

## CURRICULUM VITAE - Ingerd Skow Hofgaard pr 18.05.2022

### PERSONALIA

Ingerd Skow Hofgaard  
NIBIO, Norsk institutt for bioøkonomi  
Pb 115, NO-1431 Ås  
Norge

Født: 26.03.1968



Jeg jobber med soppsjukdommer i gras og korn. Prosjektene jeg er tilknyttet omhandler epidemiologi, varsling, bekjempelse og sjukdomsresistens mot sopparter innen slektene *Fusarium* og *Microdochium* spp. Jeg har jobbet i NIBIO (tidligere Bioforsk, Planteforsk) siden 1997. I 1995 ble jeg Cand. scient. i plantefysiologi ved Universitetet i Oslo. I 2003, tok jeg doktorgrad innen plantepatologi ved NIBIO og Norges miljø- og biovitenskapelige universitet (NMBU). Siden 2012 har jeg koordinert forskning innen *Fusarium* og mykotoksiner i NIBIO. Jeg er nestleder ved Avdeling soppsjukdommer i Divisjon for bioteknologi og plantehelse i NIBIO, og fra 2013 har jeg tidvis vært ansatt som forsker med ansvar for undervisning innen plantepatologi ved NMBU.

### UTDANNELSE

- 1991 Cand. mag. (B. Sc.), Matematisk-naturvitenskapelig fakultet, Universitetet i Oslo.  
1995 Cand. scient (M. Sc.) i Plantefysiologi, Biologisk institutt, Universitetet i Oslo.  
Oppgavens tittel: Effekt av økt CO<sub>2</sub>-tilførsel og varierende næringstilgang på frøplanter av gran (*Picea abies*).  
2003 Dr. scient innen Plantepatologi ved Norges Landbrukshøgskole. Avhandlingens tittel: Resistens mot snømugg (*Microdochium nivale*) i flerårig raigras (*Lolium perenne* L.).

### RELEVANT ARBEID

- 1992-1993 Hjelpelærer i plantefysiologi ved Biologisk institutt, Universitetet i Oslo.  
1995-1997 Ansatt som forsker på prosjektet "Added growth fertiliser" ved Fytotronen, Biologisk institutt, Universitetet i Oslo.  
1997-2002 Stipendiat på prosjektet "Naturlig resistens" ved Plantevernet (nå NIBIO).  
Fra 1998- Undervist på kurs i plantepatologi ved NMBU.  
Fra 2009- Biveileder for master og doktorgradsstudenter ved NMBU.  
Fra 2002- Ansatt som forsker ved Planteforsk Plantevernet (nå NIBIO) på diverse prosjekter innen sjukdommer i gras og korn.  
2009-2012 Faggruppetleder med personalansvar for faggruppe sjukdommer i korn og gras ved Bioforsk Plantehelse (nå NIBIO).  
2012-2013 Medlem av prosjektgruppa i VKM som utarbeidet rapporten «Risk assessment of mycotoxins in cereal grain in Norway».  
Fra 2012- Koordinerer aktiviteter innen forskning på *Fusarium* og mykotoksiner i NIBIO.  
Fra 2012- Nestleder ved avdeling soppsjukdommer, divisjon for bioteknologi og plantehelse ved NIBIO.  
Fra 2013- Tidvis ansatt som forsker med ansvar for undervisning ved NMBU (5-10% stilling).

### Deltakelser i komiteer og utvalg av relevans:

- Fra 2008- Evaluert manuskripter for European Journal of Plant Pathology, Journal of Phytopathology, Fungal Ecology, European Journal of Agronomy og Plant pathology;  
2009: Medlem av den vitenskapelige komiteen som arrangerte «The 5th international meeting on Plant and Microbe adaptation to the Cold» (PMAC2009), 4 - 8 desember 2009, Ås, Norway;  
Fra 2010-2016 Leder av NJF-arbeidsgruppe "Fusarium and mycotoxins in cereals".  
2010: Hovedansvarlig for arrangering av «The Nordic Baltic Fusarium Seminar 2010» (NBFS 2010);  
Fra 2010- Medlem av komiteen som arrangerte «Nordic Baltic Fusarium Seminar» (NBFS); NBFS 2010, NBFS 2012, NBFS 2014, NBFS 2017 og NBFS 2019.  
2015: Referee på prosjektsøknad til det danske Miljøministeriets pesticidprogram.  
2017: Evaluert Dr. grad ved Universitetet i Zürich.  
2019-2023: Varamedlem i NIBIOs styre

