



HAL
open science

Intraspecific variability in the parasitoid *Trichogramma chilonis*: assessing the role of hybridization in the framework of a biological control program

Chiara Benvenuto, Elisabeth Tabone, Nathalie Sorbier, ETTY Colombel, Sylvie Warot, Xavier Fauvergue, Nicolas Ris

► To cite this version:

Chiara Benvenuto, Elisabeth Tabone, Nathalie Sorbier, ETTY Colombel, Sylvie Warot, et al.. Intraspecific variability in the parasitoid *Trichogramma chilonis*: assessing the role of hybridization in the framework of a biological control program. 14th Evolutionary Biology Meeting, Sep 2010, Marseille, France. 1 p., 2010. <hal-02824363>

HAL Id: hal-02824363

<https://hal.inrae.fr/hal-02824363v1>

Submitted on 6 Jun 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



HAL Authorization

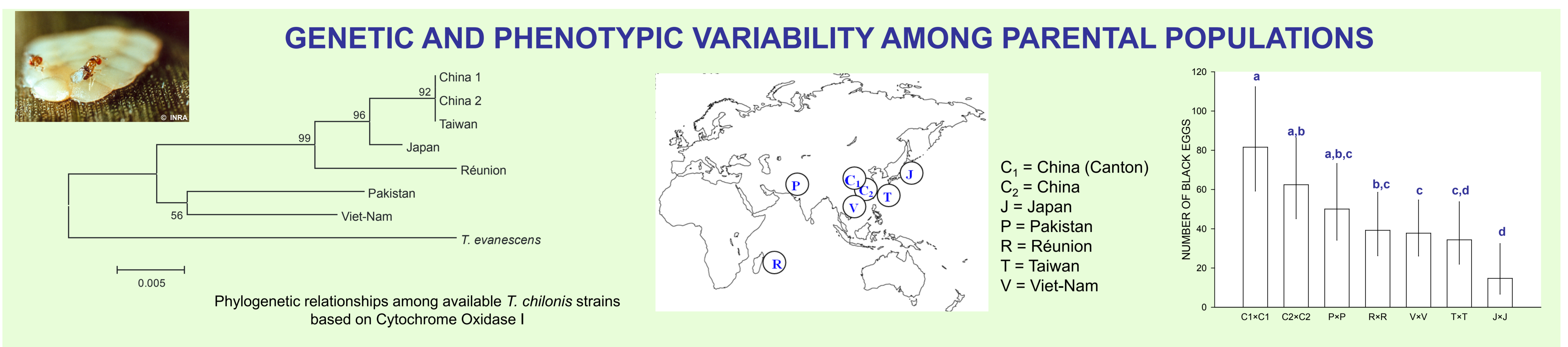
INTRASPECIFIC VARIABILITY IN A PARASITOID INSECT: CONTRASTING EFFECTS OF HYBRIDIZATION ON FITNESS

Benvenuto C^{1,2}, Tabone E², Sorbier N², Colombel E², Warot S², Fauvergue X¹, Ris N²

