Björn Lindahl's publications

Articles in peer-reviewed journals:

1. Jörgensen, K., Clemmensen, K.E., Wallander, H., **Lindahl, B.D.** 2022. Do ectomycorrhizal exploration types reflect mycelial foraging strategies? *New Phytologist*, DOI: 10.1111/nph.18566.

2. Parker, T., Chomel, M., Clemmensen, K., Friggens, N., Hartley, I., Johnson, D., Kater, I., Krab, E., **Lindahl, B.D.,** Street, L.E., Subke, J.A., Wookey, P. 2022. Resistance of subarctic soil fungal and invertebrate communities to disruption of belowground carbon flux. *Journal of Ecology*, DOI: 10.1111/1365-2745.13994.

3. Fanin, N., Clemmensen, K.E., **Lindahl, B.D.**, Farrell, M., Nilsson, M.C., Gundale, M.J., Kardol, P., Wardle, D.A. 2022. Ericoid shrubs shape fungal communities and suppress organic matter decomposition in boreal forests. *New Phytologist*: 10.1111/nph.18353.

4. Mielke, L., Ekblad, A., Finlay, R., Fransson, P., **Lindahl, B.D.**, Clemmensen, K. 2022. Ericaceous dwarf shrubs contribute a significant but drought-sensitive fraction of soil respiration in a boreal pine forest. *Journal of Ecology* 110: 1928–1941

5. Jörgensen, K., Granath, G., Strengbom, J., **Lindahl, B.D.** 2022. Links between boreal forest management, soil fungal communities and belowground carbon sequestration. *Functional Ecology* **36**: 392–405.

6. Spitzer, C. Wardle, D., **Lindahl, B.D.**, Sundqvist, M., Gundale, M., Fanin, N., Kardol, P. 2021. Root traits and soil microorganisms as drivers of plant-soil feedbacks within the sub-arctic tundra. *Journal of Ecology* **110**: 466-478.

7. Hasby, F., Barbi, F., Manzoni, S., **Lindahl, B.D.** 2021. Transcriptomic markers of fungal growth, respiration and carbon-use efficiency. *FEMS Microbiology Letters* **368**: fnab100.

8. Jörgensen, K., Granath, G., **Lindahl, B.D.**, Strengbom, J. 2021. Forest management to increase carbon sequestration in boreal *Pinus sylvestris* forests. *Plant and Soil* **466**: 165–178.

9. Manzoni, S., Chakrawal, A., Spohn, M., **Lindahl B.D.** 2021. Modelling microbial adaptations to nutrient limitation during litter decomposition. *Frontiers in Forests and Global Change* **4**: 686945.

10. Faticov, M., Abdelfattah, A., Roslin, T., Vacher, C., Hambäck, P., Blanchet, F.G., **Lindahl, B.D.**, Tack, A. 2021. Climate warming dominates over plant genotype in shaping the seasonal trajectory of foliar fungal communities on oak. *New Phytologist* **231**: 1770–1783.

11. **Lindahl, B.D.**, Kyaschenko, J., Varenius, K., Clemmensen, K.E., Dahlberg, A., Karltun, E., Stendahl, J. 2021. A group of ectomycorrhizal fungi restricts organic matter accumulation in boreal forest. *Ecology Letters* **24**: 1341-1351.

12. Clemmensen, K.E., Durling, M.B., Michelsen, A., Hallin, S., Finlay, R., **Lindahl, B.D.** 2021. A tipping-point in carbon storage when forest expands into tundra is related to mycorrhizal recycling of nitrogen. *Ecology Letters* **24**: 1193–1204.

13. Pérez Izquierdo, L., Clemmensen, K.E, Strengbom, J., Granath, G., Wardle, D., Nilsson Hegethorn, M.C., **Lindahl, B.D.** 2021. Crown-fire severity is more important than ground-fire severity in determining soil fungal community development in the boreal forest. *Journal of Ecology* **109**: 504–518.

