

Date : May 14th, 2018

To,

The Editorial Board
Applications in Plant Sciences
Botany Society of America

Subject: Letter of Intent to Join Editorial Board of Applications in Plant Sciences as Reviewer

Dear madam/sir,

In response to your email dated May 7th, 2018 inviting applications for joining as reviewer member in your esteemed journal, I request you to consider my nomination for this role.

As evident from my attached CV, I have article publishing and reviewing experience in some of the journals in plant science field. Also, a recommendation letter from my supervisor is attached. Should you need any additional information, please let me know

Best regards,
Renu Joshi, PhD
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Renu Joshi, Ph. D.

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Biography

Renu Joshi achieved her Bachelor of Science followed by Master of Science both in Botany from **University of Delhi**, India. Continuing her interest in Botany, she joined Ch. Charan Singh University, Meerut, India in year 2004 for her Ph. D. research in *A Comparative Study of Growth Patterns, Production Biology and Biochemical Status of Field and Polyhouse Grown Ocimum Species* and achieved her doctorate in 2007. She is now based in Connecticut, US and is active her academic involvement in the Botany and is an active contributor for promotion of Botany fraternity as evident from her articles published in prominent plant science journals and she being reviewer of such journals.

With endorsements of her research work and its application in the industry, she is currently working as volunteer in [EEB UCONN](#) (Ecology and Evolutionary Biology, **University of Connecticut**)

Education

Ph. D. (Botany)

Chaudhary Charan Singh University, Meerut, UP, India

April 2004 till December 2007

M.Sc. (Botany)

Delhi University, Delhi, India

Jul 1997 to June 1999

B. Sc. (Botany)

Delhi University, Delhi, India

Jul 1994 to June 1997

Work Experience

- Currently working as volunteer for conducting research and herbarium databasing projects in the [EEB UCONN](#) (Ecology and Evolutionary Biology, University of Connecticut) on the following
 - *Plocama pendula* apoximis and self-compatibility comparisons and control implementation in EEB green house (May 2018 – Present)
 - Plants data basing and indexing as part of digitization and archiving project in the EEB herbarium (January 2018 – Present)

Both of the above are being executed under supervision of respective professors in EEB

- Worked as volunteer teacher (B.Sc. Botany) and mentor for Botany doctoral researchers, Govt PG College, Noida, UP India (June 2004 – March 2006)
- Worked as volunteer teacher (B. Sc. Botany), Department of Botany, Govt PG College, Noida, UP, India (April 2007 – March 2008)
- Maintains blog based plant science web portal www.studyofplants.com

Research and Reviews

Published Articles in Scientific Journals

1. Role of Enzymes in Seed Germination
International Journal of Creative Research Thoughts (IJCRT)
Volume 6 | Issue 2 | April 2018
<http://www.ijcrt.org/papers/IJCRT1812620.pdf>
2. Biosynthesis of protein in plants under different environmental factors
Journal of Medicinal Plants Studies
Volume 6 | Issue 2 | April 2018
<http://www.plantsjournal.com/archives/2018/vol6issue2/PartD/6-2-38-131.pdf>
3. Plant Fossils and Effects of Geological Changes
International Journal of Creative Research Thoughts (IJCRT)
Volume 6 | Issue 1 | March 2018
<http://www.ijcrt.org/papers/IJCRT1802860.pdf>
4. Significance of Guard Cells in Photosynthesis, a Mechanism for Food Production in the Form of Carbohydrates in Plants
International Journal of Creative Research Thoughts (IJCRT)
Volume 6 | Issue 1 | March 2018
<http://ijcrt.org/papers/IJCRT1801603.pdf>
5. Geographical, Climatic and Vegetation Diversity in the Himalayas
oiirj.org
Volume-07 | Issue-05 | Sept-Oct 2017
<http://www.oiirj.org/oiirj/sept-oct2017/03.pdf>

Reviewer in the Editorial Boards of

- a. International Journal of Creative Research Thoughts (IJCRT)
- b. Indian Journal of Plant Sciences (cibtech.org)
- c. Journal of Medicinal Plants Studies (plantsjournal.com)
- d. International Journal of Academic Research and Development

Research Conducted in

6. A Comparative Study of Growth Patterns, Production Biology and Biochemical Status of Field and Polyhouse Grown Ocimum Species

Chaudhary Charan Singh University, Meerut
December 2007

Google Scholar Profile

<https://scholar.google.com/citations?user=EMJJy5IAAAAJ&hl=en>

Industry and Academy Reference

- Dr. Sarah Taylor, EEB, UCONN (University of Connecticut)
- Dr. Don Les, EEB, UCONN (University of Connecticut)
- Prof. (Dr) Ashwani Kumar (Goyal), Guide, Reader and Principal (Retd), Joint Secretary (Education, UP), India
- Dr. G. P. Kimothy, Principal Scientist, Dabur India Ltd. India

Abstract of the Research

A Comparative Study of Growth Patterns, Production Biology and Biochemical Status of Field and Polyhouse Grown *Ocimum* Species

*An Abstract of Ph. D. Thesis submitted by Renu Joshi to CCS University, Meerut, India, 2007

The world population is increasing at an unprecedented rate and it is estimated that currently available resources may shortfall the demands of the world in the current century and hence it is important to devise alternative means those can help generating higher productivity with available resources. Such productivity increase is desired for various important aspects for the human civilization and include food, clothes, medicines and energy.

This study is oriented towards determining qualitative and quantitative productivity increases from the green medicine perspective. The green medicines have evolved and been practiced in various civilizations of the world and are still an alternative to conventional medicines in certain contexts. Two of the plant species utilized for green medicine are *Ocimum sanctum* and *Ocimum basilicum* and were considered in this study because such comparative studies on *Ocimum* species have been less than significant in the past. This study, in addition to comparing essential oils of medicinal significance e.g. eugenol, it was also aimed towards finding the vegetative differences e.g. root and shoot length and leaf area, bio elemental differences like Nitrogen and Phosphorous and physiological aspects between in and out of poly house grown variations of chosen *Ocimum* species.

The study was conducted in Noida, UP India, by performing series of experiments on grown crops of selected varieties in and out of poly house environments. After a thorough literature review and seed germination in targeted environments, the measurements of growth patterns, production biology, chemical and physiological values were recorded at regular intervals. The comparative analysis of the data collected showed significant differences in measured values and noteworthy increase in the crops grown under the poly house environment.

The research determined and further emphasized that the poly house grown crops can not only show increased level of vegetative growth but are also enriched in terms of medicinal characteristics like essential oils those may benefit human being from green medicine perspective.

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Department of Ecology and Evolutionary Biology
College of Liberal Arts and Sciences

Beth Parada, Managing Editor
Botanical Society of America/*APPS*
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St. Louis, MO 63166-0299

Recommendation for APPS Reviewing Editor Board

Dear Ms. Parada:

I am pleased to recommend Renu Joshi, Ph.D. for a position on the *APPS* reviewing editor board. She currently works under my supervision at UConn's Biodiversity Research Collections in the herbarium. She demonstrates independence, enthusiasm, dedication to her work, and meticulous attention to detail (a quality that is of utmost importance here). One of her qualities that I most value in the herbarium is her willingness to ask questions in advance any time an issue arises so that she can confidently proceed with work.

Should you need any further information, please reach out by email or phone. I'm happy to answer any questions.

Sincerely,

Sarah Taylor, Ph.D.
Scientific Collections Manager
George Safford Torrey Herbarium (CONN)

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