

## **VARSHA SRIVASTAV**

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### **Career Objective**

Be it being awarded the silver medal in B. Pharm, clearing GPAT twice or my appreciated role as a core member of the organizing committees at Jamia Hamdard, all of it and more, has been a result of the singular principle of giving my best shot every time. Seeking an opportunity to leverage my skills in research and development for the betterment of human health.

### **Educational Qualifications**

<b>Examination</b>	<b>Board/University</b>	<b>School/College</b>	<b>Year of Passing (%)</b>
Ph. D	Jamia Hamdard	Jamia Hamdard, New Delhi, India	Ongoing
M. Pharm	Jamia Hamdard	Jamia Hamdard, New Delhi, India	2020 (85.5)
B. Pharm.	Dr. APJ Abdul Kalam Technical University	Pranveer Singh Institute of Technology, Bhauti, Kanpur, India	2018 (90.52)
Intermediate	ISC Board	United Public School, Civil Lines, Kanpur, India	2014 (81)
High School	ICSE Board	United Public School Civil Lines, Kanpur, India	2012 (86.4)

<b><u>Technical Strengths</u></b>	<b><u>Subjects of Interest</u></b>
<ul style="list-style-type: none"><li>• VOS Viewer</li><li>• GraphPad Prism</li><li>• Mendeley Desktop</li><li>• MS Excel, Word and PowerPoint</li></ul>	<ul style="list-style-type: none"><li>• Ethnopharmacology</li><li>• Medicinal Plant Biotechnology</li><li>• Phytochemistry</li><li>• Clinical Research</li></ul>

### **Writing Experience**

- I have a scientific writing experience of around 4 years and have contributed to research and review publications in reputed journals.
- Worked as a Product trainee intern, developed scientific documents for various products in mistsers. in from 2nd June 2020-16th July 2020.
- As a freelance scientific writer, I have worked for a third-party organization named Academic Growth and written a few articles for them as well.

### **Research Experience**

### **Leading roles**

- Worked as an SRF in a DBT-based project titled, “Development of herbal formulation from medicinal plants (*Ocimum sanctum* and *Solanum xanthocarpum*) for the therapeutic management of *Mycobacterium avium* subspecies *paratuberculosis* infection in domestic livestock”.
- M.Pharm project: Pharmacokinetics, metabolomics & development of complete monograph of *Terminalia arjuna* bark and *Mucuna pruriens* seed for United States Pharmacopoeia.
- B.Pharm project: Safety assessment of herbal drugs for preventing complications of Diabetes.

### **Assisting role**

- “Development of Synergy-Based Combination for Learning and Memory Using *in vitro*, *in vivo* and TLC-MS-Bioautographic Studies”.

### **Patents**

- P.2204.IN titled, “An herbal formulation for the management of neurodegenerative disorders and a method of preparation thereof”.
- P.2346.IN titled, “Immunomodulatory and anti-MAP potential of synergistic herbal formulation and method of preparation thereof”.

### **Publications**

#### **Research publications**

- Srivastava V, Navabharath M, Gupta S, Singh SV, Ahmad S. Exploration of *Solanum xanthocarpum* Schrad. & Wendl. against *Mycobacterium avium* subspecies *paratuberculosis* and assessment of its immunomodulatory and anti-inflammatory potential. *Pharmaceuticals*. 2022 Nov 8;15(11):1367.
- Navabharath M, Srivastava V, Gupta S, Singh SV, Ahmad S. Ursolic Acid and Solasodine as Potent Anti-Mycobacterial Agents for Combating *paratuberculosis*: An Anti-Inflammatory and In Silico Analysis. *Molecules*. 2022 Dec 29;28(1):274.
- Samal, M., Siddiqui, A., Srivastava, V. et al. Identification of acetylcholinesterase inhibitory metabolites from hydroalcoholic extract of Itrifal Muqawwi Dimagh using thin-layer chromatography–bioautography–mass spectroscopy and its validation using in silico molecular approach. *JPC-J Planar Chromat* (2024). <https://doi.org/10.1007/s00764-024-00302-2>
- Khan MA, Srivastava V, Kabir M, Samal M, Insaf A, Ibrahim M, Zahiruddin S, Ahmad S. Development of synergy-based combination for learning and memory using *in vitro*, *in vivo* and TLC-MS-bioautographic studies. *Frontiers in Pharmacology*. 2021 Jul 2;12:678611.
- Insaf A, Parveen R, Srivastava V, Samal M, Khan M, Ahmad S. TLC–MS-Bioautographic Identification of Antityrosinase Compounds and Preparation of a Topical Gel Formulation from a Bioactive Fraction of an RSM-Optimized Alcoholic Extract of *Rubia cordifolia* L. stem. *Journal of AOAC International*. 2023 Nov 1;106(6):1598-607.

