

CURRICULUM VITAE

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**Date of Birth** : 7<sup>th</sup> June 1936.

**Academic Qualifications:**

- B Sc Microbiology/Chemistry, Bombay University, 1959.
- M Sc Biochemistry, Nagpur University, 1961.
- Ph D Biochemistry, University of Texas, Medical Branch Galveston, USA, 1967.
- Elected Fellow of Maharashtra Academy of Sciences, 1990.
- Nominated as a member of Task Force on Microbial Biotechnology, Ministry of Science & Technology, Government of India for a period of three years from Jan 1994 to Dec. 1996.

**Training & Research Experience:**

- Research Fellow at Indian Institute of Sciences, Bangalore from July 1961 to October 1961.
- Demonstrator at Department of Biochemistry, M S University of Baroda, from November 1961 to October 1962.
- Recipient of James W. McLaughlin Predoctoral Fellowship at University of Texas Medical Centre, Galveston, Texas, USA from January 1963 to December 1965.
- Research Assistant at University of Texas Medical Centre Galveston, Texas USA from January 1966 to Sept 1967.
- Junior Scientific Officer, Indian Council of Medical Research, New Delhi from December 1967 to July 1968.

- Lecturer in Microbiology, Department of Biochemistry, Nagpur University from August 1968 to July 1978.
- Reader in Microbiology from August 1978 to 1983.
- Chitnavis Professor, Department of Biochemistry from December 1983 to 1986.
- Head, Department of Biochemistry and Microbiology from March 1985 to Oct 1988 and of the Department of Biochemistry till July 1992 and from July 1995 to June 1996 till the date of retirement.

### **Books:**

C B Powar and H F Daginawala, General Microbiology, Vol I and II, Himalaya Publishing House, Bombay, 1982. 1985. 1992.

### **Chapters in Books:**

1. Rapport DA, Maxcy P Jr, Daginawala HF, Brain Nuclei, Chapter in Handbook of Neurochemistry, Ed Abel Lajtha, Plenum Press New York, 1969.
2. Rapport DA, and Daginawala HF, Changes in RNA and proteins induced by stimulation, Chapter in protein Metabolism of the Nervous System, Ed Abel Lajtha, Plenum press, New York, 1970.

### **Research Publications: 114**

#### **Experience of Directing Research Work:**

- As Junior Scientific Officer, Indian Council of Medical Research at Department of Biochemistry, All India Institute of Medical Sciences, New Delhi.
- As a supervisor of research students working for their PhD degree at University Department of Biochemistry & Microbiology, Nagpur. 20 students have been awarded PhD in Biochemistry and Microbiology.
- As Principal Investigator in a research scheme sanctioned by Indian Council of Medical Research from April 1970 – Sept 1973.
- As one of the co-investigators in a research scheme sanctioned by Indian Council of Medical Research to Prof M C Nath from April 1970 – March 1973.
- As one of the co-investigators in a research scheme sanctioned by Indian Council of Medical Research to Dr Idreeshi during 1970-1971.
- As joint Investigator of a research scheme sanctioned by UGC for University Teachers during 1970-1971.
- As one of the co-investigators in the project – The evaluation of Bacteriological quality of water stored in Hasti HDPE water storage tanks – funded by PIL Akola, 1987.
- As Principal co-investigator in the project Microbial degradation of some basic organic chemicals present in waste water of dye industry funded by Department of Environment and Forestry Govt of India, 1986-1990.
- Co-investigator in the project – Development of an official microbial system for the treatment of dairy waste water funded by Indian Council of Agricultural Research, 1990-1994.

- Co-investigator in the project – The studies on genetic of bacteria degrading aromatic compounds of pollutional significance funded by Deptt of Biotechnology, Ministry of Science and Technology, Govt. of India, 1993-1996
- Co-investigator in the Project “Development of a kit for detection of Mycobacterium tuberculosis antigen in cerebrospinal fluid of Tuberculous meningitis patients. Deptt. Of Biotechnology, Ministry of Science and Technology, Govt. of India. 2005 onwards.

