

Curriculum Vitae

Dr. Ankit Singla
Jr. Scientific Officer
Regional Centre of Organic Farming
Department of Agriculture, Cooperation and Farmers Welfare
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Personal Profile:

Name : Ankit Singla
Father's Name : Sh. Arun Singla
Date of Birth : 26-07-1987
Permanent Address : House No. 103, Ward No. 14, Chopra Chowk, Narwana- 126116
Distt.-Jind, State- Haryana, India
Gender : Male
Marital Status : Married
Nationality : Indian
Languages known : English, Hindi
Countries visited : Japan, Italy, Malaysia, China and Vietnam
Contact No. : +91-9355387158, +91-8765449067

Career Objectives:

Seeking a platform to utilize my skills and abilities that offers professional growth and a friendly and innovative environment to work. To be pioneer in the field which epitomize myself for an individual.

Area of Specialization:

Environmental Microbiology, Soil Microbiology, Molecular Biology

Educational Qualification:

Degree	Area of Specialization	Name of university/ Board	Passing Year	OGPA/ Percentage
Ph.D.	Soil and Environmental Microbiology	Chiba University, Japan	2014	3.55/4.00 (equivalent to 88 %)
M.Sc.	Microbiology	CCS Haryana Agricultural University, India	2010	7.69/10.00 (equivalent to 76.90 %)
B.Sc.	Life Science	Kurukshetra University, India	2008	74.07 %
Senior Secondary	Medical	C.B.S.E., India	2004	60.60 %
Matriculation	General	C.B.S.E., India	2002	70.40 %

Qualified ICAR-NET (2016-I) in Agricultural Microbiology

Ph.D. thesis title: “Organic matter utilization and environmental impacts after biofuel production”

Advisor: Professor Kazuyuki Inubushi

M.Sc. thesis title: “Utilization of xylose for bioethanol production”

Advisor: Professor Shashi Paroda, Professor Sunder S. Dhamija

Work Experience:

- ❖ Working as Jr. Scientific Officer in Regional Centre of Organic Farming, Bhubaneswar, Ministry of Agriculture & Farmers Welfare, Government of India (since 15 June 2017).
- ❖ Worked as Assistant Professor in Department of Industrial Microbiology, Jacob Institute of Biotechnology & Bio-Engineering, SHUATS (Sam Higginbottom University of Agriculture, Technology and Sciences), India (September 2014 – May 2017; 2 years 8 months).
- ❖ Worked as RA (Research Assistant) in the Lab. of Soil Science, Graduate School of Horticulture, Chiba University, Japan (October 2011 - February 2013; 1 year 5 months).
- ❖ Worked as Skilled Technical Person in Biofertilizer Production Unit of Department of Microbiology, CCSHAU, India (November 2010 - March 2011; 5 months).

Projects Carried:

Worked as Co-PI in the lead centre at SHIATS for the ISRO sponsored project titled “Assessment of Spatial and Temporal Variation of Water Quality in River Ganga using Remote Sensing Technique” (May 2016-May 2017).

Awards/ Fellowships Achieved:

- ❖ Postdoctoral Fellowship (2017) from the Institute of Soil Science, Chinese Academy of Sciences, China (not availed).
- ❖ Best Paper of the Year Award (SAWADA Award-2015) by PAWEES (International Society of Paddy and Water Environment Engineering) for the paper “Effect of biochar on CH₄ and N₂O emission from soils vegetated with paddy. 2014. *Paddy and Water Environment*. 12(1): 239-243.”
- ❖ Young achiever award (2015) by SADHNA (Society for Advancement of Human and Nature), India.
- ❖ Multi-Expert Certification for Ph.D. from Chiba University, Japan.
- ❖ International fellowship for Ph.D. from Indian Council of Agricultural Research (ICAR-IF), New Delhi, India.
- ❖ Young researcher award (2012) from AGSST (Association of Graduate School of Science and Technology), Chiba University, Japan.

