

## Curriculum Vitae: Shrishail S. Navi, MSc (Agri), PhD

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### Career

- Sept 1–Present: Research Scientist III, Dept. of Plant Pathology & Microbiology, **Iowa State University** Ames, IA
- Dec 2013–Aug 2020: Associate Scientist, Dept. of Plant Pathology & Microbiology, **Iowa State University** Ames, IA.
- Aug 2004–Dec 2012: Assistant Scientist II, Dept. of Plant Pathology, **Iowa State University** Ames, IA.
- Sept 2002–Aug 2004: Visiting Scientist, Dept. of Plant Pathology, **Iowa State University** Ames, IA.
- Jan–Aug 2002: Scientific Officer, USAID-Funded Crop Residues Project, **ICRISAT**, India.
- June 1999–Jan 2002: Scientific Officer, Genetic Resources and Enhancement Program, **ICRISAT**, India.
- Jan 1994–May 1999: Research Associate II, Cereals Pathology, Crop Protection Division, **ICRISAT**, India.
- Sept 1987–Dec 1993: Research Associate I, Millet Pathology, Cereals Program, **ICRISAT**, India.

### Professional training

- International course on identification of fungi of agricultural and environmental significance and preservation technique for filamentous fungi and culture collection management, 1996, **CAB International** United Kingdom.
- Liquid and solid fermentation of biocontrol agents, November 2017, UAS, Dharwad, Karnataka, India.

### Awards & Honors

- July 2020: One of the invited editors for book(s) by Springer, New Delhi, India.
- January (2018-2020). Honorary consultant, Daqing Ruizefeng Agricultural Science & Technology, Daqing, PR China.
- November (2017). Chief Guest, inaugural session of *REFRESHER COURSE* - Innovative Strategies for Diagnosis and Management of Plant Diseases (ISDMPD) December 8-28, UAS Dharwad.
- April (2016). Elsevier reviewer recognition from the editors of *Field Crops Research*, Elsevier, Amsterdam, The Netherlands.
- January (2015-Present). Editor, *Indian Phytopathology*, <http://ipsdis.org/editorial-board>, IARI, New Delhi, India.
- January (2012). P.P. Singhal Memorial Pesticides India Industries Award for the paper “Effect of foliar and seed treatment fungicides on soybean diseases and yield response”, 3<sup>rd</sup> Global Conference & Dr. Norman E. Borlaug Memorial Celebrations, Rajasthan College of Agriculture and Maharana Pratap University of Agriculture & Technology, Udaipur, India 313 001, January 10-13.
- November (2005). Best paper award for “Seedling inoculation screening technique to identify resistance to soybean sudden death syndrome caused by *Fusarium solani* f. sp. *glycines*”, November 25–29, Global Conference II on Plant Health-Global Wealth, organized by Dept. of Plant Pathology, Rajasthan College of Agriculture, and Maharana Pratap University of Agriculture & Technology, Udaipur, India 313 001.
- February (1998). Fellow **Indian Phytopathological Society** - a national society associated with International Society for Plant Pathology (ISPP), Indian Agricultural Research Institute, New Delhi, India.
- November (1997). Certificate of appreciation for ten year effective and loyal service, **ICRISAT**, India.
- February (1997). Link Scientist **CAB International** United Kingdom.
- 1984–86: Indian Council of Agricultural Research (ICAR) junior research fellowship for M.Sc. Agriculture in Plant Pathology.
- 1980–84: ICAR merit fellowship for B.Sc. Agriculture in Plant Pathology.

### Reviewer & Editor

- 2005–Present: Reviewer of Journal articles from: *Annals of Applied Biology*, *Archives of Phytopathology and Plant Protection*, *Crop Protection*, *Indian Phytopathology*, *International Sorghum and Millets Newsletter*, *Journal of Phytopathology*, *Journal of Plant Pathology*, *Mycopathologia*, *Phytopathology*, *Phytoprotection*, *PLOS-One*, *Plant Disease*, *SABRAO Journal of Breeding and Genetics*.
- January 2015-2020: Editor, *Indian Phytopathology*, <http://ipsdis.org/editorial-board>, IARI, New Delhi, India.

### Publications summary

**Soybean** and other legumes and oil seed crops: JA **27**; extension articles **35** and Abstracts **28**; Book chapters/Books: **15**; Invited talks **21**; **Sorghum**: JA **29**; Abstracts & proceedings **22**, and extension articles 1; **Pearl millet**: **16**, and **Wheat**: **15**.