## PUBLIKASJONER fagfelleverderte

Hofgaard IS, Brodal G, Almvik M, Lillemo M, Russenes AL, Edwards SG, Aamot HU (2022) Different Resistance to DON versus HT2 + T2 Producers in Nordic Oat Varieties. *Toxins* 14 (5):313 <https://doi.org/10.3390/toxins14050313>

Hjelkrem, A.-G.R.; Aamot, H.U.; Lillemo, M.; Sørensen, E.S.; Brodal, G.; Russenes, A.L.; Edwards, S.G.; Hofgaard, I.S. 2022. Weather Patterns Associated with DON Levels in Norwegian Spring Oat Grain: A Functional Data Approach. *Plants* 11, 73. <https://doi.org/10.3390/plants11010073>

Hjelkrem, A.G.R., Ficke, A., Abrahamsen, U., Hofgaard, I.S. and Brodal, G. 2021. Prediction of leaf Bloch disease risk in Norwegian spring wheat based on weather factors and host phenology. *Eur J Plant Pathol* (2021). <https://doi.org/10.1007/s10658-021-02235-6>

Hofgaard, I.S., Aamot, H.U., Seehusen, T., Riley, H., Dill-Macky, R., Holen, B.M., and Brodal, G. 2020. *Fusarium* and mycotoxin content of harvested grain was not related to tillage intensity in Norwegian spring wheat fields *World Mycotoxin Journal*, 13 (4)- Pages: 473 – 486 <https://doi.org/10.3920/WMJ2020.2575>

Aamot, H.U., Lysøe, E., Koga, S., Nielsen, K.A.G., Böcker, U., Brodal, G., Dill-Macky, R., Uhlen, A.K. & Hofgaard, I.S. 2020. *Microdochium majus* and other fungal pathogens associated with reduced gluten quality in wheat grain. *International Journal of Food Microbiology*, **331**, 108712. [https://www.sciencedirect.com/science/article/pii/S0168160520302063?dgcid=rss\\_sd\\_all](https://www.sciencedirect.com/science/article/pii/S0168160520302063?dgcid=rss_sd_all)

Brodal, G., Aamot, H. U., Almvik, M., and Hofgaard, I.S. 2020, Removal of Small Kernels Reduces the Content of *Fusarium* Mycotoxins in Oat Grain. *Toxins*, v. 12, no. 5 <https://doi.org/10.3390/toxins12050346>

Abdelhalim, M., Brurberg, M.B., Hofgaard, I.S., Rognli, O.A., Tronsmo, A.M. 2020. Pathogenicity, host specificity and genetic diversity in Norwegian isolates of *Microdochium nivale* and *Microdochium majus*. *Eur J Plant Pathol*. 156, pp 885-895 <https://link.springer.com/article/10.1007%2Fs10658-020-01939-5>

Koga, S., Aamot, H.U., Uhlen A.K., Seehusen, T., Veiseth-Kent, E., Hofgaard, I. S., Moldestad, A., Böcker, U. 2020. Environmental factors associated with glutenin polymer assembly during grain maturation. *Journal of Cereal Science*, vol 91. <https://www.sciencedirect.com/science/article/pii/S0733521019301158?via%3Dihub>

Hjelkrem A. G. R., Aamot H. U., Brodal G., Strand E. C., Torp T., Edwards S. G., Dill-Macky R. and Hofgaard I. S. 2018. HT-2 and T-2 toxins in Norwegian oat grains related to weather conditions at different growth stages. *Eur. J. Plant Pathol*. Vol 151, pp 501–514 <https://doi.org/10.1007/s10658-017-1394-3>

