

8th International Symposium on Fish Endocrinology **Honoring the Life-time Achievement of**





Perhaps more important than his publications or his service to the community, Professor Grau has been a gifted mentor for young scientists in the US, Japan and around the world. He provides an example of excellence in research and a contagious excitement for scientific discovery. Gordon has a sense of humor and a sense of justice in equal measure. His intellect, character and honesty stand as examples for emulation for all of us who have had the pleasure and privilege to work with him during his outstanding career. We can think of no one more deserving for a Lifetime Achievement Award in Fish Endocrinology.

Science 211 (1981) 607-609

Lunar phasing of the thyroxine surge preparatory to seaward migration of salmonid fish

E. Gordon Grau, Walter W. Dickhoff, Richard S. Nishioka and

Proc. Natl. Acad. Sci USA 88 (1993) 2758-2762

Proc. Natl. Acad. Sci USA 94 (1997) 2068-2072

Somatotropic actions of the homologous growth hormone (tGH) and prolactins in the euryhaline tilapia, Oreochromis mossambicus



American Journal of Physiology 284 (2003) C1280-C1289 Cell volume increase and extracellular Ca²⁺ are needed for hyposmotically induced prolactin release in tilapia.

Andre D. Scole Numer II Dichman Teterry Ilinone Ion Coole and

Gen. Comp. Endocrinol. 135 (2004) 90-99 **Changes in plasma concentrations of immunoreactive**

Am J Physiol: Reg, Int, & Comp Physiol. 309(10): R1251-63 (2015). **Prolactin**₁₇₇, **prolactin**₁₈₈ and **extracellular osmolality** independently regulate the expression of ion transport effectors in the gills of Mozambique tilapia.

Mayu Inokuchi Jason P Breves Shinsuke Moriyama Soichi Watanabe



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. Gordon Grau	a mirano, fan Cooke and	ouabain in the tilapia in response to changing salinity: Is ouabain a hormone in fish?		hanging salinity:	Toyoji Kaneko, Darren T. Lerner, E. Gordon Grau, and Andre P. Seale		
		Shingo Kajimura, To Juhani Leppauluoto	estsuya Hirano, Shinsuke Mo , and E. Gordon Grau	oriyama, Olli Vakkuri,			Additional achievements
2003 2004	2006	2000	2010	2014 2	015	Retired,	 Published 202 original papers (and still counting) Mentored 35 graduate students and 19 post-do
2003 2004 Demonstrate plant-derived s poison, is an osmotic signal into a smoregulatory balance, signal into a	A that ou abain, a Center ou abain, a coregulatory	2009 ← President / ← President / ← President / For a Sustainable Fut	ident — Association Director of Haw ure Colle	Retired \longrightarrow of the University vai'i Sea Grant ege Program	Vided eviden on as osmore actin to modu ilatory functio	- University of Hawai'i at Mānoa March 1, 2016 Ce that ionocytes is branchiaj	 Council Member and Secretary-Treasurer, International Federation of Comparative Ender Societies (2005-2010). Chair, External Review Committee of the University of Tokyo, Ocean Research Institute (2008) Panel member, United States Department of Agriculture National Research Initiative Comp Grants Program (1994-1995) Organizer, Edwin W. Pauley Summer Program Fish Physiology and Comparative Endocrinolog (1986, 1988, 1992, 1996, 2004, 2008 and 2012)