

# Curriculum Vitae

**DR. MAHAVIR YADAV**

mahaviryadav@rgpv.ac.in

Mob. No. : 9827859422



## Personal profile

Name : Mahavir Yadav

Aadhaar No. : 4065 7838 3688

Parent's name : Shri Shiv Narayan Yadav & Mrs.Santosh Yadav

Date of birth : 25th January, 1969

Sex : Male

Marital status : Married

Nationality : Indian

Language Spoken : English, Hindi

Present Address : School of Biotechnology, Rajiv Gandhi Technological University  
Airport Bypass Road, Gandhi Nagar, Bhopal- 462036, Madhya Pradesh  
(India)

Permanent Address : GH-13/ 1072 Paschim Vihar, Delhi-87, India.

## Summary of Curriculum Vitae;

**Present Work Status:** Lecturer, School of Biotechnology, RGPV, Gandhi Nagar, Bhopal-462036, India. Academic.

**Qualification:** B.Sc. (H) Zoology, M. Sc (Biotech), PhD (Biotech) Ph.D. in Science (Biotechnology) on "Construction of novel streptokinase derivatives with enhanced fibrin specificity" under Dr. Girish Sahni, Director, Institute of Microbial Technology, Chandigarh (Union Territory.) affiliated to Punjab University, Chandigarh in 1999.

**Teaching Profile:** PGIMER (Chandigarh) and RGPV (Bhopal).

**Research Profile:** Goa University (Panaji), IMTECH (Chandigarh), NRCPB (IARI, Delhi), RGPV (Bhopal).

**Dissertation Supervised:** 32 (Thirty-two M. Tech Students)

**Research paper:** 25, International research papers published.

**Patents:** 2 (International patents) and 1 Indian patent, published.

## Objectives

To establish a career as an academician-cum-researcher in an innovation driven environment, which encourages original ideas and multidisciplinary aspects of Biotechnology and where my

background will be an asset to expertise at coming up rapidly with solutions and prototypes to the students and scientific communities.

### **Area of interest**

Genetic Engineering (Cell & Molecular Biology)

Genomics (Structural and Functional)

### **Academic Qualification**

PhD: Doctor of Philosophy in Science (Biotechnology) from Institute of Microbial Technology, Chandigarh (Union Territory.) affiliated to Punjab University, Chandigarh in 1999.

M. Sc: Master of Science in Marine Biotechnology from Goa University in 1992 with 61.50% marks.

B.Sc. (10+2+3): Bachelor of Science in Zoology (Honors) with Botany and Chemistry from Delhi University in 1990 with 60% marks.

Intermediate (10 + 2): Passed Intermediate from Kulachi Hans Raj Model School, Ashok Vihar (Delhi- 110052 under C.B.S.E. in 1987 with 79.25% marks.

High School: Passed High School from Kulachi Hans Raj Model School (Delhi) under C.B.S.E. in 1985 with 71 % marks.

### **Ph.D. in Details**

Doctor of Philosophy in Science (Biotechnology) on "Construction of novel streptokinase derivatives with enhanced fibrin specificity" under Dr. Girish Sahni, Director, Institute of Microbial Technology, Chandigarh (Union Territory.) affiliated to Punjab University, Chandigarh in 1999.

Aim and Significance: Fibrinolysis is currently the most promising methods used for the treatment of myocardial infarction. One of the agents commonly used in fibrinolytic Therapy is the Bacterial protein "Streptokinase" (SK) although many studies have clearly established SK as

a very effective clot dissolving agent clinically, it has some unwelcome side-effects. Fibrinolytic therapy with this agent often induces systemic fibrinogen breakdown and hemorrhagic diathesis due to the extensive plasminogen activation in the circulation. A contributory factor to this relative non-specificity in SK action is a lack of intrinsic fibrin specificity as seen in some other thrombolytic agents like t-PA. The plasminogen activation is therefore not sufficiently limited to the locale of the fibrin clot. Hence, one of the challenges in the development of therapeutically enhanced SK derivatives by protein engineering methods is to design and produce derivatives of SK with fibrin specificity.

