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**Sexual ornaments reveal the strength of melanization immune response and longevity
of male paper wasps**

André Rodrigues de Souza^{1,2*}, Talitta Guimarães Simões², Markus J. Rantala³, Eduardo
Fernando Santos⁴, José Lino-Netto⁵, Fábio Santos do Nascimento¹

¹ Departamento de Biologia, Faculdade de Filosofia Ciências e Letras de Ribeirão Preto,
Universidade de São Paulo, São Paulo, Brasil.

² Departamento de Entomologia, Universidade Federal de Viçosa, Minas Gerais, Brasil.

³ Department of Biology and Turku Brain and Mind Centre, University of Turku, Turku,
Finland.

⁴ Departamento de Zoologia e Botânica, Instituto de Biociências, Letras e Ciências Exatas,
Universidade Estadual Paulista “Júlio de Mesquita Filho”, São José do Rio Preto, Brazil.

⁵ Departamento de Biologia Geral, Universidade Federal de Viçosa, Minas Gerais, Brasil.

*Corresponding author: andrebioufjf@gmail.com

Short title: Social wasp male ornaments advertise immunity and longevity

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