



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)

/ Thesis & Dissertation (/jspui/handle/123456789/1)

/ Master of Science (/jspui/handle/123456789/2)

/ MS-12 (/jspui/handle/123456789/723)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/780>

Title: Structural Elucidation of Human Cystine/Glutamate Transporter: xCT

Authors: Anirudh, C.R. (/jspui/browse?type=author&value=Anirudh%2C+C.R.)

Keywords: Chemistry
Protein
Human Cystine
Nervous System

Issue Date: 14-Jul-2017

Publisher: IISER-M

Abstract: The human cystine/glutamate antiporter xCT is a membrane protein transporter belonging to the family of Heteromeric Amino acid Transporters (HAT), which regulates the influx of L-Cystine (L-Cys2) and efflux of L-glutamate (L-Glu). xCT has been linked to several central nervous system functions and protection of the cell from oxidative stress. Delineating its structure would aid in understanding structure-function relationships, thereby help formulate therapeutic targets for diseases, build our understanding of the residues that aid in binding of the substrates and those that are critical for the permeation of the substrates across the membrane to give us an entire picture of the mechanism of an antiporter.


URI: <http://hdl.handle.net/123456789/780> (<http://hdl.handle.net/123456789/780>)

Appears in MS-12 (/jspui/handle/123456789/723)
Collections:

Files in This Item:

File	Description	Size	Format	
MS-12032.pdf (/jspui/bitstream/123456789/780/1/MS-12032.pdf)		3.56 MB	Adobe PDF	View/Open (/jspui/bitstream/123456789/780/1/MS-12032.pdf)

[Show full item record \(/jspui/handle/123456789/780?mode=full\)](/jspui/handle/123456789/780?mode=full)

 [\(/jspui/handle/123456789/780/statistics\)](/jspui/handle/123456789/780/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.