Contribution: During the Ph. D with the guidance of Dr. Girish Sahni along with six other workers (Minor contributors) we succeeded in creating a genetically engineered, second generation version of Streptokinase using rDNA Technology. The creation of this formulation is getting a lot of appreciation from biomedical scientists and many believe that it may become world No.1 in the treatment of blood clots and may replace tissue plasminogen activator with its easy availability in India and abroad. The molecule works like a wire guided missile and does not lose its efficacy in the process or being transported to the clot. The creation of this clot buster protein took nearly 7 years and involved a lot of computer assisted designing and the latest techniques of recombinant DNA technology and protein engineering. Negotiating on behalf of IMTECH the C.S.I.R has sought an international patent right in all the European Union nations and the United States of America and Japan. A multinational company Nostrum has purchased the technology for a Net 5 million dollars and a royalty in July, 2006.

### **Honors and Prizes**

- ✓ Received a Royalty/ Premium of Rs. 3, 48, 499/- in the month of June -July, 2008 as part of the (CSK) clot specific streptokinase team member.
- ✓ Received a Royalty/ Premium of Rs. 4, 84, 499/- in the month of June -July, 2011 as part of the (CSK) clot specific streptokinase team member.
- ✓ Received a Royalty/ Premium of Rs. 58, 008/- in the month of April -May, 2013 as part of the (CSK) clot specific streptokinase team member.

- ✓ Was awarded Research associate ship from DBT (Department of Biotechnology, Ministry of Science & Technology, Govt. of India) in the project "Tomato genome sequencing" during the period of June, 2005 - July 2007.
- ✓ Was awarded Research associate ship from DBT (Department of Biotechnology, Ministry of Science & Technology, Govt. of India) in the "Rice genome project" during the period February, 2001 to May, 2005.
- ✓ Received Sr. Research Fellowship from CSIR (Council of Scientific and Industrial research, Ministry of Science & Technology, Govt. of India) for continuing Ph. D at the same Institute from 1994 to 1997.
- ✓ Received Jr. Research fellowship from CSIR (Council of Scientific and Industrial research, Ministry of Science & Technology, Govt. of India) for doing Ph. D at Institute of Microbial Technology, Chandigarh from 1992 to 1994.
- ✓ Qualified in National eligibility test (CSIR-UGC NET) conducted by CSIR-UGC in 1991.
- ✓ Qualified GATE with 80.69 percentile marks in 1992. (GATE, a national level examination for post-graduate study in engineering, conducted by IITs of India).
- ✓ Qualified the joint M. Sc Biotechnology exam and received a fellowship from DBT (Department of Biotechnology, Ministry of Science & Technology, Govt. of India) from July, 1990 to June, 1992.

### **Summer Training Course**

Summer Training course on "Techniques and Methods in Biotechnology" from National Institute of Immunology, Delhi during the period of June-July, 1991.

### **M. Tech Dissertation Supervised as Guide and Co-guide**

1. "Role of Glycosylation on filament assembly of keratins 8 and 18" by Sourabh Taru Saha, M. Tech (IV Sem.), School of Biotechnology, RGPV, Bhopal from February to August 10, 2008.
2. Cloning and expression of an ORF of Mycobacter tuberculosis" by Shaiwal Kumar Singh, M. Tech (IV Sem.), School of Biotechnology, RGPV, Bhopal from February 28 to June

27, 2008. "Molecular Characterization and Identification of Occult Hepatitis C Virus Infection" by Arpit Bhargav M. Tech (IV Sem.), School of Biotechnology, RGPV, Bhopal from March 1 to August 31, 2008.

3. "Production, Purification and Characterization of Endo-1, 4-beta Mennanase from *Myceliophthera thermophila*" by Sanjay Jaiswal, M. Tech (IV Sem.), School of Biotechnology, RGPV, Bhopal from February 15 to July 28, 2008.

4. "Physiological and Molecular Characterization of Auxin inducible glucose repressible gene encoding expressed protein from *Arabidopsis thaliana*" by Priyanka Agrawal, M. Tech (IV Sem.), School of Biotechnology, RGPV, Bhopal from February to July, 2008.

