

## BIO-DATA

1. **Name** : **DR. NARENDER SINGH ATRI**  
S/O Smt. Krishna Devi & Late  
(S.M.) Hony Capt. Albel Singh

2. **Institution where served** : **Department of Botany**  
**Punjabi University, Patiala**

3. **Designation held** : **Professor of Botany & O.S.D. to**  
**Vice Chancellor**

4. **Date of Retirement** : **December 31, 2015. Completed**  
**Re-Employment on August 31,**  
**2020.**

5. **Permanent Address** : **Village: Chayan (Kotla Barog);**  
**Tehsil : Pacchad; District :**  
**Sirmour (H.P.).**

**Present Residential Address:**  
**Attri's Paradise, Officer's**  
**Colony, J.B. T. Road, Kotla Nala,**  
**Solan- 173212, Himachal**  
**Pradesh.**

7. **Nationality** : **Indian**

8. **Mobile** : **+91 94178 10754**

9. **E-mail** : [narinderatri04@gmail.com](mailto:narinderatri04@gmail.com)  
[fungalbio2007@rediffmail.com](mailto:fungalbio2007@rediffmail.com)  
[dr.attri@pbi.ac.in](mailto:dr.attri@pbi.ac.in)

10. **Specialisation** : (a) **Mycology with particular reference to systematics,**  
**evaluation, conservation and cultivation studies on**  
**Mushrooms.**  
(b) **Plant Pathology with particular reference to the study**  
**of diseases of crop plants, avenue plants**  
**and ornamentals.**  
(c) **Ectomycorrhizal studies.**



## 11. Academic Qualifications: M. Sc., M. Phil., Ph. D. (BOTANY)

S. No.	Degree	Year	Board/Univ./Inst.	% of Marks	Div./Rank	Subjects Taken
1	B.Sc.	1976	PU, Chd.	60.7	First	Botany, Zoology, Chemistry
2	M.Sc.	1978	Pbi.Univ. Patiala.	63.5	First	Botany
3	M.Phil.	1981	Pbi.Univ. Patiala.	5.536/6	Outstanding Grade	Botany
4	Ph.D.	1985	Pbi.Univ. Patiala.	Mushroom Mycology. Topic: "Studies on North West Himalayan Russulaceae"		

## 12. Awards, Honours and Membership of Professional Bodies/Organisations

### A. Awards & Honours

- Honorary Fellow Indian Mycological Society (FIMS), Kolkata
- Dr. V. Agnohothrudu Memorial Lecture Award by Mycological Society of India, Chennai.
- Dr. K. Natarajan Memorial Lecture Award by Mycological Society of India
- Honoured by Goa State Biodiversity Board in recognition of the contributions made for nurturing the ideals of Mushroom Biodiversity Conservation and Sustainable Utilization of this bio resource.
- In recognition of significant contributions towards systematics, evaluation and conservation of mushrooms, two mushrooms, namely *Lactarius atrii* Van de Putte & K. Das and *Russula puellaris* var. *atrii* K. Das, S.L. Mill. & J. R Sharma were named .

### B. Membership of National Committees

- **Member U.G.C.** Advisory Committee for CAS programme of Botany Department Osmania University, Hyderabad 2015-2019 onwards for 5 years
- **Advisor DBT, Govt. of India, sponsored** Star College Programme of Doaba College Jalandhar 2012-2020.
- **Member Research Advisory Committee** ICAR-Directorate of Mushroom Research, Chambaghat, Solan, Himachal Pradesh (2019-2021).

### C. Membership of Academic Societies

- Life Member, Indian Botanical Society, Meerut
- Life Member, Mushroom Society of India, Directorate of Mushroom Research, Chambaghat, Solan
- Life Member, Indian Phytopathological Society, IARI, New Delhi
- Life Member, Mushroom Growers Association, UHF, Nauri, Solan.
- Life Member, Indian Society of Mycology & Plant Pathology, Udaipur.
- Life Member, Punjab Academy of Sciences, Punjabi University, Patiala.

- Life Member, Mycological Society of India, Chennai, Tamil Nadu
- Life Member, Him Science Congress Association, Solan, Himachal Pradesh

#### **D. - Important Academic Assignments of Professional Societies**

- President Mycological Society of India (2019)
- Vice-President Mycological Society of India (2011-2012)
- Councillor, Mycological Society of India (2009-2010)
- Member, Editorial Board "Mushroom Research", an International Journal of Mushrooms, D.M.R. (ICAR), Chambaghat, Solan (H.P.)
- Member Editorial Board "Nelumbo" the Journal of Botanical Survey of India, Kolkata
- Member Editorial Board "Kavaka", being Transactions of the Mycological Society of India (2011-2013)
- Editor (Mycology), Indian Phytopathology, IARI, New Delhi
- Editor – in- Chief - “Kavaka” being Transactions of the Mycological Society of India (2014-2020)
- Reviewer for Mycotaxon, Plos one, Taiwan, Indian Phytopathology, Indian Journal of Forestry and many other National and International Journals.

### **13. Details of Experience:**

#### **A - Teaching Experience : More than 35 years (Details given below)**

<b>S. No.</b>	<b>Name of the Inst./Employer</b>	<b>Position Held</b>	<b>Duration</b>	<b>Major Job Responsibilities and Nature of Experience</b>
1.	SMD R S D College, Pathankot	Lecturer	31.10.83 to 7.9.87	Teaching of Botany to Undergraduate Classes
2.	Botany Deptt., Pbi. Univ. Patiala.	Lecturer & Reader	7.9.87 to Oct.,2004	Teaching of Post Graduate Classes at M.Sc. & M.Phil. Level & Research guidance.
3.	Botany Deptt. Pbi. Univ. Patiala.	Professor	Oct., 2004 to 31-8-2020.	Teaching of Post Graduate Classes at M.Sc., M.Phil. & PhD. Level & Research guidance.

