Peer Review Report

Review Report on Application of the FISH method and High-Density SNP Arrays to the assessment of genetic changes in neuroblastoma -research by one institute

Original Research, Acta Biochim. Pol.

Reviewer: Hevidar Taha Submitted on: 07 Apr 2024

Article DOI: 10.3389/abp.2024.12821

EVALUATION

Q 1 Please summarize the main findings of the study.

Fluorescent in situ hybridization is a high-sensitive, useful technique for detecting MYCN amplification on paraffin-embedded tissue section of neuroblastoma tumours and intraoperative tumour imprints thus facilitating therapeutic decisions based on the presence or absence of this important biologic marker. Presence of structural changes, regardless of the MYCN gene amplification status, influences the clinical behavior of neuroblastoma.

High-Density SNP Arrays have emerged as perfect tools for detecting these changes due to their exceptional accuracy, sensitivity and ability to analyze copy numbers and allele information.

Therefore, beside MYCN gene amplification, cytogenetic abnormalities are also a marker of an unfavorable prognosis in patients diagnosed with neuroblastoma. Thus, it is very important that the results should be based on both, fluorescent in situ hybridization and molecular karyotype

Q 2 Please highlight the limitations and strengths.

No answer given.

Q3 Please comment on the methods, results and data interpretation. If there are any objective errors, or if the conclusions are not supported, you should detail your concerns.

Well Done

Check List

Q 4 Please provide your detailed review report to the editor and authors (including any comments on the Q4 Check List)

No answer given.

Q 5 Is the English language of sufficient quality?

Yes.

Q 6 Is the quality of the figures and tables satisfactory?

Yes.

Q 7	Does the reference list cover the relevant literature adequately and in an unbiased manner?
Yes.	
Q 8	Are the statistical methods valid and correctly applied? (e.g. sample size, choice of test)
Yes.	
Q 9	Are the methods sufficiently documented to allow replication studies?
Yes.	
-	Are the data underlying the study available in either the article, supplement, or deposited in tory? (Sequence/expression data, protein/molecule characterizations, annotations, and my data are required to be deposited in public repositories prior to publication)
Yes.	
Q 11 procedu	Does the study adhere to ethical standards including ethics committee approval and consent re?
Yes.	
Q 12	Have standard biosecurity and institutional safety procedures been adhered to?
Not Appli	cable.
QUALITY A	ASSESSMENT
Q 13	Originality
Q 14	Rigor
Q 15	Significance to the field
Q 16	Interest to general audience
Q 17	Quality of the writing
Q 18	Overall quality of the study