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- Agronomist | Modeler | Root scientist

Academic Degrees

- BSc 2001 Faculty of Agriculture, Hokkaido University
- MSc 2003 Graduate School of Agriculture, Hokkaido University
- Ph.D 2006 Graduate School of Agricultural and Life Sciences, the University of Tokyo

Professional Experience

- April 2006 - October 2007:
Post doctoral Fellow, Field Production Science Center, Graduate School of Agricultural and Life Sciences, the University of Tokyo
- November 2007 - April 2008:
Post doctoral Fellow, National Agricultural Research Center for Hokkaido Region on loan from Hokkaido Intellect Tank
- May 2008 - September 2022:
Assistant Professor, Field Science Center, Graduate School of Agriculture Science, Tohoku University
- October 2022 - current:
Associate Professor, Field Science Center, Graduate School of Agriculture Science, Tohoku University

Papers

- Nasukawa, H. and Tajima, R. 2025. Preliminary Results on the Application of Phosphorus and Silicon to Improve the Post-Transplantation Growth of High-Density Nursery Seedlings. *Agronomy* 2025, 15, 937.
- Qiuzhi Rui, Ryosuke Tajima, Rongling Ye, Emi Kameoka, Donghe Xu and Koki Homma. 2025. A method for estimating root volume and total root length using images of soybean root in hydroculture taken by digital camera. *Plant Root* 19:30-37.
- Nasukawa, Hisashi, Ryosuke Tajima, Maria Clarinda Filomena Pereira, Joao Antonio Pedro, Satoshi Nakamura, Monrawee Fukuda, Junji Koide, Tetsuji Oya, Koki Homma, 2025. Management strategies for regenerative agriculture based on the assessment of soil fertility in northern Mozambique. *Geoderma Regional*, 40, e00912.
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- Jung, H., Tajima, R., Ye, R., Hashimoto, N., Yang, Y., Yamamoto, S., Homma, K. 2023. Utilization of UAV Remote Sensing in Plant-Based Field Experiments: A Case Study of the Evaluation of LAI in a Small-Scale Sweetcorn Experiment. *Agriculture*. 13: 561.
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- Akamatsu Y, Tajima R, Uno T, Ito T, Nishida M and Saito M. 2022. Characterization of root traits for phosphorus deficiency tolerance using chromosome segment substitution lines. *Plant Root* 16: 21-30.
- Matsuoka-Uno, C., Uno, T., Tajima, R., Ito, T. and Saito, M. 2022. Liming and Phosphate Application Influence Soil Carbon and Nitrogen Mineralization Differently in Response to Temperature Regimes in Allophanic Andosols. *Agriculture*. 12: 142.
- Susilawati, P. N., Tajima, R., Giamerti, Y., Yang, Y., Yufdy, M. P., Lubis, I. and Homma, K. 2022. Application of consecutive polyethylene glycol treatments for modeling the seminal root growth of rice under water stress. *Scientific Reports*. 12: 2096.
- Suzuki, T., Uno, T., Tajima, R., Ito, T. and Saito, M. 2021. Optimum range of soil phosphorus fertility needed for effective arbuscular mycorrhizal inoculation of Welsh onions in a non-allophanic Andosol. *Soil Science and Plant Nutrition* 67(5): 540-544.
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