14. Kõljalg, U., Nilsson, H.R., Schigel, D., Tedersoo, L., Larsson, K.H., May, T.W., Taylor, A.F.S., Stjernegaard Jeppessen, T., Guldberg Frøslev, T., **Lindahl, B.**, Poldmaa, K., Saar, I., Suija, A.,

Savchenko, A, Yatsiuk, I., Adojaan, K., Ivanov, F., Piirmann, T., Pöhönen, R., Zirk, A., Abarenkov, K. 2020. The taxon hypothesis paradigm – on the unambiguous detection and communication of taxa. *Microorganisms* **8**:1910.

15. Spitzer, C., **Lindahl, B.**, Wardle, D., Sundqvist, M., Gundale, M., Fanin, N., Kardol, P. 2020. Root trait-microbial relationships across tundra plant species. *New Phytologist* **229**: 1508–1520.

16. Abrego, N., Huotari, T., Tack, A., **Lindahl, B.D.**, Tikhonov, G., Somervuo, P., Schmidt, N.M., Ovaskainen, O, Roslin, T., 2020. Higher host-plant specialization of root-associated endophytes than mycorrhizal fungi along an arctic elevational gradient. *Ecology and Evolution* **10**: 8989–9002.

17. Abrego, N., Roslin, T., Huotari, T., Tack, A., **Lindahl, B.D.**, Tikhonov, G., Somervuo, P., Schmidt, N.M., Ovaskainen, O. 2020. Accounting for environmental variation in co-occurrence modeling reveals the importance of positive interactions in root-associated fungal communities. *Molecular Ecology* **29**: 2736-2746.

18. Castaño, C., Berlin, A., Brandström Durling, M., Ihrmark, K., **Lindahl, B.D.**, Stenlid, J., Clemmensen, K.E., Olson, Å. 2020. Optimized metabarcoding with Pacific Biosciences enables semi-quantitative analysis of fungal communities. *New Phytologist* **228**: 1149–1158.

19. Parker, T.C., Clemmensen, K.E., Friggens, N.L., Hartley, I.P., Johnson, D., **Lindahl, B.D.**, Olofsson, J., Siewert, M.B., Street, L.E., Subke, J.-A., Wookey, P.A. 2020. Rhizosphere allocation by canopy-forming species dominates soil CO_2 efflux in a subarctic landscape. *New Phytologist*: **227**: 1818-1830.

20. Barbi, F., Kohler, A., Barry, K., Baskaran, P., Daum, C., Fauchery, L., Ihrmark, K., Kuo, A., LaButti, K., Lipsen, A., Morin, E., Grigoriev, I.V., Henrissat, B., **Lindahl, B.D**., Martin, F. 2020. Fungal ecological strategies reflected in gene transcription – a case study of two litter decomposers. *Environmental Microbiology* **22**: 1089-1103.

21. Pérez-Izquierdo, L., Clemmensen, K.E., Strengbom, J., Nilsson-Hegethorn, M.C, **Lindahl, B.D.** 2019. Quantification of tree fine roots by real-time PCR. *Plant and Soil* **440**: 593-600.

22. Baskaran, P., Ekblad, A., Soucémarianadin, L., Hyvönen, R., Schleucher, J., **Lindahl, B.D.** 2019. Nitrogen dynamics of decomposing Scots pine needle litter depends on colonizing fungal species. *FEMS Microbiology Ecology* **95**: fiz059.

23. Zak, D., Pellitier, P., … , **Lindahl, B.D.**, … , Tunlid, A. 2019. Exploring the role of ectomycorrhizal fungi in soil organic matter dynamics. *New Phytologist* **223**: 33-39.

24. Sterkenburg, E., Clemmensen, K.E., **Lindahl, B.D.**, Dahlberg, A. 2019. The significance of retention trees for maintenance of ectomycorrhizal fungal communities in clear-cut Scots pine forests. *Journal of Applied Ecology* **56**: 1367-1378.

25. Kyaschenko, J., Ovaskainen, O., Ekblad, A., Hagenbo, A., Karltun, E., Clemmensen, K.E., **Lindahl, B.D.** 2019. Soil fertility in boreal forest relates to root-driven nitrogen retention and carbon sequestration in the mor layer. *New Phytologist* **221**: 1492–1502.

26. Manzoni, S., Čapek, P., Porada, P., Thurner, M., Winterdahl, M., Beer, C., Brüchert, V., Frouz, J., Herrmann, A.M., **Lindahl, B.D.**, Lyon, S.W., Šantrůčková, H., Vico, G., Way, D. 2018. Reviews and syntheses: Carbon use efficiency from organisms to ecosystems – Definitions, theories, and empirical evidence. *Biogeosciences* **15**: 5929–5949.

