

## PROGRAMME

## THURSDAY 20th OCTOBER

8:30-9:30	Registration		
	<b>Theme 1: Ecophysiology and genetics of <i>Quercus suber</i></b>	<b>Abstract code</b>	<b>Chairman: Graça Oliveira</b>
10:00-10:30	<b><i>Invited conference:</i> GOTILWA+: A process-based model of forest growth to explore adaptive management to climate change</b>	<b>1</b>	<b>Carlos Gracia</b>
10:30-10:40	Anatomical characterization of the <i>Quercus suber</i> zygotic embryo development	2	López-Vela, D. Celestino, C. Carneros, E. Toribio, M. Alegre, J.
10:45-10:55	Fine-scale genetic structure in a <i>Quercus suber</i> – <i>Quercus ilex</i> mixed “dehesa”	3	Soto, A. Lorenzo, Z. Gil, L.
11:00-11:10	Genetic variation in growth and form characteristics of <i>Quercus suber</i> L. In Tunisia	4	Mohamed Larbi, K. Lamia, H. Lamjed, T. Hédi, S. Abdelhamid, K.
11:15-11:25	Growth of <i>Quercus suber</i> seedlings under different light and water treatments. Greenhouse and field experiments	5	Villar, R. Marañón, T. Quero, J.M. Pérez-Ramos, I.M. Vega, D.
11:30-11:40	Litterfall production of cork oak forest in Montseny massif in relation to climate	6	Caritat, A.
11:40-12:00	Coffee		
12:00-12:30	Inauguration of the Conference		
	<b>Theme 2: Cork oak growth and yield models</b>		<b>Chairman: Heinrich Spiecker</b>
12:45-13:15	<b><i>Invited conference:</i> Applied methods for intra-annual analysis of wood formation</b>	<b>14</b>	<b>Annie Deslauriers</b>
13:30-15:00	Lunch		

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15:00-15:10	A generalized height-diameter growth equation for cork oak forests in Spain	15	Sánchez, M. Cañellas, I. Montero, G.
15:15-15:25	Influence of climate and soil conditions on cork oak diameter changes. An approach based on high resolution point dendrometers	16	Vázquez, J. Torres, E. Suarez, M.A. Tapias, R. González, A.
15:30-15:40	Comparative study of the effect of three coefficients of debarking on the growth of the cork oak forest of Ain Draham (Tunisia)	17	Salah, G.
15:45-15:55	Multivariate statistics to support geostatistical analysis in growth modelling of cork oak plants	18	Sedda, L. Dettori, S.
16:00-16:10	Radial changes of cork oak stems under the influence of cork stripping in Rio Frio, Portugal	19	Spiecker, H. Duncker, P.
16:15-16:25	Cork oak wood growth and anatomy in relation to climatic factors and cork extraction	20	Leal, S. Pereira, H.
16:30-16:40	The new version of the SUBER model-predicting multi products from the cork oak ecosystem	21	Tomé, M. Paulo, J. Almeida, A. Bugalho, M.
16:45-17:15	<b>Coffee</b>		
17:15-17:45	<b>Poster session Themes 1-4</b>		
	<b>Theme 3: Regeneration and silviculture</b>	<b>Abstract code</b>	<b>Chairman: Margarida Tomé</b>
17:45-17:55	Factors limiting the natural regeneration of <i>Quercus suber</i> in South Spain	31	Pérez-Ramos, I.M. Marañón, T.
18:00-18:10	Using cork growth curves to determinate optimal debarking rotation in cork oak forest of Andalusia (Spain)	32	Torres, E. Alaejos, J. Sanchez-Auni6n, M.F.

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18:15-18:25	Plant regeneration from an endangered valuable cork oak tree by somatic embryogenesis	33	Hernandez I. Celestino, C. López-Vela, D. Carneros, E. Jiménez, J. Alegre, J. Gil, L. Toribio, M.
18:30-18:40	Effect of <i>Pinus sylvestris</i> L. and <i>Pinus nigra</i> Arn. thinning on juvenile cork oak ( <i>Quercus suber</i> L.) growth in Bozoo (Burgos, Spain)	34	Salguero, M.L. Allué, C. García, C. Tapias, R. González, A. Vázquez, J.
<b>Theme 4: Health of cork oak forests</b>		<b>Abstract code</b>	<b>Chairman: Israel Sánchez</b>
18:45-18:55	Course of the decline incidence during 2002-2004 period in declining cork-oak stands in Sardinia (Italy)	38	Ruiu, P.A. Sechi, C. Linaldeddu, B.T. Franceschini, A.
19:00-19:10	Microbiological control of lepidopterous defoliators in Sardinian cork oak forest	39	Luciano, P. Lentini, A.
19:15-19:25	Variability of tolerance / resistance of <i>Quercus suber</i> L. seedlings to <i>Phytophthora cinnamomi</i> Rands. Survival and growth evaluation.	40	Tapias, R. Moreira, A.C. Cravador, A. Fernández, M. Alcuña, M. Saenz, A. Domingos, A.C. Melo, E.