## Journal articles: SOYBEAN and other legumes and oil seed crops

1. Yun, H.Y., Ji Y. Min, J.Y and **Navi, S.S.** (2020). Genetic diversity of *Gymnosporangium asiaticum* in china and Korea based on amplified fragment length polymorphism (AFLP). *Biochem. Cell. Arch.* **20**: 201-206. [https://www.researchgate.net/publication/341071100\\_GENETIC\\_DIVERSITY\\_OF\\_GYMNOSPORANGIUM\\_ASIATICUM\\_IN\\_CHINA\\_AND\\_KOREA\\_BASED\\_ON\\_AMPLIFIED\\_FRAGMENT\\_LENGTH\\_POLYMORPHISM\\_AFLP](https://www.researchgate.net/publication/341071100_GENETIC_DIVERSITY_OF_GYMNOSPORANGIUM_ASIATICUM_IN_CHINA_AND_KOREA_BASED_ON_AMPLIFIED_FRAGMENT_LENGTH_POLYMORPHISM_AFLP)
2. **Navi, S.S.** and Yang, X.B. (2020). Assessment of foliar fungicides as protective seed treatments on *Rhizoctonia* root rot, sudden death syndrome and white mold and yields of soybean. (submitted to Crop Protection, September 9, 2019).
3. **Navi, S.S.**, Huynh, T., Mayers, C.G., and Yang, X.B. (2019). Diversity of *Pythium* spp. associated with soybean damping-off, and management implications by using foliar fungicides as seed treatments. *Phytopathology Research*. 1:8 <https://doi.org/10.1186/s42483-019-0015-9>
4. Huynh, T., **Navi, S.S.**, Li, X. and Yang, X.B. (2019). Treatments with *Bradyrhizobium japonicum* on germinated or non-germinated seeds reduce Occurrence of Soybean Sudden Death Syndrome on early planted soybean. *Can. J of Plant Pathology* (in Press).
5. Huynh, T., **Navi, S.S.**, Li, X. and Yang, X.B. (2019). Effects of *Bradyrhizobium japonicum* seed treatments on soybean sudden death syndrome in irrigated and non-irrigated fields. *Crop Protection* (in Press).
6. Guo, D., Jing, J., Hu, W., **Navi, S.S.** and Jing, L. (2016). Internal transcribed spacer sequence analysis of *Puccinia helianthi* Schw. and its application in detection of sunflower rust. *J Phytopathol.* **164**:141–146. doi: [10.1111/jph.12404](https://doi.org/10.1111/jph.12404)
7. Guo, D., Jing, L., Hu, W., Li, X. and **Navi, S.S.** (2016). Race identification of sunflower rust and the reaction of host genotypes to the disease in China. *Eur J Plant Pathol.* **144**:419–429. <https://doi.org/10.1007/s10658-015-0778-5>
8. **Navi, S.S.** and Yang, X.B. (2016). Impact of crop residue and corn-soybean rotation on the survival of *Fusarium virguliforme* a causal agent of sudden death syndrome of soybean. *J. Plant Pathol. Microbiol.* **7**: 330. doi:10.4172/2157-7471.1000330
9. Jing, L., **Navi, S.S.** and Yang, X.B. (2015). Effects of colonization by different strains of *Coniothyrium minitans* on the viability of sclerotia of *Sclerotinia sclerotiorum*. *Biocontrol Sci. Technol.* **25**:460-474. <https://doi.org/10.1080/09583157.2014.989386>
10. Jing, L., Xu, X., Jing, J., Li, L. and **Navi, S.S.** (2014). Determination of physiological races and evaluation of sunflower for resistance to *Puccinia helianthi* Schw. *Journal of Phytopathology*, **63**:507-512 doi: 10.1111/jph.12296
11. **Navi, S.S.** (2013). Effect of foliar fungicides at R3 growth stage on soybean disease and yield. *Integrated Crop Management News*. Iowa State Research Farm Progress Report Paper 2038. [http://lib.dr.iastate.edu/farms\\_reports/2038](http://lib.dr.iastate.edu/farms_reports/2038)
12. Mbofung, G.Y. C., Harrington, T.C., Steimel, J., **Navi, S.S.**, Yang, X.B. and Leandro, L.F. (2012). Genetic structure and variation in aggressiveness in *Fusarium virguliforme* in the Midwest United States. *Canadian journal of plant pathology.* **34**:83-97 <http://www.tandfonline.com/doi/pdf/10.1080/07060661.2012.664564>
13. **Navi, S.S.** and Yang, X.B. (2008). Foliar symptom expression in association with early infection and xylem colonization by *Fusarium virguliforme* (formerly *F. solani* f. sp. *glycines*), the causal agent of soybean sudden death syndrome. Online. *Plant Health Progress* doi: 10.1094/PHP-2008-0222-01-RS. <http://www.plantmanagementnetwork.org/php/elements/sum.asp?id=6904&photo=3992>
14. Yang, X.B., **Navi, S.S.**, Pecinovsky, K. and Shriver, J. (2008). Use of fungicides to control soybean foliar diseases in Iowa: a 6-year study. Pages, 161-176, In: Proceedings of 2008 Integrated Crop Management Conference, Iowa state University. <https://crops.extension.iastate.edu/cropnews/2008/11/use-fungicides-control-soybean-foliar-diseases-6-year-summary>
15. Mbofung, G.Y. C., Harrington, T.C., Steimel, J., Yang, X.B., **Navi, S.S.** and Leandro, L.F. (2008). Understanding differential virulence within *Fusarium virguliforme* using multiloci fingerprint analyses. *Phytopathology* **98**:S101 [http://www.apsnet.org/meetings/Documents/2008\\_Meeting\\_Abstracts/a08ma516.htm](http://www.apsnet.org/meetings/Documents/2008_Meeting_Abstracts/a08ma516.htm)
16. Mo, J., Guo, T., **Navi, S.S.**, Li, Xun, and Yang, X.B. (2007). A simple detached leaf culture technique for study of soybean foliar diseases. *Soybean Science*, **26**:0740-0744. <http://www.cqvip.com>
17. Babu, P.H., Tonapi, V.A., Ansari, N.A., Varanavasiappan, S., Reddy, C.H.R., **Navi, S.S.** and Seetharama, N. (2007). [Studies on seed colouring in redgram, blackgram and bengalgram](http://oar.icrisat.org/918/). *Seed Research*, **35**:58-65. <http://oar.icrisat.org/918/>
18. Robertson, A., Nutter, F.W., Esker, P.D., Shriver, J. and **Navi, S.S.** (2006). The impact of foliar diseases of soybean in Iowa during the 2005 growing season. *Phytopathology* **96**:S98 <http://apsnet.org/meetings/2006/abstracts/a06ma628.htm>
19. Yang, X.B. and **Navi, S.S.** (2006). Strategies for management of soybean sudden death syndrome and white mold. Pages 105-112, In: Proceedings of the 18<sup>th</sup> Annual Integrated Crop Management Conference, November 29-30, Iowa State University, Ames, Iowa. <http://ssnavi.public.iastate.edu/2006-ICM-article-Yang-Navi.pdf>
20. Tonapi, Vilas A., Harinath Babu, Ansari, N.A., Varanavasiappan, S., Ravinder Reddy Ch., **Navi, S.S.** and Seetharama, N. (2006). Studies on seed coloring in soybean and tomato. *International Journal of Agricultural Sciences*. II: 219–224. <http://oar.icrisat.org/5316/>
21. Ravinder Reddy, Ch, Tonapi, Vilas A., Varanavasiappan, S., **Navi, S.S.** and Jayarajan, R. (2006). Management of urd bean leaf crinkle virus in urd bean (*Vigna mungo*). *International Journal of Agricultural Sciences*. II:22–28. <http://oar.icrisat.org/5308/>
22. Ravinder Reddy, Ch, Tonapi, Vilas A., Varanavasiappan, S., **Navi, S.S.** and Jayarajan, R. (2006). Influence of plant age on infection and symptomatological studies on urd bean leaf crinkle virus in urd bean (*Vigna mungo*). *International Journal of Agricultural Sciences*. I:1–6, <http://oar.icrisat.org/5305/>
23. Ravinder Reddy, Ch., Tonapi, V.A., Varanavasiappan, S., **Navi, S.S.** and Jayarajan, R. (2006). [Histopathological Studies on Urdbean, Vigna mungo Infected by Urdbean Leaf Crinkle Disease](http://oar.icrisat.org/5304/). *Indian J. Plant Prot.* **34**:62-65. <http://oar.icrisat.org/5304/>

