



# Carlos Colinas

## Catedràtic d'Escola Universitària

### Personal Information



**Position:** Catedràtic d'Escola Universitària

**Area of expertise:** Patologia Forestal

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### University degrees

- Llicenciatura en Ciències Biològiques. Universitat de Oviedo. 1984
- Grau de Llicenciatura en Fisiologia Vegetal. Universitat de Oviedo. 1985.
- Doctor en Ciències Forestals. Oregon State University (OSU). 1992.

### Research

- Sanitat forestal.
- Micologia forestal.
- Ecologia i conreu de fongs micorrícics.

### Teaching

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| · INCENDIS I SANITAT FORESTAL                    | Grau en Enginyeria Forestal                   |
| · SALUT DELS BOSCOS                              | Grau en Enginyeria Forestal                   |
| · PROPAGACIÓ I VIVERS FORESTALS                  | Grau en Enginyeria Forestal                   |
| · MEDITERRANEAN FOREST MANAGEMENT                | Màster Universitari Erasmus Mundus MEDFOR     |
| · FOREST HEALTH                                  | Màster Universitari Erasmus Mundus MEDFOR     |
| · TRENDS OF FORESTRY IN A GLOBAL CHANGE CONTEXT  | Màster Universitari Erasmus Mundus MEDFOR     |
| · INDÚSTRIES DE PRODUCTES FORESTALS NO FUSTANERS | Màster Universitari Erasmus Mundus MEDFOR     |
| · EUROPEAN FORESTRY FIELD COURSE                 | Màster Universitari Erasmus Mundus Forestal I |



## Recent Publications

Regué A, Bassié L, de-Miguel S, Colinas C (2019) Environmental and stand conditions related to *Fistulina hepatica* heart rot attack on *Castanea sativa*. For Pathol e12517. doi: 10.1111/efp.12517

Castaño C, Alday JG, Lindahl BD, Martínez de Aragón J, de-Miguel S, Colinas C, Parladé J, Pera J, Bonet JA (2018) Lack of thinning effects over inter-annual changes in soil fungal community and diversity in a Mediterranean pine forest. For Ecol Manage 424:420–427. doi: 10.1016/j.foreco.2018.05.004

Karavani, A., Boer, M.M., Baudena, M., Colinas, C., Díaz-Sierra, R., Pemán, J., de Luis, M., Enríquez-de-Salamanca, Á., Resco de Dios, V. Fire-induced deforestation in drought-prone Mediterranean forests: Drivers and unknowns from leaves to communities (2018) Ecological Monographs, . Article in Press.

Yurkewich, J.I., Castaño, C., Colinas, C. Chestnut Red Stain: Identification of the fungi associated with the costly discolouration of *Castanea sativa* (2017) Forest Pathology, 47 (4), art. no. e12335.

García-Montero LG, Manzano P, Alwanney, Colinas C, Verrecchia EP (2017) Towards Integrated Understanding of the Rhizosphere Phenomenon as Ecological Driver: Can Rhizoculture Improve Agricultural and Forestry Systems? Soil Biological Communities and Ecosystem Resilience. Springer International Publishing, Cham, pp 43–75

Liu, B., Bonet, J.A., Fischer, C.R., Martínez de Aragón, J., Bassie, L., Colinas, C. *Lactarius deliciosus* Fr. soil extraradical mycelium correlates with stand fruitbody productivity and is increased by forest thinning (2016) Forest Ecology and Management, 380, pp. 196-201.

Liu, B., Fischer, C.R., Bonet, J.-A., Castaño, C., Colinas, C. Shifts in soil fungal communities in *Tuber melanosporum* plantations over a 20-year transition from agriculture fields to oak woodlands (2016) Forest Systems, 25 (1), art. no. eSC05, 5 p.

Büntgen, U., Egli, S., Schneider, L., von Arx, G., Rigling, A., Camarero, J.J., Sangüesa-Barreda, G., Fischer, C.R., Oliach, D., Bonet, J.A., Colinas, C., Tegel, W., Ruiz Barbarin, J.I., Martínez-Peña, F. Long-term irrigation effects on Spanish holm oak growth and its black truffle symbiont (2015) Agriculture, Ecosystems and Environment, 202, pp. 148-159.

Castaño, C., Bassie, L., Oliach, D., Gómez, M., Medina, V., Liu, B., Colinas, C. *Cryphonectria hypovirus 1* (CHV-1) survey reveals low occurrence and diversity of subtypes in NE Spain (2015) Forest Pathology, 45 (1), pp. 51-59.