5. Studies of  $\alpha$ - amylase inhibitors from Wheat variety Sehore extra, against Rice pest *Scirpophaga incertulas* (Yellow stem borer)" by Anand Dilip Firodiya, M. Tech (IV Sem.), School of Biotechnology, RGPV, Bhopal from February to July, 2008.

6. "Characterization and evolutionary relationship of the human TNF  $\alpha$  and TNF genes" by Suchita Singh, M. Tech (IV Sem.), School of Biotechnology, RGPV, Bhopal from August 6 to November 30, 2007.

7. "Characterization of heavy metal tolerant bacteria" by Gajanan Vijay Bobde, M. Tech (IV Sem.), School of Biotechnology, RGPV, Bhopal from August 24 to December 27, 2006.

8. "Production of Micro algal biodiesel using lipase catalysed transesterification" by Pushpandera Kumar, School of Biotechnology, RGPV, Bhopal from September, 2007 to December, 2009.

9. "Cross-species amplification among members of Solanaceae using microsatellite primers" by Satish Prakash Singh, School of Biotechnology, RGPV, Bhopal from September, 2007 to December, 2009 .

10. "RAPD analysis of mango cultivars" by Pratipal Singh, School Of Biotechnology, RGPV, Bhopal from September, 2007 to December, 2009.

11. "Production of polyclonal antibodies against *Bacillus subtilis* cell lysate proteins" by Tushar Yadav, School of Biotechnology, RGPV, Bhopal from September, 2007 to December, 2009.
12. "Cross-species amplification among members of *Catla* species of fish using microsatellite primers" Ankur Singh, School of Biotechnology, RGPV, Bhopal from September, 2007 to December, 2009.
13. "*Pisum sativum* as a persuasive target for edible vaccine development against MSP-1 of *Plasmodium vivex*" Sudheer Kumar Choudhary, School of Biotechnology, Bhopal from September 2010 to July, 2013.
14. "The higher production and characterization of biodiesel from *Scenedesmus dimorphus* algal species". Gulab Chand Shah, School of Biotechnology, Bhopal from September 2010 to July, 2013.
15. "Isolation of microorganisms having high metabolic versatile activity for bioremediation of oil hazardous waste system." Manjary Vyas, School of Biotechnology, Bhopal from September 2010 to July, 2013.
16. "Study the expression of YKL-40 in blood cancer and its plausible role in cancer cell proliferation" Anil Kumar Hurmale, School of Biotechnology, Bhopal from September 2010 to July, 2013.
17. "In vitro inhibition of BCL11A gene expression in K562 cell line for the treatment of  $\beta$ -Thalassemia" Vikas Urkude, School of Biotechnology, Bhopal from September 2010 to July, 2013.
18. "Liposomes" Vinita Pawar, School of Biotechnology, Bhopal from September 2010 to July, 2013.
19. "*Hibiscus rosasinensis*" Shilpa Kadve, School of Biotechnology, Bhopal from September 2010 to July, 2013.

## **Research Experience**

1. Worked as Research associate in the project "Tomato genome sequencing" with Dr. N. K. Singh, Principal Scientist, National Research Centre on Plant Biotechnology (Indian agricultural research institute, Pusa) Delhi from July, 2005 to Aug, 2007 on Rs 12000/- Basic + HRA.

Aim and Significance: To develop Tomato as a model system for Solanaceae family.

Contribution: Submitted more than 10 BAC sequences in Gene Bank

2. Worked as Research associate in the project "Rice genome sequencing" with Dr. N. K. Singh Principal Scientist, National Research Centre on Plant Biotechnology (Indian agricultural research institute, Pusa) Delhi from February, 2001 to June, 2005 on Rs 12000/-Basic + HRA.

