

# Author's Accepted Manuscript

Shadow Enhancers Flanking the *HoxB* Cluster  
Direct Dynamic *Hox* Expression in Early Heart  
and Endoderm Development

Christof Nolte, Tim Jinks, Xinghao Wang, María  
TeresaMartínez Pastor, Robb Krumlauf



[www.elsevier.com/locate/developmentalbiology](http://www.elsevier.com/locate/developmentalbiology)

PII: S0012-1606(13)00490-9  
DOI: <http://dx.doi.org/10.1016/j.ydbio.2013.09.016>  
Reference: YDBIO6213

To appear in: *Developmental Biology*

Received date: 14 June 2013  
Revised date: 3 September 2013  
Accepted date: 11 September 2013

Cite this article as: Christof Nolte, Tim Jinks, Xinghao Wang, María TeresaMartínez Pastor, Robb Krumlauf, Shadow Enhancers Flanking the *HoxB* Cluster Direct Dynamic *Hox* Expression in Early Heart and Endoderm Development, *Developmental Biology*, <http://dx.doi.org/10.1016/j.ydbio.2013.09.016>

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 galley proof before it is published in its final citable 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.

## Shadow Enhancers Flanking the *HoxB* Cluster Direct Dynamic *Hox* Expression in Early Heart and Endoderm Development

Christof Nolte<sup>a</sup>, Tim Jinks<sup>b,1</sup>, Xinghao Wang<sup>a,c,2</sup>, María Teresa Martínez Pastor<sup>b,3</sup>,  
and Robb Krumlauf<sup>a,b,c,\*</sup>.

a) Stowers Institute for Medical Research, Kansas City, Missouri, 64110, USA

b) National Institute for Medical Research, London, NW7 1AA, United Kingdom

c) Dept. of Anatomy and Cell Biology, Kansas University Medical Center, Kansas City, Kansas 66160, USA

\* Corresponding author:

Robb Krumlauf

Stowers Institute for Medical Research, 1000 50<sup>th</sup>, Kansas City, Missouri, 64110, USA

Tel: 1-816-926-4051 Fax: 1-816-926-2008 Email: [rek@stowers.org](mailto:rek@stowers.org)

*Current addresses:*

1) Timothy Jinks: The Wellcome Trust Limited, Gibbs Building 215 Euston Road, London NW1 2BE  
United Kingdom Email: [t.jinks@wellcome.ac.uk](mailto:t.jinks@wellcome.ac.uk)

2) Xinghao Wang, HSML, 45 South Seventh Street, Suite 2700, Minneapolis, MN 55402

Email: [xwang@hsml.com](mailto:xwang@hsml.com)

3) María Teresa Martínez Pastor Department de Bioquímica i Biologia Molecular Universitat de València, Dr. Moliner 50, 46100 Burjassot Spain

Email: [María.Teresa.Martinez@uv.es](mailto:María.Teresa.Martinez@uv.es)

Key words: *Hox* genes, heart, retinoids, enhancers, gene regulation, endoderm

Download English Version:

<https://daneshyari.com/en/article/10932036>

Download Persian Version:

<https://daneshyari.com/article/10932036>

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