Getachew A., Chala A., Hofgaard I. S., Brurberg M. B., Sulyok M. and Tronsmo A. M. 2017. Multimycotoxin and fungal analysis of maize grains from south and southwestern Ethiopia. *Food Additives & Contaminants: Part B* 11, 64-74. <http://www.tandfonline.com/doi/full/10.1080/19393210.2017.1408698>

Seehusen, T., Hofgaard, I.S., Tørresen, K.S., Riley, H. 2016. Residue cover, soil structure, weed infestation and cereal yields as affected by tillage and straw management on three soils in Norway. *Acta Agriculturae Scandinavica, Section B — Soil & Plant Science* 67: 93-109. <http://www.tandfonline.com/doi/full/10.1080/09064710.2016.1221987>

Aamot, H.U., Hofgaard, I. S., Lysøe, E. 2016. Complete genome sequence of *Luteibacter rhizovicinus* strain LJ96T, isolated from the rhizosphere of barley (*Hordeum vulgare* L.) in Denmark. *Genomics Data* 11: 104-105 <http://www.sciencedirect.com/science/article/pii/S2213596016302057>

Hjelkrem A. G. R., Torp T., Brodal G., Aamot H. U., Strand E., Nordskog B., Dill-Macky R., Edwards S. G. and Hofgaard I. S. 2017. DON content in oat grains in Norway related to weather conditions at different growth stages. *Eur. J. Plant Pathol*. 148, 577-594. <http://link.springer.com/article/10.1007/s10658-016-1113-5>

Uhlig, S., Stanic, A., Hofgaard, I.S., Kluger, B., Schuhmacher, R. and Miles, O.C. 2016. Glutathione-Conjugates of Deoxynivalenol in Naturally Contaminated Grain Are Primarily Linked via the Epoxide Group. *Toxins*, 8. <http://www.mdpi.com/2072-6651/8/11/329>

Brodal, G., Hofgaard, I.S., Eriksen, G.S., Bernhoft, A. and Sundheim, L., 2016. Mycotoxins in organically versus conventionally produced cereal grains and some other crops in temperate regions. *World Mycotoxin Journal*: 9 (5) 755 - 770. <http://www.wageningenacademic.com/doi/abs/10.3920/WMJ2016.2040>

Kovi, M.R., Abdelhalim, M., Kunapareddy, A., Ergon, Å., Tronsmo, A.M., Brurberg, M.B., Hofgaard, I.S., Asp, T. and Rognli, O.A., 2016. Global transcriptome changes in perennial ryegrass during early infection by pink snow mould. *Scientific Reports* 6: 28702. <http://www.nature.com/articles/srep28702>

Hofgaard, I.S., Seehusen, T., Aamot, H.U., Riley, H., Razzaghian, J., Le, V.H., Hjelkrem, A.G.R., Dill-Macky, R. and Brodal, G. 2016. Inoculum potential of *Fusarium* spp. relates to tillage and straw management in Norwegian fields of spring oats. *Frontiers in Microbiology*, 7, Article no 556, 1-15. <http://journal.frontiersin.org/article/10.3389/fmicb.2016.00556/full>

Pasquali, M., Beyer, M., Logrieco, A., Audenaert, K., Balmas, V., Basler, R., Boutigny, A.L., Chrpova, J., Czembor, E., Gagkaeva, T., Gonzalez-Jaen, M.T., Hofgaard, I.S., Köycü, N.D., Hoffmann, L., Levic, J., Garcia, P.M., Miedaner, T., Migheli, Q., Moretti, A., Müller, M.E.H., Munaut, F., Parikka, P., Pallez-Barthel, M., Picc, J., Scauflaire, J., Scherm, B., Stankovic, S., Thrane, U., Uhlig, S., Vanheule, A., Yli-Mattila, T. and Vogelgsang, S. 2016. A European