24. Tonapi, V.A., Babu, P.H., Ansari, N.A., Varanavasiappan, S., Ravinder Reddy, Ch., **Navi, S.S.** and Seetharama, N. (2006). [Studies on seed colouring in castor, sunflower and safflower](http://oar.icrisat.org/5314/). *Journal of Oilseeds Research*, **23**:72-80. <http://oar.icrisat.org/5314/>
25. Yang, X.B. and **Navi, S.S.** (2005). First report of charcoal rot (*Macrophomina phaseolina*) epidemics in soybean (*Glycine max*) in Iowa. *Plant Dis.* **89**:526. <https://apsjournals.apsnet.org/doi/abs/10.1094/PD-89-0526B>
26. Ravinder Reddy, Ch., Tonapi, V.A., Varanavasiappan, S., **Navi, S.S.** and Jayarajan, R. (2005). Studies on seed transmission of urd bean leaf crinkle virus on *Vigna mungo* (L.) Hepper. *Indian J. Plant Prot.* **23**:241–245. <http://oar.icrisat.org/5318/>
27. Yang, X.B., **Navi, S.S.** and Shriver, J. (2003). Biology and management of soybean charcoal rot. Pages 55–60, *In*: Proceedings of the 15<sup>th</sup> Integrated Crop Management Conference, December 3–4, Iowa State University, Ames, Iowa, USA. Integrated Crop Management.

