**MOHAMMAD ABUL FARAH, PH.D.**

**Address:** Department of Zoology,College of Science, King Saud University, PO Box-2455, Riyadh-11451, Saudi Arabia

**Contact No.:** **Mob**: +966-598159436/ **Office:** +966-14675762 ♓ **E-Mail**: [mfarah@ksu.edu.sa](mailto:mfarah@ksu.edu.sa), farahabul@hotmail.com

**SYNOPSIS**

**An astute professional with** experience with nearly fifteen years of experience in area of Research & Development & Quality Control. Experience in process optimization & biochemical lab practices. Proficient in analysing and interpreting research results and technical data. Adroit at identifying potential in the design phase of the project, troubleshoot and solve problems associated with the process. Proven track record of participating in various research projects with real-time experience in planning, execution, application of methodologies, documentation and presentation of findings. Detail oriented with an analytical bent of mind and a positive attitude. Strong interpersonal skills and the ability to deal effectively with a variety of personnel including medical, scientific, and technical staff. Some of the noteworthy milestones across the tenure are enumerated as:

* ***Bharat Excellence Award’ for outstanding and extra-ordinary achievements in the chosen field of activity presented by Friendship Forum of India (FFI), New Delhi, India on 25th July, 2003.***
* ***Best Poster Award in XXVIth Annual Conference of Environmental Mutagen Society of India and International Symposium on Environmental Health Sciences in the 21st Century, at School of Life Sciences, Jawaharlal Nehru University, New Delhi, 5-7 March 2001.***
* ***Senior Research Fellowship, Indian Council of Agricultural Research (ICAR), New Delhi, India.***
* ***Senior Research Fellowship, Council of Scientific and Industrial Research (CSIR), New Delhi, India.***

**PROFESSIONAL RUN THROUGH**

Since May’10 Department of Zoology, College of Science, **Assistant professor**

King Saud University, Riyadh, Saudi Arabia

Sep’07 to Mar’09 Research Centre for Proteineous Materials (RCPM), **Research Professor**

Chosun University, Gwangju, South Korea

Mar’04 to Jun’07 Biotechnology company, Proteonik Inc, **Research Scientist**

Seoul, South Korea

Aug’02 to Jan’04 Council of Scientific & Industrial Research, **Senior Research Fellow**

(CSIR) New Delhi, India

Jan’98 to Jun’01 Indian Council of Agricultural Research (ICAR), **Senior Research Fellow**

