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# Neuroscience Of Birdsong

**neuroscience of birdsong: cambridge university press ...** - michael stumpf,aff1 corresponding affiliation: aff1 aff1 imperial college london, uk the title neuroscience of birdsong hardly does justice to the contents of this treasure of a book. **birdsong and human speech: common themes and mechanisms** - neuroscience, and it should be of interest to individuals in many of these fields. what our review reveals is that although the comparisons between birdsong annu. rev. neurosci. 1999.22:567-631. **book review - researchgate** - the title neuroscience of birdsong hardly does justice to the contents of this treasure of a book. while birdsong has been studied extensively in the context of behavioural ecology and evolution ... **synaptic basis for developmental plasticity in a birdsong ...** - the journal of neuroscience, july 1992, 12(7): 2464-2477 **synaptic basis for developmental plasticity in a birdsong nucleus richard mooney development of neural selectivity for birdsong during ...** - the journal of neuroscience, november 1993, 13(11): 4737-4747 **development of neural selectivity for birdsong during vocal learning part i foundations: singing and the brain** - 978-0-521-86915-7 - neuroscience of birdsong edited by h. philip zeigler and peter marler excerpt more information. both williams and kaplan would probably agree that the concept of a canonical stereotyped learned song, as in zebra finches, is useful as a tool for studying neural processes and that the ability of a species to thrive in captivity is a useful feature for a model. however, they would ... **a stable neural code for birdsong - cell** - birdsong production is stable for weeks. understanding mechanisms of experience-dependent plasticity is a major goal of neuroscience. yet attending a high school reunion can beg the deeper question: how do we stay the same? behavioral stability faces innumerable obstacles. ion channels and neurotransmitter receptors regularly turn over, synaptic weights are dynamic, structural connections ... **birdsong learning - cornell university** - birdsong learning in r fiete, university of california, santa barbara, and center for neural systems, pasadena, ca, usa h s seung, massachusetts institute of technology, **neural network models of birdsong production, learning ...** - more generally, birdsong can be compared to any motor behavior that involves sequential control and learning, and is an ideal playground for experimental and theoretical explorations of the neural basis for motor learning and control. **journal of neuroscience methods - math.fsu** - a. daou et al. / journal of neuroscience methods 210 (2012) 147-160 149 fig. 2. syllable identification. (a) sonogram of a typical song of a bird that received bilateral hvc microlesions displaying three introductory notes (labeled as i) and five **evolutionary and functional neurobiology of birdsong** - birdsong is a complex, learned vocal communication signal that functions in reproduction. many aspects of the neural mechanisms underlying this behavior **references and notes neuroscience mind the gap: neural ...** - mind the gap: neural coding of species identity in birdsong prosody content **7.5 x 11.5 subline - cambridge university press** - neuroscience of birdsong speech has long been thought of as a uniquely defining characteristic of humans. yet song birds, like humans, communicate using learned **neuroscience white-crowned singing in the brain** - neuroscience of birdsong provides a fascinating, thorough (though not complete) overview of their findings, which have been made possible by increasingly sophisticated technology. the introductory section, an easy read even for non-experts, covers song learning, discusses parallels between birdsong and speech, and briefly outlines the relations between avian and mammalian brains. in five ...

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