Accepted Manuscript

Nutrient-deprived cancer cells preferentially use sialic acid to maintain cell surface glycosylation

Haitham A. Badr, Dina M.M. AlSadek, Mohit P. Mathew, Chen-Zhong Li, Leyla B. Djansugurova, Kevin J. Yarema, Hafiz Ahmed

PII: S0142-9612(15)00678-X

DOI: 10.1016/j.biomaterials.2015.08.020

Reference: JBMT 17015

To appear in: Biomaterials

Received Date: 17 April 2015

Revised Date: 7 August 2015

Accepted Date: 8 August 2015

Please cite this article as: Badr HA, AlSadek DMM, Mathew MP, Li C-Z, Djansugurova LB, Yarema KJ, Ahmed H, Nutrient-deprived cancer cells preferentially use sialic acid to maintain cell surface glycosylation, *Biomaterials* (2015), doi: 10.1016/j.biomaterials.2015.08.020.

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.



Nutrient-deprived cancer cells preferentially use sialic acid to maintain cell surface glycosylation

Haitham A. Badr^a, Dina M.M. AlSadek^b, Mohit P. Mathew^c, Chen-Zhong Li^d, Leyla B. Djansugurova^e, Kevin J. Yarema^{c,*}, and Hafiz Ahmed^{f,g,*}

^aDepartment of Biochemistry, Zagazig University, Zagazig 44511, Egypt. ^bDepartment of Histology and Cytology, Zagazig University, Zagazig 44511, Egypt. ^cDepartment of Biomedical Engineering and Translational Tissue Engineering Center, The Johns Hopkins University, 400 North Broadway Street, Baltimore, MD 21231, USA. ^dDepartment of Biomedical Engineering, Florida International University, 10555 West Flagler Street, Miami, FL 33174 USA. ^eInstitute of General Genetics and Cytology, Al-Farabi Ave, 93, Almaty 050060, Kazakhstan. ^fDepartment of Biochemistry and Molecular Biology, University of Maryland School of Medicine and Institute of Marine and Environmental Technology, 701 East Pratt Street, Baltimore, MD 21202, USA; ^gCurrent Address: GlycoMantra Inc., 1450 South Rolling Road,

Baltimore, MD 21227, USA

*Correspondence to:

Kevin J. Yarema, 5029 Smith Building, 400 North Broadway Street, Baltimore, MD 21231, USA, Tel: 410-614-6835, Fax: 410-614-6840, E-mail: <u>kyarema1@jhu.edu</u>

Hafiz Ahmed, GlycoMantra, Inc., 1450 South Rolling Road, Baltimore, MD 21227, USA, Tel: 301-655-1084, Fax: 443-543-5749, E-mail: <u>hfzahmed86@gmail.com</u>.

Download English Version:

https://daneshyari.com/en/article/6485414

Download Persian Version:

https://daneshyari.com/article/6485414

Daneshyari.com