#### **B - Research Experience: 40 years**

##### ***Published Work***

- Research Papers & Book Chapters (**179**) and Books (**7**) published: 186
- Citations-1317; h-index-16; i10-index-40**
- Abstracts published : 135
- National and International Conferences attended : 55

### **14. Research Projects and Assignments handled**

#### **A - Projects:**

- Studies on North-West Indian Agarics (UGC)
- Biosystematic Studies on North Indian Mushrooms (UGC)
- Studies on Russulaceous fungi from North Western Himalayas (UGC)

## **B - Research related Assignments handled in Botany Department**

- Subject Co-ordinator – Mycology & Plant Pathology (DRS Phase-II under SAP programme of UGC)
- Deputy Coordinator DRS Phase-III under SAP programme of UGC since Nov 2010 to December, 2013
- Coordinator DRS Phase-III under SAP programme of UGC from January, 2014 to 31, December, 2015.
- Coordinator FIST Programme of DST allotted to the Department from May 13, 2011 to May 12, 2014.

## **15. Administrative and Academic assignments**

### ***A - University Level Assignments***

- **Professor & Head Department of Botany and Chairman Undergraduate and Post-Graduate Board of studies in Botany, Punjabi University, Patiala** w.e.f. May 13, 2011 to May 12, 2014.
- **O.S.D. to Vice Chancellor, Punjabi University, Patiala (July, 2019-August, 2020)**
- **Additional Dean Research Punjabi University, Patiala** (1<sup>st</sup> July, 2015 to 31<sup>st</sup> December, 2015)
- **Dean Life Sciences & Chairman Institutional Ethical Committee Punjabi University, Patiala** 1<sup>st</sup> July, 2015 to 31<sup>st</sup> December, 2015
- **Controller Examinations Punjabi University, Patiala** from Feb., 2009 to Sept, 2009
- **Coordinator Examinations Punjabi University, Patiala** from 2003-2005.
- **Member Academic Council** session 2010-2011 and Member Standing Committee Academic Council, Punjabi University, Patiala w.e.f. 1<sup>st</sup> July, 2015 to 31<sup>st</sup> December, 2015; Akal University Baru Sahib, District Sirmour (H.P.) 2019-2021.
- **Chairman Board of Studies in Agriculture, Home science and Food & Nutrition Punjabi University, Patiala** w.e.f. 1<sup>st</sup> July, 2015 to 31<sup>st</sup> December, 2015.
- **Member Post Graduate Board of Studies in Botany, Kurukshetra University, Kurukshetra** for the year 2012-2013.
- **Member Post Graduate Board of Studies in Life Sciences Chaudhary Charan Singh University, Meerut** for the year 2013-2014; Central University, Punjab, Bathinda 2015-2016; **Research Degree Committee, H.P. University, Shimla** for the session 2013-2015.

### ***B - Punjab State Level Organizational Assignments***

- **Co-Coordinator for SLET (State Level Entrance Test) for Lecturership in Computer Science/ Information Technology & Education in 2006.**

- **Coordinator for state level JET** (Joint Entrance Test) for admission to B.Ed. (2007) course in the Education colleges of Punjab.

**C - Department Level Organizational Assignments**

- **Organizing Secretary** for National Symposium on " Researches on Fungal Biology: Emerging Trends" organized by the Department of Botany, Punjabi University, Patiala from January 30 – 31, 2007.
- **Organizing Secretary** for National Symposium on "Botanical Researches – Present Scenario" organized by the Department of Botany, Punjabi University, Patiala from February 18 – 19, 2010.
- **Organizing Secretary** for National Symposium on "Fungal Biology and Applications" organized by the Department of Botany, Punjabi University, Patiala from March 21 – 22, 2011.
- **Convenor for National Symposium** on "Plant Cytogenetics – New Approaches" organized by the Department of Botany, Punjabi University, Patiala from February 23 – 24, 2012.
- **Coordinator** for organizing Refresher Course in Life Sciences from December 4, 2012 to December 24, 2012 under the auspices of Academic Staff College Punjabi University, Patiala.
- **Convenor for National Symposium** on "Fundamental and Applied Phycology" organized by the Department of Botany, Punjabi University, Patiala from March 25 – 26, 2013.
- **Convenor for National Symposium** on “Emerging Trends in Botanical Sciences organized by the Department of Botany, Punjabi University, Patiala on February 17-18, 2014.
- **Organizing Secretary National Symposium** on Mycological research-Emerging Trends, Applications and Prospects organized by Department of Botany, Punjabi University, Patiala in collaboration with Mycological Society of India on February 23-24, 2015.

**D - Other Important Assignments**

- **Chairman Examination Reforms Committee** constituted by Punjabi University, Patiala during the year 2010-2011.
- **Member Advisory Committee Academic Staff College (now Human Resource Development Centre) established by U.G.C.** in Punjabi University, Patiala from April 2011 for two years.
- **Nominated as member of Punjabi University Examination advisory committee** in 2016
- **Convenor in number of Inspection Committees** for the inspection of affiliated Colleges and Enquiry Committees constituted by Punjabi University, Patiala.

- **Member Punjabi University Internal Quality Assurance Committee** (IQAC) since 2010 to 2015; 2019.
- **Nominated member** by Punjabi University, Patiala on the Central admission Committee for on-line state level admissions conducted by Punjab University, Chandigarh for B.Ed. colleges of Punjab for the session 2011-2012.
- **Nominated as representative member** by Punjabi University, Patiala on the management of Shahid Udham Singh College Sunam for the session 2009-2010 and Dolphin P.G. College Chunnikalan for the session 2010-2011.
- **Member of various selection committees** constituted by Punjabi University, Patiala for the selection of Principals and Teachers in the affiliated colleges and also on the selection committee of Himachal Pradesh Public Service Commission for the selection of College Teachers, Kurukshetra University, Central University Jammu, University of Jammu, P.A.U. Ludhiana, Panjab University, Chandigarh for the selection / promotion of University Teachers.
- **Acted as Observer** in the various State and National level Examinations including AIEEE, AIPMT, JEE, UGC-NET and SLET, etc.
- **Acted as paper setter and evaluator** for various University level Undergraduate and Post Graduate Examinations of Punjabi University, Patiala; Punjab University, Chandigarh; P. A. U. Ludhiana; Guru Nanak Dev University, Amritsar; Lovely Professional University, Jalandhar; Kurukshetra University, Kurukshetra; Jammu University, Jammu; Himachal Pradesh University, Shimla, U.P.S.C., New Delhi and State Public Service Commission Examinations.
- **Worked as Reviewer** during 2012-2014 for evaluation of Research projects submitted to the Ministry of Environment & Forests, GOI, New Delhi.