New Delhi, India

**Papers Published**

* Mohammad Usman, Sartaj Tabassum, Farukh Arjmand, Rais Ahmad Khan, Mohd. Sajid Ali, Hamad A. AlLohedan, Ali Alsalme, **Mohammad Abul Farah**, Khalid Mashay Al-Anazi, Musheer Ahmad (2018). CuII-NaI Heteronuclear complex as Anticancer Entity against Human Breast Cancer Cell lines: DNA binding, Cleavage, and Computational studies. Inorganica Chimica Acta. (Accepted Article, In Press).
* Shah Alam Siddiqui, Atiqur Rahman, M. Oliur Rahman, Mohammad Ahsanul Akbar, A.S. Shamsur Rauf, Mohammad Ajmal Ali, Fahad M.A. Al-Hemaid, **Mohammad Abul Farah** (2018). Evaluation of anti-nociceptive, anti-inflammatory and antipyretic potential of Mikania cordata (Burm. f.) Robinson in experimental animal model. Saudi Journal of Biological Sciences, (Accepted Article, In Press).
* Shah Alam Siddiqui, Atiqur Rahman, M. Oliur Rahman, Mohammad Ahsanul Akbar, Mohammad Ajmal Ali, Fahad M.A. Al-Hemaid, M.S. Elshikh, **M. Abul Farah** (2018). A novel triterpenoid 16-hydroxy betulinic acid isolated from Mikania cordata attributes multi-faced pharmacological activities. Saudi Journal of Biological Sciences, (Accepted Article, In Press).
* Shen-Ming Chen, Rajaji Umamaheswari, Govindasamy Mani, Tse-Wei Chen,M. Ajmal Ali, Al-Hemaid Fahad M. A. M. S. Elshikhb and **M. Abul Farah.** (2018). Hierarchically structured CuFe2O4 ND@RGO composite for the detection of oxidative stress biomarker in biological fluids. Inorganic Chemistry Frontiers. 5: 944-950.
* Ahmed H. Mahmoud, Faisal M. Abou-Tarboush, Ahmed Rady, Khalid M. Al-Anazi, **Mohammad Abul Farah** and Osama B. Mohammed (2018). Genetic variability of sheep populations of Saudi Arabia using microsatellite markers. Indian Journal of Animal Research, (Accepted Article, In Press).
* Mohd. Sajid Ali, **Mohammad Abul Farah**, Hamad A. Al-Lohedan, Khalid Mashay Al-Anazi. (2018). Comprehensive exploration of the anticancer activities of procaine and its binding with calf thymus DNA: a multi spectroscopic and molecular modelling study. RSC Advances. 8: 9083-9093.
* Mohd. Sajid Ali, **Mohammad Abul Farah**, Hamad A. Al-Lohedan, Khalid Mashay Al-Anazi. (2018). Antiproliferative activities of procainamide and its binding with calf thymus DNA through multi-spectroscopic and computational approaches. Journal of Molecular Liquids. 258: 74-84.
* K. Thenmozhi, N. Anusuya, M. Ajmal Ali, S. Jamuna, , K. Karthika, A. Venkatachalapathi, F.M. Al-Hemaid, **M.A. Farah**, S. Paulsamy. (2018). Pharmacological credence of the folklore use of Bauhinia malabarica in the management of jaundice. Saudi Journal of Biological Sciences, 25(1): 22-26.
* Mohammad Ibrahim Alallah, Fahad Alhemaid, Fang Bai, Ramzi Ahmed Mothana, Mohamed Soliman Elshikh, **Mohammad Abul Farah**, Mohammad Ajmal Ali, Joongku Lee, Khalid Mashay Al-Anazi (2018). The binding proximity of methyl b-lilacinobioside isolated from Caralluma retrospiciens with topoisomerase II attributes apoptosis in breast cancer cell line. Saudi Journal of Biological Sciences, (Accepted Article, In Press).
* James Milton, Ajaz A. Bhat, M.A. Haniffa, Shaik Althaf Hussain, Irfan A. Rather, Khalid Mashay Al-Anazi, Waleed A.Q. Hailan, **Mohammad Abul Farah** (2018). Ovarian development and histological observations of threatened dwarf snakehead fish, *Channa gachua* (Hamilton, 1822). Saudi Journal of Biological Sciences, 25(1):149-153.
* Ahmed A. Al-kawmani, Mansour M. Alfuraiji, Saleh kandeal, **Mohammad Abul Farah**, Khalid Mashai Alanazi (2018). Pubertal changes in testicular parameters and secretion of testosterone in Najdi and Naemi ram lambs under desert conditions. Indian Journal of Animal Research, 52(2): 212-219.
* Ahmed Hossam Mahmoud, Ayman swelum, **Mohammad Abul Farah**, Khalid. Alanazi, Ahmed Rady, Mahmoud Salah, Nabil Amor and Osama Mohammed (2017). Genetic diversity among Sawakni, Berberi and Najdi sheep breeds in Saudi Arabia using microsatellites markers. African Journal of Biotechnology, 16(4): 171-178.
* Gurung AB, Ali MA, Bhattacharjee A, Al-Anazi KM, **Farah MA**, Al-Hemaid FM, Abou-Tarboush FM, Lee J, Kim SY, Al-Anazi FS. (2016) Target fishing of glycopentalone using integrated inverse docking and reverse pharmacophore mapping approach. Genet Mol Res. 2016 Aug 12;15(3). doi: 10.4238/gmr.15038544.
* **Abul Farah, M**., M.A. Ali, S.M. Chen, Y. Li, F.M. Al-Hemaid, F.M. Abou-Tarboush, K.M. Al-Anazi, Joongku Lee (2016) Silver nanoparticles synthesized from [Adenium obesum leaf extract](http://www.theplantlist.org/tpl1.1/record/kew-3030) induced DNA damage, apoptosis and autophagy via generation of reactive oxygen species. Colloids and Surfaces B: Biointerfaces. 141: 158-169.
* Mahmoud A. H., **Farah M. A**, Abou-Tarboush F. M., Rady A. M., Alanazi. K. M. and Mohammed O.B. (2016) Molecular Characterization of Ghrelin gene in sheep of Saudi Arabia. Research Journal of biotechnology, 11(2): 39-44.
* A.B. Gurung, M.A. Ali,, A. Bhattacharjee, **M. Abul Farah**, F. Al-Hemaid, F.M. Abou-Tarboush, K.M. Al-Anazi, F.S.M. Al-Anazi and J. Lee (2016) Molecular docking of the anticancer bioactive compound proceraside with macromolecules involved in the cell cycle and DNA replication. Genetics and Molecular Research, 15(2): gmr7829.
