
Agglomerular Kidney Toadfish Opsanus Tau Marshall

maintaining osmotic balance with an agglomerular kidney - the gulf toadfish, *opsanus beta*, is a marine teleost fish with an agglomerular kidney that is highly specialized to conserve water. despite this adaptation, toadfish have the ability to survive when in dilute hypoosmotic seawater environments. **the american journal of physiology - pdfsmanticscholar** - agglomerular kidneys of the goosfish (*lophius piscatorius*) and the toadfish (*opsanus tau*) have been reported. the kidney of the toadfish does not possess malpighian corpuscles, and the few which occur in the kidney of the goosfish have now been conclusively shown to be non-functional (grafflin, 1929). **nitrogen handling in the gulf toadfish - the journal of ...** - kidney of the gulf toadfish (*opsanus beta*) and further ... thiourea in the gulf toadfish *opsanus beta*: evidence for two transporters m. danielle mcdonald^{1,*}, ... tau) is generally believed to have an agglomerular kidney, although indirect evidence provided by lahlou et al. (1969) **excretion of ammonia and urea during development in the ...** - toadfish, *opsanus tau* bruce j. stephena,* and robert w. griffithb alcohol and drug abuse research center, mclean hospital, belmont, ma 02478; biology department, university of massachusetts dartmouth, ... acts as a diuretic in the agglomerular kidney of o. tau (bieter, 1931). **notes and comments - rd.springer** - oyster toadfish. introduction.:--the agglomerular kidney of the oyster toadfish, *opsanus tau* (linnaeus), first noted by marshall (1929), has been useful, in the past, as an index to the non-secretory ability of the renal tubules in other species (grafflin, 1931a; smith, 1951). excretion of substances, such as **branchial and renal urea transport mechanisms in three ...** - branchial and renal urea transport mechanisms in three teleost fish by m. danielle mcdonald, b ... branchial and renal urea transport mechanisms in three teleost fish author: m. danielle mcdonald, b. sc. (mcmaster university) ... evidence to be present in the gills of the facultatively ureotelic gulf toadfish (*opsanus beta*). using those ... **agglomerularism in antarctic fish - scienceencemag** - kidney molecules with molecularweights ... (ii) the kidney of the antarctic fish is agglomerular, preventing the movement of glycoproteins into the formative urine. ... for the agglomerular toadfish, *opsanus tau*; these authors reported ratios as high as 0.5. hickman and trump (1) **reports and letters - science** - reports and letters alkaline phosphatase in the kidneys of agglomerular fish renal tubular alkaline glycerophos-phatase has been demonstrated histo-chemically in most vertebrate species examined. perhaps the only exceptions are those reported by wilmer (1), who was unable to find the enzyme in the kidneys of the agglomerular toadfish, *opsanus tau* ... **physiological effects of high salinity in teleost fish** - toadfish exposed to hypersaline waters containing artificially low [mgso ... an agglomerular marine teleost. *journal of comparative physiology b: biochemical, systemic, and environmental physiology ... and kidney.* -/hco₃-exchange accounts for a substantial portion of intestinal cl-absorption occurring independently of na⁺ absorption ... **healthy - dm5migu4zj3pboudfront** - activity in the humankidney were determined (table i). tissue samples with a dry weight ranging from 10 to 100 * supported in part by grants from the surgeon gen-eral's office, u. s. army (contract no. da-49-007-md-637) andthe national institutes of health, bethesda, md. (h-3058 and h-3912). **publications - people.miami** - status in the gulf toadfish (*opsanus beta*) *aquat tox* 74: 32-46 18. mcdonald md, grosell m (2006) maintaining osmotic balance with an agglomerular kidney. *comp biochem physiol* 143a: 447-458 19. pane ef, mcdonald md, curry nh, blanchard j, wood cm, grosell m (2006) hydromineral balance in the marine gulf toadfish (*opsanus beta*) exposed to ...

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