## 16. Invited Talks delivered

- **Delivered invited talk** on "Edible mushrooms and their cultivation" at Government Mohindra College, Patiala on 23 January, 1998
- **Delivered invited lecture** on "Mushrooms and their relevance to mankind" at Government college Sangrur on 12 February, 1999
- **Delivered invited lecture** on "Collection and identification of mushrooms" in Summer School on Emerging areas of Mushroom Research organized by National Research Centre for Mushroom (ICAR), Chambaghat, Solan from August 26 – September 15, 2003
- **Presented invited talk** on "Inventorization of Mushroom Mycoflora in Punjab State-A Critical Appraisal". In International Conference on Mushroom Biology and Biotechnology held at National Centre for Mushroom (ICAR), Chambaghat, Solan from February 10 – 11, 2007.
- **Delivered invited lecture** on "Russula Taxonomy – An appraisal and scope in the Indian context" in National Symposium on New Vistas for Mycology in meeting

Global Challenges organized by CAS in Botany, University of Madras, Guindy Campus, Chennai from January 29 – 30, 2009.

- **Delivered invited talk** on “Examination Reforms – Vision 2020” at Government College Malerkotla on March 15, 2009
- **Presented invited lecture** on “Molecular basis of Defense Mechanism in Plants against Pathogens” at CAS in Botany, University of Madras, Guindy Campus, Chennai on March 29, 2010.
- **Delivered invited talk** on “Fascinating world of mushrooms in the service of society” in 5<sup>th</sup> J&K. Science Congress Organized by University of Jammu on the theme " Science for Society" from 6<sup>th</sup> to 10<sup>th</sup> February,2010.
- **Delivered invited Lecture** on "Investigation of Taxonomic, Cultural,Cultivation and Nutraceutical aspects of *Lentinus squarrosulus* (Mont.) Singer in India" in the Botany Section XIV: Plant Sciences of 98<sup>th</sup> session of Indian Science Congress organized by S.R.M. University, Chennai, Tamil Nadu from 3-7 January,2011.
- **Delivered invited talk** on "Global Climate Change and Green Business" in a workshop on Biodiversity and Environment organized by Mata Gujri College, Fatehgarh, Sahib, an Autonomous College of U.G.C. on March 22, 2011.
- **Presented invited talk** to the teachers of Education on “ Teaching, Learning, Examination – Vision 2020” at Department of Education, Punjabi University, Patiala on May 10, 2011.
- **Delivered invited lecture** on "Systematics, Evaluation and conservation of Mushrooms" on December 6, 2012 to the participants of National Workshop organized by National Fungal Culture collection of India (NFCCI) at DST National Facility, MACS, ARI, Pune.
- **Delivered invited talk** in UGC sponsored National Seminar on "Fungi and Human Welfare on February 8-9, 2013 at Department of Botany Ramnarain Ruia College, Mumbai.
- **Presented Dr. Agnihothrudu memorial Award lecture** instituted by Mycological Society of India during 39<sup>th</sup> Annual meeting of MSI on 5<sup>th</sup> and 6<sup>th</sup> March,2013 at Bangaluru.
- **Delivered invited lead Lecture** on the "Evaluation of Mushrooms-The Precious Jewel in the nature's treasure in the 1<sup>st</sup> Annual National Conference on Science. Emerging Scenario and future challenge Organized by Him Science Congress Association, Shoolni University, Solan on March 8-10, 2013.
- **Delivered invited lead Lecture** on the "Systematics, nutritional, nutraceutical and domestication studies in some *Lentinus* species from North India " in Indian Mushroom Conference 2013 Organised by Directorate of Mushrooms Research, Sloan Chambaghat in collaboration with Punjab Agricultural University, Ludhiana on April 16-17, 2013.
- **Delivered invited lead Lecture** on the "Systematics and evaluation of Termitophilous mushrooms from North India" in the National Symposium on "Mushrooms for Medicinal Value and nutritional security under changing climate

conditions" Organised by Department of Mycology and Plant Pathology at Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, on December 27-28, 2013.

- **Delivered a lead lecture in the third technical session** during the UGC sponsored National Seminar on "Fungi in Biotechnology" organized by SIES college of Arts, Science and Commerce, Sion (W) Mumbai in collaboration with Mycological Society of India on 28-29 November, 2014.
- **Delivered invited talk** at Khalsa College, Patiala on the topic entitled " Mechanism of Host Pathogen Interaction, Diseases and their Management" on 21-11-2015
- **Delivered invited talk** at Government Mohindra College Patiala on the topic entitled " Global Climate Change and Mitigation Strategies" on 04-12-2015
- **Delivered a Plenary Lecture** on "Nutritional, Nutraceutical and Sociobiological Aspects of some North Indian Edible Mushrooms and their Conservation" in the National Conference on "Emerging Trends in Fungal Biology and Plant Protection" organized by CAS in Botany, Banaras Hindu University, Varanasi in Collaboration with Mycological Society of India from February 16 - 18, 2016 at Institute of Science, BHU, Varanasi.
- **Delivered a Lead Lecture** on "Systematic, Nutritional, Nutraceutical and Domestication studies on wild *Lentinus* species from North India" in the Section of "Mushroom Fungi : Friend of Human Being" in the 6th International Conference "Plant Pathogens and People" organized by Indian Phytopathological Society from February 23 - 27, 2016 at NAAS Complex, ICAR, New Delhi.
- **Acted as resource person and Chaired the Prize Distribution function** of Science exhibition organized by M.M.Modi College Patiala for School and College Students during Modi Jayanti Celebrations in November, 2015.
- **Acted as Resource Person** and delivered Lectures to the College teacher participants of Orientation Courses and Refresher Courses in Botany, Life Sciences, Environment and Education conducted by the Academic Staff College now Human resource development Centre, Punjabi University, Patiala; Academic Staff College Jammu University, Jammu; Academic Staff College, Guru Nanak Dev University, Amritsar and Academic Staff College, H.P. University, Shimla and Human resource Development Centre, University of Madras, Chennai, Tamilnadu.
- **Acted as Resource Person** in short term courses and workshops organized by Human Resource Development Centre, Punjabi University, Patiala for University and College Teachers, Research Scholars and University Employees.
- **Acted as Resource Person** for the Practical workshop and Workshop on Systematics of Plants and Microbes for University and College Teachers organized by Botany Department, Punjabi University, Patiala.
- **Presented an Invited Lecture** during one day National Seminar on " Recent Trends in Lower and higher Plants" organised by the Department of Botany, University College of Science, Osmania University, Hyderabad, Telangana on 28<sup>th</sup> March, 2017.



