

Accepted Manuscript

Title: Glutamate released in the preoptic area during sexual behavior controls local estrogen synthesis in male quail

Authors: Catherine de Bournonville, Ilse Smolders, Ann Van Eeckhaut, Gregory F. Ball, Jacques Balthazart, Charlotte A. Cornil



PII: S0306-4530(16)30632-1
DOI: <http://dx.doi.org/doi:10.1016/j.psyneuen.2017.02.002>
Reference: PNEC 3535

To appear in:

Received date: 31-8-2016
Revised date: 3-2-2017
Accepted date: 5-2-2017

Please cite this article as: {<http://dx.doi.org/>

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.

Glutamate released in the preoptic area during sexual behavior controls local estrogen synthesis in male quail

Catherine de Bournonville¹, Ilse Smolders², Ann Van Eeckhaut², Gregory F. Ball³, Jacques Balthazart¹ and Charlotte A. Cornil¹

¹*GIGA Neurosciences, Research Group in Behavioral Neuroendocrinology, University of Liège, 15 avenue Hippocrate (B36), 4000 Liège, Belgium.*

²*Center for Neurosciences (C4N), Department Pharmaceutical Chemistry, Drug Analysis and Drug Information (FASC), Vrije Universiteit Brussel, Laarbeeklaan 103, 1090 Brussels, Belgium.*

³*Department of Psychology, University of Maryland, 2141 Tydings Hall, College Park, MD 20742-7201, USA*

Corresponding author:

Catherine de Bournonville,

Current address: University of Massachusetts, Psychological and Brain Sciences department, 135 Hicks Way 517 Tobin Hall, 01003 Amherst, MA.

Phone: +1(413) 545 0989

Email: cdebournonvi@umass.edu

Highlights

- Performance of sexual behavior inhibits preoptic aromatase activity
- Glutamate is released in the medial preoptic nucleus (POM) of copulating males
- Kainic acid infusion in POM decreases aromatase activity within 20 min
- Glutamate release presumably activates NMDA receptors to facilitate sexual behavior
- Behaviorally –induced glutamate release presumably inhibits aromatase activity

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