



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title	DR.	First Name	BELA	Last Name	BHATIA	Photograph
Designation	ASSOCIATE PROFESSOR					
Address	132, VAISHALI, PITAMPURA, DELHI-110034					
Phone No. Office	011-26439565					
Residence Mobile	9891270487					
Email	Bhatia_bela@hotmail.com					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	DEPARTMENT OF BOTANY, UNIVERSITY OF DELHI				1993	
M.Phil.	DEPARTMENT OF BOTANY, UNIVERSITY OF DELHI				1989	
PG	DEPARTMENT OF BOTANY, UNIVERSITY OF DELHI				1988	
UG	KIRORI MAL COLLEGE, UNIVERSITY OF DELHI				1986	
Any other qualification						
Career Profile						
<p>Associate Professor-Deshbandhu college, 2006- to date</p> <p>Reader – Deshbandhu college,2003-2006</p> <p>Senior Lecturer-Deshbandhu college, 1998-2003</p> <p>Lecturer – Deshbandhu college, 1995-1998</p> <p>Research Associate- Department of Botany, University of Delhi, 1994-1995</p>						
Administrative Assignments						
<p>1.Member Cultural committee- 1996-97, 1997-98.</p> <p>2. Member Garden Committee- 1997-2000.</p>						

3. Member Proctorial board- 2001-2002.
4. **Advisor** , Botanical Society- 2003-2004.
5. Member Prospectus committee- 2008-2009.
6. Member Financial assistance committee-2008-2009.
7. Member committee of courses for undergraduate (excluding Hons.) studies in Botany, University of Delhi-2009-2010.
8. Member Proctorial Board- 2010-2011
9. Member Garden Committee- 2011-2012.
10. Member anti ragging team -2012-2013
11. Member election committee for the DUSU and College Student's Union Election 2012-2013.
12. Member Garden Committee- 2012-2013.
13. Member, Organizing Committee for the "INSPIRE Internship Program-2012".
14. Member election committee for the DUSU and College Student's Union Election 2013-2014.
15. Member, Organizing Committee for the "INSPIRE Internship Program"-2013.
16. Member, Organizing Committee for the "Workshop on Applied Genomics and Proteomics" March , 2014
17. **Advisor** , Botanical Society- 2013-2014. .
18. **Teacher Incharge** Department of Botany 1 Jan2013- Dec 2014
19. **Convener**, Garden Committee-2014-2015.
20. Member election committee for the DUSU and College Student's Union Election 2014-2015.
21. Member, Organizing Committee for the "INSPIRE Internship Program"-2014.
21. **Convener**, Garden Committee-2015-2016
22. Member election committee for the DUSU and College Student's Union Election 2015-2016.
23. Member election committee for the DUSU and College Student's Union Election 2016-2017.
24. **Nodal Officer**- Deshbandhu College. Green Campus Initiative of University of Delhi 2016.
25. **Convener**, Garden Committee 2017-18.
26. Member election committee for the DUSU and College Student's Union Election 2017-

2018.

27 Convener, 66th Annual Day and Prize Distribution function. 2017-18.

28. **Convener**, Garden Committee 2018-19.

29. Programme co-ordinator for B. Sc. Life Sciences 2018-19.

30. Member election committee for the DUSU and College Student's Union Election
2018-2019

Areas of Interest/Specialization

Botany – Phycology –Ultrastructure and Histochemistry, Cell Biology, Embryology

Subjects Taught

B.Sc. (H.) Botany	Sem I	Algae and Microbiology Microbiology and Phycology	2011-2012, 2012-2013, 2013-2014 2015-16, 2016-17, 2017-18, 2018-19
B.Sc. (H.) Botany	Sem II	Archegoniate Mycology and Phytopathology	2011-12, 2015-16, 2017-18
B.Sc. (H.) Botany B.Sc.(P) Life Science	Sem III	Cell biology-I Plant Anatomy and Embryology	2011-12, 2012-13, 2013-14 2017-18, 2018-19
B.Sc. (H.) Botany	Sem IV	Cell biology-II	2011-12, 2012-13, 2013-14
B.Sc. (H.) Botany	Sem V	Reproductive Biology of Angiosperms	2015-16, 2016-17, 2017-18
B.Sc. (H.) Botany	Sem V I	Embryology of Angiosperms	2012-2013, 2013-2014

Publications Profile

Books/Monographs (Authored/Edited)

- 1) Vijayaraghavan, M.R. and **Bhatia Bela**. 1997. Red Algae: Structure, Ultrastructure and Reproduction. APH Publishing Corporation, New Delhi.
- 2) **Bhatia Bela**, Shukla A. K, Sharma H.L. 1998 (Eds.) Plant Form and Function. Angkor Publishers Pvt. Ltd. New Delhi.