- ❖ JSPS (Japanese Society for Promotion of Science) travel support from Chiba University, Japan to attend “International Conference Biochars, Composts and Digestates” 17-20 October 2013, Bari, Italy.
- ❖ BCA (Biochar Cost Action) fellowship to attend “International Conference Biochars, Composts and Digestates” 17-20 October 2013, Bari, Italy (not availed).
- ❖ JSSSPN (Japanese Society of Soil Science and Plant Nutrition) young scientist travel support to attend “The 8th International symposium on Plant-Soil Interactions at Low pH” 18-22 October 2012, Bangalore, India.
- ❖ Chiba University-Tojo alumni association travel support to attend “The 4th International Biochar Congress” 16-20 September 2012, Beijing, China.
- ❖ Merit Stipend during M.Sc. from CCSHAU, Hisar, India.

Workshops/ Trainings Attended:

- Participated in two-week (16-29 August 2016) Faculty Development Programme on “Entrepreneurship Development” sponsored by DST-NIMAT.
- Completed with distinction an eight week online course (14 March 2016) on “Integrated Pest Management” by NPTEL Online Certification (funded by the Ministry of HRD, Government of India).
- Participated in two days (26-27 November 2014) training Programme on “Issues of Intellectual Property Rights, Geographical Indication Protection of Plant Varieties, Farmers Right and Organic Farming” Organized by SHIATS, Allahabad, India.

Professional Memberships/ Additional Responsibilities:

- Permanent honorary board membership of Society for Advancement of Human and Nature (SADHNA), India.
- Honored lifelong membership of International Journal of Farm Sciences.
- Departmental Coordinator (Industrial Microbiology) of Directorate of Innovation, Projects and Consultancy, SHUATS (March 2016-May 2017).
- Laboratory in-charge (Post Graduate lab.) of Department of Industrial Microbiology, SHUATS (January 2016-May 2017).
- DRC-SAC (Departmental Research Committee-Student Advisory Committee) member of Department of Industrial Microbiology, SHUATS (February 2015- May 2017).
- Member of board of studies in SHUATS (January 2015-May 2017).

Techniques Known:

Molecular Techniques (Genomic DNA extraction, PCR, DGGE, Gel Electrophoresis), Basic microbiological techniques (Staining, Plating, Most probable number count, Microscopy), Gas chromatography, Spectrophotometry, Distillation, ELISA.

Computer Skills:

- Certificate in Computer Application (**Family STEP**) from Datapro (covering MS-Office, Internet).
- Certificate in Computer Application (**Core Java**) from Datapro.

Conference Organized:

- Member of working Committee of **the international Conference on “Advancing Frontiers in Biotechnology for Sustainable Agriculture and Health (AFBSAH-2016) Panorama** Organized at SHIATS (25-26 February 2016) Allahabad, India.
- Member of Organizing Committee of **National Conference on Bioinformatics Panorama in Agriculture and Health (NCBPAH-2015)** Organized at SHIATS (05-06 October 2015) Allahabad, India.
- Member of Organizing Committee at the **World Congress on Green Nanotechnology and its Role in Sustainable Agriculture (GNSA-2015)** Organized at SHIATS (26-27 March 2015) Allahabad, India.

Students Guided:

- ❖ M.Sc.: 12 (completed)
- ❖ B.Tech.: 2 (completed)

Journals for which Papers Reviewed:

1) Scientific Reports, 2) BMC Microbiology, 3) Journal of Biotechnology, 4) Agriculture, Ecosystems and Environment, 5) Biology and Fertility of Soils, 6) Environmental Geochemistry and Health, 7) Engineering in Life Sciences, 8) Advances in Microbiology, 9) Soil Science and Plant Nutrition, 10) Agronomy, 11) Environmental Science and Pollution Research, 12) Paddy and Water Environment, 13) Research in Environment and Life Sciences, 14) Letters in Applied Microbiology, 15) Soil Research, 16) CLEAN- Soil, Air, Water, 17) Land Degradation & Development, 18) Catena

Publications:

Total impact factor (Thomson Reuter)	20.89
Total NAAS rating	90.37
Total citations	205
h-index	10
i10-index	10

