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: Artur Palasz
Submitted on: 31 Mar 2024
Article DOI: 10.3389/abp.2024.12821

EVALUATION

Q 1 **Please summarize the main findings of the study.**

Pathophysiology and diagnostics of neuroblastoma, the most common and aggressive tumor in children is still a very important topic in the contemporary neurooncology. Pharmacotherapy of this serious disease with the classical and novel pharmacological and surgical did not meet all clinical expectations. interesting, very timely and valuable research article by Winnicka and colleagues reports that FISH and High-Density SNP Arrays techniques can be preceived as a perfect toll for detecting MYCN amplification in the neuroblastoma cells. Moreover, Authors suggest that this method may be valuable in the genomic diagnosis of other immature neuroectodermal tumours.

Q 2 **Please highlight the limitations and strengths.**

The major strength of the article is a large group of patients examined (n = 67).

Q 3 **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.**

The experimental paradigm is well considered and all methods were kept the high standard. Appropriate statistical methods were applied in the study. The experiment is well documented and manuscript is strongly informative. All figures are also well designed and clear. To sum up, this article may be considered as a valuable contribution to the field of neurology, oncology and genetics. There is no doubt, this paper may also be important and somehow promising for all clinical oncologists working in the field of low differentiated tumours.

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.

Q 10 Are the data underlying the study available in either the article, supplement, or deposited in a repository? (Sequence/expression data, protein/molecule characterizations, annotations, and taxonomy data are required to be deposited in public repositories prior to publication)

Not Applicable.

Q 11 Does the study adhere to ethical standards including ethics committee approval and consent procedure?

Yes.

Q 12 Have standard biosecurity and institutional safety procedures been adhered to?

Yes.

QUALITY 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