

Food dye could provide 'blueprint' for treatment of Panx1-related diseases

April 29 2013

The food dye Brilliant Blue FCF (BB FCF) could be a useful tool in the development of treatments for a variety of conditions involving the membrane channel protein Pannexin 1(Panx1), according to a study in [*The Journal of General Physiology*](#).

Panx1, which is involved in signaling events leading to inflammation and cell death, has been implicated in such diverse diseases as Crohn's, AIDS, melanoma, epilepsy, spinal cord injury, and stroke, among others. Thus, there is a demand for the development of pharmacological tools to inhibit Panx1.

Researchers from the University of Miami School of Medicine now demonstrate that BB FCF is a selective inhibitor of Panx1 and might therefore be added to the repertoire of drugs used to battle certain diseases associated with the protein. However, because an unintended consequence of treatment with BB FCF could be a temporary blue skin tone in patients, the researchers conclude that BB FCF would be best used to identify structurally similar substances to aid treatment.

More information: Wang, J., et al. 2013. *J. Gen. Physiol.*
[doi:10.1085/jgp.201310966](https://doi.org/10.1085/jgp.201310966)

Provided by Rockefeller University

Citation: Food dye could provide 'blueprint' for treatment of Panx1-related diseases (2013, April 29) retrieved 20 April 2024 from <https://medicalxpress.com/news/2013-04-food-dye-blueprint-treatment-panx1-related.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.