Original articles:-

1. Narayan Prasad Verma, Inderdeep Kaur, Harison Masih, Ajay Kumar Singh and **Ankit Singla**. 2017. Efficacy of *Trichoderma* in controlling fusarium wilt in tomato (*Solanum lycopersicum* L.). *Research in Environment and Life Sciences*. 10(7): 636-639.
2. Varsha Garg, Kamlesh Kukreja and **Ankit Singla**. 2016. Efficacy of native rhizobial strains for nodulation and plant biomass production in berseem (*Trifolium alexandrinum* L). *AgricINTERNATIONAL*. 3(1-2): 89-95.
3. **Ankit Singla**, Suresh Kumar Dubey, Muhammad Aslam Ali and Kazuyuki Inubushi. 2015. Methane flux from paddy vegetated soil: a comparison between biogas digested liquid and chemical fertilizer. *Wetlands Ecology and Management*. 23(2): 139-148.
4. **Ankit Singla** and Kazuyuki Inubushi. 2015. Effect of slag-type fertilizers on N₂O flux from komatsuna vegetated soil and CH₄ flux from paddy vegetated soil. *Paddy and Water Environment*. 13(1): 43-50.

5. Varsha Garg, Kamlesh Kukreja, Rajesh Gera and **Ankit Singla**. 2015. Production of indole-3-acetic acid by berseem (*Trifolium alexandrinum* L.) rhizobia isolated from Haryana, India. *Agricultural Science Digest*. 35(3): 229-232.
6. Bence Matyas, György Matyas, Mihaly Szendrei, **Ankit Singla**, Yuhua Kong, Janos Katai, Agnes Zsuposne Olah and Kazuyuki Inubushi. 2015. Development of four-column data storage model for data-manipulation of greenhouse gases and soil properties. *Sustainable Agriculture Research*. 4(4): 115-121.
7. Omar Ahmed Omar Amar, Harish Kumar Bajaj, Neena Gupta, **Ankit Singla**, Harison Masih. 2015. Prevalence of Herpes Simplex Virus in pregnant women from gangetic plain region of Allahabad, India. *Advances in Microbiology*. 5(6): 404-408.
8. **Ankit Singla**, Suresh Kumar Dubey, Alpana Singh and Kazuyuki Inubushi. 2014. Effect of biogas digested slurry-based biochar on methane flux and methanogenic archaeal diversity in paddy soil. *Agriculture, Ecosystems and Environment*. 197: 278-287.
9. **Ankit Singla**, Hirokuni Iwasa and Kazuyuki Inubushi. 2014. Effect of biogas digested slurry based-biochar and digested liquid on N₂O, CO₂ flux and crop yield for three continuous cropping cycles of komatsuna (*Brassica rapa* var. perviridis). *Biology and Fertility of Soils*. 50(8): 1201-1209.
10. **Ankit Singla**, Rosnaeni Sakata, Syunsuke Hanazawa and Kazuyuki Inubushi. 2014. Methane production/oxidation potential and methanogenic archaeal diversity in two paddy soils of Japan. *International Journal of Ecology and Environmental Sciences*. 40(1): 49-55.
11. Suresh Kumar Dubey, Alpana Singh, Takeshi Watanabe, Susumu Asakawa, **Ankit Singla**, Hironori Arai and Kazuyuki Inubushi. 2014. Methane production potential and methanogenic archaeal community structure in tropical irrigated Indian paddy soils. *Biology and Fertility of Soils*. 50(2): 369-379.
12. **Ankit Singla** and Kazuyuki Inubushi. 2014. Effect of biochar on CH₄ and N₂O emission from soils vegetated with paddy. *Paddy and Water Environment*. 12(1): 239-243.
13. **Ankit Singla** and Kazuyuki Inubushi. 2014. Effect of biogas digested liquid on CH₄ and N₂O flux in paddy ecosystem. *Journal of Integrative Agriculture*. 13(3): 635-640.
14. **Ankit Singla** and Kazuyuki Inubushi. 2014. Biogas byproducts affecting N₂O, CO₂ and CH₄ production potential of Regosol soil under aerobic incubation. *HortResearch*. 68: 7-13.
15. **Ankit Singla**, Suresh K. Dubey, Hirokuni Iwasa and Kazuyuki Inubushi. 2013. Nitrous oxide flux from Komatsuna (*Brassica rapa*) vegetated soil: a comparison between biogas digested liquid and chemical fertilizer. *Biology and Fertility of Soils*. 49(7): 971-976.
16. **Ankit Singla** and Kazuyuki Inubushi. 2013. CO₂, CH₄ and N₂O production potential of paddy soil after biogas byproducts application under waterlogged condition. *International Journal of Agriculture, Environment and Biotechnology*. 6(2): 233-239.
17. **Ankit Singla**, Shashi Paroda and Sunder S. Dhamija. 2011. Isolation and evaluation of xylose-utilizing yeasts for ethanol production. *Environment and Ecology*. 29(3): 1071-1075.

