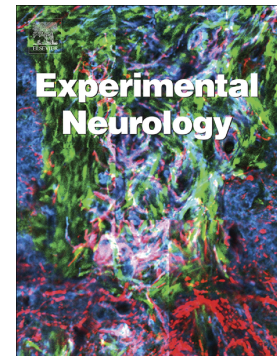


Accepted Manuscript

The role of *jab1*, a putative downstream effector of the neurotrophic cytokine macrophage migration inhibitory factor (MIF) in zebrafish inner ear hair cell development

Loren J. Weber, Hannah K. Marcy, Yu-chi Shen, Sarah E. Tomkovich, Kristina M. Brooks, Kelly E. Hilk, Kate F. Barald



PII: S0014-4886(17)30239-X
DOI: doi: [10.1016/j.expneurol.2017.09.009](https://doi.org/10.1016/j.expneurol.2017.09.009)
Reference: YEXNR 12614

To appear in: *Experimental Neurology*

Received date: 2 May 2017
Revised date: 5 September 2017
Accepted date: 12 September 2017

Please cite this article as: Loren J. Weber, Hannah K. Marcy, Yu-chi Shen, Sarah E. Tomkovich, Kristina M. Brooks, Kelly E. Hilk, Kate F. Barald, The role of *jab1*, a putative downstream effector of the neurotrophic cytokine macrophage migration inhibitory factor (MIF) in zebrafish inner ear hair cell development, *Experimental Neurology* (2017), doi: [10.1016/j.expneurol.2017.09.009](https://doi.org/10.1016/j.expneurol.2017.09.009)

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.

The Role of *jab1*, a Putative Downstream Effector of the Neurotrophic Cytokine Macrophage Migration Inhibitory Factor (*mif*) in Zebrafish Inner Ear Hair Cell Development

Loren J. Weber^{a,1}, Hannah K. Marcy^{a,b,2}, Yu-chi Shen^a, Sarah E. Tomkovich^{a,b,3}, Kristina M. Brooks^{a,4}, Kelly E. Hilk^{a,b,5} and Kate F. Barald^{a,c,d*}.

^aDepartment of Cell and Developmental Biology, University of Michigan Medical School, 3728 BSRB, 109 Zina Pitcher Place, Ann Arbor, MI 48109-2200, USA.

^bUndergraduate Research Opportunity Program, 1190 Undergraduate Science Building, 204 Washtenaw Avenue, Ann Arbor, MI 48109-2215, USA.

^cCellular and Molecular Biology Graduate Program, University of Michigan Medical School, Ann Arbor, MI 48109-0619, USA

^dDepartment of Biomedical Engineering, College of Engineering, 2200 Bonisteel Boulevard, University of Michigan, Ann Arbor, MI 48109-2099, USA.

Present Affiliations:

¹Michigan State University College of Osteopathic Medicine, East Lansing, Michigan. weberlo1@msu.edu

²MSTP Program, Washington University School of Medicine, Washington University St. Louis, 660 South Euclid Avenue St. Louis, MO 63110-1093. hkmarcy@wustl.edu

³Department of Medicine, University of Florida, Gainesville, FL 32611. Sarah.Tomkovich@medicine.ufl.edu

⁴Clinical Pharmacokinetics Research Unit, Clinical Center Pharmacy Department, National Institutes of Health, 10 Center Drive, Bldg 10, Room 1C240G, Bethesda, MD 20892. kristina.brooks@nih.gov

⁵Wayne State University School of Medicine 540 E Canfield St, Detroit, MI 48201. kelly.hilk@med.wayne.edu

*Corresponding Author

Kate F. Barald Ph.D.
Department of Cell and Developmental Biology
Department of Biomedical Engineering
3053 BSRB
109 Zina Pitcher Place
Ann Arbor, MI 48109-2200
kfbard@umich.edu
tel 734-647-3376
fax 734-763-1166

Running Title: Neurotrophic cytokines in inner ear development

Keywords: *mif*, *jab1*, *mcp1*, inner ear, hair cell development, statoacoustic ganglion, VIII nerve, zebrafish, neurotrophic cytokines

Download English Version:

<https://daneshyari.com/en/article/8684702>

Download Persian Version:

<https://daneshyari.com/article/8684702>

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