

¹Multivalent interaction based carbohydrate biosensors for signal amplification

[No abbreviation in the title]

Yanyan Wang,^{1,2} Srinivas Chalagalla,³ Tiehai Li,⁴ Xue-long Sun,³ Wei Zhao,⁴ Peng Wang,⁴ and Xiangqun Zeng¹

¹Department of Chemistry, Oakland University, Rochester, Michigan 48309, USA [Affiliation consists of Department, University, Country]

²The key Laboratory of Bioactive Materials Ministry of Education, College of Life Sciences, Nankai University, Tianjin 300071, China

³Department of Chemistry, Cleveland State University, Cleveland, Ohio 44115

⁴College of Pharmacy, Nankai University, Tianjin 300071, China

Corresponding Author: Xiangqun Zeng

E-mail: zeng@oakland.edu

Tel: 098 311 7922362

Fax: 098 311 6691224

[Tel and Email address in the correspondence is mandatory]

Running title: Running title goes here [40 characters long including spaces]

Email addresses of all authors are mandatory.

[All abbreviation should be defined in parenthesis at the first usage]

[All symbols (e.g. \pm , +, -, \times , =, <, >, <=, >=) should be separated from the adjacent texts (before and after) by one space]

[Please do not use equations or graphics to show in-line symbols. Instead use special symbols from the appropriate menu, e.g. $^{\circ}$ \pm β α ϕ]

[Use MS-Equation or similar tools to create or edit equations and formula, each equation should be placed in a separate paragraph]

Abstract

[Do not use citation to references in the abstract]

Background: Text for this section of the abstract...

Methods: Text for this section of the abstract...

Results: Text for this section of the abstract...

Conclusions: Text for this section of the abstract...

Keywords: Text for this section of the abstract... [Please use MESH terms, Minimum three keywords needed]

[Word count for abstract in original articles ≤ 250 and ≥ 200]

Introduction

Text for this section. [Citation to references, tables, figures should appear sequentially, use superscript to cite references. Cite tables and figures in parenthesis]

Methods

Text for this section. [Citation to references, tables, figures should appear sequentially, use superscript to cite references. Cite tables and figures in parenthesis]

Results

Text for this section. [Citation to references, tables, figures should appear sequentially]

Discussion

Text for this section. [Citation to references, tables, figures should appear sequentially, use superscript to cite references and cite after punctuation marks. Cite tables and figures in parenthesis]

Conflict of interest

The authors have no conflicts of interest.

Authors' contributions

[A sample contribution note] CAD carried out the design and coordinated the study, participated in most of the experiments and prepared the manuscript. JED provide assistance in the design of the study, coordinated and carried out all the experiments and participated in manuscript preparation. JRSS provided assistance for all experiments. All authors have read and approved the content of the manuscript. [CAD, JED, JRSS are the abbreviations for the names of the authors as enlisted in the author list section]

Financial Support

This study is funded by

Acknowledgements

Text for this section.

References

1. Shuman S. Structure, mechanism, and evolution of the mRNA capping apparatus. *Prog Nucleic Acid Res Mol Biol* 2000;66:1-40

2. Chomczynski P, Sacchi N. Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. *Anal Biochem* 1987;162:156-59
3. Sambrook J, Fritsch EF, Maniatis T. *Molecular Cloning: A Laboratory Manual*. Cold Spring Harbor: Cold Spring Harbor Press; 1989.
4. Wessely S, Wood F: Peer review of grant applications: a systematic review. In: Godlee F, Jefferson T, editors. *Peer review in Health Sciences*. London: BMJ Books; 1999. p. 14-31.
5. Advisory Committee on Genetic Modification: Annual Report. London: 1999.
6. Gazauli M, Ikonomopoulos J, Koundourakis A, Bartos M, Pavlik I, Overduin P, *et al.* Characterization of mycobacterium tuberculosis complex isolates from Greek patients with sarcoidosis by spoligotyping. *J Clin Microbiol* 2005;43:4858-61.
7. Ning L, Bajoghli A, Kubba A, Bhavan J. Identification of mycobacterial DNA in cutaneous lesions of sarcoidosis. *J Cut Pathol* 1999;26:271-8.
8. Gupta D, Agrawal R, Aggarwal AN, Jindal SK. Molecular evidence for the role of mycobacteria in sarcoidosis: A meta-analysis. *Eur Respir J* 2007;30:508-16.
9. Mise K, Goic-Barisic I, Puizina-Ivic N, Barisic I, Tonkic M, Peric I. A rare case of pulmonary tuberculosis with simultaneous pulmonary and skin sarcoidosis: A case report. *Cases J* 2010;3:24-31.
10. Hatzakis K, Siafakas NM, Bouros D. Miliary sarcoidosis following miliary tuberculosis. *Respiration* 2000;67:219-22.

...

[Tables should not be pasted as an image]

Table 1: Table header here

Table footnote [Describe various symbols and abbreviations used in this table]

Table 2: Table header here

Table footnote [Describe various symbols and abbreviations used in this table]

Charts placed here

[Charts should be prepared using such tools as MS-Graph or OpenOffice and embed in this main submission file. Charts must not be pasted as scanned images]

Legend for charts under the charts.

Legend for other figure types (scanned, digital images): [These images must not be place here. Each one must be submitted as a graphic file smaller than 2 MB in size. For further information please consult the Instruction for Authors]

Legend text for charts and images should begin with the sequential figure number (Figure 1, Figure 2, ...) and should contain the description of figures, symbols and abbreviations used in the figure. Different parts in the figures should be marked in the figure material by sequential alphabet characters (A, B, C, ...) and described in the legend for that figure

Other than bar charts and related graphs, all other kinds of graphics including digital pictures, scanned images must be submitted as supplementary files. Submit each picture as a separate graphic file. Upon acceptance of manuscript high quality images as specified by Pubmed Central at:

http://www.pubmedcentral.nih.gov/about/image_quality_table.html

is needed. It is the responsibility of the authors to prepare and send the required graphic file formats in time, otherwise the publication of the paper will be delayed.