Review articles:-

18. Devendra Prasad Maurya, **Ankit Singla** and Sangeeta Negi. 2015. An overview of key pretreatment processes for biological conversion of lignocellulosic biomass to bioethanol. *3 Biotech.* 5(5): 597-609.
19. **Ankit Singla**, Shashi Paroda, Sunder S. Dhamija, Sneha Goyal, Kirti Shekhawat, Seigo Amachi and Kazuyuki Inubushi. 2012. Bioethanol production from xylose: problems and possibilities. *Journal of Biofuels.* 3(1): 39-49.

Books:-

1. Varsha Singla and **Ankit Singla**. 2016. Isolation, Characterization and Molecular Diversity of Berseem rhizobia. Published by: LAMBERT Academic Publishing, Germany (ISBN: 978-3-330-00164-0).
2. **Ankit Singla** and Varsha Singla. 2016. Bioethanol from xylose: an ecofriendly approach. Published by: LAMBERT Academic Publishing, Germany (ISBN: 978-3-330-01100-7).
3. **Ankit Singla**. 2014. Biogas Byproducts: Agriculture and Environment. Published by: LAMBERT Academic Publishing, Germany (ISBN: 978-3-659-59219-5).

Book chapters:-

1. **Ankit Singla**, Varsha Singla and Kazuyuki Inubushi. 2016. Agricultural waste to biochar: a new eco-friendly approach in Indian Scenario. In: Trends in Food Technology (accepted).
2. Meenu Goyal, Citu, Pardeep Kumar and **Ankit Singla**. 2017. Homology modeling for drug discovery: an *in silico* approach towards better health. In: Naveen Kumar, Prince Chawla, Ravinder Kaushik and Dinesh Kumar Chatanta (Eds.), Human health and nutrition (pp.167-183). GyanKosh Publishers & Distributors (ISBN 978-81-93275-57-3), Chandigarh, India.

Popular articles:-

1. Rinaldo John, Varsha Singla, Meenu Goyal, Pardeep Kumar and **Ankit Singla**. 2017. Acid Mine Drainage: Sources, Impacts and Prevention. Published by: Biotech Articles (e-publication). <http://www.biotecharticles.com/Environmental-Biotechnology-Article/Acid-Mine-Drainage-Sources-Impacts-and-Prevention-3801.html>
2. Varsha Singla, Harish Kumar and **Ankit Singla**. 2016. Soybean: A legume of nutraceutical and pharmaceutical potential. Published by: Microbiology World Magazine (ISSN: 2350-8774). 3(6): 45-51.

Conference papers / abstracts:-

1. Narayan Prasad Verma and **Ankit Singla**. 2017. Efficacy of Trichoderma in controlling fusarium wilt of tomato (*Solanum lycopersicum* L.). National Conference on Advances In Food Science And Technology “Current Trends and Future Perspectives” (AFST -2017). 24-25 March 2017, Baru Sahib, India.
2. Varsha Singla, **Ankit Singla** and Kamlesh Kukreja. 2017. IAA production potential of rhizobia in berseem (*Trifolium alexandrinum* L.): an agriculturally important fodder crop. Second National Conference on New Horizons in Human Health And Nutrition. 2-3 March 2017, Solan, India.
3. Varsha Singla, **Ankit Singla** and Kamlesh Kukreja. 2017. Efficacy of native rhizobial strains for nodulation and plant biomass production in berseem (*Trifolium alexandrinum* L.). National Conference on Advances In Food Science And Technology “Current Trends and Future Perspectives” (AFST -2017). 24-25 March 2017, Baru Sahib, India.
4. **Ankit Singla** and Kazuyuki Inubushi. 2016. Importance of Livestock in biofuel and agricultural crop production. National Conference on “Food Processing and Technology:

Current Status and Future Prospects (NCFPT-2016). 25-26 February 2016, Solan, India **(Oral Presentation)**.

