

Publications -- Refereed journal articles

Narrowing the ecological yield gap to sustain crop yields with less inputs

van Ittersum, M. K., Silva, J. V., Bommarco, R., Hijbeek, R., Lundin, O., Nandillon, R., Bergkvist, G., Menegat, A., Oborn, I., Soderholm-Emas, A., Stoddard, F. L., Vico, G., Vonk, W. J., Watson, C. A. & MacLaren, C., Jun 2025, In: Global Food Security. 45, 13 p., 100857.

Palkokasvien viljelyn haasteet ja ratkaisut

Simojoki, A. & Stoddard, F., Apr 2025, In: Puutarha & kauppa. 2025, 4, p. 14-15 2 p.

Vihannes tai palkovilja – viljelytapa on eri

Simojoki, A., Stoddard, F. & Huhdanmäki, T., Mar 2025, In: Puutarha & kauppa. 2025, 3, p. 22-23 2 p.

Palkokasvit tarjoavat uusia viljelymahdolisuuksia

Simojoki, A. & Stoddard, F., 22 Nov 2024, In: Puutarha & kauppa. 2024, 19, p. 12-13 2 p.

Phenotyping revealed tolerance traits and genotypes for acidity and aluminum toxicity in European *Vicia faba* L

Belachew, K., Skovbjerg, C. K., Andersen, S. U. & Stoddard, F., 25 Jun 2024, In: Physiologia Plantarum. 176, 3, 17 p., e14404.

True ileal amino acid digestibility and protein quality of 15N-labeled faba bean in healthy humans

Itkonen, S. T., Calvez, J., Airinei, G., Chapelais, M., Khodorova, N., Sahaka, M., Benamouzig, R., Stoddard, F. L., Simojoki, A., Pajari, A.-M. & Gaudichon, C., 2024, In: Journal of Nutrition. 154, p. 1165-1174 10 p.

Management factors affecting faba bean yield

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A faba bean pan-genome for advancing sustainable protein security

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Grain legume production in Europe for food, feed and meat-substitution

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Reproductive potential of the black bean aphid (*Aphis fabae* Scop.) on a range of faba bean (*Vicia faba* L.) accessions

Skovgard, H. & Stoddard, F., Dec 2023, In: Legume Science. 5, 4, 9 p., e199.

Identifying physiological and genetic determinants of faba bean transpiration response to evaporative demand

Mandour, H., Khazaei, H., Stoddard, F. & Dodd, I. C., 4 Apr 2023, In: Annals of Botany. 131, 3, p. 533–544 12 p.

Evaluation of pathogenicity of *Botrytis* species isolated from different legumes

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The giant diploid faba genome unlocks variation in a global protein crop

Jayakodi, M., Golicz, A. A., Kreplak, J., Fechete, L. I., Angra, D., Bednář, P., Bornhofen, E., Zhang, H., Boussageon, R., Kaur, S., Cheung, K., Čížková, J., Gundlach, H., Hallab, A., Imbert, B., Keeble-Gagnère, G., Koblížková, A., Kobrlová, L., Krejčí, P. & Mouritzen, T. W. & 34 others, Neumann, P., Nadzieja, M., Nielsen, L. K., Novák, P., Orabi, J., Padmarasu, S., Robertson-Shersby-Harvie, T., Robledillo, L. Á., Schiemann, A., Tanskanen, J., Törönen, P., Warsame, A. O., Wittenberg, A. H. J., Himmelbach, A., Aubert, G., Courty, P. E., Doležel, J., Holm, L. U., Janss, L. L., Khazaei, H., Macas, J., Mascher, M., Smýkal, P., Snowdon, R. J., Stein, N., Stoddard, F. L., Stougaard, J., Tayeh, N., Torres, A. M., Usadel, B., Schubert, I., O'Sullivan, D. M., Schulman, A. H. & Andersen, S. U., 23 Mar 2023, In: Nature. 615, 7953, p. 652-659 27 p.

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Arzami, A., Morais de Carvalho, D., Vilaplana, F., Stoddard, F. & Mikkonen, K. S., 29 Sept 2022, In: Future Foods. 6, 100192.

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Gela, T. S., Bruce, M., Chang, W., Stoddard, F. L., Schulman, A. H., Vandenberg, A. & Khazaie, H., Jun 2022, In: Molecular Breeding. 42, 10 p., 35.

Agro-economic prospects for expanding soybean production beyond its current northerly limit in Europe
Karges, K., Bellingrath-Kimura, S. D., Watson, C. A., Stoddard, F. L., Halwani, M. & Reckling, M., Feb 2022, In: European Journal of Agronomy. 133, 9 p., 126415.

Recent advances in faba bean genetic and genomic tools for crop improvement
Khazaie, H., O'Sullivan, D. M., Stoddard, F. L., Adhikari, K. N., Paull, J. G., Schulman, A. H., Andersen, S. U. & Vandenberg, A., Sept 2021, In: Legume Science. 3, 3, 13 p., 75.

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Botrytis four species are associated with chocolate spot disease of faba bean in Latvia
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Muktadir, M. A., Adhikari, K., Merchant, A., Belachew, K., Vandenberg, A., Stoddard, F. & Khazaie, H., 7 Sept 2020, In: Agronomy. 10, 9, 19 p., 1345.

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The transgenerational effects of solar short-UV radiation differed in two accessions of *Vicia faba* L. from contrasting UV environments

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Preface

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