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Abdelhalim, M., Rognli, O. A., Hofgaard, I. S., Østrem, L., Tronsmo, A. M. 2016. Snow mould resistance under controlled conditions and winter survival in the field in populations of perennial ryegrass, meadow fescue and *Festulolium* are partly dependent on ploidy level and degree of northern adaptation. *Canadian Journal of Plant Science*, 96: 579–589. <http://www.nrcresearchpress.com/doi/pdf/10.1139/cjps-2015-0259>

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Aamot, H. U., Ward, T. J., Brodal, G., Vrålstad, T., Larsen, G. B., Klemsdal, S. S., Elameen, A., Uhlig, S. and Hofgaard, I. S. 2015 Genetic and phenotypic diversity within the *Fusarium graminearum* species complex in Norway. *European Journal of Plant Pathology*: Volume 142, Issue 3 2015, Page 501-519. DOI 10.1007/s10658-015-0629-4 [http://link.springer.com/article/10.1007/s10658-015-0629-4](http://link.springer.com/article/10.1007/s10658-015-0629-4?wt_mc=email.event.1.SEM.ArticleAuthorAssignedToIssue)

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Aamot, H. U., Hofgaard, I. S., Brodal, G., Elen, O., Holen, B. and Klemsdal, S. 2013. Evaluation of rapid test kits for quantification of HT-2 and T-2 toxins in naturally contaminated oats. *World Mycotoxin Journal* vol 6 (1) s 31-41. <http://wageningenacademic.metapress.com/content/y722114x4r407420/>

Aamot H U, Hofgaard I S, Brodal G, Elen O, Jestoi M and Klemsdal S S 2012 Evaluation of rapid test kits for quantification of deoxynivalenol in naturally contaminated oats and wheat. *World Mycotoxin Journal* vol 5 (4) s 339-350. <http://wageningenacademic.metapress.com/content/k303157971hvw102/>

Hofgaard, I. S., Ergon, Å.G., Henriksen, B., og Tronsmo, A. 2010. The effect of potential resistance inducers on development of *Microdochium majus* and *Fusarium culmorum* in winter wheat. *European Journal of Plant Pathology* 128(2) s 269-281. <http://link.springer.com/article/10.1007/s10658-010-9662-5>

Aamlid, T., Espevig, T., Molteberg, B., Tronsmo, A., Eklo, O., Hofgaard, I., Ludvigsen, G. & Almvik, M. 2009. Disease control and leaching potential of fungicides on golf greens with and without organic amendment to the sand-based root zone. *International Turfgrass Research Journal* 11 s 903-917. <http://www.bioforsk.no/ikbViewer/Content/65094/903.pdf>

Hofgaard, I. S., Wanner, L.A., and Tronsmo, A.M. 2006. The effect of age and cold hardening on resistance to pink snow mould (*Microdochium nivale*) in perennial ryegrass (*Lolium perenne* L). *Acta Agriculturae Scandinavica, Section B - Plant Soil Science* 56, 315–323.

Hofgaard, I. S., Wanner, L.A., Hageskal, G., Henriksen, B., Klemsdal, Sonja S. and Tronsmo, A.M. 2006. Isolates of *Microdochium nivale* and *M. majus* differentiated by pathogenicity on perennial ryegrass (*Lolium perenne* L.) and in vitro growth at low temperature. *Journal of Phytopathology* 154, 267-274. <http://onlinelibrary.wiley.com/doi/10.1111/j.1439-0434.2006.01092.x/full>

Browne, R.A., Mascher, F., Golebiowska, G. and Hofgaard, I. S. 2006. Components of Partial Disease Resistance in Wheat Detected in a Detached Leaf assay Inoculated with *Microdochium majus* Using First, Second and Third Expanding Seedling Leaves. *Journal of Phytopathology* 154, 204-208. <http://onlinelibrary.wiley.com/doi/10.1111/j.1439-0434.2006.01084.x/full>

Hofgaard, I. S., Åshild Ergon, Leslie A. Wanner and Anne Marte Tronsmo 2005. The effect of chitosan and Bion on resistance to pink snow mould in perennial ryegrass and winter wheat. *Journal of Phytopathology* 153, 108-119. <http://onlinelibrary.wiley.com/doi/10.1111/j.1439-0434.2005.00937.x/full>