27. Sterkenburg, E., Clemmensen, K.E., Ekblad, A., Finlay, R.D., **Lindahl, B.D.** 2018. Contrasting effects of ectomycorrhizal fungi on early and late stage decomposition in a boreal forest. *ISME Journal* **12**: 2187-2197.

28. Castaño, C., Alday, J.G., **Lindahl, B.D.**, Martínez de Aragón, J., de-Miguel, S., Colinas, C., Parladé, X., Pera, J., Bonet, J.A. 2018. Lack of thinning effects over inter-annual changes in soil fungal community and diversity in a Mediterranean pine forest. *Forest Ecology & Management* **424**: 420–427.

29. Castaño, C., **Lindahl, B.D.**, Alday, J.G., Hagenbo, A., Martínez de Aragón, J., Parladé, X.,Pera, J., Bonet, J.A. 2018. Soil microclimate changes affect soil fungal communities in a Mediterranean pine forest. *New Phytologist* **220**: 1211–1221.

30. Rasmussen, P., Hugerth, L., Blanchet, F.G., Andersson, A., **Lindahl, B.D.**, Tack, A. 2018. Multiscale patterns and drivers of AM fungal communities in the roots and root-associated soil of a wild perennial herb. *New Phytologist* **220**: 1248–1261.

31. Martino, E., Morin, E., … , **Lindahl, B.D.**, … , Martin, F.M., Perotto, S. 2018. Comparative genomics and transcriptomics depict ericoid mycorrhizal fungi as versatile saprotrophs and plant mutualists. *New Phytologist* **217**: 1213-1229.

32. Hagenbo, A., Kyaschenko, J., Clemmensen, K.E., **Lindahl, B.D.**, Fransson, P.M.A. 2018. Fungal community shifts underpin declining mycelial production and turnover across a *Pinus sylvestris* chronosequence. *Journal of Ecology* **106**: 490–501.

33. Stendahl, J., Berg, B., **Lindahl, B.D.** 2017. Manganese availability is negatively associated with carbon storage in northern coniferous forest humus layers. *Scientific Reports* **7**:15487.

34. Kyaschenko, J., Clemmensen, K.E., Karltun, E., **Lindahl, B.D.** 2017. Below-ground organic matter accumulation along a boreal forest fertility gradient relates to guild interaction within fungal communities. *Ecology Letters* **20**: 1546–1555.

35. Varenius, K., **Lindahl, B.D.**, Dahlberg, A. 2017. Retention of seed trees fails to lifeboat ectomycorrhizal fungal diversity in harvested Scots pine forests. *FEMS Microbiology Ecology* **93**: fix105.

36. Manzoni, S., Čapek, P., Mooshammer, M., **Lindahl B.D.**, Richter, A., Šantrůčková, H. 2017. Optimal metabolic regulation along resource stoichiometry gradients. *Ecology Letters* **20**: 1182–1191.

37. Solly, E., **Lindahl, B.D.**, Dawes, M., Peter, M., Souza, R., Rixen, C., Hagedorn, F. 2017. Experimental soil warming shifts the fungal community composition at the alpine treeline. *New Phytologist* **215**: 766–778.

38. Kyaschenko, J., Clemmensen, K.E., Hagenbo, A., Karltun, E., **Lindahl, B.D.** 2017. Shift in fungal communities and associated enzyme activities along an age gradient of managed *Pinus sylvestris* stands. *ISME Journal* **11**: 863–874.

39. Hagenbo, A., Clemmensen, K.E., Finlay, R.D., Kyaschenko, J., **Lindahl, B.D.**, Fransson, P.M.A., Ekblad, A. 2017. Changes in turnover rather than production regulate biomass of ectomycorrhizal fungal mycelium across a *Pinus sylvestris* chronosequence. *New Phytologist* **214**: 424–431.

40. Baskaran, P., Hyvönen, R., Berglund, S.L., Clemmensen K.E., Ågren, G.I., **Lindahl, B.D.**, Manzoni, S. 2017. Modelling the influence of ectomycorrhizal decomposition on plant nutrition and soil carbon sequestration in boreal forest ecosystems. *New Phytologist* **213**: 1452–1465.

