Influence of androgens on the gestural signals of the foot-flagging frogs *Staurois parvus*

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The project aims to test how the actions of androgenic hormones modify visual foot-flagging signals in male *Staurois parvus*. Prior data show that the emergence of foot flagging – a signal that is produced by conspicuously waving the hind limb – is marked by a 10-fold increase in androgen receptors (ARs) within the skeletal muscles that control this movement, compared to frogs that do not foot flag. Testosterone increases the frequency of foot-flags. We hypothesize that activation of AR also influences the kinematics of the signal and increased Testosterone during advertising likely enables precise control of foot flagging. We present and discuss results of experimental tests and slow-motion analysis of foot-flagging displays.