



José Antonio Bonet

Professor Agregat

Personal Information



Download image

Position: Professor Agregat

Area of expertise: Silvicultura

Address: ETSEA, Edifici Principal A, despatx 0.12.1

Phone: +34 973 702848

E-mail: jantonio.bonet@udl.cat [<mailto:jantonio.bonet@udl.cat>]

University degrees

- Engineer de Forest, Universitat de Lleida (UdL), 1996
- Doctorat, UdL, 2001
- MBA, EADA, 2007

Previous activities

- 2017—Professor agregat Serra-Hunter
- 2013-2017 Professor agregat interí
- 2009-2013 ;Professor Lector, UdL
- 2003-2009, Professor associat, UdL
- 2001 - 2009, Director de Recerca, CTFC
- 1998-2001, Investigador Centre Tecnològic Forestal de Catalunya (CTFC)



Research

- Sanitat forestal.
- Micologia forestal.
- Silvicultura
- Bioenergia
- Espais Naturals protegits

Teaching

- REPOBLACIÓ FORESTAL Grau en Enginyeria Forestal
- EFICIÈNCIA ENERGÈTICA I ENERGIES RENOVABLES Grau en Enginyeria Agronòmica
- ENERGIES RENOVABLES EN EL MEDI FORESTAL Màster Universitari en Enginyeria de Forests
- PLANIFICACIÓ I GESTIÓ D'ESPAYS NATURALS PROTEGITS Màster Universitari en Enginyeria de Forests
- INDÚSTRIES DE PRODUCTES FORESTALS NO FUSTANERS Màster Universitari en Enginyeria de Forests
- POLÍTICA AMBIENTAL Màster Universitari en Enginyeria de Forests
- MEDITERRANEAN FOREST MANAGEMENT Màster in Mediterranean Forestry (MEDFOR) MUNDUS
- TRENDS OF FORESTRY IN A GLOBAL CHANGE CONTEXT Màster in Mediterranean Forestry (MEDFOR) MUNDUS
- FORESTRY SECTOR IN CATALONIA Màster in Mediterranean Forestry (MEDFOR) MUNDUS
- FORESTRY FIRES IN NE SPAIN Màster in Mediterranean Forestry (MEDFOR) MUNDUS

Recent Publications

FRANCO-MANCHÓN, I.; SALO, K.; ORIA-DE-RUEDA, J.A.; **BONET, J.A.**; MARTÍN-PINTO, P. 2019 "Are wildfires a threat to Fungi in European Pinus Forests?. A case study of Boreal and Mediterranean Forests?. Forests, 10, 309, doi:10.3390/f10040309.

CASTAÑO, C.; LINDAHL, B.D.; ALDAY, J.G.; HAGENBO, A.; MARTÍNEZ DE ARAGÓN, J.; PARLADÉ, J.; PERA, J.; **BONET, J.A.** 2018. "Soil microclimate changes affect soil fungal communities in a Mediterranean pine forest". New Phytologist, DOI: 10.1111/nph.15205.

COLLADO, E.; CAMARERO, J.J.; MARTÍNEZ DE ARAGÓN, J.; PAMAN, J.; BONET, J.A.; de-MIGUEL, S. 2018. "Linking fungal dynamics, tree growth and forest management in a Mediterranean pine ecosystem". Forest, Ecology and Management, 422: 223-232.

ROCES-DIAZ, J.; VAYREDA, J.; BANQUÉ-CASANOVAS, M.; CUSÓ, M.; ANTÓN, M.; **BONET, J.A.**; BROTONS, L.; DE CÁCERES, M.; HERRANDO, S.; MARTÍNEZ DE ARAGÓN, J.; de-MIGUEL, S.; MARTÍNEZ-VILALTA, J. 2018. "Assessing the distribution of forest ecosystem services in a highly populated Mediterranean region". Ecological indicators, 93: 986-997.