### List of important publications (last five years)

1. Shekhawat Seema D, Ruchika Jain, Hari Gaherwar, Purohit Hemant J, Taori Girdhar M, **Hatim F Daginawala** and Rajpal S Kashyap. Heat Shock Proteins: Possible biomarkers in pulmonary and extrapulmonary tuberculosis. Accepted in Human Immunology, November 2013
2. Khushboo J. Nagdev, Rajpal S. Kashyap, Shraddha S. Bhullar, Hemant J. Purohit, Girdhar M. Taori and **Hatim F. Daginawala**. Comparison of Real-Time PCR and conventional PCR using IS6110 region of *Mycobacterium tuberculosis* for efficient diagnosis of tuberculous meningitis and pulmonary tuberculosis. Indian Journal of Biotechnology, Accepted, Sep 2013.
3. Ruchika Jain, Amit Nayak, Aliabbas Husain, Milind Panchbhai, Nitin Chandak, Hemant Purohit, Girdhar M. Taori, **Hatim F. Daginawala** and Rajpal Singh Kashyap. Mycobacterial dormancy regulon protein Rv2623 as a novel biomarker for the diagnosis of latent and active tuberculous meningitis. Disease Markers, 2013, 35;1–6
4. Rajpal S. Kashyap, Amit R. Nayak, Hari M. Gaherwar, Shraddha S. Bhullar, Aliabbas A. Husain, Seema D. Shekhawat, Ruchika K. Jain, Sonali S. Gaikwad, Ashish R. Satav, Hemant J. Purohit, Girdhar M. Taori and **Hatim F. Daginawala** . Laboratory investigations on the diagnosis of tuberculosis in the malnourished tribal population of Melghat, India. PlosOne 013 Sep 12; 8(9):e74652.
5. Shweta S Chourasiya, Rajpal S Kashyap, Jayant Y Deopujari , Hemant J Purohit, Girdhar M Taori, **Hatim F. Daginawala**. Effect of aqueous extract and fractions of Fagonia arabica on in vitro anticoagulant activity. Clinical and applied thrombosis and hemostasis. Clin Appl Thromb Hemost. 2013 Jun 27 epub : ahead of print
6. Aliabbas A. Husain, **Hatim F. Daginawala**, Hemant J. Purohit, Girdhar M. Taori, Rajpal S. Kashyap. Assessment of immune response to culture filtrate antigens of M. tuberculosis Culture Using invitro PBMC Model: Prospects to New Vaccine development. European journal experimental biology 2013, 3(3):35-42

7. Shradha S. Bhullar, Nitin H. Chandak, Hemant J. Purohit, Girdhar M. Taori, **Hatim F. Daginawala**, Rajpal S. Kashyap. Determination of viral load by quantitative real-time PCR in herpes simplex encephalitis patients. *Intervirolgy*. 2013 Aug 24. [Epub ahead of print]
8. Rajpal S. Kashyap, Amit R. Nayak, Aliabbas A. Husain, Hari M. Gaherwar, Hemant J. Purohit, Girdhar M. Taori, **Hatim F. Daginawala**. Tuberculosis in India: The Continuing Challenge. Review Article Accepted for publication in *Current Science* vol. 105, no. 5, 10 September 2013
9. Aliabbas A. Husain, **Hatim F. Daginawala**, Dewanand R. Kalorey, Amit R. Nayak, Hemant J. Purohit, Girdhar M. Taori, Rajpal S. Kashyap. Proteomic approach to identify surrogate biomarker for evaluation of efficacy after prime boost vaccination. *Indian Journal of Applied Research* 2013, 3: 452-55
10. Rajpal S Kashyap, Amit Nayak Sonali Gaikwad, Ruchika K Jain **Hatim F Daginawala** Girdhar M Taori. Biomarkers in pulmonary and extra pulmonary tuberculosis. Published as a full length paper in proceeding of the International conference on “Advances in developing Affordable Invitro molecular Diagnostics”. Organised by Yashraj Research Foundation , Mumbai on 11-14 March 2012
11. Kashyap RS, Shekhawat SD, Nayak AR, Purohit HJ, Taori GM, **Daginawala HF**. Diagnosis of tuberculosis infection based on synthetic peptides from Mycobacterium tuberculosis antigen 85 complex. *Clin Neurol Neurosurg*. 115(6):678-83, 2013.
12. Shekhawat Seema D, Kashyap Rajpal S, Wanjari Snehal S, Nagdev Khushboo J Purohit Hemant J, Taori Girdhar M and **Daginawala Hatim F**. Evaluation of Mycobacterium tuberculosis 16 and 71 heat shock proteins in the cerebrospinal fluid of tuberculous meningitis patients. *British Journal Of Medicine and medical Research*, 2012, 2(2): 243-253.
13. Amit R Nayak, Rajpal S Kashyap, Dinesh Kabra, **Hatim F Daginawala** et al. Time course of Inflammatory cytokines in acute ischemic stroke patients and their relation to Inter-Alpha Trypsin Inhibitor Heavy Chain 4, and outcome. *Ann Indian Acad Neurol*. 2012 Jul-Sep; 15(3): 181–185.
14. Rajpal S Kashyap, Snehal W Wanjari, Milind S Panchabhai, Hemant Purohit, Giridhar M Taori, **Hatim Daginawala** .Mycobacterium Tuberculosis Heat Shock Protein 16 as a Potential Marker for Latent TB: Preliminary Findings. *J Clin Cell Immunol* 2011; 2 (5):1-4
15. Anju S. Rajan, Rajpal S. Kashyap, Seema D. Shekhawat, Aliabbas A Husain, Hemant J Purohit, Girdhar M Taori & **Hatim F Daginawala**. Relationship between Hsp 65 and IL-12, IL-10 profile in TB patients. A preliminary study. *Future indications in vaccine design*. IIOABJ, 2011;