Research papers published in Refereed/Peer Reviewed Journals

- 1) **Bhatia, Bela**, Vijayaraghavan, M. R. and Krishnamurthy, V. 1990. Structure of attaching organ of *Nizyenia australis* Sonder (Nizyeniaceae, Gigartinales, Rhodophyta). Seaweed Res.

Utilin. 13(1):11-14

- 2) **Bhatia, Bela** , and Vijayaraghavan , M. R. 1990. Extracellular secretions in *Nizymania australis*, a red alga. *Phykos* 29:17-21.
- 3) **Bhatia, Bela** and Vijayaraghavan, M. R. 1990. Histochemical analysis of vegetative and reproductive structures in *Nizymania australis* Sonder. *Seaweed Res. Utilin.* 13(2):
- 4) Vijayaraghavan, M. R. and **Bhatia, Bela**. 1991. Developmental and histochemical studies on *Nizymania australis* Sonder (Nizymeniaceae, Gigartinales, Rhodophyta). *Proc. Indian natn. Sci. Acad. B* 57 No. 1:49-56.
- 5) **Bhatia, Bela** and Vijayaraghavan, M. R. 1991. Reproductive development of *Nizymania australis* Sonder (Nizymeniaceae, Gigartinales). (Abs.) *J. Phycol.(Supplement).* 27 (3):9.
- 6) **Bhatia, Bela** and Vijayaraghavan , M. R. 1994. Developmental and histochemical studies on spermatangium and spermatium release in *Scinaia forcellata* Bivona- Bernardi (Rhodophyta). *Seaweed Res. Utilin.* 17:177-182.
- 7) **Bhatia, Bela** and Vijayaraghavan , M. R. 1995. Carposporangial development in the red alga *Scinaia pseudocrispa* (= *S. forcellata*) from India. *Aquatic Bot.* 52 (3):192-203.
- 8) Vijayaraghavan , M. R. and **Bhatia, Bela** 1995. Differentiation of utricle in *Scinaia pseudocrispa* (= *S. forcellata* ,Nemaliales, Rhodophyta) from Port Okha, India. *Phytomorphology.* 45(3&4):207-212.
- 9) Vijayaraghavan , M. R. and **Bhatia, Bela** 1995. Reproductive biology of Nemaliales with special reference to *Scinaia pseudocrispa* (Clemente) Wynne (*S. forcellata*) – An overview. *J.I.B.S. (Platinum jubilee volume)* . *J. Indian bot. Soc.* 74A: 5-13.
- 10) Vijayaraghavan , M. R. and **Bhatia, Bela** 1996. Developmental and histochemical studies on spermatangium and carposporophyte of *Scinaia forcellata* (Nemaliales, Rhodophyta) from Port Okha, India. *Nova Hedwigia. Beihefte.* 122: 133-144.

Research papers published in Refereed/Peer Reviewed Conferences

- 1) **Bhatia, Bela** and Vijayaraghavan , M. R. 1991. Seaweed biomass: a long term energy supply option. *Proc. 7th Annual Symp. Bio – Energy Society of India (BESI) New Delhi.* 79-83
- 2) H.L. Sharma and **Bhatia, Bela** 1991. Non – edible vegetable oils- substitute for diesel. *Proc. 7th Annual Symp. Bio – Energy Society of India (BESI) New Delhi.* 187-196.
- 3) Vijayaraghavan , M. R. and **Bhatia, Bela** 1993. Seaweeds: A new hope for 2000 A.D. In *managing biodiversity for energy* (ed) Pradeep Chaturvedi. Publication on World Food Day 1993. IAAS & FAO (UN)

Research papers published in Books

- 1) **Bhatia, Bela** 1998. Histochemical studies on monosporogenesis and monospore release in

Scinaia pseudocrispa (*S.forcellata*) (Galaxuaraceae, Nemaliales, Rhodophyta) from Port Okha. In Plant Form and Function. (Eds)Bhatia, Bela, Shukla A. K. and Sharma H.L. 1998 Angkor Publishers Pvt. Ltd. New Delhi : 41-47.

