

Dr. Harpreet Kaur Gill

Principal Scientist, Agronomy

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01 EDUCATION

- 2005 – 2009 **Ph.D., Agronomy**
Punjab Plains Agricultural University
Thesis: Zero tillage wheat after rice
- 2003 – 2005 **M.Sc. (Agri.), Agronomy**
Punjab Plains Agricultural University
- 1999 – 2003 **B.Sc. (Agri.) Hons.**
Punjab Plains Agricultural University

02 RESEARCH EXPERIENCE

- 2018 – Present **Principal Scientist**
Department of Agronomy, Punjab Plains Agricultural University
- Lead residue-management trials on 400 farmer fields; in-situ mulching adopted on 1.2 lakh hectares (sample data).
 - Released 3 recommendations in the state package of practices.
- 2010 – 2018 **Senior Agronomist**
Punjab Plains Agricultural University
- Direct-seeded rice trials that cut irrigation water by about 25%.

03 GRANTS, AWARDS & HONOURS

- PI, national climate-resilient agriculture project (2019–2024), ₹1.1 crore
- Best Extension Scientist Award, state agriculture department (2022)

04 PUBLICATIONS

- Gill, H. K., & Banerjee, P. (2026). Measuring farmer producer organisations. *Crop Improvement Letters*, 7(7), 118–140.
- Menon, V., Gill, H. K., Sato, Y., & Gupta, R. (2026). Designing for integrated pest management in cotton. *Crop Improvement Letters*, 5(1), 166–183.
- Sato, Y., Menon, V., Gill, H. K., & Rao, S. (2026). Revisiting drought-tolerant millet varieties. *Proceedings of the National Symposium on Dryland Farming*, pp. 628–639.
- Haddad, N., & Gill, H. K. (2025). Designing for drought-tolerant millet varieties. *Indian Journal of Agronomy and Soil Science*, 25(8), 228–240.
- Gill, H. K., & Sato, Y. (2025). Designing for soil organic carbon under zero tillage. *Journal of Agricultural Extension*, 22(12), 866–883.
- Sato, Y., Chen, L., Kim, J., & Gill, H. K. (2025). Designing for micro-irrigation for smallholders. *Proceedings of the National Symposium on Dryland Farming*, pp. 181–194.
- Gill, H. K., & Mensah, K. (2024). Rethinking drought-tolerant millet varieties. *Journal of Agricultural Extension*, 25(5), 681–690.
- Okafor, D., Mensah, K., & Gill, H. K. (2024). Scaling drought-tolerant millet varieties. *Crop Improvement Letters*, 41(1), 146–166.
- Banerjee, P., Iyer, M., & Gill, H. K. (2024). Evidence on soil organic carbon under zero tillage. *Proceedings of the National Symposium on Dryland Farming*, pp. 24–38.
- Sato, Y., Gill, H. K., & Rao, S. (2023). Revisiting biofortified wheat trials. *Crop Improvement Letters*, 20(10), 21–39.

- Sato, Y., **Gill, H. K.**, & Haddad, N. (2023). Measuring soil organic carbon under zero tillage. *Crop Improvement Letters*, 30(6), 16–25.
- Kim, J., Sato, Y., & **Gill, H. K.** (2023). New approaches to integrated pest management in cotton. *Crop Improvement Letters*, 27(8), 391–402.
- Sato, Y., **Gill, H. K.**, & Gupta, R. (2022). Understanding biofortified wheat trials. *Indian Journal of Agronomy and Soil Science*, 42(4), 860–874.
- Chen, L., Iyer, M., Kim, J., & **Gill, H. K.** (2022). Measuring integrated pest management in cotton. *Journal of Agricultural Extension*, 25(7), 730–744.
- Chen, L., & **Gill, H. K.** (2022). Scaling integrated pest management in cotton. *Journal of Agricultural Extension*, 37(7), 770–781.

05 CONFERENCE PRESENTATIONS & INVITED TALKS

- Invited talk: “Revisiting biofortified wheat trials”, Indian Symposium on Agronomy and Soil Science, Kyoto, 2026.
- Poster: “Designing for biofortified wheat trials”, Proceedings of the National Symposium on Dryland Farming, Berlin, 2026.
- Poster: “Scaling integrated pest management in cotton”, Proceedings of the National Symposium on Dryland Farming, Singapore, 2025.
- Poster: “Towards soil organic carbon under zero tillage”, Proceedings of the National Symposium on Dryland Farming, Hyderabad, 2025.
- Contributed talk: “Rethinking biofortified wheat trials”, Indian Symposium on Agronomy and Soil Science, Chennai, 2024.

06 TEACHING

- Principles of Agronomy (B.Sc. Agri.)
- Conservation Agriculture (M.Sc.)
- Farmer field schools in 18 villages each season

07 PROFESSIONAL SERVICE

- Member, state committee on crop-residue burning (2020–present)
- Kisan mela organiser, twice a year since 2012

08 SKILLS

Field: Experimental design, soil and plant analysis, on-farm trials

Analysis: SAS, R, crop simulation (DSSAT)

Languages: Punjabi (native), Hindi, English

09 REFERENCES

Dr. G. S. Brar

Director of Research, Punjab Plains Agricultural University
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Dr. A. Dhillon

Head, Department of Soil Science
a.dhillon@agriuniv.edu