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16. Amit R Nayak , Rajpal S Kashyap, Dinesh Kabra, Hemant J Purohit, Girdhar M Taori, **Hatim F Daginawala**. Evaluation of routinely performed hematological and biochemical parameters for prognosis of acute ischemic stroke patients. *Neurol Sci*, 2011; 32:855-860.
17. Sagarika Haldar, Mridula Bose, Parul Chakrabarti, **Hatim F. Daginawala**, B.C. Harinath, Rajpal S. Kashyap, et al. Improved Laboratory Diagnosis of Tuberculosis: The Indian Experience. *Tuberculosis*:2011; (1-13)
18. Amit R Nayak, Rajpal S Kashyap, Dinesh Kabra **Hatim F Daginawala** et al. Prognostic significance of ischemia-modified albumin in acute ischemic stroke patients: A preliminary study. *Annals of Neurosciences*: 2011;18 (1):5-7
19. Amit R Nayak , Rajpal S Kashyap, Dinesh Kabra, Hemant J Purohit, Girdhar M Taori, **Hatim F Daginawala**. Prognostic evaluation of sex difference in adenosine deaminase and homocysteine activities of acute ischemic stroke patients. *Basic Clin Sci* 2013; 2: 25-29
20. Ravindra Satpute, Rahul Bhattacharya, Rajpal S Kashyap, Hemant J Purohit, Jayant Y Deopujari, Girdhar M Taori, **Hatim F Daginawala**. Antioxidant potential of *Fagonia arabica* against chemical ischemia induced in PC12 cells. *Iranian Journal of Pharmaceutical Research* (2012), 11: 303-313.
21. Shraddha S. Bhullar, Rajpal S. Kashyap, Nitin H. Chandak, **Hatim F Daginawala** et al. Protein A based ELISA: its evaluation in the diagnosis of herpes simplex encephalitis, *Viral Immunology*, Aug 2011; 24(4):341-346
22. Khushboo J. Nagdev, Rajpal S. Kashyap, Manmohan M. Parida **Hatim F Daginawala** et al. Loop-mediated Isothermal Amplification for Rapid and Reliable Diagnosis of Tuberculous Meningitis. *J Clin Microbiol* 2011 May; 49(5) :1861-5
23. Sweta R Chourasia, Rajpal S Kashyap, Jayant Y Deopujari, et al. In vitro clot lytic potential of *Fagonia arabica*: A comparative study of two methods. *Blood Coagul Fibrinolysis*. 2011 Jun; 22(4):288-94.
24. Amit R Nayak , Rajpal S Kashyap, Jayant Y Deopujari , Hemant J Purohit, Girdhar M Taori, **Hatim F Daginawala**. Evaluation of Neuroprotective effect of *Withania somnifera* against chemical ischemia / reperfusion in PC12 cells. *IJB* , 2010;10 :136-141

