



News

Articles

Videos

Images

Books

Health &amp; Medicine

Mind &amp; Brain

Plants &amp; Animals

Earth &amp; Climate

Space &amp; Time

Matter &amp; Energy

## Science News

[Share](#) [Blog](#) [Cite](#)

### New Insect On Balearic Islands

*ScienceDaily* (July 15, 2009) — After 10 years of biochemical and molecular analysis of the *Tyrrhenoleuctra plecoptera* that live in the Western Mediterranean, Spanish and Italian scientists have now demonstrated that one of the insect populations of this group is a distinct and, therefore, new species.

See also:

#### Plants & Animals

- [New Species](#)
- [Insects \(and Butterflies\)](#)
- [Zoology](#)

#### Earth & Climate

- [Exotic Species](#)
- [Geography](#)
- [Water](#)

#### Reference

- [Wild Cat](#)
- [Species](#)
- [Cricket \(insect\)](#)
- [Gecko](#)

The researchers, including a team from the University of Granada (UGR), used biochemical and molecular techniques for a decade to detail the taxonomical and phylogenetic relationships of the insects of the *Tyrrhenoleuctra plecoptera* genus that are spread across the Western Mediterranean (northern Africa, Iberian Peninsula, Balearic Isles, Corsica and Sardinia). The analyses included three species described using morphological characters as a basis.

"One of the results discovered and published in our studies is that the population of *Tyrrhenoleuctra* on the Balearic Islands is a clearly distinct

taxon and demands acknowledgement of its status as an independent species", José Manuel Tierno de Figueroa, co-author of the study and a researcher in the Department of Animal Biology at the UGR explained SINC.

In order to demonstrate that the insect, called *Tyrrhenoleuctra antoninoi*, is really a species in its own right the team of scientists, comprising the Spanish researcher and Romolo Fochetti from the Tuscia University of Studies (Italy), wrote a scientific description in the journal *Zootaxa*, with biochemical (based on studies of enzymatic electrophoresis) and molecular characters (by means of mitochondrial DNA fragment sequencing).

Among the results of the study, Tierno de Figueroa and Fochetti highlighted the fact that insect was genetically distinct and "more closely related to populations on the southern Iberian peninsula and northern Africa than to those found on Corsica and Sardinia". The researchers also highlight that *Tyrrhenoleuctra* evolve molecularly at a "considerably slower rate than other insects distributed similarly in geographical terms.

#### Very Different Insects

Populations of insects belonging to the *Tyrrhenoleuctra*



This is *Tyrrhenoleuctra antoninoi*. (Credit: José Manuel Tierno de Figueroa / SINC)

Ads by Google

[Advertise here](#)

#### Cursos Técnicos Granada

Cursos Técnicos En Granada Cursos Con Prácticas y Bolsa Empleo  
[www.MasterD.es/Cursos\\_Granada](http://www.MasterD.es/Cursos_Granada)

#### Int. Diabetes Monitor

Online articles and trends in clinical diabetes.  
[InternationalDiabetesMonitor.com](http://InternationalDiabetesMonitor.com)

#### Managed Forestry

What your Advisers are Not Paid To Tell You  
Average 16% over 40 yrs  
[www.greenwood-management.com](http://www.greenwood-management.com)

#### Levemir®

Info for health care professionals on Levemir® and reduced weight gain  
[www.NovoNordisk.com](http://www.NovoNordisk.com)

#### Vuelos Granada desde 20 €

Aprovecha nuestra oferta hasta el 31 julio 2009.  
¡Plazas limitadas!  
[www.eDreams.es](http://www.eDreams.es)

#### Related Stories



**Loggerhead Turtle Territories Defined By Salinity of Sea Water In Western Mediterranean** (Dec. 17, 2008) — Researchers have shown that

Just  
Anci

Sci



Mi  
Te  
Mi  
Di  
Cli  
Cli  
mc

Bre

Inc  
uni  
pro  
NA  
sp  
tar  
Mc  
go  
ad  
NA  
shi  
pe  
Sp  
do

ple... a genus... can be  
streams, sometimes at s...  
the... Other News...  
water in the medium or h...  
clarified. The scientists p...  
analyses to also discern...  
implications.