### Extension articles: SOYBEAN

1. **Navi, S.S.**, Liu, R. and Yang, X.B. (2019). Effect of soybean seed treatments on diseases and yield in Northeast Iowa. ISRF19-16, 30, *Iowa State University Research and Demonstration Farms Progress Reports*: <https://www.iastatedigitalpress.com/farmreports/article/id/11502/>
2. **Navi, S.S.**, Huynh, T. and Yang, X.B. (2018). Soybean foliar fungicide evaluation in Northeast Iowa. ISRF17-13:49-52, *Farm Progress Reports*: Vol. 2017: iss1, Article 129. <https://lib.dr.iastate.edu/farmprogressreports/vol2017/iss1/129>
3. **Navi, S.S.**, Huynh, T. and Yang, X.B. (2016). Effect of Endura, Priaxor, and Cobra on soybeans with white mold. *Farm Progress Reports*: Vol. 2015, Article 83. <http://lib.dr.iastate.edu/farmprogressreports/vol2015/iss1/83>
4. **Navi, S.S.**, Yang, X.B., Li, X. and Jing, L. (2015). Effect of pyraclostrobin spray either solo or in combination with other chemicals on soybean diseases and yield response in Iowa from 2003 to 2013. APS annual meeting, Aug 1-5, Pasadena, CA, USA, in *Phytopathology*, [http://www.apsnet.org/meetings/Documents/2015\\_meeting\\_abstracts/aps2015abP480.htm](http://www.apsnet.org/meetings/Documents/2015_meeting_abstracts/aps2015abP480.htm)
5. **Navi, S.S.** (2015). Evaluation of application rates of fungicides on soybean diseases and yields. ISRF14-13, *Iowa State Research Farm Progress Reports*. 2209. [http://lib.dr.iastate.edu/farms\\_reports/2209](http://lib.dr.iastate.edu/farms_reports/2209)
6. **Navi, S.S.** (2014). Efficacy tests of foliar fungicides on soybean diseases and yield during 2012 and 2013 growing seasons in Northeast Iowa. *Integrated Crop Management News*. [http://works.bepress.com/shrishail\\_navi/33](http://works.bepress.com/shrishail_navi/33)
7. **Navi, S.S.** (2014). Evaluation of foliar fungicides at different growth stages on soybean diseases and yield. ISRF13-13:53-55. *Iowa State Research Farm Progress Reports*. 2036. [https://lib.dr.iastate.edu/farms\\_reports/2036](https://lib.dr.iastate.edu/farms_reports/2036)
8. **Navi, S.S.** (2014). Effect of foliar fungicides at R3 growth stage on soybean diseases and yield. ISRF13-13:56-58. *Iowa State Research Farm Progress Reports*. 2038. [https://lib.dr.iastate.edu/farms\\_reports/2038](https://lib.dr.iastate.edu/farms_reports/2038)
9. **Navi, S.S.** (2014). Efficacy tests of foliar fungicides on soybean diseases and yield during 2012 and 2013 growing seasons in Northeast Iowa. *Integrated Crop Management News*, Iowa State University. Feb 2, 2014. <http://www.extension.iastate.edu/CropNews/2014/0221navi.htm>
10. **Navi, S.S.**, Yang, X.B. and Pecinovsky, K. (2013). Evaluation of Omega 500F and IKF-5411 for the control of Sclerotinia stem rot of soybean and yield response. ISRF12-13:50-51. <http://fpr.extension.iastate.edu/pdf/2012/EvaluationOmega.pdf>
11. **Navi, S.S.**, Jing, L. Yang, X.B. and Pecinovsky, K. (2012). Effect of seed treatment and foliar fungicides on soybean white mold and yield response ISRF11-13:62-64. [https://lib.dr.iastate.edu/cgi/viewcontent.cgi?referer=https://www.google.com/&httpsredir=1&article=1078&context=farms\\_reports](https://lib.dr.iastate.edu/cgi/viewcontent.cgi?referer=https://www.google.com/&httpsredir=1&article=1078&context=farms_reports)
12. Yang, X.B. and **Navi, S.S.** (2010). Scouting for soybean seedling diseases. *Integrated Crop Management News*, Iowa state University. <http://www.extension.iastate.edu/CropNews/2010/0601yang.htm>
13. Yang, X.B., Linus Li. and **Navi, S.S.** (2010). Scout for early summer diseases. *Integrated Crop Management News*, Iowa state University <http://www.extension.iastate.edu/CropNews/2010/0617yang.htm>
14. Yang, X.B. and **Navi, S.S.** and Linus L. (2010). White mold mushroom show up. *Integrated Crop Management News*, Iowa state University <http://www.extension.iastate.edu/CropNews/2010/0708yang.htm>
15. Yang, X.B., **Navi, S.S.** (2010). Good Harvest in Corn Should Help Manage Soybean SDS. *Integrated Crop Management News*, Iowa state University. <http://www.extension.iastate.edu/CropNews/2010/0910yang.htm>
16. Yang, X.B. and **Navi, S.S.** (2010). Good harvest in corn should help manage soybean SDS - 2010-09-14. <http://www.south-ernstates.com/sscinfor/news/2010/09/sudden-death-syndrom-sb.aspx>
17. Yang, X.B. and **Navi, S.S.** (2010). How fall tillage affects soybean diseases. *Farm Progress Wallaces Farmer* <http://www.wallacesfarmer.com/story.aspx/how/fall/tillage/affects/soybean/diseases/9/43987>
18. Yang, X.B. and **Navi, S.S.** (2010). Effects of fall tillage on soybean white mold and sudden death syndrome in 2011. *Integrated Crop Management News*, Iowa state University. <http://www.extension.iastate.edu/CropNews/2010/1115yang.htm>
19. Yang, X.B. and **Navi, S.S.** (2010). Effects of fall tillage on soybean white mold and sudden death syndrome in 2011. Published in great lakes hybrids. <http://www.greatlakeshybrids.com/posts/4445-effects-of-fall-tillage-on-soybean-white-mold-and-sudden-death-syndrome-in-2011>
20. Yang, X.B. and **Navi, S.S.** (2010). Fall tillage impacts soybean diseases. *The Field Position Latham Hi-tech seeds* <http://www.thefieldposition.com/2010/11/fall-tillage-impacts-soybean-diseases/>
21. **Navi, S.S.**, Yang, X.B. and Pecinovsky, K. (2009). Efficacy results of fungicides on soybean white mold control. ISRF09-13, Iowa State University. <https://farms.ag.iastate.edu/sites/default/files/EfficacyResults.pdf>
22. Yang, X.B. and **Navi, S.S.** (2009). A summer 2009 update on diseases in Iowa soybean. *Integrated Crop Management News*, Iowa State University. <http://www.extension.iastate.edu/CropNews/2009/0810yangnavi.htm?print>