2) **Bhatia, Bela** 2001. Histochemical and ultrastructural studies on vegetative thallus of *Scinaia pseudocrispa* (Nemaliales, Rhodophyta). In Algal Biotechnology (Ed.) Trivedi P.C. Pointer Publishers, Jaipur (Raj.) India:233-243.

3) **Bhatia, Bela**. 2002. Polysaccharides of red alga *Scinaia pseudocrispa*. In Sustainable Aquaculture. (Eds.) Sahoo Dinabandhu and Qasim S. Z. A. P. H. Publishing Corporation, New Delhi: 45-55.

1. *Other publications (Edited works, Book reviews, Festschrift volumes, etc.)*

Semitechnical Papers

- 1) Bhatia, Bela. 1988. Pit connection in Rhodophyceae. The Botanica 38:35-40
- 2) Bhatia, Bela 1989. Algal Biofouling. The Botanica 39:33-35.
- 3) Bhatia, Bela and Pasricha Seema 1989 Antibiotics from Algae. The Botanica 39:61-62
- 4) Vijayaraghavan M. R. and Bhatia, Bela. 1990. *Prochloron*: a new prokaryote with chlorophyll – b. The Botanica 40:3-7.
- 5) Bhatia, Bela. 1991. Frustule. The Botanica 41:42
- 6) Bhatia, Bela. 1991. Microalgal lipids .The Botanica 41:17-21
- 7) Bhatia, Bela. 1992. Fossil algae. The Botanica 42:27-29.
- 8) Bhatia, Bela and Sharma H. L. 2000. Fuelwood production and wasteland reclamation. The Botanica 50:84-93.
- 9) Bhatia Bela. 2002. Transgenic plants. The Botanica 52: 64-70.

Conference Organization/ Presentations

1. Organization of a Conference:

1. Member Organizing Committee for “INSPIRE Internship Program- 2012, organized by Deshbandhu College, University of Delhi, held from October 1-5, 2012.

2. Member Organizing Committee for “INSPIRE Internship Program- 2013, organized by Deshbandhu College, University of Delhi, held from December 16-20, 2013.

3 Member Organizing Committee for “ Workshop on Applied Genomics and Proteomics” organized by Deshbandhu College, University of Delhi, in Association with Bio-Rad, held from

March 12-14, 2014

4 Member Organizing Committee for “INSPIRE Internship Program- 2014”, organized by Deshbandhu College, University of Delhi, held from October 08-12, 2014.

5. Coordinator-practical session of Botany for “INSPIRE Internship Program- 2014”, organized by Deshbandhu College, University of Delhi, held from October 08-12, 2014.

6. Convener prize distribution committee for “INSPIRE Internship Program- 2015”, organized by Deshbandhu College, University of Delhi, held from December 14-18, 2015.

7. Dy. Coordinator of the INSPIRE Internship Programme -2017 organized by Deshbandhu college, University of Delhi, held from December 18-22, 2017.

8. Convener of certificate memento and prize distribution committee; stage and auditorium committee for “INSPIRE Internship Programme 2017” organized by Deshbandhu College, University of Delhi, from December 18-22 2017.

9. Convener, practical programme committee of Botany for “INSPIRE Internship Programme 2017” organized by Deshbandhu College, University of Delhi, from December 18-22, 2017.

10 Member college advisory committee for National Workshop on “Skill Development to build a Clean India”, organized by Deshbandhu College and sponsored by ONGC on June 7-8, 2018

11. Member organizing committee for Fourth National Symposium on Environment: “Green Technology for Environmental Sustainability” organized by Deshbandhu College on 25th September 2018..

2. Participation as Paper/Poster Presenter

1) Presented a paper entitled “Seaweed Biomass: a long term fertilizer and energy supply option” in Seventh Annual Symp. Of Bio-Energy Society of India (BESI) held at IIC, New Delhi during July 12-13, 1991.

2) Presented a paper entitled “Bio-Energy contribution through Marine Algal Resources- Indian Scenario” in Eighth Annual Symp. of Bio-Energy Society of India (BESI) held at IIC, New Delhi during Feb. 4-5, 1994.