41. Jonsson, M., Snäll, T., Asplund, J., Clemmensen, K.E., Dahlberg, A., Kumordzi, B.B., **Lindahl, B.D.**, Oksanen, J., Wardle, D. 2016. Divergent responses of β-diversity among organism groups to a strong environmental gradient. *Ecosphere* **7**: e01535.

42. Varenius, K., Kårén, O., **Lindahl, B.D.**, Dahlberg, A. 2016. Long-term effects of tree harvesting on ectomycorrhizal fungal communities in boreal Scots pine forests. *Forest Ecology and Management* **380**: 41-49.

43. Tedersoo, L., **Lindahl, B.D.** 2016. Fungal identification biases in microbiome projects. *Environmental Microbiology Reports* **8**: 774–779.

44. Bálint, M., Bahram, M., Eren, A.M., Faust, K., Fuhrman, J., **Lindahl, B.D.**, O'Hara, R., Öpik M., Sogin, M., Unterseher, M, Tedersoo L. 2016. Millions of reads, thousands of taxa: microbial community structure and associations analyzed via marker genes. *FEMS Microbiology Reviews*: 686–700.

45. Bödeker, I.T.M., **Lindahl, B.D.**, Olson, Å., Clemmensen, K.E. 2016. Mycorrhizal and saprotrophic fungal guilds compete for the same organic substrates but affect decomposition differently. *Functional Ecology* **30**: 1967–1978.

46. Karlsson, M., Stenlid, J., **Lindahl, B.D.** 2016. Functional differentiation of chitinases in the white-rot fungus *Phanerochaete chrysosporium*. *Fungal Ecology* **22**: 52-60.

47. Sterkenburg, E., Bahr, A., Brandström-Durling, M., Clemmensen, K.E., **Lindahl, B.D.** 2015. Changes in fungal communities along a boreal forest soil fertility gradient. *New Phytologist* **207**: 1145–1158.

48. Hiscox, J., Savoury, M., Müller, C., **Lindahl, B.**, Rogers, H., Boddy, L. 2015. Priority effects during fungal community establishment in beech wood. *ISME Journal* **9**: 2246–2260.

49. Clemmensen, K.E., Finlay, R.D., Dahlberg, A., Stenlid, J., Wardle, D.A., **Lindahl, B.D.** 2015 Carbon sequestration is related to mycorrhizal fungal community shifts during long term succession in boreal forests. *New Phytologist* **205**: 1525-1536.

50. **Lindahl, B.D.**, Tunlid A. 2015. Ectomycorrhizal fungi - potential organic matter decomposers, yet not saprotrophs. *New Phytologist* **205**: 1443-1447.

51. Nilsson RH, Hyde KD, … , **Lindahl BD**, …, Abarenkov K. 2014. A distributed effort to improve the annotation of public ITS sequence data for plant pathogenic fungi. *Fungal Diversity* **67**: 11–19.

52. Bödeker, I.T.M., Clemmensen, K.E., de Boer, W., Martin, F., Olson, Å., **Lindahl, B.D.** 2014. Ectomycorrhizal *Cortinarius* species participate in enzymatic oxidation of humus in northern forest ecosystems. *New Phytologist* **203**: 245–256.

53. Boberg, J.B., Finlay, R.D., Stenlid, J., Ekblad, A., **Lindahl, B.D.** 2014. Nitrogen and carbon reallocation in fungal mycelia during decomposition of boreal forest litter. *PLoS ONE* **9**: e92897.

54. Strid, Y., Schroeder, M., **Lindahl, B.D.**, Ihrmark, K., Stenlid, J. 2014. Bark beetles have a decisive impact on fungal communities in Norway spruce stem sections. *Fungal Ecology* **7**: 47-58.

55. Kõljalg, U., Nilsson, R.H., … , **Lindahl, B.D.**, … , Larsson, K.-H. 2013. Towards a unified paradigm for sequence-based identification of Fungi. *Molecular Ecology* **22**: 5271–5277.