23. Yang, X.B. and **Navi, S.S.** (2009). More on soybean white mold this year. Integrated Crop Management News, Iowa state University. <http://www.extension.iastate.edu/CropNews/2009/0814yangsavi.htm>
24. Yang, X.B., **Navi, S.S.**, Shriver, J. and Pecinovsky, K. (2009). Effects of foliar fungicides on soybean yield. ISRF08-13 <http://www.ag.iastate.edu/farms/08reports/Northeast/EffectofFoliar.pdf>
25. Yang, X.B., **Navi, S.S.** and John Shriver (2008). Use of fungicides to control soybean foliar diseases: a six year summary. Integrated Crop Management News, Iowa state University. <http://www.extension.iastate.edu/CropNews/2008/1117yang.htm>
26. Leandro, L., Yang, X.B., Robertson, A., **Navi, S.S.**, Shriver, J. and Pecinovsky, K. (2007). Evaluation of soybean fungicides in 2006. ISRF06-13, [http://lib.dr.iastate.edu/farms\\_reports/912](http://lib.dr.iastate.edu/farms_reports/912)
27. Yang, X.B. and **Navi, S.S.**, (2006). Strategies for management of soybean sudden death syndrome and white mold. 2006 Integrated Crop Management Conference, Iowa State University - 105-112 <http://ssnavi.public.iastate.edu/2006-ICM-article-Yang-Navi.pdf>
28. Robertson, A., Shriver, J., **Navi, S.S.** and Yang, X. B. (2006). 2005 trials: Efficacy of soybean rust fungicides on other fungal diseases in Iowa. Iowa State University, Integrated Crop Management Newsletter IC-496 (3): 46–47. <http://www.ipm.iastate.edu/ipm/icm/2006/2-27/fungicides.html>,
29. Yang, X.B., **Navi, S.S.** and Pecinovsky, K. (2005). Evaluation of Fungicides for the Control of Cercospora Leaf Spot, White Mold, and Brown Spot of Soybean. ISRF04-13. Iowa State Research Farm Progress Reports. 1235. [http://lib.dr.iastate.edu/farms\\_reports/123](http://lib.dr.iastate.edu/farms_reports/123).
30. Yang, X.B. and **Navi, S.S.** (2004). **Note for fall soybean diseases**. Iowa State University, Integrated Crop Management Newsletter, IC-492 (20): 112–113.
31. Yang, X.B., Shriver, J. and **Navi, S.S.** (2004). **Management of soybean charcoal rot**. Iowa State University, Integrated Crop Management Newsletter, IC-492 (1):
32. Reddy, C.R., Tonapi, V.A., Varnavasiappan, S., **Navi, S.S.** and Jayarajan, R. (2004). Management of leaf crinkle virus of urd bean using botanicals. Page #138, *In: Proceedings of international conference on agricultural heritage of Asia, 6–8 Dec 2004.*
33. Yang, X.B., **Navi, S.S.** and Pedersen, P. (2003). **Charcoal rot – a disease new to Iowa farmers**. Iowa State University, Integrated Crop Management Newsletter, IC-490 (21): 149–150.
34. Yang, X.B. and **Navi, S.S.** (2003). **New insights on early planting and SDS**. Iowa State University, Integrated Crop Management Newsletter, IC-490 (4):35.
35. Yang, X.B. and **Navi, S.S.** (2003). **Charcoal rot - a dry weather disease**. Iowa State University, Integrated Crop Management Newsletter, IC-490 (22): 166–167.

