

## Elsevier Biobase

### FILE DESCRIPTION

**Elsevier BIOBASE** is a bibliographic current awareness database providing comprehensive coverage of the entire spectrum of biological research worldwide.

Elsevier BIOBASE contains more than 1.8 million records with 273,000 additional records added per year. Records are selected from more than 1,900 international source journals.

Elsevier BIOBASE focuses on current and comprehensive data. Citations and abstracts are available online within 15 days of the receipt of the source material.

### SUBJECT COVERAGE

Elsevier BIOBASE covers the spectrum of biological information:

- Applied Microbiology & Biotechnology
- Cancer Research
- Cell and Developmental Biology
- Clinical Chemistry
- Ecological & Environmental Sciences
- Endocrinology & Metabolism
- Genetics & Molecular Biology
- Immunology & Infectious Diseases
- Neuroscience
- Plant Science
- Protein Biochemistry
- Toxicology

### TIPS

#### USE FILE 71

to find information on biological topics from more than 2,000 international sources.

#### USE /DE

to search for a subject:

SELECT SEED GERMINATION/DE

#### USE THE CABS CLASSIFICATION

to search broad subject categories. Type HELP CODES 71 to see a complete list:

S SH=92.7.1.1

#### USE RANK

to see what other terms could be used as descriptors:

SELECT PINUS(W)NIGRA/DE  
RANK DE

### DIALOG FILE DATA

Inclusive Dates: 1994 to present

Update Frequency: Weekly

File Size: 1.8 million records as of May 2006

### CONTACT

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## SAMPLE RECORD

DIALOG(R)File 71: Elsevier BIOBASE 1997/OCT  
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**AZ=,AA=** 00700032 97208730  
**/TI** Effects of high temperatures and ash on seed germination of two iberian pines (*Pinus nigra* ssp *salzmannii*, *P sylvestris* var *iberica*) Escudero A.; Barrero S.; Pita J.M.  
**AU=**  
**CS=** ADDRESS: A. Escudero, Dpto Biologia Vegetal, EUIT Agricola, Universidad  
**CN=** Politecnica de Madrid, 28040 Madrid, Spain  
**SO=,DT=,JN=,PY=,CP=** Journal: Annales des Sciences Forestieres ,54/6 (553-562) ,1997, France  
**CD=** CODEN: ANSFA  
**SN=** ISSN: 0003-4312  
**DT=** DOCUMENT TYPE: Article  
**LA=,SL=** LANGUAGES: English SUMMARY LANGUAGES: English; French  
 NO. OF REFERENCES: 51

**/AB** The effect of high temperatures and ash on seed germination of two Iberian pines (*Pinus nigra* ssp *salzmannii* and *P sylvestris* var *iberica*) has been studied. These two pines are widely distributed in the oromediterranean and supramediterranean bioclimatological belts of the eastern half of the Iberian Peninsula. Our results are clearly very similar for both pines. Seed cover protects embryos up to 70 degreeC (germination percentage above 90%), which is a very low temperature for a wildfire, catastrophically failing when this temperature is surpassed. Addition of ash solutions did not modify this trend. As has been previously reported, both pines have photophilous seeds, which indicates that they can regenerate rapidly after disturbance, except wildfires, as our results illustrate. These results confirm the field observations after very large fires in extensive and homogeneous pine forests (> 10 000 Ha), in the sense that recruitments of both pines are extremely rare after disturbance. At a community level, our results seem to indicate that pine formations must be naturally confined to the oromediterranean belt or at permanent stands in spurs, crests or steep rocky slopes where density is very low and wildfires do not become catastrophic. The existence of formations in the supramediterranean belt must be man-induced (landscape changes) and driven, not necessarily planted, and can be rapidly substituted by oak formations after intense wildfires.

**/DE** DESCRIPTORS:  
 Ash; Heat treatment; *Pinus nigra*; *Pinus sylvestris*; Seed germination; Wildfires

**/DE** SPECIES DESCRIPTORS:  
*Pinus nigra*; *Pinus sylvestris*

**SH=,SH** CLASSIFICATION DESCRIPTORS:  
 92.7.1.1-PLANT SCIENCE / DEVELOPMENT / Vegetative Development / Germination and dormancy  
 92.13.1.6-PLANT SCIENCE / ENVIRONMENTAL BIOLOGY / Ecology / Interactions with environment  
 91.2.3.1-ECOLOGICAL AND ENVIRONMENTAL SCIENCES / ABIOTIC ENVIRONMENT / Interactions with the Abiotic Environment / Climate  
 91.5.5.3-ECOLOGICAL AND ENVIRONMENTAL SCIENCES / ECOLOGY OF INDIVIDUALS / Growth and Size / Plant