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<b>Theme 5: Multiobjective management and sustainability of cork oak forests</b>		<b>Abstract code</b>	<b>Chairman: José G. Borges</b>
9:00 – 9:10	Advances in decision support tools for multi-objective cork-oak ecosystem management	47	Loff, J.F. Pereira, S. E. Borges, J.G. Falcão, A.O. Ribeiro, R.P. Oliveira, V.
9:15 – 9:25	ECCORK: Ecological based decision support system for cork oak stands	48	Ribeiro, N.A. Surovy, P. Pinheiro, A. Oliveira, A.C. Pereira, J.S.
9:30 – 9:40	Phytopathological aspects in the cork oak forest's management	49	Franceschini, A. Corda, P. Marras, F.
9:45 – 9:55	Sustainable logging of the forests of cork oaks in the mountains ranges of the Aljibe and field of Gibraltar	50	Jurado Doña, V. Benítez Benítez, M.A.
10:00– 10:10	Monitoring endangered cork oak areas: a case study in Portugal	51	Costa, A. Pereira, H.
<b>10:15–10:45</b>	<b>Coffee</b>		
<b>10:45–11:15</b>	<b><i>Invited conference:</i> The WWF strategy to ensure the conservation of the cork oak landscapes</b>	52	<b>Nora Berrahmouni</b>
<b>Theme 6: Cork &amp; Wood production and quality</b>		<b>Abstract code</b>	<b>Chairman: Helena Pereira</b>
11:15– 11:25	Cork oak woodlands raw producers for industry: historical survey	62	Seita Coelho, I.

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11:30-11:35	IPROCOR'S Experience with the IPLA cork harvesting machine	63	Antolín, P.G. Díaz, A. González, J.A Guerra, M. Iglesias, J.M. Maestre, A. Peralta, A. Pianu, B. Del Pozo, J.L Robledano, L. Rodríguez, M.A. Sánchez, L. Santiago, R. Sanz, J. Vasco, A.
11:40-11:50	Variation of compression and tensile properties of cork	64	Anjos, O. Pereira, H. Rosa, M.E.
12:00-12:10	Hygroscopic properties and dimensional stability of cork oak wood	65	Sousa, V. Leal, S. Pereira, H
12:15-12:25	Variation of cork oak wood density	66	Louzada, J.L. Knapic, S. Pereira, H.
	<b>Theme 7: Innovation and new products</b>	<b>Abstract code</b>	<b>Chairman: Helena Pereira</b>
12:30-12:40	Development of a device to evaluate cork quality in the tree	81	Rosa, M.E. Fortes, M.A.
12:45-12:55	Towards the adoption of a standardised classification of cork stoppers	82	Pereira, H. Costa, A.
<b>13:00-15:00</b>	<b>Lunch</b>		
15:00-15:10	New Cork products patented by INETI	83	Gil, L. Pereira, C. Silva, P.
15:15-15:25	Industrial testing of cork oak wood in saw milling and production of adhesive bound components	84	Knapic, S. Pereira, H.
15:30-16:00	<b>Invited conference: Perspectives for spanish juniper (<i>Juniperus thurifera</i> L.) and pyrenean oak (<i>Quercus pyrenaica</i> Willd) wood</b>	<b>85</b>	<b>Miguel Broto Iñigo Lizarralde</b>

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**FRIDAY 21st OCTOBER**

<b>16:00-16:30</b>	<b>Coffee</b>		
<b>16:30-17:00</b>	<b>Poster session Themes 5-8</b>		
<b>17:00-19:00</b>	<b>Round table: New challenges for cork oak forests and products</b>		
<b>19:00-19:15</b>	<b>Conference closing</b>		
<b>21:00</b>	<b>Conference dinner</b>		