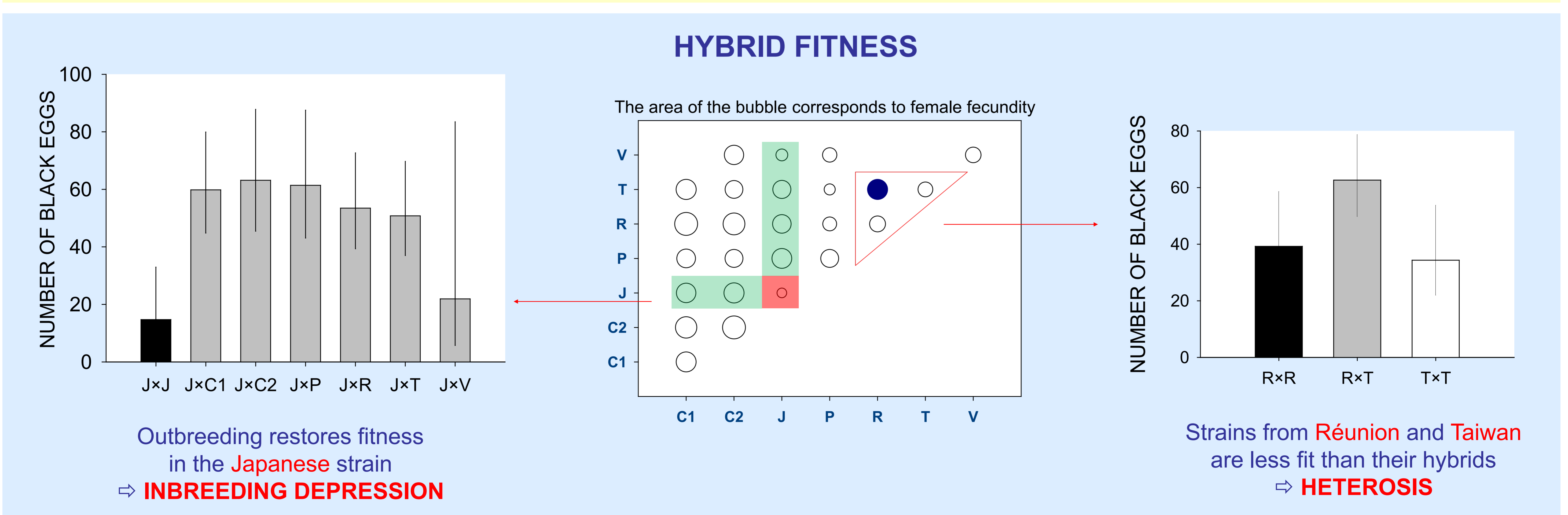
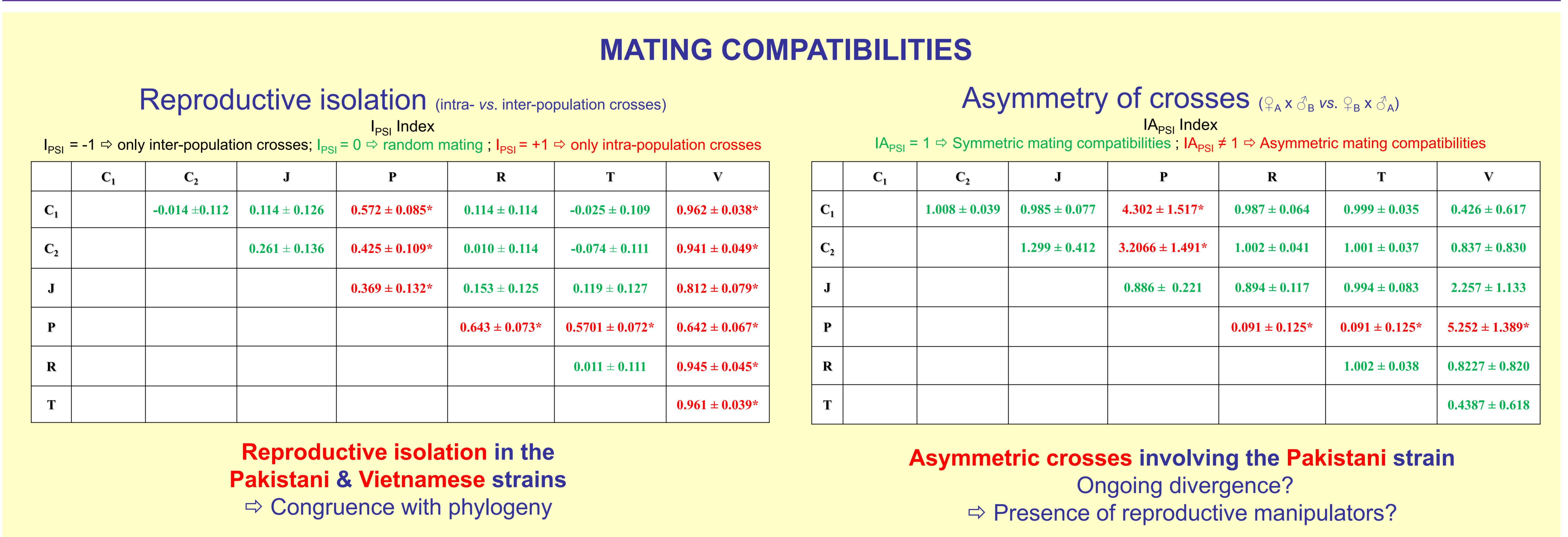
¹ Equipe Biologie des Populations en Interaction, UMR IBSV 1301 INRA-UNSA-CNRS - ² Unité Expérimentale de Lutte Biologique
400 Route des Chappes, BP 167, Sophia-Antipolis, 06903, France

Consequences of hybridization on fitness = a controversial topic
in evolutionary biology and applied ecology:
speciation, biological invasions, biological control, conservation biology

CASE STUDY: THE EGG PARASITOID *TRICHOGRAMMA CHILONIS*, A CANDIDATE BIOCONTROL AGENT



HYBRIDIZATION SUCCESS = MATING COMPATIBILITIES + HYBRID FITNESS



Variable outcomes of hybridization on fitness

Opportunities to exploit *a posteriori* the positive effects of hybridization
But: Can we really predict *a priori* the consequences of hybridization?