### Abstracts: SOYBEAN and other legumes and oil seed crops

1. Huynh, T., **Navi, S.S.** and Yang, X.B. (2018). Effect of seed treatment with *Bradyrhizobium japonicum* on soybean sudden death syndrome (*Fusarium virguliforme*) in irrigated and natural fields (Abstr.). *Phytopathology* 108:S1.1 <https://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-108-10-S1.1>
2. **Navi, S.S.**, Huynh, T., Mayers, C.G., Pecinovsky, K.T., Licht, M.A. and Yang, X.B. (2017). Diversity of *Pythium* spp. associated with soybean damping off in northeast Iowa and management options either in early or late plantings. Pages, 214-215, *In: Abstracts of the International conference on Advances in disease management for human welfare*, Nov 21-23, Gulbarga University, Kalaburagi, Karnataka, India in collaboration with Hyderabad Karnataka Region Development Board, Kalaburagi, Karnataka, India <http://admhw.in/wp/>
3. Huynh, T., Yang, X., **Navi, S.** and Li, X. (2016). Reduction of soybean sudden death syndrome (*Fusarium virguliforme*) by seed treatment with *Bradyrhizobium japonicum* (Abstr). APS annual meeting, July 30-Aug 3, Tampa, Florida, [http://www.apsnet.org/meetings/Documents/2016\\_meeting\\_abstracts/aps2016\\_374.htm](http://www.apsnet.org/meetings/Documents/2016_meeting_abstracts/aps2016_374.htm)
4. **Navi, S.** and Yang, X.B. (2016). Summary of 11-year field trials of using HeadsUp - a Saponin plant protectant to manage soybean diseases (Abstr). APS annual meeting, July 30-Aug 3, Tampa, Florida, [http://www.apsnet.org/meetings/Documents/2016\\_meeting\\_abstracts/aps2016\\_367.htm](http://www.apsnet.org/meetings/Documents/2016_meeting_abstracts/aps2016_367.htm)
5. **Navi, S.S.**, Huynh, T., Li, X. and Yang, X.B. (2016). Effects of biocontrol agents in combination with bioAPT microbial carrier as seed treatment on soybean diseases and yields (Abstr). Page 64. *in: Khetarpal, R.K., Mondal, K.K., Dubey, S.C., Rao, G.P., Celia Chalam, V., Singh, N., et al.* editors. IPS 6<sup>th</sup> International Conference on Plant, Pathogens and People, Feb 23-27, 2016, New Delhi, India. pp 676.
6. **Navi, S.S.** (2015). Evaluation of foliar fungicides as protective seed treatments for management of soybean diseases. Pages 53-62, *In: proceedings of the 18<sup>th</sup> National Conference of Indian Aerobiological Society on Impact of Aerosols on Health, Heritage and Environment NCI AHHE-2015*, September 28-30, Tumkur University, Tumkur, Karnataka, India.
7. **Navi, S.S.**, Jing, L., Yang, X. and Li, X. (2014). Assessment of foliar fungicides on soybean diseases and yield advantage during 2011, 2012 and 2013 in Iowa. (Abstract). Presented at the 2014 APS-CPS joint meeting, Aug 9-13, Minneapolis, Minnesota. [http://www.apsnet.org/meetings/Documents/2014\\_meeting\\_abstracts/aps2014abP175.htm](http://www.apsnet.org/meetings/Documents/2014_meeting_abstracts/aps2014abP175.htm)
8. **Navi, S.S.**, Jing, L. and Yang, X. (2014). Report of recovery of soybean from sudden death syndrome caused by *Fusarium virguliforme*. *Phytopathology*, **104**: (Supplement 3), No. 11, 2014 S3.173, *In: 2014 North Central Division Meeting Abstracts*, North Central American Phytopathological Society Meeting, June 11-13, UWEX Pyle Conference Center – 702 Langdon Street – Madison, WI 53706 <http://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-104-11-S3.165>
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## Book chapters & Books

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2. Jahagirdar, S., Kambrekar, D.N., Navi, S.S. and Kunta, M. (2019). Plant growth promoting fungi: Diversity and classification. Pages 25–34, In: *Bioactive molecules in plant immune defense*. Springer, Cham (Eds. Sudisha Jogaiah and Mostafa Abdelrahman). [https://doi.org/10.1007/978-3-030-27165-7\\_2](https://doi.org/10.1007/978-3-030-27165-7_2)
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### Lectures: Invited/Keynote/Guest