- **Presented a Key Note Address** during National Conference on " Research in Plant Sciences for Sustainable Development on March 16, 2018 organised by Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab.
- **Delivered an Invited Lecture in the Lecture Series** organised by the Department of Botany, University College of Science, Osmania University, on May 31, 2018 as a part of the Centenary Celebrations by Osmania University, Hyderabad, Telangana.
- **Acted as a Resource Person** for the Workshop on Mushroom Systematics organised by ICAR-Directorate of Mushroom Research, Chambaghat, Solan from August 10-12, 2019 for Mushroom Scientists working in different Coordinating Centres under All India Coordinated Research Project (AICRP) on mushrooms.
- **Presented a Presidential address** during 46<sup>th</sup> annual meeting of Mycological Society of India held at the Department of Biotechnology, School of Life Sciences, Pondicherry University, Kalapet, Puducherry on November 7, 2019.
- **Delivered an Invited Lecture** on "Diversity of Ectomycorrhizal fungi and impact of ectomycorrhizal associates on the growth and establishment of Sal seedlings" in the UGC-SAP (DRSII) sponsored two day national Seminar on : "Diversity and Reproduction in Plants and Microbes: Present Scenario" organized by Department of Botany, University of Jammu, Jammu, J.&K. on February 07-08,2020.
- **Delivered an Invited Lecture** on "Mushrooms as natural source of Food and Medicine" in the International Conference on " natural Products,Quality, Safety and efficiency" organized by Faculty of Science SIES College of Arts, Science and Commerce, Sion (W), Mumbai, University of Mumbai on March 06-07,2020.
- **Acted as Resource person** for the Online workshop on Fungal Systematics and Technological Advances organised by Shivaji Science College Amravati in collaboration with Mycological Society of India, Mumbai Unit on November 29-30, 2020.

## 17. **Chaired and Co-Chaired Sessions during National and International Conferences**

- **Co-chaired a technical session-1 pertaining to Mushroom Biodiversity in the** "International Conference on Mushroom Biology and Biotechnology" held at National Centre for Mushroom (ICAR), Chambaghat, Solan from February 10 – 11,2007.
- **Presided over a workshop** on " Research Paper writing Skills" organized by Rayat-Bahra College of Education, Mohali on May 12, 2009.
- **Co-Chaired a Poster presentation session** in National Symposium on New Vistas for Mycology in meeting Global Challenges organized by CAS in Botany, University of Madras, Guindy Campus, Chennai from January 29 – 30, 2009.
- **Co-Chaired a Poster presentation session** in 5<sup>th</sup> J.&K. Science Congress Organized by University of Jammu on the theme " Science for Society" from 6<sup>th</sup> to 10<sup>th</sup> February,2010.

- **Co-chaired a Plenary session-1 in the National Symposium on "Fungal Biology and Applications"** organized by the Department of Botany, Punjabi University, Patiala from March 21 – 22, 2011.
- **Chaired a Technical session-4 pertaining to value addition in mushrooms in the National Symposium on "Diversification for sustaining profitability in mushroom production"** organized by Indian Mushroom Growers Association and Department of Mycology and Plant Pathology, Y.S.Parmar University of Horticulture and Forestry, Nauni, Solan,- 173 230, Himachal Pradesh on November 26 – 27, 2010.
- **Chaired a Paper presentation session in the Section XIV: Plant Sciences of 98<sup>th</sup> session of Indian Science Congress** organized by S.R.M. University, Chennai, Tamil Nadu from 3-7 January,2011.
- **Chaired a Paper presentation session in the National Conference on Mycodiversity with its sustainable exploration and Biotechnological applications and 38<sup>th</sup> Annual meeting of Mycological Society of India** on 6<sup>th</sup> -7<sup>th</sup> February,2012 at Shri Shivaji science College Amravati, Maharashtra.
- **Chaired a Technical session-1 pertaining to "Taxonomy and Mushrooms Diversity in the National Symposium on Mushrooms for Medicinal value and nutritional security under changing climate condition"** Organised by Department of Mycology and Plant Pathology at Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, on December 27-28, 2013.
- **Chaired a Technical session-II during National Conference on “ Fungal Diversity and Biotechnology for Food and Chemicals** organized by Centre of Advanced study in Marine biology, Annamalai University, Prangipetti, Tamil Nadu on February 27-28, 2014.
- **Chaired a Techical session -II during the UGC sponsored National Seminar on "Fungi in Biotechnology"** organized by SIES college of Arts,Science and Commerce, Sion (W) Mumbai in collaboration with Mycological Society of India on 28-29 November, 2014.
- **Chaired a session in the National Conference on "Emerging Trends in Fungal Biology and Plant Protection"** organized by CAS in Botany , Banaras Hindu University, Varanasi in Collaboration with Mycological Society of India from February 16 - 18, 2016 at Institute of Science, BHU, Varanasi.
- **Co Charred A. K. Sarbhoy Award Lecture** delivered by Dr. S. K. Singh of Agarkar Research Institute, Pune on 26-02-2016 in the 6th International Conference "Plant Pathogens and People" organized by Indian Phytopathological Society from February 23 - 27, 2016 at NAAS Complex, ICAR, New Delhi.
- **Chaired a session and delivered a Prof. K. Natarajan Memorial Award Lecture** during 45<sup>th</sup> Annual Meeting of Mycological Society of India at Agarkar Research Institute, Pune, Maharashtra on November 19, 2018.
- **Chaired a session and delivered a invited Lead lecture** entitled " Exploration of Mushrooms for Human Welfare" in the National Symposium on " Microbes for

Integrated Plant Disease management and Bio-prospecting" on December 13, 2018 at Division of Plant Pathology, IARI, New Delhi.