25. Milind S Panchbhai, Rajpal S Kashyap, V. S. Agrawal, Hemant J Purohit, Girdhar M Taori and **Hatim F Daginawala**. Evaluation of Quantiferon TB Gold Test for the diagnosis of latent and active tuberculosis. *International Journal of Biology* 2011; 3 (1): 122-129.
26. Rajpal S Kashyap, Sonali M Saha, Hari M Gaherwar, Poonam S Deshpande, Hemant J Purohit, Girdhar M Taori and **Hatim F Daginawala**. 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.
27. Rajpal S Kashyap, Sonali M Saha, Khushboo J Nagdev, Sanjeevani S Kelkar, Hemant Purohit, Girdhar M Taori and **Hatim F Daginawala**. Diagnostic Markers for Tuberculosis Ascites: A Preliminary Study. *Biomarker Insights*, 2010, 5:87-94.
28. Aliabbas A Hussain, Rajpal S Kashyap, Devanand R Kalorey, Shubhangi R Warke, Hemant J Purohit, Girdhar M Taori and **Hatim F Daginawala**. Effect of repeat dose of BCG vaccine on humoral response in mice model. Accepted in *Indian Journal of Experimental Biology*, 2011, 49:7-10. Impact factor 0.550
29. Rajpal S Kashyap, Shweta H Morey, Nitin H Chandak, Hemant J Purohit, Girdhar M Taori and **Hatim F Daginawala**. Detection of viral antigen, IgM and IgG antibodies in cerebrospinal fluid of Chikungunya patients with neurological complications. *BMC, Cerebrospinal fluid research*, 2010, 7:12. unofficial Impact factor 1.841
30. Shweta H Morey, Rajpal S Kashyap, Hemant J Purohit, Girdhar M Taori and **Hatim F Daginawala**. An approach towards peptide-based antibody detection for diagnosis of Chikungunya infection. *Biomarkers*, September 2010, 15(6):546-552. Impact factor 1.7
31. Rajpal Singh Kashyap, Aliabbas A Husain, Shweta H Morey, Milind S. Panchbhai, Poonam S Deshpande, Hemant J Purohit, Girdhar M Taori, **Hatim F Daginawala**. Assessment of immune response to repeat stimulation with BCG vaccine using invitro PBMC model. *Journal of Immune based Therapies and Vaccine*, 2010, 8:3.
32. Khushboo J. Nagdev, Rajpal S. Kashyap, Poonam S. Deshpande, Hemant J. Purohit, Girdhar M. Taori and **Hatim F. Daginawala**. Determination of PCR efficiency for diagnosis of tuberculous meningitis in Chelex-100 extracted DNA samples. *International Journal of Tuberculosis and Lung Diseases*, August 2010, 14(8):1032-8. Impact factor 2.54

33. Khushboo J. Nagdev, Rajpal S. Kashyap, Poonam S. Deshpande, Hemant J. Purohit, Girdhar M. Taori and **Hatim F. Daginawala**. 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. Impact factor 1.54
34. 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 Daginawala**. 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. Impact factor 2.373
35. Rajpal S. Kashyap, Poonam S. Deshpande, Sonali R. Ramteke, Milind S. Panchbhai, Hemant J. Purohit, Girdhar M. Taori, **Hatim F. Daginawala**. Changes in cerebrospinal fluid cytokine expression in Tuberculous Meningitis patients with treatment. *Neuroimmunomodulation*, 2010, 17(5):333-9. Impact factor 0.953
36. Ravindra M. Satpute, Rajpal S Kashyap, Jayant Y Deopujari, Hemant J Purohit, Girdhar M Taori, **Hatim F Daginawala**. Protection of PC12 cells from chemical ischemia induced oxidative stress by *Fagonia arabica*. *Food Chem. Toxicol* 2009 Nov, 47(11):2689-95. Impact factor 2.114
37. Nitin H. Chandak, Rajpal S. Kashyap, Dinesh Kabra, Poornima Karandikar, Sonali M. Saha, Shweta H. Morey, Hemant J. Purohit, Girdhar M. Taori, **Hatim F. Daginawala**. Neurological complications of chikungunya virus infection. *Neurology India*, 2009, 57(2):177-180. Impact factor 0.796
38. Amit R Nayak, Rajpal S Kashyap, Hemant J Purohit, Dinesh Kabra, Girdhar M Taori, **Hatim F Daginawala**. Evaluation of the inflammatory response in sera from acute ischemic stroke patients by measurement of IL-2 and IL-10. *Inflammation Research* 2009 Oct, 402(1-2):687-91. Impact factor 1.586
39. Rajpal S Kashyap, Sonali S Ramteke, Shweta H Morey, Hemant J Purohit, Girdhar M Taori, **Hatim F Daginawala**. Diagnostic value of early secreted antigenic target-6 (esat-6) for diagnosis of tuberculous meningitis patients. *Infection*, 2009, 37:508-513. Impact factor 2.051
40. Rajpal S Kashyap, Amit R Nayak, Poonam S Deshpande, Dinesh Kabra, Hemant J Purohit, Girdhar M Taori, **Hatim F. Daginawala**. Inter- $\alpha$ -trypsin inhibitor heavy chain 4 is a novel marker of acute ischemic stroke. *Clin Chem Acta* 2009, 402:160-163. Impact factor 2.535



41. Khushboo J Nagdev, Poonam S. Deshpande, Rajpal S. Kashyap, Hemant J. Purohit, Girdhar M. Taori, **Hatim F. Daginawala**. Evaluation of nested PCR along with other laboratory techniques for the diagnosis of Pleural tuberculosis. IJIB 2008, 4:28-33.
42. Amita Limaye, Rajpal S Kashyap, Atya Kapley, Sanjeev Galande, Hemant J Purohit, **Hatim F Daginawala**, Girdhar M Taori. Modulation of signal transduction pathways in lymphocytes due to sub-lethal toxicity of chlorinated phenol. Toxicology Letters 2008, 179:23-28. Impact factor 3.479