## SEARCH OPTIONS

## BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S HIGH(W)TEMPERATURE?
/AB	AB	Abstract	Word	S SEED(W)COVER?/AB
/DE	DE	Descriptor <sup>1,2</sup>	Word & Phrase	S HEAT(W)TREATMENT/DE
/SH	SH	Classification Description <sup>3</sup>	Word & Phrase	S SEED GERMINATION/DE
/TI	TI	Title	Word	S ENVIRONMENTAL(W)BIOLOGY/SH
				S PLANT SCIENCE/SH
				S IBERIAN(W)PINE?/TI

<sup>1</sup> Also /DF.<sup>3</sup> Use HELP CODES 71 for the list of Classification codes and description<sup>2</sup> Not present in all records.

## ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	IP Accession Number	Phrase	S AA=97208730
AU=	AU	Author or Editor	Phrase	S AU=PITA J.M.
—	AZ	DIALOG Accession Number		
CD=	CD	CODEN	Phrase	S CD=ANSFA
CN=	CN	Author's Country <sup>4</sup>	Phrase	S CN=SPAIN
CP=	CP	Country of Publication	Phrase	S CP=FRANCE
CS=	CS	Corporate Source	Word	S CS=(UNIVERSIDAD(W)POLITECNICA)
DT=	DT	Document Type	Phrase	S DT=ARTICLE
—	EL	Email Address		
—	HD	History Date <sup>6</sup>		
II=	II	Publisher Item Identifier (PII) <sup>5</sup>	Phrase	S II=S0002961097000846
JN=	JN	Journal Name	Phrase	S JN=ANNALES DES SCIENCES FORESTIERS
LA=	LA	Language	Phrase	S LA=ENGLISH
—	NR	Number of Reference		
PD=	PD	Publication Date <sup>6</sup>	Phrase	S PD=19970000
PY=	PY	Publication Year	Phrase	S PY=1997
SH=	SH	Classification Code and Description <sup>3</sup>	Phrase	S SH=92.7.1.1
SL=	SL	Summary Language	Phrase	S SL=FRENCH
SN=	SN	International Standard Serial Number (ISSN)	Phrase	S SN=0003-4312
SO=	SO	Source Information	Word	S SO=(ANNALES AND FORESTIERES)
SQ=	SQ	Molecular Sequence Database/Number <sup>6</sup>	Word	S SQ=(GENBANK(W)M89923)
UD=	—	Update	Phrase	S UD=9999

<sup>4</sup> Author's country also searchable as CS=<sup>6</sup> Available from January 1998 forward.<sup>5</sup> Beginning in 1997.

**SPECIAL FEATURES**

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP DUP, HELP CURRENT online.

<b>LIMIT</b>	/ABS -- Abstract Present /ENG -- English-Language Records /NOABS -- No Abstract Present /NONENG -- Non-English Language Records /YYYY -- Publication Year	S S1/ABS S S3/ENG S S5/NOABS S S2/NONENG S S4/1999:2002
<b>SORT</b>	AU, JN, PD, PY, TI	SORT S2/ALL/TI SORT S1/ALL/PY/D
<b>RANK</b>	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE	RANK DE RANK SH S1
<b>RD, ID</b>	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
<b>CURRENT</b>	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 71 CURRENT2

**PREDEFINED FORMAT OPTIONS**

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	Medium	Full Record except Abstract
3	Short	Bibliographic Citation
4	--	Full Record Tagged
5	--	Full Record
6	Free	Title
7	Long	Abstract and Bibliographic Citation
8	--	Title and Descriptors
9	Full	Full Record
K	--	KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats

**OTHER OUTPUT OPTIONS**

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

<b>USER DEFINED FORMATS</b>	Output may be specified using the display codes indicated in Search Options tables.	TYPE S2/AU,TI,SO/1-5 PRINT S1/TI,PY/ALL
<b>TAG</b>	Output can be displayed with tags identifying each display field	TYPE S4/9/ALL TAG PRINT S2/5/1-10 TAG DISPLAY S1/7/ALL TAG
<b>DIRECT RECORD ACCESS</b>	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 00085603/9 PRINT 00095905/5 DISPLAY 2097017/4

**FOR ONLINE HELP:**

See HELP FIELDS 71 for searchable fields; HELP FORMAT 71 for output formats; HELP LIMIT 71 for limits; HELP RATES 71 for cost information; HELP SORT 71 for sorts.