UNIVERSITY OF MANITOBA

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PHD POSITION IN TRANSCRIPTOMICS OF DEVELOPING LAKE STURGEON

Longevity, late age to sexual maturity and intermittent spawning are all life history characteristics that make Lake Sturgeon vulnerable to human impact such as over-fishing and hydroelectric generation. Provincial, First Nation, Industry and Federal bodies have used conservation aquaculture and stock enhancement approaches as a mitigative strategy to protect and sustain threatened or endangered populations of Lake Sturgeon throughout Manitoba for decades. The successful applicant will join a multidisciplinary group examining the interaction between rearing environment and phenotypic development in Lake Sturgeon populations throughout the Province of Manitoba. The position will involve development of transcriptomic tools to better understand the interaction between rearing environment, genotype and developing phenotype to tailor rearing practices in conservation aquaculture of Lake Sturgeon toward the ultimate goal of increasing fitness potential of the stocked fish. A background in modern molecular techniques such as high throughput sequencing and bioinformatics is desirable. For further information please contact Ken Jeffries (Ken.Jeffries@umanitoba.ca) or W. Gary Anderson (Gary.Anderson@umanitoba.ca).