev, **P. S. Deshpande**, R. S. Kashyap, H. J. Purohit, G. M. Taori and H. F. Daginawala. A comparative evaluation of different assays for the diagnosis of Tuberculous meningitis.“**Biochem -07 National Conference on currents trends in Biochemistry,Nagpur, December 2007**”.

Kainthla RP* et al. A study on toxic effect of Cyclosporin A, Cyclophosphamide and chlorophenols on human peripheral blood lymphocytes in vitro. Indian Science Congress, Hyderabad, India, **January, 2006**

Kainthla RP* et al Cytotoxic effects of immunosuppressive drugs and environmentally relevant chlorophenols on human lymphocytes.. Meeting of Society of Biological Chemists, Lucknow, India, **November, 2005**.

Mudliar AV, **Kainthla RP***, Kashyap RS et al. Adenosine deaminase : A complimentary tool in the early diagnosis of tuberculous meningitis, **Meeting of Society of Biological Chemists (SBC)**, Pantnagar, India, **2004**..

Kainthla RP*, Kashyap RS et al. Effect of Hemidesmus indicus aqueous extract on IgG production and adenosine deaminase activity of human peripheral blood lymphocytes in vitro. Meeting of Society of Biological Chemists, Pantnagar, India, **2004**.

Satpute RM, Kashyap RS, **Kainthla RP*** et al. Evaluation of Biomarkers in blood of acute ischemic stroke patients. **Meeting of Society of Biological Chemists**, Pantnagar, India, **2004**.

Ray Parthasarathi, **Kainthla RP***, Kashyap RS et al. Immunomodulatory effect of Tinospora cordifolia on the activities of cultured human lymphocytes. **Meeting of Society of Biological Chemists**, Pantnagar, India, **2004**.

Behere MM, Kashyap RS, **Kainthla RP***. Detection of Culture Filtrate Antigen of H Rv Strain in TBM CSF by Indirect Inhibition ELISA. **Meeting of Society of Biological Chemists**, Pantnagar, India, **2004**.

Radhika SS, Kashyap RS, **Kainthla RP***. Biological activity of protein antigens isolated from the liquid culture filtrate of M Tuberculosis for diagnosis of tuberculosis and tuberculous meningitis. **Meeting of Society of Biological Chemists**, Pantnagar, India, **2004**.

Singh A, **Kainthla RP***, Kashyap RS. Electrophoretic protein profile study of human peripheral blood lymphocytes, **Meeting of Society of Biological Chemists**, Pantnagar, India, **2004**.

Kashyap RS, **Kainthla RP*** et al. TBM patients without focus of TB: Case studies with Experimental evidences. **Meeting of Society of Biological Chemists**, Pantnagar, India, **2004**

Kainthla RP*, Kashyap RS et al. Study of response of lymphocytes to immunomodulatory agents.. **10th Congress of Federation of Asian and Oceanian Biochemists and Molecular Biologists**, Bangalore, **2003**.

Mudliar AV, **Kainthla RP***, Kashyap et al. Identification of protein marker(s) diagnosis of tuberculous meningitis. **Symposium on Stem Cell Technology**, Hislop School of Biotechnology and Biotech Society, Nagpur, **2003**.

Ray Parthasarathi, **Kainthla RP*** and Kashyap RS et al. Development of lymphocyte model for studying Immunomodulation. **Symposium on Stem Cell Technology**, Hislop School of Technology and Biotech Society, Nagpur, **2003**.

Moumita Goswami, **Kainthla RP***, Kashyap RS et al. Response to B Cells derived from CSF of TBM patients towards immobilized CPF antigen by IgG capturing ELISA. **Symposium on Stem Cell technology**, Hislop School of Biotechnology and Biotech Society, Nagpur, **2003**.

*Previous name

Seminars and Workshops Organized:-

Sr. No .	Name of the Seminar/ Conference/ Symposia /Workshop etc.	Name of organizing Institute/ College/ University	Nature of contribution	Dates
1.	One week short Training Programme on “Analytical Instrumentation”	College of Engineering, Pune	Participant	15 th – 19 th June, 2015
2.	Regional Research Conference “Innovation- 2015”	DES Fergusson College, Pune	Poster presentation	17 th June, 2015
3.	National conference on “Advances in Chemical Sciences with special reference to Molecular Spectroscopy, Material Science and Organic Electronics” NCACS-2014	DES’s Fergusson College, Department of Chemistry	Participation	19 th & 20 th December, 2014
4.	National Level “3 weeks workshop on Immunological, Molecular Biology and Animal cell culture techniques”	Central India Institute of Medical Sciences	Programme-Coordinator	4 th – 24 th December, 2008
5.	International level Symposium on “CNS Infection”	Central India Institute of Medical Sciences	Programme-Coordinator	4 th – 24 th , 2008
6.	Workshop on Intellectual Property Rights and Patenting System in India	Post Graduate Teaching Department of Biochemistry	Participated	20 th January 2007
7.	Pre-Conference Workshop & CME, 54 th Annual Conference of Indian Association of Pathologists & Microbiologists APCON 2005	IAPM MP State Chapter	Participated	28 th & 29 th November, 2005

Affiliation to Professional Bodies:

Sr. No.	Name of the Body	Nature of Affiliation	Details
1.	Society for Neurochemistry, India (SNCI)	Life member	Life Membership Number – LM-I-251