Aim and Significance: Rice genome project was a multinational initiative in which more than ten countries participated. Some of the countries which were involved are USA, Japan, U.K, Brazil, South Korea, Taiwan, France, Canada, India etc. Each country had chosen a different chromosome or a part of it for sequencing. India was given the region between 58.3 cM to 109 cM of the 11th chromosome. In India IIRGSP (Indian initiative on rice genome sequencing) was nucleated at NRCPB, IARI and DPMB, University of Delhi South campus under the leadership of Dr. Akhilesh Tyagi. The Department of Biotechnology had given a grant of approx. 50 cr. for setting up the facility and for doing genome sequencing and functional genomics.

Contribution: Running the automated DNA sequencers namely ABI 3700, ABI 377, Mega Base 1000 in 96 well format. PAC, BAC, YAC DNA isolation using various methods. Sonication and nebulization are scientific techniques. Shot Gun library preparation by shearing PAC, BAC DNA. High throughput DNA isolation and sequencing in 96 well plates. The genome work was completed and the work was published in the journal Nature in 2005.

3. Worked as Sr. Research Fellow (C.S.I.R.) at Institute of Microbial Technology (IMTECH, Chandigarh) from October, 1994 to October, 1997. Aim and Significance: Ph. D Thesis work Contribution: Awarded with Ph. D degree.

4. Worked as Jr. Research Fellow (C.S.I.R) at Institute of Microbial Technology (IMTECH, Chandigarh) from October, 1992 to September, 1994.

Aim and Significance: Ph. D Thesis Work

Contribution: M. Sc Thesis work: Worked on "Studies on the salted and dried Mackerels, a biotechnologically important marine resource" under Dr. U.M.X Sangodkar, Professor and Head, Dept. of Marine Biotechnology, Goa University, Goa, India from January-July, 1992.

Aim and Significance: The study involved identification of microbial agents involved in the spoilage of salted and dried mackerels (A commonly available Goan fish) We could succeed in isolating two salt tolerant bacteria (10-20% salt tolerant), Which had proteolytic as well as lypolytic properties. The bacteria were tentatively identified to be a *Bacillus* and a *Flavobacterium* by microbiological tests.

Contribution: Isolated two novel bacterial strains (*Bacillus* sp. and *Flavobacterium* sp.) possessing proteolytic as well as lypolytic activity.

## **Teaching Experience**

1. Working as a Lecturer (Regular/permanent) in School of Biotechnology, RGTU, Bhopal from August 29, 2007 on pay scale of Rs. 9925/- + allowances as admissible in the pay scale of Rs. 8000-275- 13500.
2. Worked as Sr. Demonstrator at Department of Experimental medicine and Biotechnology, Postgraduate Institute of Medical Education and Research (PGIMER) from January to December, 2000 on Rs.9000/- Basic pay+ Allowances.
3. Worked as Jr. Demonstrator at Department of Experimental medicine and Biotechnology, Postgraduate Institute of Medical Education and Research (PGIMER) from October to December, 1999 on Rs.6500/- Basic pay+ Allowances.

## **Special Recruitment**

1. Laboratory designer:



Redesigned and rearranged some laboratories of Genetic engineering, biochemistry, immunology, plant tissue culture, microbiology and microscopy at School of Biotechnology, Rajiv Gandhi Technological University, and Bhopal (M.P.).

2. External examiner:

Recruited as external examiner for practical examination in Dec, 2007 and June, 2008 (Microbial Technology) B.E (VII and VIII Sem.), Department of Biotechnology, Rai Foundation, and Bhopal (M.P.). and again in 2012-13 for Indira Gandhi National Tribal University, Amarkantak, M.P and Sardar Patel College, Mandaleshwar, affiliated to Devi Ahilya Vishwavidyalaya, Indore.

3. Question paper setter:

Recruited as question paper setter of Advanced Cell Biology, Recombinant DNA Technology, Plant Biotechnology, Bioprocess Engineering and many other subjects by Rajiv Gandhi Technological University, Bhopal (M.P.) for (B.E, B. Tech and M. Tech) Examinations from, September, 2007 to 2013.

4. Examination, answer sheet valuation:

Recruited for valuation of answer sheets of B. E, B. Tech, M. Tech and related examinations from September 2007 to 2013.

