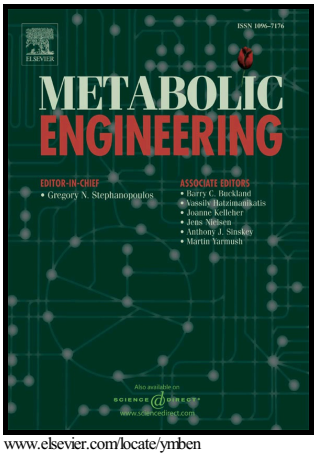

www.elsevier.com/locate/ymben

Glyco-Mapper: A Chinese hamster ovary (CHO) genome-specific glycosylation prediction tool

Benjamin G. Kremkow, Kelvin H. Lee

PII: S1096-7176(17)30166-0
DOI: https://doi.org/10.1016/j.ymben.2018.03.002
Reference: YMBEN1356

To appear in: *Metabolic Engineering*

Received date: 17 May 2017
Revised date: 7 December 2017
Accepted date: 1 March 2018

Cite this article as: Benjamin G. Kremkow and Kelvin H. Lee, Glyco-Mapper: A Chinese hamster ovary (CHO) genome-specific glycosylation prediction tool, *Metabolic Engineering,* https://doi.org/10.1016/j.ymben.2018.03.002

Title

Glyco-Mapper: A Chinese hamster ovary (CHO) genome-specific glycosylation prediction tool

Authors

Benjamin G. Kremkow[1,2], *Kel H. Lee[1,2]

[1] Department of Chemical and Biomolecular Engineering, University of Delaware, Newark, DE 19716, USA

[2] Delaware Biotechnology Institute, University of Delaware, Newark, DE 19711, USA

***Corresponding author**

Prof. Kelvin H. Lee

15 Innovation Way, Newark, DE 19711, USA

1-302-831-0344 (phone), 1-302-831-4841 (fax)

KHL@udel.edu

Keywords

Chinese hamster ovary (CHO) cells, genomic modeling, glycosylation reaction network, glycoform, biopharmaceutical process development

Abbreviations

CCM – central carbon metabolism; CHO – Chinese hamster ovary; DReaM-zyP – Discretized Reaction Network Modeling using Fuzzy Parameters; EPO – erythropoietin; mAb – monoclonal antibody; SEAP – secreted alkaline phosphatase; siRNA – short interfering RNA

Conflict-of-interest statement

The authors declare no commercial or financial conflict of interest.