56. **Lindahl, B.D.,** Nilsson, R.H., Tedersoo, L., Abarenkov, K., Carlsen, T., Kjøller, R., Kõljalg, U., Pennanen, T., Rosendahl, S., Stenlid, J., Kauserud, H. 2013. Fungal community analysis by high-throughput sequencing of amplified markers – a user's guide. *New Phytologist* **199**: 288–299.

57. Clemmensen, K.E., Bahr, A., Ovaskainen, O., Dahlberg, A., Ekblad, A., Wallander, H., Stenlid, J., Finlay, R.D., Wardle, D.A., **Lindahl, B.D.** 2013. Roots and associated fungi drive long-term carbon sequestration in boreal forest. *Science* **339**: 1615-1618.

58. Hagedorn, F., Hiltbrunner, D., Streit, K., Ekblad, A., **Lindahl, B.**, Miltner, A., Frey, B, Handa, I.T., Hättenschwiler, S. 2013. Nine years of CO_2 enrichment at the alpine treeline stimulates soil respiration but does not alter soil microbial communities. *Soil Biology, Biochemistry* **57**: 390-400.

59. Ihrmark, K., Bödeker, I.T.M., Cruz-Martinez, K., Friberg, H., Kubartova, A., Schenck, J., Strid Y, Stenlid, J., Brandström-Durling, M., Clemmensen, K.E., **Lindahl, B.D.** 2012. New primers to amplify the fungal ITS2 region – evaluation by 454-sequencing of artificial and natural communities. *FEMS Microbiology Ecology* **82:** 666–677.

60. Rosling, A., Cox, F., Cruz-Martinez K., Ihrmark K., Grelet, G.A., **Lindahl, B.D.,** Menkis, A., James T.Y. 2011. Archaeorhizomycetes: Unearthing an ancient class of ubiquitous soil fungi. *Science,* **333:** 876-879.

61. Nilsson R.H., Tedersoo, L., **Lindahl B.D.** ... , Kauserud, H. 2011. Towards standardization of the description and publication of next-generation sequencing datasets of fungal communities. *New Phytologist 19***1:** 314-318.

62. Boberg, J.B., Näsholm, T., Finlay, R.D., Stenlid, J., **Lindahl, B.D.** 2011. Nitrogen availability affects saprotrophic basidiomycetes degrading pine needles in a long term laboratory study. *Fungal Ecology*, **4:** 408-416.

63. Boberg, J.B., Ihrmark, K., **Lindahl, B.D.** 2011. Decomposing capacity of some fungi commonly detected in *Pinus sylvestris* needle litter. *Fungal Ecology*, **4**: 110-114.

64. Wallander, H., Johansson, U., Sterkenburg, E., Brandström M., **Lindahl, B.D.** 2010. Production of ectomycorrhizal mycelium peaks during canopy closure in Norway spruce forests. *New Phytologist*, **187:** 1124–1134.

65. **Lindahl, B.D.**, de Boer, W. Finlay, R.D. 2010. Disruption of root carbon transport into forest humus stimulates fungal opportunists at the expense of mycorrhizal fungi. *ISME Journal*, **4**: 872-881.

66. Boberg, J.B., Finlay, R.D., Stenlid, J., **Lindahl, B.D.** 2010. Fungal C-translocation restricts N-mineralization in heterogeneous substrates. *Functional Ecology*, **24:** 454-459.

67. Blixt, E., Olson, Å., **Lindahl, B.D.**, Djurle, A., Yuen, J. 2010. Spatiotemporal variation in the fungal community associated with wheat leaves showing necrotic leaf spots. *European Journal of Plant Pathology*, **126**: 373-386.

68. Bödeker, I.T.M., Nygren, C.M.R., Taylor, A.F.S., Olson, Å., **Lindahl, B.D.** 2009. ClassII peroxidase encoding genes are present in a wide phylogenetic range of ectomycorrhizal fungi. *ISME Journal*, **3**: 1387-1395.

69. Nygren, C.M.R., Eberhardt, U., Karlsson, M., Parrent, J.L., **Lindahl, B.D.**, Taylor, A.F.S. 2008. Growth on nitrate and occurrence of nitrate reductase-encoding genes in a phylogenetically diverse range of ectomycorrhizal fungi. *New Phytologist* **180**: 875–889.