5. Invigilator:

Recruited as invigilator by Rajiv Gandhi Technological University, Bhopal (M.P.) for Examination (B.E, B. Tech and M. Tech) September, 2007 onwards.

6. Recruited as observer by Madhya Pradesh professional examination board, Bhopal for various entrance and recruitment exams.

7. Syllabus designer:

Participated in redesigning syllabus for M. Tech (Biotechnology), Rajiv Gandhi Technological University, Bhopal in 2009.

8. Presiding Officer

Appointed as presidential officer in General Lok Sabha and Bhopal Municipal Corporation elections held in April and December 2009 respectively.

9. Workshop Organizer:

Member of the organizing committee for national workshop on "Emerging Trends in Biotechnology" at School of Biotechnology, Rajiv Gandhi Technological University of Bhopal on November 15-16, 2007.

10. Member of the Organizing committee of the "National Symposium on Cell & Molecular Medicine" 3-6 Feb, 2010, RGTU, Bhopal-462033.

### **Papers Published /in Communication**

1. The sequence of the rice chromosome 11&12 rich in resistance genes and recent gene duplications. *BMC Biology* 2005, 3: 20.
2. The map based sequence of the rice genome. *Nature* 2005 Aug 11; 436 (7052), 793-800.
3. Sequence analysis of the long arm of rice chromosome 11 for rice-wheat synteny. *Functional and Integrated genomics*, 2004 May 4 (2): 102-117.
4. Function of the central domain of Streptokinase in substrate plasminogen docking and Processing revealed by site directed mutagenesis. *Protein Science*, 1999, 8: 2791-2805.
5. Single copy genes define a conserved order between rice and wheat for understanding differences caused by deletion, duplication and transposition of genes. *Func. Integr. Genomics* 2007 Jan; (1):17-35.
6. A snapshot of the emerging tomato genome sequence: The tomato genome sequencing consortium. *The Plant Genome* 2009 Vol. 2 No. 1.
7. Estimation and characterization of protein present in the seed extract of *Jatropha curcus*. *ARPB*, 2011 vol. 1 35-44.
8. Role of caspase in programmed cell death in multi-cellular organisms. *Int. J. Biomed. Res.* Vol. 2 No. 7 2011 422-431.

9. Assessment for the higher production of biodiesel from *Scenedesmus dimorphus* algal species using different methods. J. of Bio-fuels, Vol-2 Issue 2, July-Dec 2011 pp. 91-97.
10. ESTIMATION AND CHARACTERIZATION OF PROTEIN PRESENT IN SEED EXTRACT of *Jatropha curcus* ARPB, 2011; vol.1 (1) pp 35-44.
11. Molecular Dynamics: Basic study. Int. J of Bio-info. Res. Vol. 4, Issue 1, 2012, pp.245-248.
12. Genetic variation on Hibiscus species by using RAPD markers. ARPB, 2012 Vol. 2(1): 9-21.
13. Genetic analysis on Hibiscus species by using RAPD markers. IJBAR, (2012) 03(06) 473-485.
14. Analysis and characterization of algal oil by different chromatographic techniques for the higher production of biodiesel from *Scenedesmus dimorphous*. Int. J. of Environment and Bio-energy, 2012, 4(1): 22-35.
15. Assessment for the higher production of biodiesel from *Scenedesmus dimorphous* algal species. Erudite J. of Biot. (EJB) vol. 1(1) pp. 1-9 November 2012.
16. Edible Vaccine: A new platform for the development of Malaria Vaccine. Critical Reviews in Eukaryotic Gene Expression. 22(3): 243-248 (2012)
17. Evaluation of different algal species for the higher production of biodiesel. J. of Pet. Tech. and Alt. Fuels. Vol. 4(1) pp 1-6 January 2013.
18. Analysis and characterization of algal oil by different chromatographic techniques for the higher production of biodiesel from *Scenedesmus dimorphous*. Open Access Scientific Reports <http://dx.doi.org/10.4172/scientific-reports>. 404.
19. Analysis for the higher production of biodiesel from *Scenedesmus dimorphus* algal species. Open Access Scientific reports. <http://dx.doi.org/10.4172/scientific-reports>.320.
20. RNA Interference: A Recent approach for the remedy of various diseases. J. Immunol. Tech. Infect. Dis. 2013 2:1 <http://dx.doi.org/10.4172/2325-9752>. 1000105.
21. RNA Silencing: An Approach for the treatment of  $\beta$ -Thalassemia. Cell Science & Therapy 2012, 3:7. <http://dx.doi.org/10.4172/2157-7013>. 1000135.
22. ISOLATION OF MICROORGANISMS HAVING HIGH METABOLIC VERSATILE ACTIVITY FOR BIOREMEDIATION OF OIL HAZARDOUS WASTE SYSTEM. VSRD Int. J of Tech. and Non-tech. Res. Vol.4 No. 6 June 2013 pp. 117-22.