- **Co Chaired two sessions and delivered a invited Lecture on "Important Edible Mushroom Germplasm of India and Conservation Strategies"** during XXI Workshop of All India Coordinated Research Project on Mushrooms (AICRP) on June 28-29, 2019 at ICAR-Directorate of Mushroom Research, Chambaghat, Solan, Himachal Pradesh.
- **Co Chaired a session and delivered a lead lecture on "Mushrooms in Service of Society"** in the National Conference on Biodiversity and Biotechnology of Fungi and 47<sup>th</sup> Annual Meeting of Mycological Society of India organised by Department of Botany, Punjabi University, Patiala from February 22-24, 2021.
- **Chaired a session during** workshop on "Microbes for Sustainable and Resilient Future" organized by the Department of Botany, University of Delhi on December 8, 2021.

#### 18. Ph.D. Students Supervised: 14

S. No.	Name of the Student	Title of Thesis	Year of Award
1.	A.K. Gupta	Systematic studies on the genus <i>Agaricus</i> L.: Fr. ( <i>Agaricaceae</i> ) from North-West I	1994 Awarded
2.	Munruchi Kaur	Systematic Studies on the genus <i>Russula</i> Pers. from Himachal Pradesh.	1995 Awarded
3.	Amanjeet Kaur	Mushroom Flora of Patiala and its surrounding areas	2000 Awarded
4.	Harvinder Kour	Punjab Mushrooms- A Monographic Study on some Light Spored Agarics.	2005 Awarded
5.	Rajinder Singh	Physiological and Biochemical investigations for the Cultivation of <i>Lentinus squarrosulus</i> (Mont.) Sing.	2011 Awarded
6.	Babita Kumari	Diversity, Sociobiology and Conservation of Lepiotoid and Termitophilous Mushrooms of North West India	2012 Awarded
7.	Sapan Kumar	Diversity, Taxonomy and Nutritional aspects of wild species of <i>Lentinus</i> and <i>Pleurotus</i> from North West India	2012 Awarded
8.	Amandeep Kaur	Mycofloristic explorations on the Coprophilous mushrooms from Punjab	2013 Awarded
9.	Samidha Sharma	Exploration of Russulaceous Mushrooms from North-West Himalayas	2015 Awarded
10.	Lata	Physiological, Biochemical and Cultivation studies on <i>Lentinus sajor- caju</i> (Fr.) Fr.	Awarded 2019
11.	Jitender Kumar	Agaric diversity in Sal forest of North west	Awarded

		India and impact of selected ectomycorrhizal associate in the establishment of sal seedlings	2019
12.	Mridu	Systematics and sociobiology of Agarics in Shivaliks of Haryana and adjoining areas	Awarded 2020
13	Balwinder Kaur Gill	Physiological, Biochemical and Cultivation studies on <i>Pleurotus sapidus</i> Qué.	Awarded 2021
14	Amita Rani	Studies on the Physiological and Biochemical parameters for the domestication of a wild <i>Pleurotus</i> species from Patiala	Awarded 2021

### 19. M.Phil. Students Supervised: 10

S. No.	Name of the Student	Title of Thesis	Year of Award
1.	A.K. Gupta	Systematic studies on the genus <i>Agaricus</i> L.: Fr.	1989
2.	Gurjeet Kaur	Taxonomic studies on Agaricales of Patiala	1990
3.	Daljeet Singh	Taxonomic studies on family Russulaceae	1990
4.	Munruchi Kaur	Systematic studies on Russulaceous Fungi from Dalhousie and Shimla Hills.	1991
5.	Gurjeet Kaur	Studies on taxonomy of Agaricales	1993
6.	Harpreet Kaur	Studies on culturing of Milky mushroom ( <i>Calocybe indica</i> )	2006
7.	Pooja Devi	Evaluation of Media, Physical factors and locally available substrate for cultivation of <i>Pleurotus florida</i> (Mont.) Singer.	2009
8.	Dimple Kumari	Studies on the domestication of <i>Lentinus connatus</i> Berk.	2010
9	Lata	Studies on the taxonomy, culturing and domestication of <i>Lentinus cladopus</i> Le'v.	2012
10	Balwinder Kaur	Preliminary investigation for culturing of <i>Pleurotus sapidus</i> Quel.	2013

**20. M.Sc. Students Supervised: 10**

S. No.	Name of the Student	Title of Thesis	Year of Award
1.	Kirandeep Kaur	Preliminary studies on the domestication of <i>Lentinus squarrosulus</i> Mont. in Punjab	2005
2.	Navneet Kaur	Investigations for culturing and domestication of <i>Lentinus squarrosulus</i> (Mont.) Sing.	2006
3.	Navjot Singh	Evaluation of media and substrates for culturing of <i>Lentinus squarrosulus</i> (Mont.) Sing.	2007
4.	Samidha Sharma	Evaluation of media and substrate for culturing of <i>Pleurotus florida</i> (Mont.) Singer	2008
5.	Sukhdeep Kaur	Taxonomic and culture studies on <i>Pleurotus albidus</i> (Berk.) Pegler	2009
6.	Sumita Devi	Preliminary Studies on the culturing and domestication of <i>Lentinus torulosus</i> (Pers.:Fr.) Lloyd	2011
7.	Gundeep Kaur	Preliminary studies for the evaluation of Media and Physical factors for culturing of <i>Lentinus sajor caju</i> (Fr.)Fr.	2013
8.	Gurleen Kaur Kalsi	Taxonomic Studies on Some Lamellate Mushrooms	2017
9.	Surinder Kaur	Preliminary Study of Some Putative Ectomycorrhizal Associates of Sal from Shivaliks of Uttarakhand	2017
10.	Hanish Garg	Taxonomic Studies on Some lamellate Mushrooms	2019