CASTAÑO, C.; ALDAY, J.G.; LINDAHL, B.D.; MARTÍNEZ DE ARAGÓN, J.; de-MIGUEL, S.; COLINAS, C.; PARLADÉ, J.; 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 and Management, 424: 420-427 DOI: 10.1111/nph.15205.

ROCES-DIAZ, J.; VAYREDA, J.; BANQUÉ-CASANOVAS, M.; DIAZ-VARELA, E.; **BONET, J.A.**; BROTONS, L.; de-MIGUEL, S.; HERRANDO, S.; MARTÍNEZ-VILALTA, J. 2018. "The spatial level of analysis affects the patterns of forest ecosystem services supply and their relationships". Science of the Total Environment 626C (2018) pp. 1270-1283.

KARAVANI, A.; DE CÁCERES, M.; MARTÍNEZ DE ARAGÓN, J.; **BONET, J.A.**; DE-MIGUEL, S. 2018. "Effect of climatic and soil moisture conditions on mushroom productivity and related ecosystem services in Mediterranean pine stands facing climate change". Agriculture and Forest Meteorology, 248: 432-440. DOI:10.1016/j.agrformet.2017.10.024.

CASTAÑO, C.; ALDAY, J.G.; PARLADÉ, J.; PERA, J.; MARTÍNEZ DE ARAGÓN, J.; **BONET, J.A.** 2017. "Seasonal dynamics of the ectomycorrhizal fungus *Lactarius vinosus* are altered by changes in soil moisture and temperature". Soil Biology and Biochemistry, 115: 253-260. DOI:10.1016/j.soilbio.2017.08.021.

TOMAO, A.; **BONET, J.A.**; MARTÍNEZ DE ARAGÓN, J.; De-MIGUEL, S. 2017. "Is silviculture able to enhance wild forest mushroom resources? Current knowledge and future perspectives". Forest, Ecology and Management, 402: 102-114 (DOI: 10.1016/j.foreco.2017.07.039).

SOLER, M.; **BONET, J.A.**; MARTÍNEZ DE ARAGÓN, J.; VOLTAS, J.; COLL, L.; RESCO DE DIOS, V. 2017. "Crown bulk density and fuel moisture dynamics in *Pinus pinaster* stands are neither modified by thinning nor captured by the Forest Fire Weather Index". Annals of Forest Science. DOI:10.1007/s13595-017-0650-1.

CASTAÑO, C.; OLIVA, J.; MARTÍNEZ DE ARAGÓN, J.; ALDAY, J.; PARLADÉ, J.; PERA, J.; **BONET, J.A.** 2017. "Mushroom Emergence Detected by Combining Spore Trapping with Molecular Techniques". Applied and Environmental Microbiology. DOI: 10.1128/AEM.00600-17.

ALDAY, J.G.; MARTÍNEZ DE ARAGÓN, J.; DE-MIGUEL, S.; **BONET, J.A.** 2017. "Mushroom biomass and diversity are driven by different spatio-temporal scales along Mediterranean elevation gradients". Scientific Reports, 7, 45824; doi: 10.1038/srep45824.

GÓRRIZ-MIFSUD, E.; GOVIGLI, V.M.; **BONET, J.A.** 2017. "What to do with mushroom pickers in my forest?. Policy tools from landowners' perspective". Land Use Policy, 63: 450-460.

ALDAY, J.G.; **BONET, J.A.**; ORIA-DE-RUEDA, J.A.; MARTÍNEZ-DE-ARAGÓN, J.; ALDEA, J.; MARTÍN-PINTO, P.; DE-MIGUEL, S.; HERNÁNDEZ-RODRÍGUEZ, M.; MARTÍNEZ-PEÑA, F. 2017. "Record breaking mushroom yields in Spain". Fungal Ecology. DOI:10.1016/j.funeco.2017.01.004.

GÓRRIZ-MIFSUD, E.; SECCO, L. ; DA RE, R.; PISSANI, E.; **BONET, J.A.** 2017. "Structural social capital and local-level forest governance: do they inter-relate?. A mushroom permit case in Catalonia". Journal of Environmental Management, 188: 364-378.