#### **Review publications**

- Srivastava V, Navabharath M, Khan M, Samal M, Parveen R, Singh SV, Ahmad S. A comprehensive review on Phyto-MAP: A novel approach of drug discovery against *Mycobacterium avium* subspecies *paratuberculosis* using AYUSH Heritage. *Journal of Ethnopharmacology*. 2024 Jun 21:118482.
- Srivastava V, Parveen B, Parveen R. Artificial intelligence in drug formulation and development: applications and future prospects. *Current drug metabolism*. 2023 Sep 1;24(9):622-34.
- Khan M, Altamish M, Samal M, Srivastav V, Insaf A, Parveen R, Akhtar J, Krishnan A, Ahmad S. Antiviral Potential of Traditional Unani Medicine with Special Emphasis on Dengue: A Review. *Current Drug Targets*. 2023 Dec 1;24(17):1317-34.

- Jamal G, Parveen R, Khan MA, Srivastava V, Mustafa S, Ahmad S, Husain SA. A Review on *Valeriana wallichii*: Chemical composition and pharmacological research. Current Traditional Medicine. 2023 Aug 1;9(4):55-71.

#### **Book chapters**

- Contributed a chapter in a book by Taylor and Francis Group titled, “Medicinal and Aromatic Plants against Paratuberculosis”.
- Contributed a chapter in a book by CCRUM, Ministry of AYUSH titled, “Quality Control Study of Araqiyaat using HPTLC densitometric analysis (fingerprinting)”.

#### **Achievements**

- **DST-SERB international travel grant** for attending the International Congress On Natural Products Research 2024 held at Kraków, Poland on July 13-17, 2024.
- **DBT-CTEP international travel grant** for attending the International Congress on Natural Products Research 2024 held at Kraków, Poland on July 13-17, 2024.
- **Star Scholar Award of the Year** in 2024 by Centre of Excellence in Unani Medicine (Pharmacognosy and Pharmacology).
- **Best Poster Presentation** in 8<sup>th</sup> International Congress of the Society for Ethnopharmacology (SFEC 2021) on 27<sup>th</sup>-29<sup>th</sup> August 2021 titled, “Development of herbal alternatives for *Mycobacterium avium paratuberculosis* (MAP) infection.
- Qualified **GPAT** (GRADUATE PHARMACY APTITUDE TEST) twice (**2017 and 2018**). **Silver Medal** for securing 2nd position in APJ Abdul Kalam Technical University, Lucknow merit list during the academic year 2017- 18.
- **Youth Merit Award** in Biology in ROTARY SCIENCE MODELS CONTEST held on 19th December 2012 in Rotary Club, Kanpur.

#### **Industrial and Hospital training**

- Worked as a trainee in Quality Control and R & D Department from 17<sup>th</sup> June 2019-17<sup>th</sup> July 2019 at Hamdard Wakf Laboratory, Ghaziabad, U. P.
- Industrial training of 4 weeks (26<sup>th</sup> December 2016-26<sup>th</sup> January 2017) at Dr. Edwin Lab, Mohali under the Manufacturing, Packaging, and Testing Section.
- Hospital training of 45 days at Madhuraj Hospital, Kanpur (8<sup>th</sup> June 2016-25<sup>th</sup> July 2016).
- Hospital training of 45 days at Chandni Hospital, Kanpur (5<sup>th</sup> June 2017-20<sup>th</sup> July 2017).
- Attended workshop on Spectrophotometer, HPLC, IR, and Chem Draw Ultra Software at PSIT, Kanpur.

#### **Declaration**

I hereby declare that all the information mentioned above is true to the best of my knowledge.

**(Varsha Srivastava)**