**SATURDAY 22nd OCTOBER**

**8:15 – 14:00. Field visit to an experimental plot in Hinojos (Huelva).**

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## Selected posters

Theme 1: Ecophysiology and genetics of <i>Quercus suber</i>		
Abstract code	Title	Authors
7	Comparative ecophysiology of <i>Quercus suber</i> and other accompanying oak species in dehesa systems: effects on resource use efficiency in photosynthesis	Mediavilla, S. Escudero, A.
8	Instant light-response curves of chlorophyll fluorescence in cork oak seedlings grown under different light environments	Jiménez, M.D. Pardos, M. Puértolas, J. Pardos, J.A.
9	Isotopic discrimination of C <sup>13</sup> in <i>Quercus suber</i> L. provenances	Aranda, I. Castro, L. Iglesias, S. Pardos, J.A. Gil, L.
10	Non-destructive determination of leaf area index in isolated <i>Quercus suber</i> trees	Oliveira, G. Correia, O. Maia, R. Silva, P. Ferreira, S.
11	Photosynthetic light response of <i>Quercus suber</i> seedlings grown in a combination of light and water regimes	Quero, J.L. Villar, R. Marañón, T.
12	Simulation analysis of <i>Quercus ilex</i> - <i>Quercus suber</i> chloroplast introgression	Soto, A. López de Heredia, U. Robledo-Arnuncio, J.J. Gil, L.
13	Seasonal pattern of physiological status in a <i>Quercus suber</i> L. stand in Huelva (Spain)	González, A. Vázquez, J. Tapias, R. Fernández, M.

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## Selected posters

Theme 2: Cork oak growth and yield models		
Abstract code	Title	Authors
22	Alcornoque v1.0: A sustainable management oriented growth and yield model for cork oak forests in Spain	Sánchez, M Tomé M. Del Río, M. Cañellas, I. Montero, G.
23	BAF: Before and after stem imaging as a tool for assesing the cork growth	Surový, P. Ribeiro, N.A. Oliveira, A.C.
24	Effect of mineral fertilisation on the young cork oak ( <i>Quercus suber</i> L.) growth	Azevedo Gomes, A.
25	Geostatistic estimation of the variables related to the cork yield in Cortes de la Fontera (Málaga, Spain)	Calzado, A. Torres, E.
26	Influence of climate, soil and stand variables on cork growth	Paulo, J. Tomé, M. Tomé, J.
27	Variation of cork oak radial growth	Costa, A. Pereira, H.
28	Influence of silviculture and environment on cork+wood growth based on band dendrometer data	Vázquez, J. Suarez, M.A. Tapias, R. Torres, E.
30	A new tool for sampling microcores from tree stems	Deslauriers, A. Rossi, S. Anfodillo, T. Menardi, R.

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## Selected posters

Theme 3: Regeneration and silviculture		
Abstract code	Title	Authors
35	A experience of thinning in <i>Quercus suber</i> L.	Suarez, M.A. Torres, E. Calzado, A. Vázquez, J. Gonzalez, A.
36	Height growth of a naturally developed forest of not yet stripped cork oaks	Torres, E. Suarez, M.A. Oliva, M.
37	Regeneration and cork oak growth after fire in Kroumirie's forest (Tunisia)	Souayah, N Khouja, M.L. Ncibi, R Khaldi, A.

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## Selected posters

Theme 4: Health of cork oak forests		
Abstract code	Title	Authors
41	Application of the electroantennography (EAG) of olfactory stimuli in the cork oak ( <i>Quercus suber</i> L.) woodborer <i>Prinobius germari</i> Dejean (Coleoptera, Cerambycidae)	Sánchez-Osorio, I. Tapias, R. Dominguez, L. López, G.
42	Diversity of endophytic fungal communities in twigs and leaves of <i>Quercus suber</i> in healthy and declining cork oak forests	Linaldeddu, B.T. Maddau, L. Franceschini, A.
43	Early stages of infection of cork and holm oak trees by <i>Phytophthora cinnamomi</i>	Pires, N. Maia, I. Moreira, A. Medeira, C.
44	Interaction between water status and infection by <i>Phytohthora cinnamomi</i> on growth and physiological responses of <i>Quercus suber</i>	Quartin, V. Campos, P.S. Semedo, J. Matos, A. Andrade, S. Domingos, A.C. Melo, E.M Moreira, A. C. Matos, M.C.
45	Physiological effect of <i>Phytophthora cinnamomi</i> infestations in <i>Quercus suber</i> seedlings	Tapias, R. Fernandez, M. Salvador, L. Santana, R. García, J. Alcuña, M.M. José, V. Inchusta, A. Vázquez, J. Torres, E. Cravador, A.
46	Solutions to the decline in “ Los Alcornocales” Natural Park.	Oliveiros, F. Sánchez, R. Luque, L. Bonilla, V.M. Cordero, R.