Olivera, A., Bonet, J.A., Oliach, D., Colinas, C. Time and dose of irrigation impact *Tuber melanosporum* ectomycorrhiza proliferation and growth of *Quercus ilex* seedling hosts in young black truffle orchards (2014) Mycorrhiza, 24 (S1), pp. 73-78.

Olivera, A., Bonet, J.A., Palacio, L., Liu, B., Colinas, C. Weed control modifies *Tuber melanosporum* mycelial expansion in young oak plantations (2014) Annals of Forest Science, 71 (4), pp. 495-504.

Liu, B., Fischer, C., Bonet, J.A., Olivera, A., Inchusta, A., Colinas, C. Pattern of *Tuber melanosporum* extramatrical mycelium expansion over a 20-year chronosequence in *Quercus ilex*-truffle orchards (2014) Mycorrhiza, 24 (S1), pp. 47-54.



- Jaillard, B., Barry-Etienne, D., Colinas, C., De Miguel, A.-M., Genola, L., Libre, A., Neveu, P., Oliach, D., Saenz, W., Saez, M., Salducci, X., Souche, G., Sourzat, P., Villeneuve, M. Alkalinity and structure of soils determine the truffle production in the Pyrenean Regions (2014) *Forest Systems*, 23 (2), pp. 364-377.
- de Aragón, J.M., Fischer, C., Bonet, J.A., Olivera, A., Oliach, D., Colinas, C. Economically profitable post fire restoration with black truffle (*Tuber melanosporum*) producing plantations (2012) *New Forests*, 43 (5-6), pp. 615-630.
- Olivera, A., Fischer, C.R., Bonet, J.A., de Aragón, J.M., Oliach, D., Colinas, C. Weed management and irrigation are key treatments in emerging black truffle (*Tuber melanosporum*) cultivation (2011) *New Forests*, 42 (2), pp. 227-239.
- Martínez de Aragón, J., Riera, P., Giergiczy, M., Colinas, C. Value of wild mushroom picking as an environmental service (2011) *Forest Policy and Economics*, 13 (6), pp. 419-424.
- Suz, L.M., Martín, M.P., Fischer, C.R., Bonet, J.A., Colinas, C. Can NPK fertilizers enhance seedling growth and mycorrhizal status of *Tuber melanosporum*-inoculated *Quercus ilex* seedlings? (2010) *Mycorrhiza*, 20 (5), pp. 349-360.
- Oliva, J., Colinas, C. Epidemiology of *Heterobasidion abietinum* and *Viscum album* on silver fir (*Abies alba*) stands of the Pyrenees (2010) *Forest Pathology*, 40 (1), pp. 19-32.
- Bonet, J.A., Palahí, M., Colinas, C., Pukkala, T., Fischer, C.R., Miina, J., Martínez de Aragón, J. Modelling the production and species richness of wild mushrooms in pine forests of the Central Pyrenees in northeastern Spain (2010) *Canadian Journal of Forest Research*, 40 (2), pp. 347-356.
- Palahí, M., Pukkala, T., Bonet, J.A., Colinas, C., Fischer, C.R., Martínez de Aragón, J.R. Effect of the inclusion of mushroom values on the optimal management of even-aged pine stands of Catalonia (2009) *Forest Science*, 55 (6), pp. 503-511.
- Oliva, J., Suz, L.M., Colinas, C. Ecology of *armillaria* species on silver fir (*Abies alba*) in the spanish pyrenees (2009) *Annals of Forest Science*, 66 (6), pp. 603p1-603p8.
- Robin, C., Capdevielle, X., Martin, M., Traver, C., Colinas, C. *Cryphonectria parasitica* vegetative compatibility type analysis of populations in south-western France and northern Spain (2009) *Plant Pathology*, 58 (3), pp. 527-535.
- Samils, N., Olivera, A., Danell, E., Alexander, S.J., Fischer, C., Colinas, C. The socioeconomic impact of truffle cultivation in rural Spain (2008) *Economic Botany*, 62 (3), pp. 331-340.
- Suz, L.M., Martín, M.P., Oliach, D., Fischer, C.R., Colinas, C. Mycelial abundance and other factors related to truffle productivity in *Tuber melanosporum*-*Quercus ilex* orchards (2008) *FEMS Microbiology Letters*, 285 (1), pp. 72-78.
- Bonet, J.A., Pukkala, T., Fischer, C.R., Palahí, M., Aragón, J.M.D., Colinas, C. Empirical models for predicting the production of wild mushrooms in Scots pine (*Pinus sylvestris* L.) forests in the Central Pyrenees (2008) *Annals of Forest Science*, 65 (2), art. no. 206.



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