

Accepted Manuscript

Opioid neurotransmission modulates defensive behaviour and fear-induced antinociception in dangerous environments

Norberto Cysne Coimbra, Fabrício Calvo, Rafael Carvalho Almada, Renato Leonardo Freitas, Tatiana Paschoalin-Maurin, Tayllon dos Anjos-Garcia, Daoud Hibrabim Elias-Filho, Walter Adriano Ubiali, Bruno Lobão-Soares, Irene Tracey

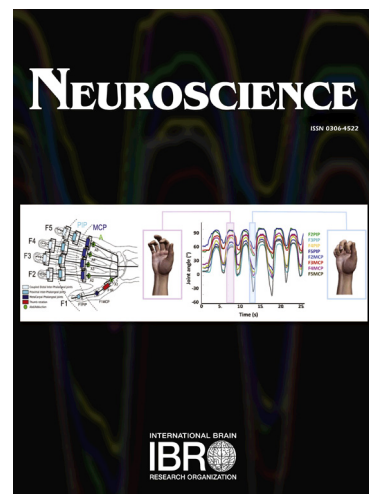
PII: S0306-4522(17)30290-7
DOI: <http://dx.doi.org/10.1016/j.neuroscience.2017.04.032>
Reference: NSC 17740

To appear in: *Neuroscience*

Received Date: 14 December 2016
Revised Date: 18 April 2017
Accepted Date: 19 April 2017

Please cite this article as: N.C. Coimbra, F. Calvo, R.C. Almada, R.L. Freitas, T. Paschoalin-Maurin, T. dos Anjos-Garcia, D.H. Elias-Filho, W.A. Ubiali, B. Lobão-Soares, I. Tracey, Opioid neurotransmission modulates defensive behaviour and fear-induced antinociception in dangerous environments, *Neuroscience* (2017), doi: <http://dx.doi.org/10.1016/j.neuroscience.2017.04.032>

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.



Opioid neurotransmission modulates defensive behaviour and fear-induced antinociception in dangerous environments

Norberto Cysne Coimbra^{1,2,3,4*}; Fabrício Calvo^{3,4,6}; Rafael Carvalho Almada^{3,4}; Renato Leonardo Freitas³; Tatiana Paschoalin-Maurin³; Tayllon dos Anjos-Garcia^{3,4}; Daoud Hibrahim Elias-Filho^{2,3}; Walter Adriano Ubiali^{3,5}; Bruno Lobão-Soares^{3,7}; Irene Tracey^{1,2*}

¹ Pain Imaging Neuroscience Group, Department of Physiology, Anatomy & Genetics, University of Oxford, South Parks Road, Oxford, OX1 3OX, United Kingdom.

² FMRIB Centre, Department of Clinical Neurology of the University of Oxford, John Radcliffe Hospital, Headington, Oxford, OX3 9DU, United Kingdom.

³ Laboratory of Neuroanatomy & Neuropsychobiology, Department of Pharmacology, School of Medicine of Ribeirão Preto of the University of São Paulo (FMRP-USP), Av. Bandeirantes, 3900, 14049-900, Ribeirão Preto, São Paulo, Brazil.

⁴ NAP-USP-Neurobiology of Emotions Research Centre (NuPNE), Ribeirão Preto Medical School of the University of São Paulo, Av. Bandeirantes, 3900, Ribeirão Preto, São Paulo, 14049-900, Brazil.

⁵ Laboratory of Experimental Psychology and Neuroscience, Department of Psychology, School of Psychology of the Federal University of Amazon (UFAM), Manaus, Amazonas, Brazil.

⁶ Department of Pharmacology, São Lucas University, Porto Velho, Rondônia, Brazil.

⁷ Department of Biophysics and Pharmacology, Federal University of Rio Grande do Norte (UFRN), Av. Senador Salgado Filho, Lagoa Nova, 59075-000, Natal, Rio Grande do Norte, Brazil.

*Corresponding authors: N. C. Coimbra. Laboratório de Neuroanatomia & Neuropsicobiologia, Departamento de Farmacologia, Faculdade de Medicina de Ribeirão Preto da Universidade de São Paulo (FMRP-USP), Av. Bandeirantes, 3900, Ribeirão Preto (SP), 14049-900, Brasil.

Fax: +55 16 3315-3349/Telephone: +55 16 3315-3116. E-mail: ncoimbr@fmrp.usp.br; ncoimbra@fmrib.ox.ac.uk

I. Tracey. FMRIB Centre, Department of Clinical Neurology of the University of Oxford, John Radcliffe Hospital, Headington, Oxford, OX3 9DU, United Kingdom. E-mail: irene.tracey@ndcn.ox.ac.uk

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات