RESUME

1 Name : Dr. (Mrs.) Amita Mahajan



2 Father s Name : Sh Raj Pal Mahajan

3 Husband s Name : Dr. Anil Kumar

4 Date of Birth : 06th January 1961

5 Permanent Address : H. No. 1626,

Sector 44-B.

Chandigarh 160047

6 Contacts : 0172 2601000

+919463495045

Email. Id mahajanamita44@gmail.com

7 **Academic Qualifications**

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| --- | --- | --- | --- |
| **Class** | **Year of Passing** | **University/Board** | **Marks** |
| Matric | 1976 | Punjab School Education Board Mohali | 71.5% |
| B. Sc | 1980 | Punjabi University Patiala | 76% |
| M.Sc.(Botany) | 1982 | Panjab University Chandigarh | 64.5% |
| M.Phil(Botany) | 1984 | Panjab University Chandigarh | 60.5% |
| Ph. D. (Botany) Specialization : Plant Biochemistry | 1991 | Panjab University Chandigarh |  |
| JPT ( Jt. Pre. Test) | 1991 | Panjab University Chandigarh | Qualified |
| UGC NET (Lecturer-ship) | 1991 | UGC New Delhi | Qualified |

**Presently Working as Head of Agriculture Department Rayat Bahra University.**

8 **Research Experience** : 14 years (Including Ph.D), 8 Years After Ph. D (Details Attached)

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| --- | --- | --- | --- | --- |
| 1. | Deptt. Of Botany P.U. Chandigarh. | 24thMarch,1993 | Research Associate. CSIR | 31st March, 1998 |
| **2** | Deptt. Of Botany P.U. Chandigarh. | 18th May,1998 | Pool Officer CSIR | 17th May,2001 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No. | School/University | Position | From | Till |
| 1. | Rayat Bahra University. University School of Sciences. Prof. Botany | Professor | 26th Aug.2016 | Till date |
| 1. | Rayat Bahra University. University School of Sciences. Prof. Botany | Associate Professor | 14th Aug.2014 | 25th Aug.2016 |
| 2. | Rayat & Bahra institute of Engineering Biotechnology | Associate Professor | 1st Sep.2012 | 13th Aug.2014 |
| 2. | Rayat & Bahra institute of Engineering Biotechnology | Assistant Professor | 27th July,2006 | 31st Aug.2012 |
| **3.** | Govt College for Girls,Sector 42, Chandigarh. | Lecturer | 27th August.2005 | 31st October.2005 |
| **4.** | Govt College for Girls,Sector 11, Chandigarh. | Lecturer | 27 July.2004 | 28 Feburary,2005 |
| **5.** | DAV College, Sector, 10, Chandigarh. | Lecturer | 6th November,2002 | 13th August.2004 |
| **6.** | Govt College for Girls,Sector 11, Chandigarh. | Lecturer | 28th July 2001 | 28th Feburary,2002 |
| **7.** | Govt College for Girls,Sector 42, Chandigarh. | Lecturer | 7th January.1992 | 31st March.1992 |
| **8.** | Govt College for Girls,Sector 42, Chandigarh. | Lecturer | 19thNovember, 1990 | 4th April,1991 |

9 **Teaching & Research Experience** : 25 years (Details attached)

10 **Publications** : More than 30 papers have been published

13 papers published in leading foreign

Journals (List Attached)

**List of Publications**

**International Journals**

1. **Amita Mahajan** and Saroj Dua 1 Physicochemical properties of Rapeseed (*Brassica campestris var. toria)* seed proteins: Viscosity and Ionizable groups. Journal Agricultural Food Chemistry 42(7) , 1411-1414(1994)
2. Saroj Dua, Anupama Mahajan and **Amita Mahajan**, Improvement of Functional properties of Raprseed(*Brassica campestris var. toria)* preparation by Chemical Modifications. Journal Agricultural Food Chemistry 44 , 706- 710(1996)
3. **Amita Mahajan**, Seema Bhardwaj and Saroj Dua 1999. Traditional processing treatment as a promising approach to enhance the functional properties of Rapeseed (*Brassica campestris var. toria)* and sesame seed (*Sesamum indicum*) meals. Journal Agricultural Food Chemistry. 47(8) 3093-3099(1999)
4. **Amita Mahajan**, Seema Bhardwaj and Saroj Dua Simple physical treatment as an effective tool to improve the functional properties of Rapeseed (*Brassica campestris var. toria)* and sesame seed(*Sesamum indicum*) meals. International Journal of Food Science and Nutrition. 53,455-463.(2002)
5. **A Mahajan** and S. Dua 2002.Salts and pH induced changes in functional properties or Amaranth*(Amaranthus tricolor* L.) seed meal.Cereal Chemistry79(6) , 834-837(2002)
6. **Amita Mahajan**, Neetu and A.S.Ahluwalia Effect of processing on functional properties of Spirulina protein preparations. African J. Microbial Research.3(8), 55-60(2009)
7. **Amita Mahajan,** A.S. Ahluwalia and Pururava Mahajan , [Properties of Biodiesel produced from Various Oilseeds . International Journal of Research in Environmental Science and technology 2011; 1 (4) 26-29](http://www.urpjournals.com/tocjnls/34_3s1.pdf) 2011
8. Chetna Sharma, **Amita Mahajan**, Umesh K. Garg .Assessment of arsenic in drinking water samples in south-western districts of Punjab—India. Desalination and Water Treatment. 2013: [Volume 51](http://www.tandfonline.com/loi/tdwt20?open=51#vol_51), [Issue 28-30](http://www.tandfonline.com/toc/tdwt20/51/28-30).5701-5709