**21. List of Papers/Courses taught at P.G. and U.G. Level**

S. No.	Paper	Class
1.	Biology and Diversity of Bacteria, Viruses and Fungi and Practicals	M.Sc.-I
2.	Plant Physiology and Metabolism and Practicals	M.Sc.-I
3.	Plant Pathology Principles, Diseases and their management and Practicals	M.Sc.-II
4.	Advances in Theory Paper I & II pertaining to Plant Pathology and Plant Physiology, Research Techniques and Practicals	M. Phil.& Ph.D.
5.	Plant Microbe interaction, Microbial Biotechnology; Advances in Plant Physiology. Principles of Plant Pathology, Plant Disease Management and Corresponding Practicals	M.Sc. Hons. in Botany (Five-year integrated Course)

## 22. Technical Proficiency

Consultation and guidance in mushroom collection and identification was provided on regular basis to the Research Students visiting the Department from different Indian Universities and Research Institutions. Technical proficiency was achieved on mushroom culturing as well. Domestication studies on *Lentinus squarrosulus*, *Lentinus connatus*, *Lentinus torulolus*, *Lentinus cladopus*, *Lentinus sajor-caju* and culturing of specialty mushrooms including *Calocybe indica*, *Pleurotus florida*, *Pleurotus albidus*, *P. cystidiosus* and *P.sapidus* was undertaken.

## 23. Research Collaboration:

Collaborated with Late Dr. Rolf Singer (Chicago) for work on *Russulaceae*, Dr. D.N. Pegler (Kew) for work on *Russulaceae* and genus *Agaricus*, Late Dr.P.Heinemann (Belgium) for work on genus *Agaricus*, Dr. Bart Buyck (Paris) for work on genus *Russula*, Dr. R.C.Upadhyay (ICAR-D.M.R.,Solan) for work on systematics culturing and evaluation of Lepiotoid and Termitophilous mushrooms, Dr. Arvind Gulati (CSIR-IHBT, Palampur) ) for work on systematics culturing and evaluation of Pleurotoid and Lentinoid mushrooms, Dr. Kanad Das (B.S.I,Kolkata) for systematics of Russulaceous mushrooms.

## 24. New Species and Varieties of Mushrooms published:

More than 45 species and varieties of Mushrooms **new to science** were published in collaboration with my Ph. D. and M.Phil. students and some of the well known mushroom scientists including Late Dr. Rolf Singer (Chicago), Dr. Bart Buyck (Paris), Dr. R.C.Upadhyay (DMR, Solan), Dr. Arvind Gulati (IHBT,Palampur) and Dr. Kanad Das (BSI, Kolkata).

## 25. List of Research Papers and Books Published/Accepted :

### *A – Research Papers published / Accepted for Publication*

1. Saini S.S. and Atri N. S. 1981. *Russula foetens* (Pers.) Fr. – A new record for India. *Curr. Sci.* **50** (10): 460-461.
2. Saini S.S. and Atri N. S. 1982. North Indian *Agaricales* – I. *Indian Phytopath.* **35** (2) : 265-272
3. Saini S.S. and Atri N. S. 1982. North Indian *Agaricales* – III *Soc. Indian natn. Sci. Acad.* **B48** (3): 453-457.

4. Saini S.S., **Atri N. S.** and Singer R. 1982. North Indian *Agaricales* – II *Sydowia Ann. Mycol. Soc.* II **35** : 236-241
5. Saini S.S., **Atri N. S.** and Singh Kanwarjeet 1983. *Volvariella hypopithys* – a new record for India. *Indian Phytopath.* **36** (1): 180-182.
6. Saini S.S. and **Atri N. S.** 1984. Studies on North West Himalayan *Russulaceae*. *Geobios new Reports* **3**: 4-6.
7. Saini S.S. and **Atri N. S.** 1985. North Indian *Agaricales* – VII *Hebeloma sordidum* var. *microsporum* var.nov. *Geobios new Reports* **4** : 2-4 .
8. **Atri N. S.** and Saini S.S. 1986. Further contributions on the studies of North West Himalayan *Russulaceae*. *Geobios new Reports* **5**: 100-105.
9. Saini S.S., **Atri N. S.** and Bhupal M.S. 1988. North Indian *Agaricales*-V. *Indian Phytopath.* **41**(4) 622-625.
10. Saini S.S., Kumari S. and **Atri N. S.** 1988. Fungi of Punjab-1. Some new host records for *Alternaria* Nees : Fr. from India. *Geobios new Reports* **7**(2) : 101-103.
11. **Atri N. S.** and Saini S.S. 1988. Studies on *Lactarius* Pers. – The subgenus *Piperites* (Fr.) Kauff. *Kavaka.* **16** (1,2): 13-19. (NAAS: **5.3**)
12. **Atri N. S.** and Saini S. S. 1989. Family *Russulaceae* Roze-A Review. In: *Plant Science Research in India - Present status and future challenges* ( M. L. Trivedi et al., Eds.) Today & Tomorrow's Printers and Publishers, New Delhi, Pp. 115-128. (Review Article)
13. Saini S.S., **Atri N. S.** and Saini M. K. 1989. North Indian *Agaricales* –VI. *J. Indian bot. Soc.* **68**: 205-208.
14. Saini S.S. and **Atri N. S.** 1989. North Indian *Agaricales*-XI. Section *Russula* Pers. of genus *Russula* Pers. in India. *Indian J. Mycol. & Plant Pathol.* **19** (1): 44-49.
15. Saini S.S. and **Atri N. S.** 1989. North Indian *Agaricales*-IX. Section *Ingratae* Quél. Of *Russula* Pers. *Kavaka.* **17** (1,2): 21-27.
16. Saini S.S., Kumari S. and **Atri N. S.** 1989. Fungi of Punjab-II. Some new host records for *Cercospora* from India. *Geobios new Report* **8** (1) : 3-4. (Plant Diseases).
17. Saini S.S., Kumari S. and **Atri N. S.** 1989. Two new leaf spot diseases from India caused by *Alternaria*. *Curr. Sci.* **58** (9): 514-515. (Plant Diseases).
18. **Atri N. S.** and Saini S.S. 1990. Studies on *Russula* Pers. Section. *Decolorantes* (Maire) Sing. *Geobios new Reports* **9**: 10-13.
19. Saini S.S. and **Atri N. S.** 1990. Two noteworthy taxa of *Lactarius* Pers. From India. *J. Indian bot. Soc.* **69** : 475-476.