A study...  
variation in almost all the...  
separate species. Thus...  
as inter-specific variabilit...  
useless for identification...  
Three U.S. troops...  
The... new species...  
Tyrone...  
Sánchez-Ortega, who di...  
part of his life to studying...  
Peninsula.

for African-  
Americans

Journal references

1. Cuba priest murder: T...  
species of Leucrida...  
molecular and bioch...  
space shuttle fuel...  
Tyrone...  
200taxa, 2112: 41-46

Keep Guantanamo...  
Adapted from materials...  
open, September 11...  
families say

Email or share this story

Need to cite this story  
Use one of the following

- APA FECYT - Sp...  
Technology...  
Balearic Isla...  
17, 2009, from http://www.sciencedaily.com
- MLA /releases/2009/07/090715101507.htm

Copyright Reuters 2008. See [Restrictions](#).

## Brazil

Eucalyptus Plantations

Make  
8% to 14%  
per annum

Government Backed.  
Secure Investments.

Click here  
for more information

water  
usual for  
oxygenated  
...  
molecular  
cal

own great  
e to  
s as high  
characters  
d.

antonino  
e best  
n

uel. A new  
f  
coptera).

ish

e

ort?

ce and  
t On  
ed July

the salinity of sea water could act as a "barrier",  
preventing the turtles from moving between the  
areas of the Western Mediterranean. This is why  
loggerhead turtles from ... > [read more](#)

### Insects Cultivate 'Antibiotic-producing Bacteria' In Their Antennae

(Apr. 3, 2007) — Bacteria live  
in, on and around us and other organisms with  
sometimes very beneficial results. For the first time  
scientists have shown that one species of insect  
deliberately cultivates bacteria in ... > [read more](#)



### Tale Of Two Snails Reveals Secrets About The Biochemistry Of Evolution

(Nov. 8, 2008) — Researchers in Spain are  
reporting deep new insights into how  
evolution changes the biochemistry of living things,  
helping them to adapt to new environments. Their  
study, based on an analysis of ... > [read more](#)



### Study Catches Two Bird Populations As They Split Into Separate Species

(July 14, 2009) — A new study finds that a  
change in a single gene has sent two  
closely related bird populations on their way to  
becoming two distinct species. The study is one of  
only a few to investigate the ... > [read more](#)



### Insect Biodiversity In Amazon May Be Result Of Ice Age Climate Change And Ancient Flooding, Not River Barriers

(July 29, 2008) — Ice  
age climate change and ancient flooding -- but not  
barriers created by rivers -- may have promoted  
the evolution of new insect species in the Amazon  
region of South America, a new study suggests. ...  
> [read more](#)

Number of stories in archives: 44,032

Find with keyword(s):

Free Subscription

from ScienceDaily

Search

Get the latest science news with our free email  
newsletters, updated daily and weekly. Or view  
hourly updated newsfeeds in your RSS reader:  
Ads by Google

[Advertise here](#)

[Email Newsletters](#)

### Spanish Courses Granada

Learn Spanish in Granada quality

small groups.. we want to

[www.linguaschools.com](http://www.linguaschools.com)

Tell us what you think of the new ScienceDaily --  
we welcome both positive and negative comments.  
Have any problems using the site? Questions?

Your Name:

Your Email:

Comments:

### "NEW - Obesity Remedy"

Rare African Weight-Loss Herb. Lose  
25 Pounds in 2 Weeks!

[www.AppliedNutritionalResearch.com](http://www.AppliedNutritionalResearch.com)

### Hoteles Baratos Granada

Alojamientos económicos todo el  
año en todo el centro de Granada.

Entra

[Ofertas-Hotel-Granada.Excite.es](http://Ofertas-Hotel-Granada.Excite.es)