* Khalid Alanazi, Ahmed Alhimaidia, Bassam Alahmadi, Faisal Abou-Tarboush, **Mohammad Abul Farah**, Ahmed Mahmoud and Mohamed Alfaiﬁ (2016). Development of Spermatic Granuloma in Albino Rats Following Administration of Water Extract of *Heliotropium bacciferum* Forssk. Saudi Journal of Biological Sciences, 23(1):87-91.
* Ali, M.A., **M.A. Farah**, F.M. Al-Hemaid, F.M. Abou-Tarboush, K.M. Al-Anazi, S.M. Wabaidur, Z.A. Alothman and J. Lee (2015) Assessment of biological activity and UPLC-MS based chromatographic profiling of ethanolic extract of *Ochradenus arabicus*. Saudi Journal of Biological Sciences 23, 229–236.
* Al-Kawmani, A.A., Alfuraiji, M.M., Abou-Tarboush, F.M., Alodan, **M.A**., **Farah**. (2014) Developmental changes in testicular interstitium in the Najdi Ram Lambs. Saudi J Biol Sci. 21(2):133-137.
* Ali, M.A., **M.A. Farah,** F.M.A. Al-Hemaid and F.M. Abou-Tarboush (2014) *In vitro* cytotoxicity screening of some wild plants extracts from Saudi Arabia on human breast adenocarcinoma cells. Genet. Mol. Res. 13 (2): 3981-3990.
* Salem SD, Abou-Tarboush FM, Saeed NM, Al-Qadasi WD**, Farah MA**, Al-Buhairi M, Al-Harbi N, Alhazza I, Alsbeih G. (2012) [Involvement of p53 in gemcitabine mediated cytotoxicity and radiosensitivity in breast cancer cell lines.](http://www.ncbi.nlm.nih.gov/pubmed/22353361) **Gene**. 2012 May 1;498(2):300-7. Epub 2012 Feb 14.
* K. M. Al-Anazi, [F.M. Abou-Tarboush](http://ascidatabase.com/author.php?author=F.M.&last=Abou-Tarboush)**,** [M.F. Abdel-Samad](http://ascidatabase.com/author.php?author=M.F.&last=Abdel-Samad), [**M.A. Farah**](http://ascidatabase.com/author.php?author=M.A.&last=Farah), [M.Y. Al-Faifi](http://ascidatabase.com/author.php?author=M.Y.&last=Al-Faifi) and [B.A. Al-Ahmadi](http://ascidatabase.com/author.php?author=B.A.&last=Al-Ahmadi) (2010). Embryo-feto-toxicity of Anticancer Drug, Heptaplatin in Laboratory Mice**. Pakistan J. Biol. Sci.** (18):896-900.
* Shambhunath Bose, **M. Abul Farah**, Ho-Chul Jung Jeong-Heon Lee, and Yangsun Kim (2007). Molecular mechanism of BMOV-induced insulin signaling in 3T3-L1 and IM9 cells: Impact of dexamethasone. **Journal of Molecular Endocrinology,** 38: 627-649.
* **M. Abul Farah**, Bushra Ateeq, and Waseem Ahmad (2006). Antimutagenic effect of neem leaves extract in freshwater fish, *Channa punctatus* evaluated by cytogenetic tests. **Science of the Total Environment**, 364 (1-3): 200-214.
* Bushra Ateeq, **M. Abul Farah**, and Waseem Ahmad (2006). Evidence of apoptotic effects of 2,4-D and butachlor on walking catfish, *Clarias batrachus*, by transmission electron microscopy and DNA degradation studies. **Life Sciences**, 78 (9): 977-986.
* **M. Abul Farah**, Shambhunath Bose, Jeong-Heon Lee, Ho-Chul Jung and Yangsun Kim (2005). Analysis of glycated insulin by MALDI-TOF mass spectrometry. **Biochimica et Biophysica Acta**, 1725(3):269-282.
* Bushra Ateeq, **M. Abul Farah**, and Waseem Ahmad (2005). Detection of DNA damage by alkaline single cell gel electrophoresis in 2,4-dichlorophenoxyacetic-acid- and butachlor-exposed erythrocytes of *Clarias batrachus*. **Ecotoxicology and Environmental Safety**, 62(3): 348-354.
* **M. Abul Farah**, Bushra Ateeq, M. Niamat Ali, Rubeena Sabir and Waseem Ahmad (2004) Studies on lethal concentrations and toxicity stress of some xenobiotics on aquatic organisms. **Chemosphere**, 55(2): 257-265.
* **M. Abul Farah**, Bushra Ateeq, M. Niamat Ali and Waseem Ahmad (2003). Evaluation of genotoxicity of PCP and 2,4-D by micronucleus test in freshwater fish *Channa punctatus*. **Ecotoxicology and Environmental Safety**, 54(1): 25-29.
* Bushra Ateeq, **M. Abul Farah**, M. Niamat Ali and Waseem Ahmad (2002). Induction of micronuclei and erythrocyte alterations in the catfish *Clarias batrachus* by 2,4-dichlorophenoxyacetic acid and butachlor. **Mutation Research,** 518(2): 135-144
* Waseem Ahmad, M. Niamat Ali**, M. Abul Farah** and Bushra Ateeq (2002). Computerized automated morphometric assay including frequency estimation of pentachlorophenol induced nuclear anomalies (micronuclei) in catfish *Heteropneustes fossilis*. **Chromosoma**, 110: 570-574.
* Bushra Ateeq, **M. Abul Farah**, M. Niamat Ali and Waseem Ahamad (2002). Clastogenicity of pentachlorophenol, 2,4-D and butachlor evaluated by *Allium* root tip test. **Mutation Research**, 514: 105-113.
* Bushra Ateeq, **M. Abul Farah**, M. Niamat Ali and Waseem Ahmad (1999) Histopathological effects of Pentachlorophenol on a Teleostean fish *Heteropneustes fossilis* (Bloch): Light and Transmission Electron Microscopic (TEM) studies of ovaries. **Toxicology and Environmental Health**. New Delhi. pp. 277-284.
* **Abstract Published**
* M. Abul Farah, Shambhunath Bose, and Yangsun Kim (2004). Analysis of molecular interaction of glycated insulin with insulin receptor by MALDI-TOF mass spectrometry and Surface Plasmon Resonance (SPR). **Molecular and Cellular Proteomics**, Volume 3, number 10, Supplement, pp. S126.
* Bushra Ateeq, M. Abul Farah, M. Niamat Ali and Waseem Ahmad (2002). Genotoxic effects of PCP and 2,4-D by micronucleus test in freshwater fish *Channa punctatus*. **Proceedings of 89th Session of Indian Science Congress**, Advanced Abstract of the section of Zoology, Entomology and Fisheries, pp.108.