3) Presented a paper entitled “Carposporophyte in *Scinaia pseudocrispa* (Nemaliales, Rhodophyta) – A Developmental Enigma” in the 84th Session of Indian Science Congress held at New Delhi during Jan. 3-7, 1997.

4) Presented a paper entitled “Algal Utilization for Enhancing the Crop Productivity” in the National Symposium on “Microbes in Plant Improvement and Environmental Protection” held at Department of Botany, University of Delhi, during Dec. 23-24, 1997.

5) Presented a paper entitled “Polysaccharides of red alga *Scinaia pseudocrispa*” in the National Symposium on “Sustainable Aquaculture” held at Department of botany, University of Delhi,

during Feb. 20-21,1998.

6) Presented a poster entitled “*Dunaliella*- A Green solution to the Problem of Saline Habitates” in the 88th Session of the Indian Science Congress held at Indian Agricultural Research Institute, New Delhi during Jan. 3-7, 2001.

7) Presented a poster-“Impact of seaweed fertilizer on Plant growth”. In International Conference on Applied Phycology -“Algae in Biotechnology and Environment” held at University of Delhi. Feb. 14-15, 2006.

8) Presented a poster – “Seaweed Polysaccharides: Medical and Biotechnological Applications” In 7th Asia Pacific Conference on Algal Biotechnology held at University of Delhi, Dec. 1-4, 2009.

9) Presented a poster entitled “ TB/HIV Coinfection- Challenges and Strategies” in the International Conference on Public Health: Issues, Challenges , Opportunities, Prevention , Awareness. Organized by Daulat Ram College and Krishi Sanskriti, New Delhi, India on January 15th and 16th ,2016

10) Presented a poster entitled “ *Botryococcus braunii* – A Green Source of Liquid Hydrocarbon Fuel” in the National Conference on Plant Science Research : Looking beyond 21st Century for Environmental and Agricultural Revolution organized by Society for Plant Research and Department of Botany Delhi University on February 5th -7th , 2016.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

1) Awarded ISCA Young Scientist Merit Certificate for presentation of research work in the Section of Botany in the 84th Session of Indian Science Congress held at New Delhi during Jan. 3-7, 1997.

2) Awarded “World Ecology, Environment And Development (WEED) Award 2017 by International Association of Educators For World Peace, affiliated to United Nations.

3) Awarded certificate of appreciation as Science Ambassador 2017, 1st Science Ambassador Programme, a seminar and workshop on recent developments in Biotechnology organized by Bio-Rad Laboratories in association with Deshbandhu College, University of Delhi, and St. Thomas Girls Sr. Sec. School on 6th Nov, 2017.

Association With Professional Bodies

- *Editing*

1) Member Editorial Board of “The Botanica” (Magazine of Delhi University Botanical Society)

1989 : 39 : 1-97

1990 : 40 : 1-115

1991 : 41 : 1-119

1992 : 42 : 1-113

2) Vijayaraghavan M.R. and Bhatia Bela (Eds.) 1991. Souvenir of 7th Annual Symposium of Bio-Energy Society of India. New Delhi (Abstracts).1-82.

3) Associate Editor : BESI Newsletter 1994. 7(1). (Published by Bio- Energy Society of India, New Delhi.

4) Vijayaraghavan M.R. and Bhatia Bela (Eds.) 1994. Souvenir of 8th Annual Symposium of Bio-Energy Society of India. New Delhi (Abstracts).1-73.

5) Member Editorial Board of “Petals” 2001; 2003; 2013. (Magazine of Botanical Society , Deshbandhu College).

- *Reviewing*

1. Reviewed a manuscript “Anti-obesity property of brown seaweed, *Sargassum polycystum* using in vivo animal model” submitted to Journal of Applied Phycology. Springer. Germany June 2013.

2. Reviewed the book “ Botany for Degree Students” by A. C. Dutta published by Oxford University Press, India 2015.

- *Committees and Boards.* Member committee of courses for undergraduate (excluding Hons.) studies in Botany, University of Delhi-2009-2010
- *Memberships.* Life Member Delhi University Botanical Society
- *Office Bearer*

Other Activities

DR. BELA BHATIA

Signature of Faculty
Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.