5. Varsha Garg, Kamlesh Kukreja, **Ankit Singla** and Rajesh Gera. 2015. Genetic diversity of rhizobia associated with berseem (*Trifolium alexandrinum* L.) from Haryana, India. 12th Agricultural Science Congress. 03-06 February 2015, Karnal, India.
6. Bence Matyas, György Matyas, Mihaly Szendrei, **Ankit Singla**, Yuhua Kong, Janos Katai, Agnes Zsuposne Olah and Kazuyuki Inubushi. 2014. Data manipulation of correlations between soil properties and GHG emission. 9th International Soil Congress on “The Soul of Soil and Civilization”. 14-16 October 2014, Antalya, Turkey.
7. **Ankit Singla**, Suresh K. Dubey and Kazuyuki Inubushi. 2013. Effect of varying concentrations of biochar on CH₄ emission and methanogenic community in paddy ecosystem. International Conference Biochars, Composts and Digestates. 17-20 October 2013, Bari, Italy **(Oral presentation)**.
8. **Ankit Singla**, Suresh K. Dubey, Hirokuni Iwasa and Kazuyuki Inubushi. 2013. Biochar influencing methane flux in paddy ecosystem. 4th India-Japan symposium on Emerging Materials for Health, Environment and Safety. 11 October 2013, Tokyo, Japan **(Poster presentation)**.
9. **Ankit Singla**, Hirokuni Iwasa and Kazuyuki Inubushi. 2013. Effect of biogas digested liquid on methane flux without affecting methanogenic community, and plant biomass in paddy ecosystem. Annual meeting of Japanese Society of Soil Science and Plant Nutrition. 11-13 September 2013, Nagoya, Japan **(Oral presentation)**.
10. **Ankit Singla**, Suresh K. Dubey, Hirokuni Iwasa and Kazuyuki Inubushi. 2013. Effect of biochar with various concentrations on CH₄ emission and methanogenic community in paddy agroecosystem. Annual meeting of Japanese Society of Soil Microorganisms. 19-21 June 2013, Tokyo, Japan **(Oral presentation)**.
11. **Singla Ankit**, Inubushi Kazuyuki and Iwasa Hirokuni. 2012. Effects of biogas byproducts on rice yield and soil microbial properties in comparison with chemical fertilizer in an acidic sandy soil. The 8th International symposium on Plant-Soil Interactions at Low pH. 18-22 October 2012, Bangalore, India **(Poster presentation)**.
12. **Ankit Singla**, Hirokuni Iwasa and Kazuyuki Inubushi. 2012. Effects of biochar and biogas by-products on rice yield in comparison with chemical fertilizer in sandy soil. The 4th International Biochar Congress. 16-20 September 2012, Beijing, China **(Oral presentation)**.
13. **Ankit Singla**, Hirokuni Iwasa and Kazuyuki Inubushi. 2012. Impacts of Biogas effluents and chemical fertilizer on nitrous oxide emission from Komatsuna (*Brassica napa*) agroecosystem. 2012. Annual meeting of Japanese Society of Soil Science and Plant Nutrition. 4-6 September 2012, Totori, Japan **(Oral presentation)**.
14. Kazuyuki Inubushi, Hirokuni Iwasa and **Ankit Singla**. 2011. Impacts of Biofuel on Agricultural and Global Environment. 1st annual world congress of Agricultural Biotechnology. 28-30 October 2011, Changchun, China.
15. **Ankit Singla** and Shashi Paroda. 2008. Isolation and Characterization of Wheat Straw Degrading Fungi. 49th annual conference of Association of Microbiologist of India. 18-20 November 2008, New Delhi, India.

Declaration:

I, **Ankit Singla**, hereby declare that all the information given above is true to the best of my knowledge and I assume you that I will prove myself beyond your expectations.

Date: September 11, 2017

Place: **Bhubaneswar**

(ANKIT SINGLA)