70. Boberg, J., Finlay, R., Stenlid, J., Näsholm, T., **Lindahl, B.D.** 2008. Glucose and ammonium additions affect needle decomposition and carbon allocation by the litter degrading fungus *Mycena epipterygia*. *Soil Biology, Biochemistry* **40**: 995-999.

71. Toljander, J.F., **Lindahl, B.D.**, Paul, L.R., Elfstrand, M., Finlay, RD. 2007. Influence of arbuscular mycorrhizal mycelial exudates on soil bacterial growth and community structure. *FEMS Microbiology Ecology* 61: 295-304.

72. **Lindahl, B.D.** , Ihrmark, K., Boberg, J., Trumbore, S.E, Högberg, P., Stenlid, J., Finlay, R.D. 2007. Spatial separation of litter decomposition and mycorrhizal nitrogen uptake in a boreal forest. *New Phytologist* 173*:* 611-620.

73. Heyman, F., **Lindahl, B.D.**, Persson, L., Wikström, M., Stenlid, J. 2007. Calcium concentrations of soil affect suppressiveness against Aphanomyces root rot of pea. *Soil Biology, Biochemistry* 39: 2222-2229.

74. Wallander, H., **Lindahl, B.D.**, Nilsson, L-O. 2006 Limited transfer of nitrogen between wood decomposing and ectomycorrhizal mycelia when studied in the field. *Mycorrhiza* 16*:* 213-217.

75. Toljander, Y.K., **Lindahl, B.D.**, Holmer, L., Högberg, N.O.S. 2006. Environmental fluctuations facilitate species co-existence and increase decomposition in communities of wood decay fungi. *Oecologia* 148: 625–631.

76. **Lindahl, B.D.,** Finlay, R.D. 2006. Activities of chitinolytic enzymes during primary and secondary colonisation of wood by wood degrading basidiomycetes. *New Phytologist* 169: 389-397.

77. **Lindahl, B.D.**, Taylor, A.F.S. 2004. Occurrence of N-acetylhexosaminidase coding genes in ectomycorrhizal basidiomycetes. *New Phytologist* 164*:* 193–199.

78. Rosling, A., **Lindahl, B.D.**, Finlay, R.D. 2004. Carbon allocation to ectomycorrhizal roots and mycelium colonising different mineral substrates, *New Phytologist* 162: 795–802.

79. Rosling, A., **Lindahl, B.D.,** Taylor, A.F.S., Finlay, R.D. 2004. Mycelial growth and substrate acidification of ectomycorrhizal fungi in response to different minerals. *FEMS Microbiology Ecology* 47, 31-37.

80. **Lindahl, B.D.**, Olsson, S. 2004. Fungal translocation - creating and responding to environmental heterogeneity. *The Mycologist* 18*:* 79-88.

81. Rosling, A., Landeweert, R., **Lindahl, B.D.,** Larsson, K.-H., Kuyper, T.W., Taylor, A.F.S., Finlay, R.D. 2003. Vertical distribution of ectomycorrhizal fungal taxa in a podzol soil profile, *New Phytologist* 159, 775–783.

82. **Lindahl, B.D.,** Taylor, A., Finlay, R. 2002. Defining nutritional constraints on carbon cycling – towards a less "phytocentric" perspective. *Plant and Soil* 242, 123 - 135.

83. **Lindahl, B.,** Stenlid, J., Finlay, R. 2001. Effects of resource availability on mycelial interactions and ^{32}P-transfer between a saprotrophic and an ectomycorrhizal fungus in soil microcosms. *FEMS Microbiology Ecology* 38, 43-52.

84. **Lindahl, B.**, Finlay, R., Olsson, S. 2001. Simultaneous, bidirectional translocation of ^{32}P and ^{33}P between two wood blocks connected by mycelial cords of *Hypholoma fasciculare. New Phytologist* 150, 189-194.

85. **Lindahl, B.**, Stenlid, J., Olsson, S., Finlay, R. 1999. Translocation of ^{32}P between interacting mycelia of a wood decomposing fungus and ectomycorrhizal fungi in microcosm systems. *New Phytologist* 144, 183-193.

86. Nordén, B., Appelquist, T., **Lindahl, B.**, Henningsson, M. 1999. Cubic rot fungi - corticioid fungi in highly brown rotted spruce stumps. *Mycologia Helvetica* 10, 13-24.