1. **Navi, S.S.** (2020). Honorary guest at the Global and Regional Alumni Meet (GRAM) 2020, under ICAR-NAHEP-IDP, Feb 29-March 1. UAS Dharwad, <http://www.uasd.edu/> Karnataka, India, (Keynote).
2. **Navi, S.S.** (2020). Invited speaker (Management of major diseases of soybean) at the Brazilian agriculture growers, retailers and cooperatives, and Ag events. Brazil, Feb 2-9, 2020.
3. **Navi, S.S.** (2018). Management of soybean diseases using biocontrol agents, Presented at *Refresher Course - ICAR Sponsored Winter School*, Nov 13-Dec 3, 2018. UAS Dharwad, <http://www.uasd.edu/> Karnataka, India, (Keynote)
4. **Navi, S.S.** (2018). Management of soybean diseases using biocontrol agents, Presented at *Refresher Course - ICAR Sponsored Winter School*, Dec 3, 2018. UAS Dharwad, <http://www.uasd.edu/> Karnataka, India, (Keynote)
5. **Navi, S.S.** (2017). Challenges and opportunities in management of major yield reducing soil borne pathogens of beans, International workshop on coarse cereals production and processing, Dec 14-17, Daqing, China, (Keynote).
6. **Navi, S.S.** (2017). Fast and slow growing biocontrol agents in management of major yield reducing pathogens of soybean, Presented at *Refresher Course - Innovative Strategies for Diagnosis and Management of Plant Diseases (ISDMPD)*, December 8-28, UAS Dharwad, <http://www.uasd.edu/> Karnataka, India, (Keynote).
7. **Navi, S.S.** (2016). Efficacy tests of chemicals and non-chemicals against major soil borne pathogens, Feb 27, Dept. of Botany, Hansraj College, <http://www.hansrajcollege.ac.in/> University of Delhi, Delhi, India, (Guest lecture).
8. **Navi, S.S.** (2016). Interaction between biocontrol agents and some of the major soybean pathogens, Presented at the 14<sup>th</sup> International *Trichoderma* and *Gliocladium* workshop, Nov 27-30, College of Agriculture, Nagpur, India. Organized by PDKV Akola, Association of Plant Pathologists, and Indian Phytopathological Society, (Keynote).
9. **Navi, S.S.** (2016). Interaction between biocontrol agents and some of the major soybean pathogens. Dec. 5, Dept. of Plant Pathology, UAS Dharwad, Karnataka, India (Guest lecture).
10. **Navi, S.S.** (2015). Evaluation of foliar fungicides as protective seed treatments for management of soybean diseases. Pages 53-62, *in: proceedings of the 18<sup>th</sup> National Conference of Indian Aerobiological Society on Impact of Aerosols on Health, Heritage and Environment NCI AHHE-2015*, September 28-30, (Invited).
11. **Navi, S.S.** and Yang, X.B. (2012). Effect of foliar and seed treatment fungicides on soybean diseases and yield response” Presented in PP Singhal memorial P.I Award competition session, January 10-13, 3<sup>rd</sup> Global Conference and Dr. Norman E. Borlaug Memorial Celebrations held at Rajasthan College of Agriculture, and Maharana Pratap University of Agriculture & Technology, Udaipur, India 313 001, (Invited).
12. **Navi, S.S.**, Yang, X.B. (2010). Effects of seed treatments on yields of soybean. Presented at the Seed Treatment Workshop, *Iowa State University* Ames, IA 50011, July 1, (Invited).
13. **Navi, S.S.** (2009) December. “Impact of Crop Diseases on Growers’ Pocket”. Dept. of Plant Pathology, College of Agriculture Vijayapura, Univ. of Agricultural Sciences Dharwad, Karnataka, India 586 101, (Guest lecture).
14. **Navi, S.S.** (2009) December. “Impact Assessment due to Crop Diseases”, Dept. of Biotechnology, Univ. of Agricultural Sciences Dharwad, Karnataka, India 580 005, (Guest lecture).

15. **Navi, S.S.**, Yang, X.B., Thakur, R.P. and Rao, V.P. (2008). Sorghum grain mold: Challenges and benefits of risk assessment for food and feed safety. Pages, 321-326, *In: Proceedings of the 1<sup>st</sup> All Africa Congress on Biotechnology; theme Harnessing the potential of biotechnology for food security and socioeconomic development in Africa, September 22-26, Grand Regency Hotel, Nairobi, Kenya, (Invited)* <http://www.absfafrica.org/downloads/Congress%20 Proceedings Publication.pdf>
16. **Navi, S.S.**, Yang, X.B., Thakur, R.P. and Rao, V.P. (2007). Risk assessment of grain mold for food and feed safety of sorghum grain. Presented at the 2<sup>nd</sup> Asian Congress of Mycology and Plant Pathology, Dec. 19–22, Dept. of Botany, Osmania University, Hyderabad 500 007, Andhra Pradesh, India. S-11.O-389-P402 (Invited).
17. **Navi, S.S.** and Tonapi, V.A. (2005). **Emerging Diseases of Sorghum: Potential Risks and Management Options**. Global Conference II on Plant Health-Global Wealth, Nov. 25–29, Dept. of Plant Pathology, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture & Technology, Udaipur, India 313 001. SXIII-P5, 241, (Invited).
18. **Navi, S.S.** (2003). **Mold complex of grain sorghum: Challenges and realities in the Semi-Arid tropics**. Seminar presented in Plant Pathology Dept. *Iowa State University*, Ames, Iowa, USA (Seminar).
19. **Navi, S.S.**, Tonapi, V. and Bandyopadhyay, R. (2002). Grain molds and quality attributes of sorghum seed. Presented at the XI<sup>th</sup> National Seed Seminar on quality seed to enhance agricultural profitability, jointly organized by ISST New Delhi and Univ. of Agric. Sciences, Dharwad, at UAS Dharwad 580 005 Karnataka, Jan. 18–20, Pages 166–172, (Invited).
20. **Navi, S.S.** and Bandyopadhyay, R. (2000). Scenario of plant diseases under changing weather conditions. Presented at 22<sup>nd</sup> Indian Geography Congress, Dept. of studies in geography, Karnataka University Dharwad 580 007, December 22–24, Page no 25, (Invited).
21. **Navi, S.S.** (2001). Cereal diseases: Challenges and opportunities. Presented at the Dept. of plant pathology, College of Agriculture, Univ. of Agril. Sciences, Dharwad, P.B. No. 24, Raichur 584 101, Karnataka, India, Jan. 16, (Guest lecture).

