

SUPPLEMENTARY INFORMATION

Rat Glioma Cell-Based Functional Characterization of Anti-Stress and Protein Deaggregation Activities in the Marine Carotenoids, Astaxanthin and Fucoxanthin

Sajal Afzal^{1,2}, Sukant Garg¹, Yoshiyuki Ishida³, Keiji Terao³, Sunil C. Kaul¹ and Renu Wadhwa^{1,2*}

¹DAILAB, DBT-AIST International Center for Translational and Environmental Research (DAICENTER), National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba 305-8565, Japan, ²School of Integrative and Global Majors, University of Tsukuba, Tsukuba 305-8577, Japan and ³CycloChem Co., Ltd., 7-4-5 Minatojima-minamimachi, Chuo-ku, Kobe - 650 0047, Japan

sajal.afzal@aist.go.jp (S.A)

sukantgarg@gmail.com (S.G)

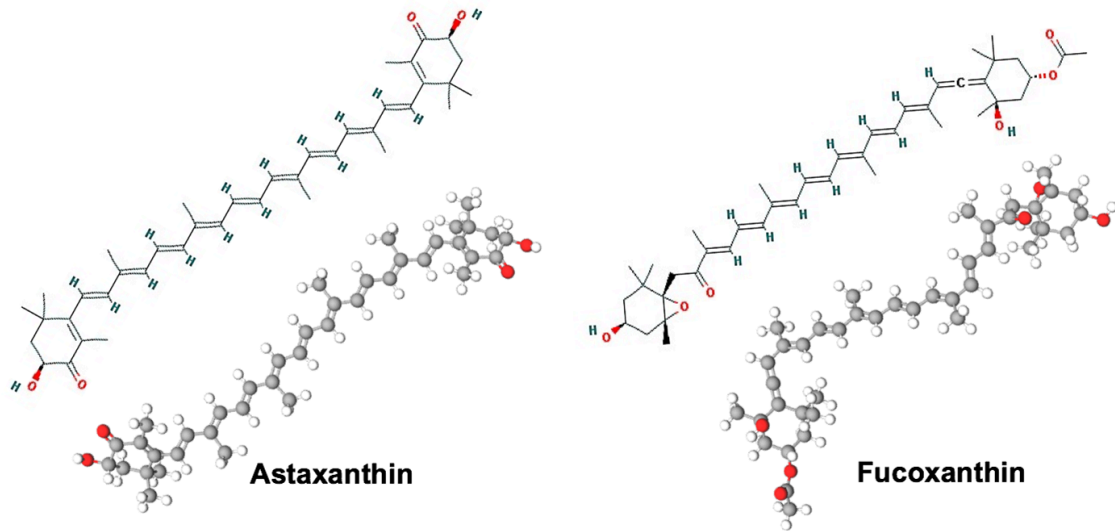
yoshiyuki.ishida@cyclochem.com (Y.I)

keiji.terao@cyclochem.com (K.T.)

s-kaul@aist.go.jp (S.C.K)

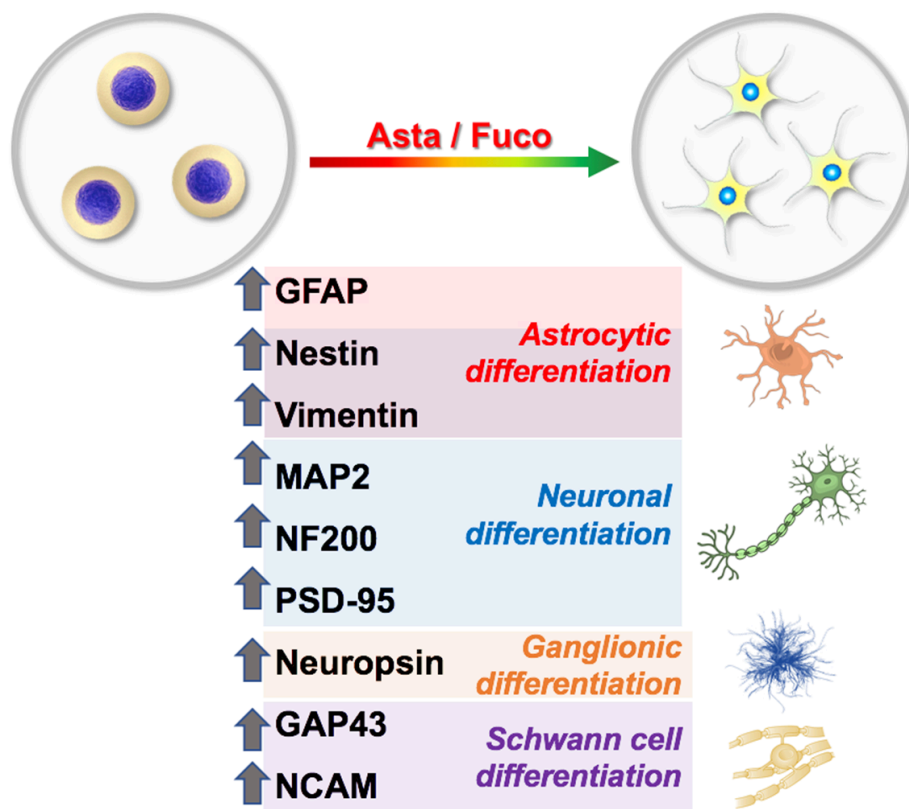
*Correspondence: renu-wadhwa@aist.go.jp (R.W.), Tel: +81-29-861-9464

Supplementary Figure 1



Supplementary Fig. 1. 2-D and 3-D chemical structures of the two selected marine carotenoids, Astaxanthin and Fucoxanthin.

Supplementary Figure 2



Supplementary Fig. 2. Flowchart depicted neural maturation stages and hallmark associated protein markers.