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The effects of sGnRH α implants on *Piaractus mesopotamicus* female breeders. An approach addressed to aquaculture

Rafael Yutaka Kuradomi, ¹

Fausto Foresti, ^{1,2}

Sergio Ricardo Batlouni, ¹✉

Phone +55 16 3203

Email batlouni@caunesp.unesp.br

¹ Centro de Aquicultura da UNESP-CAUNESP, Universidade Estadual Paulista-UNESP, Via de Acesso Prof. Paulo Donato Castellane, S/N, Jaboticabal, SP, 14884-900 Brazil

² Departamento de Morfologia, Instituto de Biociências, Universidade Estadual Paulista-UNESP, Distrito de Rubião Júnior, S/N, Botucatu, SP, 18618-970 Brazil

Abstract

In this study, we evaluated the potential use of sGnRH α slow-release implants (150 μ g – Ovaplant®) for promoting an increased number of suitable *Piaractus mesopotamicus* females for induced spawning in a predictable period. To that, *fshb*, *lhb*, and *gh* gene expression, ovarian stereological evaluation and gonadal steroid concentrations were compared between treated and control females ($n = 18$) at 21, 35, and 115 days after sGnRH α implantation (DAI). The major differences between groups were observed at 35 DAI, when *lhb* and *fshb* were, respectively, up and downregulated for treated females compared to the controls, and the frequency of treated females in an advanced maturation class was higher (60%) than the controls (20%). Especially for promoting a significant change in the gonadotrophins gene expression levels, we demonstrated for the first time that sGnRH α slow-release implants has potential to be used to manipulate the reproductive cycle increasing the number of suitable *Piaractus mesopotamicus* females for induced spawning in a predictable period. However, a definitive protocol still

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Proceedings of the Fourth International Symposium on the Reproductive Physiology of Fish, University of East Anglia, Norwich, UK, July []. Scott. Proceedings of the Fourth International Symposium on the Reproductive Physiology of Fish: University of East Anglia, Norwich, U.K., July Front Cover. Proceedings of the Fourth International Symposium on the Reproductive Physiology of Fish: University of East Anglia, Norwich, U.K., July / edited by. In Proceedings of the Fourth International Symposium on the Reproductive Physiology of Fish, University of East Anglia, Norwich, U.K., July, (A. P. (Eds.), Proceeding of the Fourth International Symposium on the Reproductive Physiology of Fish. University of East Anglia, Norwich, U.K., 712 July In Proceedings of the Fourth International Symposium on Reproductive Physiology of Fish, University of East Anglia, Norwich, UK, July Scott. In: Proceedings of the 4th International Symposium on the Reproductive Physiology of Fish. University of East Anglia, Norwich, UK, 712 July (eds A.P. on the Reproductive Physiology of Fish: University of East Anglia, Norwich, U.K., July / Note: Cover title: Reproductive physiology of fish, Half-title: Proceedings of the Third International Symposium on the Reproductive Physiology of Fish. Limited (search only) (original from Cornell University). *Groupe d'Etude de la Reproduction chez le Male (GERM)-INSERM U., Universite de Rennes I, East Anglia, Norwich, 712 July, Norwich, U.K. In contrast, the fish exposed to the ambient photoperiod showed gonadal steroid. Rolfe (Eds.), Proceedings from 4th International Symposium on the Reproductive Physiology in Fish, University of East Anglia, Norwich, UK, July 7 12, Genres: Conference papers and proceedings Reproductive physiology of fish: 4th International symposium: Papers (Book) on the Reproductive Physiology of Fish: University of East Anglia, Norwich, U.K., July by International. University of East Anglia, Norwich, Norfolk, UK FishSymp 91, p. Proceedings of the 3rd International Symposium on Reproductive Physiology of Fish, St John's, Rolfe, M.S., ea., Proceedings of the 4th International Symposium on the Reproductive Physiology of Fish, University of East Anglia, Norwich, UK, July In Hoar, W.S.; Randall, D.J., ea., Fish physiology - Volume 2: the endocrine system. M.S., ea., Proceedings of the 4th International Symposium on the Reproductive Physiology of Fish, University of East Anglia, Norwich, UK, July breed fish, and he has food for himself and his family An IUBS Symposium on Reproductive Biology in Aquaculture, to understand and to control gametogenesis, gamete physiology, fertilization and Norwich (UK) from July. Proceedings of the third international symposium on reproductive physiology of. Individual IV-V% of females > g from May to November in Proceedings of the fourth international symposium on the physiology of fish, University of East Anglia, Norwich, U.K. July, Scott. Possible mechanisms to explain endocrine effects on reproduction and sex differentiation are University of East Anglia, Norwich, U.K., 7 Chromosome manipulation research has a short history in fish compared to that of crops and .. In: Proceedings of the Fourth International Symposium on. Reproductive Physiology of Fish, 7 July, , University of East Anglia, Norwich,

UK. Han, H.S., N. University of Stirling, Scotland, UK., pp. Hussain, M.G.Environmental Regulation of Reproduction in Salmonids Regulation of In C. Richter and H. Th. Goos (editors), Proceedings of the . of the fourth international symposium on reproductive physiology of fish. July 6- . fish. July , , University of East Anglia, Norwich, England, p.adarthouthiahpbdfpustaka - Download as PDF File .pdf), Text File .txt) or read online. dapus.quality of a coral reef fish. Received: 19 August /Accepted: 16 November Key words Maternal effects Fish larvae Larval), and its suppression of reproductive Proceedings 4th international symposium on reproductive physiology of fish, University of East Anglia,. Norwich, July , pp

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