## **Sunita Kapila, Kanchna Devi, Anju Rao and **Amita Mahajan**.** Seasonal variations in carbohydrate, protein, free amino acids and enzyme activities in three species of Marchantiaceae. Lindbergia.2014;37, 85-89.

1. Chetna Sharma, **Amita Mahajan** and Umesh K. Garg\* Fluoride and Nitrate in Groundwater of South-Western Punjab, India – Occurrence, Distribution and Statistical Analysis. Desalination and Water Treatment. 2014.1-12.
2. Chetna Sharma, **Amita Mahajan** and Umesh K. Garg\* Studies on adsorption behavior of Fluoride on native sand material. International Journal of Theoretical &Applied Sciences.2017:9(2).-63-70.

12 Chetna Sharma, Jeevan J. Mohindru,**Amita Mahajan** and Umesh K. Garg. Evaluation of

Co-adsorption Parameters for Arsenic, Fluoride, and Nitrates using Copper Nanoparticles.

International Journal on Emerging Technologies.2019: 10(2), 186-199.

13. Sukhpal Singh, **Amita Mahajan** and Jaspreet Kaur. Study of relationship between the

protein oxidation markers and adiopokines in obese Type-2 diabetes patients. Asian J. of

Pharm. Clin Res.12,(6) 2019. 204-209.

**NATIONAL JOURNALS**

**1.Amita Mahajan** and S. Dua, Effect of hormones on germination of Linseed (*Linum usitatissimum* L*.)* Journal Plant Science Reserch 3, 121-128(1987).

2.Saroj Dua and **Amita Mahajan**, 1989. Solubility characteristics of Toria (*Brassica campestris var. toria)*Indian Journal of Applied and Pure Biology 4 (2), 143-145.

3.Saroj Dua and **Amita Mahajan,** 1991.Pattern of Macromolecules Distribution in Germinating Linseed (*Linum usitatissimum* L*.)*in thepresence of hormones. New Trends in Plant Physiology, 75-81.

**4.A Mahajan** and S.Dua, 1993. Some characteristics of Indian Rapeseed acid Phosphatase.Plant Physiology and Biochemistry 20(2), 86-89.

**5.A Mahajan** and S. Dua, 1993. Purification and characterization of Rapeseed (*Brassica campestris var. toria)* meal Proteins. **Journal Plant Science Reserch. 9,12-14.**

**6.Amita Mahajan** and Saroj Dua **1995. Functional Properties** of Rapeseed (*Brassica campestris var. toria*) Protein isolates. Journal Food Science and Technology. 32, 162-165.

**7.A Mahajan** and Saroj Dua. 2002 Functional Properties of Sapium( *Sapium sebiferum*) and Cucurbita ( *Cucurbita moschata* ) Seed meals. Journal Food Science and Technology 39, 545-548.

8.Saroj Dua, **Amita Mahajan** and Kuldeep Singh , Quercetin : A secondary plant metabolite of medicinal interest . Panjab University Research Journal (Science), Chandigarh.56 23-31. (2006)*.*

**9.A Mahajan**, S. Dua, M. Trehan Effect of heavy metal ions on protein & nucleic acid metabolism of amaranth seedling, J. Plant Sci. Res. 23, 95-98 (2007).

10.Saroj Dua, **Amita Mahajan**, Meenakshi Sandal & Gagan Physicochemical properties of defatted pea seed meal proteins with emphasis on salts & pH. *J Food Sci Technol 2009, 46(3), 251–254.*

**11Amita Mahajan**, S. Dua and Gunjan Sood, Biochemical changes during growth and development of Amaranthus J Plant Sci Research. 24, 29-36, (2008)

12 Vikas Sharma and **Amita Mahajan**.Structure based drug designing of human SMAD-5 for pulmonary arterial hypertention.International Journal of Bioinformatics.4(2)41-45(2011).