### Journal articles: SORGHUM

1. **Navi, S.S.**, Yang, X.B., Thakur, R.P. and Rao, V.P. (2008). Sorghum grain mold: Challenges and benefits of risk assessment for food and feed safety. Pages 321-326, *In: Proceedings of the 1<sup>st</sup> All Africa Congress on Biotechnology; theme harnessing the potential of biotechnology for food security and socioeconomic development in Africa, September 22-26, Grand Regency Hotel, Nairobi, Kenya.* <http://www.absfafrica.org/downloads/Congress%20 Proceedings Publication.pdf>
2. Tonapi, V.A., Rachana, M.R., **Navi, S.S.**, Reddy, R.K., Thakur, R.P., Bandyopadhyay, R., Varanavasiappan, S. and Seetharama, N. (2007). Effect of temperature and humidity regimes on grain mold sporulation and seed quality in sorghum (*Sorghum bicolor* (L.) Moench). *Archives of Phytopathology and Plant Protection* **40**:113-127. <http://oar.icrisat.org/823/>
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4. Thakur, R.P., Rao, V.P., Agarkar, G.D., Solunke, R.B., Bharati Bhat and **Navi, S.S.** (2006). Variation in occurrence and severity of major sorghum grain mold pathogens in India. *Indian Phytopathology* **59**:410–416. <http://oar.icrisat.org/2531/>
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8. **Navi, S.S.**, Bandyopadhyay, R., Reddy, R.K., Thakur, R.P. and Yang, X.B. (2005). **Effect of wetness duration and grain development stages on sorghum grain mold infection**. *Plant Dis.* **89**:872–878. <https://doi.org/10.1094/PD-89-0872>
9. **Navi, S.S.** (2005). Fungi associated with sorghum grain in rural Indian storages. *Journal of New Seeds* **7**:51–68.
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15. **Navi, S.S.** and Singh, S.D. (2003). Effects of pounding and garlic extract on sorghum grain mold and grain quality. *International Sorghum and Millets Newsletter*. **44**:122–124. <http://oar.icrisat.org/1456/>
16. **Navi, S.S.**, Bandyopadhyay, R., Blümmel, M., Reddy, R.K. and D. Thomas. (2003). Maize stripe virus: a disease of sorghum emerging in south India. *International Sorghum and Millets Newsletter*. **44**:126–129. <http://oar.icrisat.org/1457/>

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18. **Navi, S.S.**, Singh, S.D., Reddy, G.V., Kameswara Rao, N. and Bramel Paula J. (2002). New Sources of resistance to grain mold in converted zerazera sorghum. *International Sorghum and Millets Newsletter*. **43**:77–80. <http://oar.icrisat.org/1636/>
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22. **Navi, S.S.**, Bandyopadhyay, R. and Hall, A J. (2002). Effects of crop season, storage conditions, cultivars and fungicide on post-harvest fungal profile of sorghum grain. *International Sorghum and Millets Newsletter*. **43**:65–68. <https://core.ac.uk/download/pdf/12103611.pdf>
23. Singh, S.D. and **Navi, S.S.** (2000). Garlic as a bio-control agent of sorghum ergot. *Journal of Mycology & Plant Pathology*. **30**:350–354. <http://oar.icrisat.org/1909/>
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25. Singh, S.D. and **Navi, S.S.** (2001). An *in vitro* screening technique for the identification of grain mold resistance in sorghum. *Indian Phytopathology*. **54**:35–39.
26. **Navi, S.S.**, Singh S.D., Lenné, J.M., Kirk, P.M. and Brayford, D. (1997). New grain mold fungi of sorghum in India. *Journal of Mycology & Plant Pathology* **27**:104–105.
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