23. BIOREMEDIATION [STAND ALONE UNIT] AGAINST GLOBAL HAZARDOUS WASTE OIL PROBLEM. VSRD Int. J. of Tech. & Non-Tech. Res. Vol. 4 No. 6 June, 2013 pp.131-35.

24. Analyzing inhibition of BCL11A gene expression in K562 cells by RNAi. Journal of Bioscience and Biotechnology. 2 (2): 2013.

### **List of Patents Published**

1. Novel clot specific Streptokinase proteins possessing altered plasminogen activation characteristics and a process for the preparation of said proteins. European patent no. 1024192 dated 7-12-04.
2. A process for the preparation of clot specific streptokinase possessing useful plasminogen activation characteristics. Indian patent no. -190822.

### **Technology- Transferred/ Sold**

- ✓ A Novel Clot-Buster for Thrombolytic Therapy.
- ✓ Technology Tie-Up between CSIR, India & Nostrum, USA, for a net 5 million dollars.

### **List of Abstracts and Posters Presented**

1. Functional genomics of naturally occurring alleles of agronomic traits. Rice functional genomics workshop, May 20-21, 2002.
2. Functional genomics of complex genetic traits in rice using immortal segregating population. Rice functional genomics workshop, May 20-21, 2002
3. A map based rice gene database useful for mapping and cloning of candidate genes for important traits. International symposium on rice. Oct 4-6, 2004, DRR, Hyderabad.
4. Indian initiative for rice genome sequencing. International symposium on rice. Oct 4-6, 2004, DRR, Hyderabad.
5. Functional genomics of rice: Potential and prospects. International symposium on rice. Oct 4-6, 2004, DRR, Hyderabad

6. Abstract "Design and preparation of novel clot-specific clot busters by protein engineering" National seminar on modern biology 28-30 August, 2003 Nagarjuna University, Nagarjunanagar, A.P, India.
7. "Biotechnology: Past, present and future: The Indian Scenario" National workshop, RGPV, Bhopal, Nov, 2007.
8. The state of Human health and disease 14-16 February, Med-Bio 2008, Bhopal memorial hospital & research centre, Bhopal- 462038, M.P, India.
9. Polyclonal antibodies potential tools for generation of vaccines. National conference on Cellular and molecular medicine. RGPV, Feb 4-6, 2010, Bhopal, M.P.