**Student’s supervision**

* **Masters Student Supervision (Co-advisor)**
* Title of the Thesis**: Evaluation of Genotoxicity and Cytotoxicity of *Adenium obesum* Extract on Cultured Breast Cancer Cell Line, MCF-7. (Completed Masters, 2015)**

**Student name: Ahmed Qasem Saleh Ali, ID #** 431106504

Title of the Thesis**: Detection of Apoptosis and Autophagy Induced by *Calotropis procera* Extract in Human Breast Cancer Cell Line. (Completed Masters, 2016)**

* **Student name: Mohammed Ali Mohammed Almaraiya, ID #** 431106793
* **Ph.D. Student Supervision (Co-advisor)**
* Title of Research: **Protective Effect of *Capparis spinosa* Extractfrom Oxidative Stress, Genotoxicity and Cytotoxicity Induced by Potassium Bromate in Laboratory Mice.**
* **Student Name: Ali Bin Abdullah Al-Mareed ID#** 432108382 (2015 - onwards)
* Title of Research: **Biosynthesis of Silver Nanoparticles By *Schinus molle* Extract and Evaluation of Their Anicancer Activity on Human Liver Cancer Cells.**
* **Student Name: Waleed A. Q. Hilan ID#** 43410593 (2017 - onwards)

**Title of Research: Potential of Inducing DNA Damage and Apoptosis in Mice and MCF-7 Cell Line by Biosynthesized Silver Nanoparticles.**

* **Dtudent Name: Ahmed Ali Mohammed Kawmani ID#** 434107502 (2017 - onwards)

