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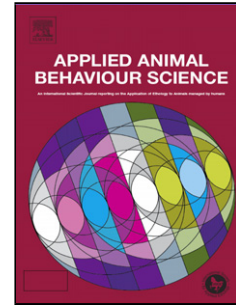
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# Abnormal repetitive behaviours in captive birds: a Tinbergian review

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## Highlights

- Here, we review abnormal repetitive behaviours (ARBs) in captive birds
- Avian ARBs are considered using Tinbergen's 'Four Questions' framework
- For most species aetiology of ARB is little understood and under-researched
- The value of Tinbergen's approach is demonstrated in a worked example
- Using this framework can thus improve understanding of avian ARB and welfare

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