### **Conference, Workshop and Seminar Attended**

1. "Bhartiya Vigyan Sammelan" Bhopal 2008.
2. Attended 4<sup>th</sup> Medbio, Industry Academia meet, BMHRC Bhopal, 2008 & 09.
3. Involved in West Zonal Student research convention "Anveshan 2009" organized by Rajiv Gandhi Technological University, Bhopal from 27-29<sup>th</sup> January, 2009.
4. Attended an "International Conference on Rice" sponsored by ICAR, Govt. of India and organized by National Research Centre on Plant Biotechnology (Indian agricultural research institute, Pusa) Delhi during 28-29 April, 2005.
5. Attended National Seminar on "Rice Biotechnology Network" sponsored ICAR, Govt. of India and organized by National Research Centre on Plant Biotechnology (Indian agricultural research institute, Pusa) Delhi during 25-26, March, 2004.
6. Attended seminar on "Nucleosomes" by Noble laureate Prof. Kornberg at ITM, Gwalior in December, 2007.
7. Certificate for National Symposium on Translational research in health sciences. Organized by Society of Young Scientist, AIIMS New Delhi on 24<sup>th</sup> November, 2009.
8. Awarded a Certificate for presentation on Polyclonal antibodies potential tools for generation of Vaccines in National Conference on Cellular and Molecular Medicine. Organized by SOBT, RGPV on February 4-6, 2010.
9. Certificate of Participation for National Conference on Genomics: Tool for Bioprospecting. Held at MANIT, Bhopal on November 20-21, 2010.

10. Was awarded the certificate in recognition of active participation in one day workshop on “ Recent Development and opportunities in Biotechnology education and research” organized by M.P Biotechnology Council and NRDC, New Delhi on February 5, 2011.
11. Certificate on Two day workshop on “ Advanced Computer architecture and embedded systems” on 15-16 May, 2013 organized by department of CS, UIT, RGPV.
12. Attended Science academies lecture workshop on Interdisciplinary Sciences and Modern Biology. Organized by MK Ponda college of Business & Management, Bhopal on 14-15 February 2014.
13. Certificate of Participation in National Seminar on Recent trends in Instrumentation techniques for Environmental Monitoring. Organized by Department of Chemistry, UIT, RGPV from March 12 to 14, 2014.
14. Participation Certificate on Staff Development Programme on Trends and Applications in Data Sciences organized by SOIT, RGPV from 18<sup>th</sup>- 22 February, 2014.
15. Participation Certificate in Refresher Course on Disaster Management, organized by Academic Staff College & Department of Civil Engineering, UIT, RGPV, Bhopal from 19<sup>th</sup> to 23<sup>rd</sup> May, 2015
16. Awarded a Certificate for participating in a short term training program me on 3D Animation conducted by NITTTR, Bhopal from 5<sup>TH</sup> to 16 th October, 2015

### **Computer proficiency**

MS Office, UNIX (Solaris), Windows (98-2008 most versions),

### **Membership**

Life member of Vijay Pal Memorial Library, Keshav Puram, Delhi

### **Extra-curricular activities**

- ✓ Trip Leader: Given responsibility of educational trip to Dehradun and Missouri by Department of Zoology, Hans Raj College, and Delhi in December, 1989.

- ✓ Scientific Quiz: Stood second in the scientific quiz organized by Department of Zoology, Hans Raj College of Delhi University in December, 1989.
- ✓ Selected as Mr. Biotech for overall performance in academics as well as in extracurricular activity in the Department of Biotechnology, Goa University in 1992.

## **Visiting Places**

IISc Bangalore, IARI, New Delhi, National Institute of Oceanography (Goa), NIPER (Chandigarh), CRI (Kasauli) CSIO (Chandigarh), IGIB (Delhi), NPL (Delhi), NISCAIR, NISTADS, (Delhi), ICGEB (Delhi) NIPGR (Delhi), JNU (New Delhi), NICED (Delhi), NIMR (Delhi), Bhopal, Ujjain, Panna, Khargone, Tikamgarh, Shivpuri, Mandla, and Dhar in Madhya Pradesh.

## **Referees**

(1) N. K. Singh

Principal Investigator

National Research Centre on Plant Biotechnology

Indian Agriculture Research Institute, Delhi

Delhi-110012, India

E-mail: [nksingh@nrcpb.org](mailto:nksingh@nrcpb.org)

(2) Dr. Girish Sahni

Director

Institute of Microbial Technology

Sector 39 A, Chandigarh-160036 India

E-mail: [sahni@imtech.ernet.in](mailto:sahni@imtech.ernet.in)

## **Declaration**

I hereby solemnly affirm that all the information furnished in this bio-data is true and correct to the best of my knowledge and belief.

Date: 4-06-2015

Place: Bhopal

(DR. MAHAVIR YADAV)