Hofgaard, I. S., Vollsnes, A. V., Marum, P., Larsen, A. and Tronsmo, A. M. 2003. Variation in resistance to different winter stress factors within a full-sib family of perennial ryegrass. *Euphytica* 134: 61-75. <http://link.springer.com/article/10.1023/A%3A1026130825722>

## Publikasjoner (ikke fagfelleurderte)

Lillemo, M., Sørensen, E., Almvik, M., Aamot, H.U., Hofgaard, I.S. 2021. Development of a reliable field-testing methodology for *Fusarium langsethiae* resistance in oats confirms *F. langsethiae*-specific susceptibility in certain genotypes with otherwise good FHB resistance. Proceeding from Präsenzveranstaltung, Raumberg-Gumpenstein geplamt, 22-24. November 2021.

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- Hofgaard, I.S., Aamot, H.U., Brodal, G., Russenes, A.L., Hjelkrem, A.R., Lillemo, M. og Strand, E. 2020. Hvordan redusere risiko for mykotoksiner i korn? NIBIO-pop 6(40) 2020. <https://hdl.handle.net/11250/2711593>
- Tørresen, K. S., Skarbøvik, E., Kværnø, S., Bechmann, M., Stenrød, M., Eklo, O. M., Brodal, G., Hofgaard, I.S., Bjørkman, M., Riley, H., Kvakkestad, V., Refsgaard, K., Børresen, T., Dörsch, P., Stabbetorp, J. & Strand, E. 2015. Effekter av ulik jordarbeiding i korn. NIBIO POP vol.1 nr.5 des. 2015.
- Brodal, G., Hofgaard, I.S., Bjørnstad, Å. & Ropstad, E. 2015. Mykotoksiner i korn – konsekvenser for mattrygghet og tiltak for å redusere risiko. Bioforsk-konferansen 2015 / Bioforsk FOKUS 10(2). s 25.
- Hofgaard, I.S., Seehusen, T., Aamot, H. U., Abrahamsen, U., Razzaghian, J., Le, V. H., Riley, H., Strand, E. Gauslaa, E., Åssveen, M., Brurberg, M. B., Steen, H. S., and Brodal, G. 2014. Influence of agricultural practices on prevalence of *Fusarium* and mycotoxins in oats. NJF seminar 478. NJF report, Vol 9, No 8, 2014.
- Hjelkrem, A. G. R., Torp, T., Brodal, G., Aamot, H. U., Nordskog, B. Strand, E. and Hofgaard, I. S. 2014. Influence of weather conditions at different plant growth stages on mycotoxin content in oat. NJF seminar 478. NJF report, Vol 9, No 8, 2014.
- Hofgaard, I.S., Aamot, H. U., Razzaghian, J., Gauslaa, E, Steen, H. S., og Brodal, G.2014. *Fusarium langsethiae* og mykotoksiner i havre. Bioforsk FOKUS, Vol. 9, Nr. 2, p 111, 2014
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Hofgaard, I.S. Resistance to *Fusarium langsethiae* in Norwegian oats – SafeOats. Oral presentation at European Fusarium Seminar 15, webinar, Gent, Belgium 31. May – 1. June 2021. <https://mytox.be/conferences/#toggle-id-2>

Hofgaard, I. S. Resistance to Fusarium in Norwegian oats. Oral presentation at NOVA PhD Course “Secondary Metabolites in Plant Resistance and Pathogen Virulence”. Webinar, Finland 3-7<sup>th</sup> of May 2021.

Hofgaard, I. S. Havresortenes motstandsdyktighet mot Fusarium – og kan vi sortere ut korn med høye nivå av mykotoksiner? Oral presentation at Korn 2021, webinar, 9-10 februar 2021. <https://nibio.pameldingssystem.no/korn-2021#/home>

Hofgaard, I. S., 2020. Presentasjon av prosjektet Trygghavre/SafeOats (2016-2020). Avslutningsseminar for Trygghavre/SafeOats prosjektet, Vitenparken, Ås, 18. november 2020 <https://havre.vitenparken.no/>

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