PROKOFIEVA, I.; GÓRRIZ-MIFSUD, E.; **BONET, J.A.**; MARTÍNEZ DE ARAGÓN, J. 2017. "Viability of introducing payments for the collection of wild forest mushrooms in Catalonia (North-East Spain)". Small Scale Forestry, 16(2): 147-167. DOI: 10.1007/s11842-016-9348-8.



LIU, B.; **BONET, J.A.**; FISCHER, C.R.; MARTÍNEZ DE ARAGÓN, J.; BASSIE, L.; COLINAS, C. 2016. “*Lactarius deliciosus* Fr. soil extraradical mycelium is more resilient to Forest thinning than mushroom fruiting and can be used to estimate potential stand fruitbody productivity”. Forest. Ecology and Management, 380: 196-201. DOI: 10.1016/j.foreco.2016.08.053.

PRIMICIA, I.; CAMARERO, J.J.; MARTINEZ DE ARAGÓN, J.; DE-MIGUEL, S.; **BONET, J.A.** 2016. “Linkages between climate, seasonal Wood formation and mycorrhizal mushroom yields”. Agricultural and Forest Meteorology, 228 (2016): 339-348.

TAYE, Z.M.; MARTÍNEZ-PEÑA, F.; **BONET, J.A.**; MARTÍNEZ DE ARAGÓN, J.; DE-MIGUEL, S. 2016. “Meteorological conditions and site characteristics driving edible mushroom production in Pinus pinaster forests of Central Spain”. Fungal Ecology, 23: 30-41.

CASTAÑO, C.; PARLADÉ, J.; PERA, J.; MARTÍNEZ DE ARAGÓN, J.; ALDAY, J.G.; **BONET, J.A.** 2016. “Soil drying procedure affects the DNA quantification of *Lactarius vinosus* but does not change the Fungal community composition”. Mycorrhiza. DOI: 10.1007/s00572-016-0714-3.

LIU, B.; FISCHER, C.R.; **BONET, J.A.**; CASTAÑO, C.; COLINAS, C. 2016. “Shifts in soil fungal communities in *Tuber melanosporum* plantations over a 20-year transition from agriculture fields to oak woodlands”. Forest Systems, 25 (1). DOI: 10.5424/FS/2016251-08353.

BONET J.A. 2011. Reptes de futur per a la recerca forestal a Catalunya. Silvicultura 24:16-28

BRAVO F., ALVAREZ-GONZÁLEZ J.G., DEL RIO M., BARRIO M., **BONET J.A.**, BRAVO-OVIEDO A., CALAMA R., CASTEDO-DORADO F., CRECENTE-CAMPO F., CONDES S., DIEGUEZ-ARANDA U., GONZÁLEZ-MARTÍNEZ S.C., LIZARRALDE O., NANOS N., MADRIGAL A., MARTÍNEZ-MILLÁN F.J., MONTERO G., ORDÓÑEZ C., PALAHI M., PIQUÉ M., RODRÍGUEZ F., RODRÍGUEZ-SOALLEIRO R., ROJO A., RUÍZ-PEINADO R., SÁNCHEZ-GONZÁLEZ M., TRASOBARES A., VÁZQUEZ-PIQUÉ J.. 2011. Growth and yield models in Spain: historical overview, contemporary examples and perspectives. Investigacion Agraria-Sistemas y Recursos Forestales 20:315-328.

OLIVERA A., FISCHER C.R., **BONET J.A.**, MARTINEZ DE ARAGON J., OLIACH D., COLINAS C. 2011. Weed management and irrigation are key treatments in emerging black trufe (*Tuber melanosporum*) cultivation. New Forests 42 (2) 227-239

BONET J.A., PALAHI M., COLINAS C., PUKKALA T., FISCHER C.R., MIINA J., MARTÍNEZ DE ARAGÓN J. 2010. Modelling the production and species richness of wild mushrooms in pine forests of Central Pyrenees in north-eastern Spain. Canadian Journal of Forest Research 40:347-356.