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## Selected posters

Theme 5: Multiobjective management and sustainability of cork oak forests		
Abstract code	Title	Authors
53	Conservation status of thermomediterranean cork-oak forest in the province of Huelva	López, I. Hidalgo, P.J. Heras, M.A. Marín, J.M. Vivas, P.
54	Cork and CO <sub>2</sub> fixation	Gil, L. Pereira, C. Silva, P.
55	Forest management in cork oak mediterranean timberland of ENCE group at the southwest peninsular cork oak forests	Fernandez, Y. Jiménez, A. Martínez, S.
56	Towards a reliable and cost efficient forest inventory for cork oak stand management	Paulo, J. Tomé, M. Cunha, I. Meyer, A. Almeida, A.
57	Optimizing cork oak dehesa forest management using FORECAST ecosystem model	Cuevas, S. Vázquez, F.M. Torres, E. Blanco, J. Bindraban, P.
58	Spatial distribution model of cork oak forest of Andalusia	Marín, J.M. Hidalgo, P.J. Quijada, M. Patiño, M. Heras, M.A. Moreira, J.M.
59	Historical evolution of cork oak forest in "Los Alcornocales" Natural Park	Oliveros, F. Sánchez, R. Luque, L. Bonilla, V.M. Cordero, R.
60	The management plans in "Los alcornocales" natural park	Oliveros, F. Sánchez, R. Luque, L. Bonilla, V.M. Cordero, R.
61	Long term economic analysis of <i>Quercus suber</i> managed under different forest management systems	Paulo, J. Tomé, M.

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## Selected posters

<b>Theme 6: Cork &amp; Wood production and quality</b>		
<b>Abstract code</b>	<b>Title</b>	<b>Authors</b>
67	Detection of mycotoxins in corks	Pi, M. Adelantado, C. Calvo, M.A.
68	Influence of cork plank quality in the industrial production of cork discs	Fernandes, R. Lauw, A. Pereira, H.
69	Mechanization of cork extraction and first evaluation on the debark programming in an experimental area of the Sardinia	Paschino, F. Gambella F.
70	New methodology to differentiate cork quality classes - The dynamic mechanical thermal analysis	Pestana, M. Albuquerque Sardinha, R.M. Louzada, J.L.P. Correia Diogo, A.
71	Positive aspects of the microorganisms isolated from cork	Pi, M. Adelantado, C. Calvo, M.A.
72	Quality of cork stoppers: State of the art in surface treatments used in its manufacture	Ortega,C. González- Adrados, J.R. García Vallejo, M.C.
73	Influence of cork density on compression	Anjos, O. Rodrigues, C. Morais, J. Pereira, H.
74	Reproducible and expedite classification criterion to foresee which cork strips will give good stoppers of natural cork	Pestana, M. Louzada, J.L.P. Albuquerque Sardinha, R.M.
75	Air drying and kiln drying of cork oak wood	Knapic, S. Pereira, H.
76	Cork oak wood: a hard material to sample and measure	Leal, S. Gonzalez, A. Vazquez, J. Duncker, P Spiecker, H. Pereira, H.

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## Selected posters

Theme 6 (Cont.): Cork & Wood production and quality		
Abstract code	Title	Authors
77	Cork oak wood properties	Leal, S. Knapic, S. Sousa, V. Rodrigues, J. Callot, H. Machado, J. Lousada, J.C. Pereira, H.
78	Production of cork oak wood components for flooring	Knapic, S. Pereira, H.
79	Radial variation of wood cell dimensions in cork oak ( <i>Quercus suber</i> L.)	Leal, S. Sousa, V. Pereira, H.
80	Fungal colonisation of cork – brief analysis of some inter-dependent facts.	Pereira, C.S. Basilio, C. Gaspar, R. Pereira, H. San Romão, V.

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## Selected posters

Theme 7: Innovation and new products		
Abstract code	Title	Authors
86	Industrial testing of cork oak wood in veneer	Vázquez, J. González, A. Pereira, H.
87	Saw milling of cork oak logs	Knapic, S. Pereira, H.
88	Stabilisation of sewage sludge using cork industrial waste	Pestana, M.
89	New technological demands for cork industry: Requirements and solutions	Azevedo, A.
90	COVELESS Device, A technological contribution to the cork's sector.	Rodríguez, J.M. Leal, R.
91	New challenges for cork product promotion in international markets	Pedro, E.
92	Stem reconstruction models and simulation programmes. Tools to evaluate potential wood production in young cork oaks	Knapic, S. Pinto, I. Usenius, A. Pereira, H.