20. **Atri N. S.** and Saini S.S. 1990. North Indian *Agaricales*-X *J. Indian bot. Soc.* **69** (3,4): 425-429.
21. **Atri N. S.** and Saini S.S. 1990. North Indian *Agaricales*-VIII. The Section *Compactae* Fr. of *Russula* Pers. *J. Indian bot. Soc.* **69**: 343-346.
22. **Atri N. S.**, Saini S.S. and Mann D.K. 1990. Studies on North West Indian Agarics: The genus *Lactarius* Pers. *Indian Phytopath.* **44** (2) : 185-192.
23. Saini S.S., Kumari S. and **Atri N. S.** 1990. Some New records of Nees: Fr. from Punjab. *Indian J. Mycol. & Plant Pathol.* **20** (1) : 74-75.
24. **Atri N. S.**, Saini. S.S. and Mann D.K. 1991. Further studies on North West Indian Agarics-Systematics of *Lactarius deliciosus* (Fr.) S. F. Gray. *Geobios new Reports* **10**: 106-111.
25. **Atri N. S.**, Saini S. S. and Mann D. K. 1991. Genus *Russula* Pers in Dalhousie. In: *Botanical Researches in India* (N.C. Aery, Ed.) Himanshu Publications Udaipur pp 92-99 (**Book Article**).
26. Saini S.S., **Atri N. S.** and Gupta A. K. 1991. Additional studies on North West Indian Agarics. In: *Indian Mushrooms 1991*(M.C. Nair, Ed.). Proc. of Natl. Symp. On Mushrooms. Kerala Agriculture University, Vellanikkara, Thiruvanthapuram, Kerala pp 7-12 (**Book Article**).
27. **Atri N. S.**, Saini S.S., and Gupta A. K. 1991. Systematic studies on *Agaricus campestris*. *Geobios new Reports* **10**: 32-37.
28. Saini S.S., Kumari S. and **Atri N. S.** 1991. Some new host records for *Alternaria* Nees: Fr. from Punjab. *Geobios new Reports* **10**: 150-151. (**Plant Diseases**).
29. Saini S.S., Kumari S. and **Atri N. S.** 1991. Fungi of Punjab: IV-Five new host records for *Alternaria* Nees: Fr. from India *Geobios new Reports* **10** : 185-186. (**Plant Diseases**).
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31. **Atri N. S.**, Saini S.S. and Kaur G. 1992 Taxonomic Studies on some members of family *Bolbitiaceae* Sing. from Punjab *J. Indian bot. Soc.* **71**: 87-89.
32. **Atri N. S.**, Saini S.S., Saini M. K. and Gupta A. K. 1992 Two new records of the genus *Russula* from India. *Geobios new Reports* **11**: 101-103.
33. Saini S.S., **Atri N. S.** and Gupta A. K. 1992 *Agaricus lanipes* var *macrosporus* var. nov. and *A edulis* (Vitt.) Moll. & J. Schaeff. – A new record for India. *Geobios new Reports* **11**: 109-112.



34. **Atri N. S.** , Saini S.S. and Saini M.K. 1993. Some Russulaceous fungi from Dalhousie (H. P.) – The genus *Russula* Pers. *Geobios new Reports* **12**: 137-140
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40. **Atri N. S.**, Saini S.S. and Kaur G. 1995. Taxonomic studies on North Indian Agarics – The genus *Termitomyces*. *Mushroom Res.* **4** : 7-10.
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42. **Atri N. S.**, Saini S.S. and Kaur Gurjit 1996. Taxonomic studies on the North Indian Agarics – The genus *Lepiota* (Pers. ex Fr.) Gray. *Mushroom Res.* **5** 67-76.
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44. **Atri N. S.**, Saini S.S. and Saini M.K. 1997. Studies on genus *Russula* Pers. from North Western Himalayas. *Mushroom Res.* **6**: (1) 1-6.
45. Saini S.S., **Atri N. S.** and Gupta A.K. 1997. Studies on the Genus *Agaricus* L: Fr. The subgenus *Agaricus* section *Sanguinolenti* Schaeff. et Moller from North West India. *Mushroom Res.* **6** (2): 53-58.
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48. **Atri N. S.**, Kaur Amanjeet and Saini S.S. 2000. Taxonomic Studies on Agarics from Punjab Plains. *Indian J. Mush.* **18** (1&2) 6-14.
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50. **Atri N. S.**, Kaur Amanjeet and Saini S.S. 2001. Mushroom Flora of Patiala – The genus *Agaricus* L. ex Fr. *Indian J. Mush.* **19**: (1&2) 1-9.
51. **Atri N. S.** and Lakhanpal T.N. 2002. Conservation of Mushroom Biodiversity. *Indian J. Mush.* **19** (18): 45-54. **(Review Article)**.
52. Kaur A. and **Atri N. S.** 2002. Some interesting Mushrooms from Punjab Plains. *Mushroom Res.* **11** (1): 1-5.
53. **Atri N. S.** and Kour H. 2003. Some unrecorded light spored mushrooms from Punjab. *Indian J. Mush.* **21** (1 & 2): 1-4.
54. **Atri N. S.** and Kour H. 2003. *Sinotermitomyces* Zang – A new genus record from India *Mushroom Res.* **12** (1): 15-16.
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57. **Atri N. S.**, Kaur A. and Kour H. 2005. Systematics and Sociobiology of Termitophilous Mushrooms from Punjab. In: *The Fungi: Diversity and Conservation in India* ( J.S. Dargan, N. S. Atri & Gurpaul Singh,Eds.). Bishan Singh Mahendra Pal Singh Cannaught Place Dehra Dun. Pp. 159-182**(Book Article)**.
58. **Atri N. S.** and Kour H. 2005. Some unrecorded wild mushrooms of Punjab, India. *Mushroom Res.* **14**(2): 56-59.
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60. Das K., Sharma J.R. and **Atri N. S.** 2006. *Russula* in Hamalaya- 3: A new species of subgenus *Ingratula*. *Mycotaxon* **95**: 271-275.
61. **Atri N. S.**, Saini M. K. and Kaur D. 2007. Three New Leaf Spot Diseases Caused by *Pseudocercospora* Speg. from India. *Journal, Punjab Academy of Sciences* **4**(1&2): 66-68. **(Plant Diseases)**.