SUZ L.M., MARTÍN M.P., FISCHER C.R., **BONET J.A.**, COLINAS C. 2010. Can NPK fertilizers enhance seedling growth and mycorrhizal status of *Tuber melanosporum*-inoculated *Quercus ilex* seedlings? Mycorrhiza 20 : 349 - 360 .

PALAHI M., PUKKALA T., **BONET J.A.**, COLINAS C., FISCHER C.R., MARTINEZ DE ARAGON J. 2009. Effect of the inclusion of mushroom values on the optimal management of even-aged pin estands of Catalonia. Forest Science 55:503-511.

BLANCO E., **BONET J.A.**, EIZAGUIRRE M. 2009. Uso de imágenes satélite Landsat para la detección de rodales de *Pinus nigra* Arn. y *Pinus sylvestris* L. afectados por escolítidos. Investigacion Agraria-Sistemas y Recursos Forestales 18:264-275.



BONET J.A., OLIACH D., FISCHER C., OLIVERA A., MARTÍNEZ DE ARAGÓN J., COLINAS C. 2009. Cultivation methods of the black truffle, the most profitable Mediterranean non-wood forest product: A state of Art Review. Pp. 57-71. En: Modelling, Valuing and Managing Mediterranean Forest Ecosystems for non-Timber Goods and Services (Palahí, M., Birto, Y., Bravo, E., Gorrioz, E., eds.). EFI Proceedings 57. ISSN 1237-8801, ISBN 978-952-5453-27-0

BONET J.A.; PUKKALA T.; FISCHER C.; PALAHÍ M.; MARTÍNEZ DE ARAGÓN J.; COLINAS C. 2008. Empirical models for predicting the production of wild mushrooms in Scots pine forests in the Central Pyrenees. Annals of Forest Science 65(2):206p1-206p9

MARTÍNEZ DE ARAGÓN J., **BONET J.A.**, FISCHER C.R., COLINAS C. 2007. Productivity of ectomycorrhizal and selected edible saprotrophic fungi in pine forests of the pre-Pyrenees mountains, Spain: Predictive equations for forest management of mycological resources. Forest, Ecology and Management 252: 239-256.

COLINAS C., CAPDEVILA J.M., OLIACH D., FISHER C.R., **BONET J.A.** 2007. Mapa d'aptitud per al cultiu de la tòfona negra (Tuber melanosporum Vitt.) a Catalunya. Centre Tecnològic Forestal de Catalunya. 134 pp.

OLIACH D., **BONET J.A.**, FISCHER C.R., OLIVERA A., MARTÍNEZ DE ARAGÓN J., SUZ L.M., ROVIRA O., COLINAS C. 2007. Alternatives productives en l'àmbit agrari. La tòfona negra. Diversificació agrària a la província de Lleida. Centre Tecnològic Forestal de Catalunya. 61 pp.

BONET J.A., FISCHER C.R., COLINAS C. 2006. Cultivation of black truffle to promote reforestation and land-use stability. Agronomy for Sustainable Development 26: 69-76

BONET J.A., FISCHER C.R., COLINAS C. 2004. The relationship between orientation and forest age on the production of sporocarps of ectomycorrhizal fungi in Pinus sylvestris forests of the Central Pyrenees. Forest, Ecology and Management 203: 157-175

BONET J.A. 2002. La formació dels professionals forestals a Catalunya. Silvicultura 35: 13

BONET J.A., COLINAS C. 2001. Cultivo de Tuber melanosporum Vitt. Condiciones y rentabilidad. Forestalia, 5: 38-45

BONET J.A., COLINAS C. 2000. Cultivo de Tuber melanosporum Vitt. <http://labpatfor.udl.es/docs/cultivotrufa.html>

Per més informació (Consultes GREC [<http://webgrec.udl.cat/cgi-bin/DADREC/crgen.cgi?FONT=3&IDI=CAT&PID=367567&IDNC=201210161350170>])