**Papers Presented At Conferences/ Meetings**

* Inhibitory effects of analogue peptide P5 on the biofilm of drug resistant *Pseudomonas aeruginosa*. M. Abul Farah, Kyung-Soo Hahm, Yoonkyung Park. 12th Korean Peptide Society Conference, Kookmin University, Seoul, 21 November, 2008.
* Preparation of Antibody Affinity Layer on Glyco-affinity MALDI plate. M. Abul Farah, Jeong Heon Lee, Ha Young Choi, Shambhunath Bose, H. B. Lim, Yangsun Kim. 55th American Society for Mass Spectrometry (ASMS) Conference held at Indianapolis, Indiana, USA from June 3-7, 2007.
* Use of Ethylenediaminetetraacetic Acid (EDTA) - Magnetic Bead Complex in Protein Isolation and Detection by MALDI-TOF Mass Spectrometry. M. Abul Farah, Jeong Heon Lee and Yangsun Kim; 54th American Society for Mass Spectrometry (ASMS) Conference May 28 - June 1, 2006, Seattle, Washington, USA.
* Analysis of binding of immobilized insulin to its receptors: future implications; M. Abul Farah, Shambhunath Bose, Jeong-Heon Lee, and Yangsun Kim; Korean Human Proteome Organization (KHUPO), 6th Annual International Proteomics Conference, March 30-31, 2006, Konkuk University, Seoul, Korea.
* Response of Insulin receptor to vanadate; M. Abul Farah, Ho-Chul Jung, Shambhunath Bose, Yangsun Kim 13th Korea-Japan Symposium on Diabetes, October 11-12, 2005, Seoul, Korea.
* Mode of interaction of insulin sensitizing agent with insulin receptor; M. Abul Farah, Ho-Chul Jung, Shambhunath Bose, Ritu Parna Ghosh, Yangsun Kim; 62st Korean Society for Biochemistry and Molecular Biology (KSBMB), May 19-21, 2005 COEX, Korea.
* Analysis of molecular interaction of glycated insulin with insulin receptor by MALDI-TOF mass spectrometry and Surface Plasmon Resonance (SPR); M. Abul Farah, Shambhunath Bose, and Yangsun Kim; Human Proteome Organization (HUPO) 3rd Annual World Congress, October 25-27, 2004, Beijing, China.
* Analysis of glycated insulin by MALDI –TOF mass spectrometry; M. Abul Farah, Shambhunath Bose and Yangsun Kim; 69th Korea Society of Mass Spectrometry (KSMS), August 19, 2004, Pheonix Park, Korea.
* Identification of low molecular weight serum proteins by Nano LC ESI-ion trap mass spectrometry; M. Abul Farah, Gab Soon Noh and Yangsun Kim; 32nd Korean Society of Analytical Sciences, May 27, 2004, Jeju Island, Korea.
* 89th Session of Indian Science Congress 2002, January 3-7, 2002, University of Lucknow, Lucknow, India;
* XXVIth Annual Conference of Environmental Mutagen Society of India (EMSI) and International Symposium on Environmental Health Sciences in the 21st Century, March 5-7, 2001, School of Life Sciences, Jawaharlal Nehru University, New Delhi, India.
* National Symposium on Toxicology and Environmental Health, November 20-21, 1998, Department of Medical Elementology and Toxicology, Jamia Hamdard University, New Delhi, India.

**DOMAIN EXPERTISE**

* Planning & conducting the work programme for own research contribution, using methodologies and techniques appropriate to the type of research.
* Ability to develop novel strategies for studying complex physiological/biological processes.
* Development and validation of methods for microarray analysis, Q-PCR and projects involving molecular biology tools.
* Ability to work independently with directions and within project teams, to attain group goals.
* Demonstrate strong organizational skills, including the ability to prioritise workload.
* Reading published papers for the purpose of understanding the research area and perceiving where new contributions should be made.
* Writing scientific reports and papers for peer-reviewed journals based on observations and experiments.
* Ensures quality control review of all projects in group.
* Participating in planning and strategy meetings along with research heads and research teams. May propose and implement new procedures relating to the projects when appropriate.
* Proficient in presentation of scientific data in conferences and meetings.
* Training, reviewing and check of project related documentation that involves forms, training records and reports.
* Involved into Internal Quality Control and Quality Assurance activities.
* Maintaining and peer-review of documentation such as laboratory notebooks, electronic data collection/storage software, instrument logbooks, training records, etc.
* Provides training and assistance to new scientific and technical personnel working on projects about method SOP, protocol and project related technical information.