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63. Kaur M., Kour H. and **Atri N. S.** 2008. Study of Punjab Mushrooms: Three New Records of Family *Tricholomataceae* from India. *Indian J. Mush.* **26** (1&2): 14-17.
64. Gupta A. K., **Atri N. S.** and Kaur M. 2008. Studies on genus *Agaricus* L.: Fr. – V. The Subgenus *Agaricus* Section *Xanthodermatei* Sing. *Indian J. Mush.* **26** (1&2): 38- 44.
65. **Atri N. S.**, Kaur Munruchi and Kaur Damanjeet 2008-2009. Pathological problems of two common avenue plants from Punjab. *Journal of Punjab Academy of Sciences*. **5-6** (1&2): 107-108. **(Plant Diseases)**.
66. Saini M.K., Singh Yadwinder, Kaur Harvinder and **Atri N. S.** 2008-2009. The Genus *Volvariella* Speg.- From North India. *Journal Punjab Academy of sciences*. **5-6**(1&2): 52-56.
67. **Atri N. S.**, Kour H., Kaur A. and Saini M. K. 2009. Mushroom Wealth of North Eastern Punjab – Their Ecology, Conservation and Screening. In: *Germplasm Diversity and Evaluation – Algae, Fungi & Lichens*. (N. S. Atri, R. C. Gupta, M. I. S. Saggoo & V. K. Singhal, Eds.). Bishen Singh Mahendra Pal Singh, Dehra Dun, U. A. (India).Pp. 59 – 74 **(Book Article)**.
68. **Atri N. S.**, Upadhyay R.C., Singh Rajinder and Saini M.K. 2009. Effect of carbon and nitrogen sources on the vegetative growth of *Lentinus squarrosulus* (Mont.) Singer. *Indian J. Mush.* **27**(1&2):**29-32**.
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72. Kour Harvinder,**Atri N. S.** and Kumari Babita 2010.Studies on genus *Lepiota* (Pers.) Gray from North –West India. *Indian J. Mush.* **28**: (1 &2): 1 – 7.
73. **Atri N. S.**, Kumari Babita and Saini M.K. 2010. Two interesting Lepiotoid mushrooms from North West India. *Mushroom Res.* **19** (2): 82-85.

74. Saini M.K., **Atri N. S.**, Sharma Samidha and Priya Janki 2010. Taxonomic Studies on the Genus *Russula* Pers. from Himachal Pradesh, India. *J. Mycol. Pl. Patho.* **40** (1):52-54.
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76. **Atri N. S.**, Kumar Sapan and Sharma B.M. 2010. *Lentinus torulosus* (Pers.:Fr.) Llyod- a new fungus record from India. *Mushroom Res.* **19** (1): 33-35
77. **Atri N. S.** and Sharma Sapan Kumar. 2011. Qualitative estimation of Cellulase and Lignin modifying enzymes in five wild *Lentinus* species selected from North West India. *Academic Journal of Plant Biology.* **4**(4): 105-109.
78. Buyck Bart and **Atri N. S.** 2011. A *Russula* (*Basidiomycota, Russulales*) with an unprecedented hymenophore configuration from northwest Himalaya (India). *Cryptogamie Mycologie.* **32** (2): 185-190
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88. **Atri N. S.** and Sharma Sapan Kumar. 2012. Study on the mycelial growth pattern of five wild *Pleurotus* species from North West India. *American Eurasian Journal of Scientific Research* **7** (1): 12-15. DOI:10.5829/Idosi.ajejsr.2012.7.1.05.
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#### **B - PAPERS IN PUNJABI:**

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- 179) **ਨ.ਸ. ਅੱਤਰੀ**, ਉਲੀ, ਚਿਲਡਰਨ ਇਨਸਾਈਕਲੋਪੀਡੀਆ, ਪੰਜਾਬੀ ਵਿਕਾਸ ਵਿਭਾਗ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

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5. Kumari, Babita, **Atri, Narender Singh**, and Upadhyay, Ramesh Chandra 2016. *A Monographic study on some Light Spored Agarics of North India*. LAP Lambert Academic Publishing, Germany (**Research Book**).
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7. Thakur, Anil Kumar, Bassi, Susheel Kumar and **Atri, N.S.** 2020. *Mushroom Cultivation Technology*. S. Vinesh and Coy., Jalandhar (**Text Book**).

#### 26. **Other Spheres of Activity:**

Contributed to the corporate life of the University as an elected Executive member, General Secretary and Vice-president of Punjabi University Teacher's Association. Also served as Secretary Faculty Club, Punjabi University, Patiala for two years and Chairman Punjabi University Campus Welfare Committee for more than 5 years, besides being a member and convener of number of important committees constituted by the University from time to time.