

Accepted Manuscript

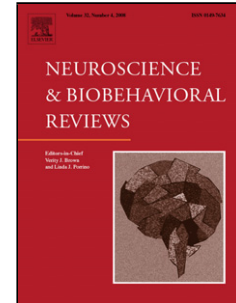
Title: The perception of self in birds

Author: Sébastien Derégnaucourt Dalila Bovet

PII: S0149-7634(15)30320-1

DOI: <http://dx.doi.org/doi:10.1016/j.neubiorev.2016.06.039>

Reference: NBR 2500



To appear in:

Received date: 1-12-2015

Revised date: 24-6-2016

Accepted date: 28-6-2016

Please cite this article as: Derégnaucourt, Sébastien, Bovet, Dalila, The perception of self in birds. *Neuroscience and Biobehavioral Reviews* <http://dx.doi.org/10.1016/j.neubiorev.2016.06.039>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 The perception of self in birds

2

3 Sébastien Derégnaucourt^{a,b*}, Dalila Bove^a

4

5 ^aLaboratoire Ethologie Cognition Développement, LECD EA3456, Université Paris

6 Ouest Nanterre La Défense, 200 avenue de la République, F92001 Nanterre cedex,

7 France

8 ^bInstitut Universitaire de France

9

10

11 * corresponding author

12

13

14 Abstract:

15 The perception of self is an important topic in several disciplines such as ethology,

16 behavioral ecology, psychology, developmental and cognitive neuroscience. Self-

17 perception is investigated by experimentally exposing different species of animals to self-

18 stimuli such as their own image, smell or vocalizations. Here we review more than one

19 hundred studies using these methods in birds, a taxonomic group that exhibits a rich

20 diversity regarding ecology and behavior. Exposure to self-image is the main method for

21 studying self-recognition, while exposing birds to their own smell is generally used for

22 the investigation of homing or odor-based kin discrimination. Self-produced

23 vocalizations – especially in oscine songbirds – are used as stimuli for understanding the

24 mechanisms of vocal coding/decoding both at the neural and at the behavioral levels.

25 With this review, we highlight the necessity to study the perception of self in animals

26 cross-modally and to consider the role of experience and development, aspects that can

27 be easily monitored in captive populations of birds.

28

Download English Version:

<https://daneshyari.com/en/article/7302729>

Download Persian Version:

<https://daneshyari.com/article/7302729>

[Daneshyari.com](https://daneshyari.com)