13 Vikas Sharma and **Amita Mahajan**.Homology modeing of human SMAD-1 for pulmonary arterial hypertention using Modeller. Journal of Computational Intelligence in Bioinformatics.4(2)199-207-45(2011).

14 Vikas Sharma and **Amita Mahajan** Homology  modeling of human smad5 for inhibitor design in PAH. Biospectrum,March-2011 vol-10-11(1-4)ISSN-0972-8023

15 Vikas Sharma and **Amita Mahajan** Structure based drug designing of dpp-iv in diabetes type-2. Biospectrum,March,2012 ISSN-0972-80

16 Puri, P., Mahajan, A., Bhatia, A. (2013). Estimation of biocrude from *E. cotinifolia.* Recent Advances in Bioenergy Research vol-11.21: 287-292.

17. Puri, P., Mahajan, A., Bhatia, A. (2014). A bioprospection of *Euphorbia cotinifolia for biofuel:* chromatography study. Recent Advances in Bioenergy Research vol-111. 3: 23-

**Books and Chapter in Books:**

Jitender, Anjuli Sood, **Amita Mahajan** and A.S. Ahluwalia . Renewable Energy Sources. Potential of microalgae for production of Enviornmental friendly Biofuel In Algal Biology and Biotechnology. Published by I.K. International Publishing

Pvt. Ltd. Pp 217-225

**2. Ram books Publishers**

**Published in conferences**

Deepak Agnihotri, Amita Mahajan and Hitesh Sharma. The catalytic effect of the fullerene cages on metal hydride complexes cnnaxh4 (x=al and b) for n=28, 32, 36 and 60. International Symposium on Hydrogen and Energy Storage at IIT Kanpur on

Jan. 14th 2010.

Deepak Aghnihotri, Hitesh Sharma and **Amita Mahajan**. Hydrogen production from biomass. In. National Conference on Global trends In Mechanical Engineering. Held in Rayat and Bahra Institute of engineering and Biotechnology, pp 297-300 ,2010.

Sharma Vikas and **Amita Mahajan** . Drug Designing in disabetes Type - Presented In National Conference in emerging Computer Technology. Held in Rayat and bahra Institute of engineering and Biotechnology, pp172-174, 2010.

Ritu Mahajana, and Amita Mahajan Algae As Biofilter For Waste Water Management.Published In ‘Recent Advancements and Innovations in Science and engineering held on 6th And 7th Jan.2012,atGuru Ram Das institute of Engineering & Technology Bathinda, Punjab

Vikas Sharma and **Amita Mahajan** “B***iomacromolecular databases in bioinformatic”,*** accepted for publication in 2nd National conference titled Challenges in Emerging Computer Technologies ’2012that will take place on May 16-17, 2012at Rayat-Bahra Institute of Engineering and Bio-Technology, Mohali Campus.

**Conferences attended:-**

* 1. 1998: Seminar on “Raising HPLC Performance with innovative Technology.”
  2. Seminar on “Botany today.” on 7th March,1998 at Department of Botany, PU Chandigarh.
  3. National seminar on Plant Genetic Diversity: Evaluation and conservation , held on 22nd-23rd Feb.1999 at Department of Botany, PU Chandigarh.
  4. 2001: National symposium on Plant Bio-diversity and conservation.
  5. 2001: National symposium on “Botanical Research in 2001.”
  6. 91st Indian Science congress, held on 3rd-7th Jan.2004 at PU Chandigarh.
  7. First Chandigarh science congress from March 10-11, 2007 held in Panjab University.
  8. Attended Seminar on Teacher Education –Future Perspectives held on

23rd April ,2007 Rayat and Bahra College Education hnology, Kharar.

* 1. National conference on Phycology- From molecule to Ecosystem held in Botany Department Panjab University Chandigarh from 14th Nov. 2007 -16th Nov 2007
  2. 12th Annual conference Of Association of Biology Teachers(Colleges ) held on 13th April,2008 at Govt. College For Girls Sector-42, Chandigarh.
  3. Participated in the 78th Annual Session of the Academy, held at the Panjab University, Chandigarh from November 21-23, 2008 by National Academy of Sciences, India
  4. 13th Punjab Science Congress , Climate Change: Concerns and Solutions,

held on 7th-9th, Feb.2010at PU Chandigarh.

