

Current contribution of French research to rice biotechnology

in

Clément G. (coord.), Cocking E.C. (coord.).
FAO MedNet Rice: Breeding and Biotechnology Groups: Proceedings of the Workshops

Montpellier : CIHEAM

Cahiers Options Méditerranéennes; n. 8(2)

1994

pages 80

Article available on line / Article disponible en ligne à l'adresse :

<http://om.ciheam.org/article.php?IDPDF=CI020575>

To cite this article / Pour citer cet article

Current contribution of French research to rice biotechnology. In : Clément G. (coord.), Cocking E.C. (coord.). *FAO MedNet Rice: Breeding and Biotechnology Groups: Proceedings of the Workshops*. Montpellier : CIHEAM, 1994. p. 80 (Cahiers Options Méditerranéennes; n. 8(2))



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Current Contribution of French Research to Rice Biotechnology

CIRAD-CNRS-ORSTOM
(France)

1. Research projects carried out at CIRAD

- ❑ Anther culture of tropical upland and Mediterranean rice F1 hybrids: large scale production of double haploids and methodological improvement (D. Filloux, 1984): Tissue culture facility, RouJol CIRAD research center, F-97170 Petit Bourg, Guadeloupe, French West Indies.
- ❑ Tissue culture and transformation of elite tropical upland and Mediterranean rices (H. Chaïr and E. Guiderdoni, 1990): CIRAD-CA, BIOTROP-GERDAT unit, Tissue culture laboratory, BP 5035, F-34032 Montpellier Cedex, France.
- ❑ Identification of *Bacillus thuringiensis* strains and toxin genes active against rice stemborers (L. Fiuza and R. Frutos, 1992): BIOTROP-GERDAT unit, IGEPAM laboratory, CIRAD, BP 5035, F-34032 Montpellier Cedex, France.
- ❑ Identification and mapping of *Magnaporthe grisea* avirulence genes (D. Tharreau, D. Silue, and J.L. Notteghem, 1990): CIRAD-CA, Plant pathology laboratory, BP 5035, F-34032 Montpellier Cedex, France (in collaboration with M.H. Lebrun, CNRS, Paris Sud-Orsay University, France).
- ❑ Mapping blast and rice yellow mottle virus resistance genes (J.L. Notteghem and N. Ahmadi) (same address as above) in collaboration with D. Fargette and A. Ghesquière, ORSTOM, Montpellier, France), N. Huang (IRRI, Los Banos, Philippines) and S. Mc Couch (Cornell University, USA).
- ❑ Diversity of bacterial sheath rot agent using PCR-RFLP (T. Jaunet and J.L. Notteghem, 1990) (same address as above).
- ❑ Mapping genes conferring grain aroma in rice through RFLP and HPLC analyses (M. Petrov, M. Lorieux, J. Faure): CIRAD-CA, BP5035, 34032 Montpellier Cedex, France.

2. Research projects carried out at CNRS

- ❑ Identification and characterization of rice lipid transfer protein genes (M. Delseny and F. Vignols, 1991): University of Perpignan, Laboratoire de physiologie et biologie moléculaire, URA CNRS 565, 52, avenue de villeneuve, F-66860 Perpignan Cedex, France.
- ❑ Identification, mapping and cloning of *Magnaporthe grisea* avirulence genes (M. H. Lebrun): Institut de génétique et de microbiologie, CNRS URA 1354, Université de Paris Sud, F-91405 Orsay, France.
- ❑ Research projects carried out at ORSTOM
- ❑ Diversity analysis and varietal identification in Mediterranean rice through RAPD and microsatellite markers (A. Ghesquière, 1994): ORSTOM, BP5045, F-34032 Montpellier Cedex, France.
- ❑ Molecular diversity of the rice yellow mottle virus genome and mapping of RYMV resistance genes in rice (D. Fargette and A. Ghesquière, 1992). Same address as above.
- ❑ Genetic engineering of resistance to tungro virus in rice (C. Fauquet, A. de Kochko, M. Bonjidou, P. Marmey, 1991): ORSTOM, ILTAB, The Scripps Institute, 10666, Torrey Pines Road, La Jolla, California 92037, USA (Joint project with the Scripps Institute and the Rockefeller Foundation).