Advance Program

SALMONID REPRODUCTION

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An International Symposium
Advancement and Synchronization of Spawning in Salmo gairdneri and S. trutta Following Administration of Pimozide and LHRH-A

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The spawning of rainbow trout was advanced by more than 1 month in 60% of females after pimozide injection (10 mg/kg body weight) followed by LHRH-A injection (1 µg/kg) 6 h. later. Advancement was clearly less marked when we injected either LHRH-A or pimozide alone and when the controls were given only saline solution. Ovum fertility was comparable in all groups.

With the aim of avoiding two successive injections, we tried administering pimozide (10 mg/kg in an injection) and LHRH-A (implant containing 50 and 5 µg/kg body weight) simultaneously in brown trout during full spawning. The layings of females given pimozide plus LHRH-A were grouped over a 4-day period and those of females given only pimozide or a blank implant over 8 days.