* 1. National Conference on Computer Technologies, Held on 8th& 9th April,2010 at Rayat and Bahra Institute of Engg. And Biotechnology, Kharar
  2. National Conference on Global Trends in Mechanical Engineering, Held on 16th& 17th April,2010 at Rayat and Bahra Institute of Engg. and Biotechnology, Kharar.
  3. Certificate Course on Antenna Engg. Held at Rayat and Bahra College of Engg. And Biotechnology for Women, Kharar and organized by NITTTR, Sector -26, Chandigarh from 23rd Sep.-25th Sep.2010.
  4. 14th Annual conference Of Association of Biology Teachers(Colleges ) held on 27th March ,2011 at Post Graduate Govt. College For Girls Sector-42, chadigarh.
  5. National Conference on Plant & Microbial Biodiversity Organized by Department of Botany, on 1-2, March,2012, at PU Chandigarh.
  6. 15th annual conference of Association of Biological Teachers at Post Graduate Govt. College for Girls, sector -42, Chandigarh held on 27th March, 2011

**Workshops attended:-**

1. Workshop on plant Taxonomic Procedures Organized by Department of Botany, on 26th-28th March, ,2004, at PU Chandigarh.
2. Regional symposium cum workshop on New and Renewable Energy held on 9th Feb. 2007 in GCG-11 Chandigarh
3. Patent Awareness Workshop held on 9th December 2006 organized by RBIEBT, Kharar.
4. Attended One day Workshop on Human Value held in PTU on 27th, Sep 2011.
5. Three days workshop On human Values held in Gian Jyoti Institute of Managrment, Mohali By PTU from 23rd March, 2012-25th March. 2012

**Papers Presented**

1. Geothermal energy as a renewable source of energy presented at Regional symposium cum workshop on new and renewable energy held in GCG-11 Chandigarh.
2. Bio chemical changes during growth and development of Amaranthus at First Chandigarh science congress from March 10-11, 2007 held in Punjab University.
3. Functional Properties of algal proteins at National conference on Phycology- From molecule to Ecosystem.

5 Effect of pH on Functional Properties of Rapesed and Sesame seed Meals

at National Conference on Plant & Microbial Biodiversity Organized by

Department of Botany, on 1-2 ,March,2012, at PU Chandigarh.

1. 17th Punjab Science Congress held in PTU ,Kapurthala from 14th -16th February,2014.

7 Assessing the potential of Euphorbiaceae plants to act as biofuel crops presented in National Conference on Perspectives and Trends in Plant Sciences and Biotechnology .Organized by Department of Botany, on 21-23 Feburary,2014, at PU Chandigarh.

**FDPs Attended:**

1. Attended Teachers Orientation Programme on”Human Values and Professional Ethics “ Organized by PTU, at IET, Bhaddal from 18th July-25th July,2011.
2. Emerging trends in nanoscience and technology held at RBCEBTW from 2nd July,2012-6th July, 2012.
3. FDP on ICT
4. FDP on Entrepreneurship sponsored by Department of Science and Technology from 20th July2013-3rd August 2013 held at Rayat Bahra Institute of Engineering and Biotechnology, Kharar, Mohali.

**Talks Delivered**

1 Delivered a Talk on Food Habits in children on 30th jan,2012 at Govt. Model Senior Secondary School , Sector 20, Chandigarh.

2 Delivered a talk on Scientific temper in Education College, Rayat Bahra university on

**Awards:**

1. Adjudged as the most Commendable faculty of Applied Sciences Department by Rayat Bahra Group of Institutes.

2. Nominated as Member of Research Deveolpment Committee of Biotechnology of PTU

3.Was Member of Board of Study of Biotechnology from 2008-2010.

4. Presently member of Board of Study of Sciences of Rayat Bahra University.

**Administrative Experience:**

**a) Academics**

1.HOD Agriculture 29th June2020-Till date

2. HOD Agriculture & Life Sciences Department 3.0Years( May,2016-May 2019).

3. Coordinator academics USET 1 year( Aug.2014-July2016

4. Coordinator academics USS 1 year( Aug.2015-May 2016)

5. Dean Academic Affairs RBIEBT 2.5 Years (01.02.2012-01.08.2014)

6. Deputy Dean Academic Affairs University School of Engg. & Technology 6 months

7.Academic incharge of Biomedical Engg. Department

8.Advisor of student chapter(140) of Institute of Engineers(India)

9.Controller of PTU final Examination

**b) Non Academics**

1.Convener PTU Inter Zonal Youth Festival, 2011.

2. Coordinator NSS Rayat Bahra University Feb.2020-Till date

3. Organized Workshop on In Collaboration with Mahatma Gandhi National Council of

Rural Education(MHRD**)**On Swachh Campus , Jal Shakti Campus & Jal Shakti Gram

Date: 24:06:2020 (11:00am-3:00pm).

**Research Guidance**:

No. of Students Completed M.Phil 01

No. of Students Completed Ph.D 03

No. of Students pursuing Ph.D 01

**Membership**

* Life member Indian Science Congress, Calcutta.
* Life member Society for Biological Chemists (SBC), Bangalore.
* Life member Punjab Science Congress.
* Life Member Association Biological Teachers(Colleges)

(**Dr. Amita Mahajan**)

**Dr. (Mrs.)Amita Mahajan**

**Residence**: # 1626, Sec. 44-B,

Chandigarh (UT)

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