Editorials:

1. Martin, F.M., Dickie, I., **Lindahl, B.**, … 2020. A Tribute to Sally E. Smith. *New Phytologist:* 10.1111/nph.16895.

2. Martin, F.M., Harrison, M.J., Lennon, S., **Lindahl, B.D.**, Öpik, M., Polle, A., Requena, N., Selosse, M.-A. 2018. Cross-scale integration of mycorrhizal function. *New Phytologist* **220**: 941–946.

3. Wardle, D.A., **Lindahl, B.D.** 2014. Disentangling global soil fungal diversity. *Science* 346, 1052.

4. Baldrian, P., **Lindahl, B.D.** 2011. Decomposition in forest ecosystems: after decades of research still novel findings. *Fungal Ecology* 4: 359-361.

Book chapters:

1. Pérez-Izquierdo, L., Rincón, A., **Lindahl, B.D.**, Buée M. 2021. Fungal community of forest soil: diversity, functions and services. In: Asiegbu, F., Kovalchuk, A. (eds.) *Forest Microbiology (Volume 1): Tree Microbiome: Phyllosphere, Endosphere and Rhizosphere.* Academic Press, Cambridge, MA, USA.
2. Funk Jensen, D., Karlsson, M., **Lindahl, B.D.** 2017. Fungal–fungal interactions from natural ecosystems to managed plant production, with emphasis on biological control of plant diseases. In: Dighton, J., White, J. (eds.) *The Fungal Community: Its Organization and Role in the Ecosystem,4th ed.* Taylor & Francis, Boca Raton, FL, USA.
3. **Lindahl, B.D.**, Clemmensen, K.E. 2016. Fungal ecology in boreal forest ecosystems. In: Martin, F. (ed.) *Molecular Mycorrhizal Symbiosis*. Wiley, Hoboken, NJ, USA.
4. Clemmensen, K.E., Ihmark, K., Brandström-Durling, M., **Lindahl, B.D.** 2016. Sample preparation for fungal community analysis by high-throughput sequencing of barcode amplicons. In: Martin, F., Uroz, S. (eds.) *Microbial Environmental Genomics.* Springer, New York, NY, USA.
5. **Lindahl, B.D.**, Kuske, C.R. 2013. Metagenomics for study of fungal ecology. In: Martin, F. (ed.) *Ecological Genomics of the Fungi.* Wiley-Blackwell, Hoboken, NJ, USA.
6. **Lindahl, B.D.**, Boberg, J. 2007. Distribution and function of litter basidiomycetes in coniferous forests. In: Boddy, L., Frankland, J.F., van West, P. (eds.) *Ecology of Saprotrophic Basidiomycetes.* Elsevier, Amsterdam, the Netherlands.
7. Finlay, R.D., Taylor, A.F.S., **Lindahl, B.D.** 2007. Responses of mycorrhizal fungi to stress. In: Avery, S., Stratford, M., van West, P. (eds.) *Stress in Yeasts and Filamentous Fungi.* Elsevier, Amsterdam, the Netherlands.
8. **Lindahl, B.D**., Finlay, R.D., Cairney, J.W.G. 2005. Enzymatic activities of mycelia in mycorrhizal fungal communities. In: Dighton, J., Oudemans, P., White, J. (eds.) *The Fungal Community: Its Organization and Role in the Ecosystem*. Taylor & Francis, Boca Raton, FL, USA.

Popular science:

1. Djupström, L., Dahlberg, A., **Lindahl, B.** 2022. *Nyttan av naturhänsyn för marksvampar - Resultat fem år efter avverkning*. Skogforsk, Uppsala, Sweden.
2. Nygren, C., **Lindahl, B.**, Taylor, A. 2008. Mykorrhizasvamparnas näringsupptag - nyckeln till ökad förståelse för störningseffekter på svampsamhällen. *FaktaSkog 9*
3. **Lindahl, B.,** Finlay, R. 2001. Svamparnas krig - konkurrens mellan svampar om näring i marken. *FaktaSkog 5*.
4. **Lindahl, B.**, Finlay, R. 1998. Mykorrhiza och näringsomsättning. *Växtskyddsnotiser 62*: 69-72.