**Technical Expertise**

* Biofilm formation, Quorum sensing in biofilm
* Mechanism of action of antimicrobial peptides against Biofilms
* Routine microbiological techniques
* Protein purification and characterization
* Mass Spectrometry (MALDI-TOF & Nano LC ESI ion trap)
* Functional magnetic beads/ micro beads technology
* Surface Plasmon Resonance
* ELISA
* Fluorescence based imaging (Confocal laser and Fluorescence Microscope)
* UV visible spectrophotometry
* Flow cytometry
* Western blotting & Immunoprecipitation
* Histopathology & Immunocytochemistry
* Genotoxicity assays (Chromosome preparation, Micronucleus test, Erythrocyte alterations)
* Cell and Tissue culture & DNA, RNA isolation
* Gel electrophoresis (Agarose and SDS-PAGE)
* Single cell gel electrophoresis (Comet Assay)
* Electron microscopy (Transmission and Scanning)
* DNA fragmentation and apoptosis assay
* Gene cloning and amplification

**Teaching Experience**

* Involved in teaching theory and practical in Graduate and undergraduate and pre-medical courses in King Saud University.
* Teaching various subjects including molecular biology, Fundamentals of genetics, advanced genetics, advanced cytogenetics

**ACADEMIC CREDENTIALS**

2003 Ph.D. in Zoology (Genotoxicity) Aligarh Muslim University, Aligarh, India

1997 Master of Science in Zoology with specialization in Genetics Aligarh Muslim University, Aligarh, India

1994 Bachelor of Science in Zoology (Honours) Ranchi University, Ranchi, India

**OTHER CREDENTIALS**

* Attended various personality enhancement schedules on:
  + Attended the Saudi International Biotechnology Conference, 2012 at King Abdulaziz City for Science and Technology (KACST) from 18-19 September, 2012.
  + Attended In-House Operator Training on BD FACSCaliburTM Flow Cytometer from 29-30 October 2011 at Department of Zoology, College of Science, King Saud University.
  + Attended 2nd Scientific meeting on’ Natural Products and Drug Discovery. Department of Zoology, College of Science, King Saud University from 01-02 May, 2010
  + Attended Workshop entitled’ Distribution of toxic samsum ant in the Kingdom of Saudi Arabia and use of its toxin as natural products in the treatment of breast cancer. Department of Zoology, College of Science, King Saud University from 24-26 May, 2010.
  + Certificate of proficiency in German language from Aligarh Muslim University, Aligarh, India
  + Diploma in Statistics from Aligarh Muslim University, Aligarh, India.
  + Workshop on Comet Assay: Applications in Toxicology and Molecular Epidemiology, Industrial Toxicology Research Centre (ITRC), Lucknow, India from February 7-11, 2003
  + The immune system in health and disease, Resource Person Dr. Tariq M. Haqqi (USA) in Aligarh Summer University, Institute of Agriculture, Aligarh Muslim University, Aligarh, India from October 2001 .
  + Computer Fundamentals and MS Office, The Community Polytechnic, Aligarh Muslim University, Aligarh. The course was conducted under the scheme sanctioned by the Government of India, Ministry of Human Resources and Development (Dept. of Education) New Delhi, India from April 10 – August 9, 2001.
  + XVth National Training Programme in Electron Microscopy for Scientific Investigators (Basic and Advance course), Department of Anatomy (Electron Microscope Facility) All India Institute of Medical Sciences, New Delhi, India from February 2-29, 2000.
  + Bioinformatics Through Internet and Multimedia, Distributed Information Sub-Center Biotechnology Centre, Aligarh Muslim University, Aligarh, India from February 16-18, 1999.

**IT SKILLS**

* High proficiency with computers and internet, using bioinformatics tools and advanced softwares for searching scientific literature, data analysis and creating scientific presentations.
* Software known: Ms Office, Adobe (Pagemaker, Photoshop, Acrobat), Sigma plot, SPSS for statistics.
* Operating systems: Windows 98 and XP, Ms Dos, UNIX,

**MEMBERSHIP**

* Life Member of Indian Science Congress Association, India.
* Life Member of Environmental Mutagen Society of India (EMSI).
* Member of Korean Peptide Society
* Member of Korean Society for Biochemistry and Molecular Biology (KSBMB)

**PERSONAL DOSSIER**

Nationality : Indian

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Ranchi-834002, Jharkhand, India

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