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### **SDI Review Form 1.6**

### PART 1:

Journal Name:	British Journal of Pharmaceutical Research
Manuscript Number:	2013_BJPR_5761
Title of the Manuscript:	IN SILICO OPTIMIZED MECHLORETHAMINE BASED DRUG STRUCTURES
	TARGETING BRAIN AND SPINAL CORD TUMORS
Type of the Article	Research Paper

**General guideline for Peer Review process is available in this link:** 

(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

• This form has total 7 parts. Kindly note that you should use all the parts of this review form.

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#### **PART 2:** Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The treatment of brain tumors for children is usually different than for adults. Mechlorethamine (mustine) itself is a bifunctional alkylating cytotoxic vesicant. Eleven variants of mechlorethamine are presented in this study that possess molecular properties enabling substantial access to tumors of the central nervous system.  All twelve compounds (including mechlorethamine) exhibited zero violations of Rule of 5, indicating favorable bioavailability.  To me the "theoric" results would be really interesting both for a pharmacologist and clinician readers if the authors will show an in vivo validation of the proposed action: BBB passage and adsorbance. May be by using a cell line (astrocytesor CaCo2 cells for the gut).  Moreover it will be necessary to show whether: a) the new compounds have or not toxic actions (MTT assay?); b) the new twelve compounds have the same kinetic profile (this could be done by using a neuroblastoma cell line).  Minor points: revise the bibliography in the text.	
Minor REVISION comments		

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<b>Optional/General</b> comments	
optional/ deficial comments	

**Note: Anonymous Reviewer**