

Doctoral dissertation review

**Clinicopathological and molecular biologic
characteristics of selected cutaneous epithelial
and nonepithelial tumors**

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August 25, 2019

The work of dr. Kastnerova deals with selected cutaneous tumors and consists of 20 commented articles, all of them already published in international journals with impact factor.

Part one deals with selected adnexal (apocrine/eccrine, follicular and sebaceous) tumors and tumors of anogenital mammary-like glands. The second part discusses non-epithelial tumors (lymphoproliferative, mesenchymal and melanotic).

1 The importance of chosen topic

The topic is very important and the results contribute to diagnostics.

2 Whether the target of the work was reached

The work consists of 20 published articles of standard structure, therefore *these targets were reached*.

3 Methods

The author uses broad methodological spectrum to achieve the goals of the study: histology, immunohistochemistry, molecular pathology methods. Dr. Kastnerova has not

only a detailed theoretical background, but very good methodological overview, which she can use in her work.

4 Results of the dissertation

There is no doubt that results like these will contribute to better understanding of the characteristics and properties of discussed tumors, which will be reflected in diagnostics and therapy (esp. correlation of morphology and mutation analysis in atypical spitzoid neoplasms).

Therefore the results of this work are highly relevant.

5 Comments

The work consists of 20 published articles of standard structure including literary references, divided into several groups. Each group is provided with short commentary, to which I have no comments.

6 Questions

In the article on sebaceomas various tumor morphology is discussed (carcinoid-like, laryrinthine and others). However very similar morphology can be seen in other adnexal tumors, namely trichoblastoma and basalioma. Sebaceous differentiation is not always obvious and these tumors may show sebaceous differentiation.

This is rather topic for discussion: what is the best approach to differential diagnosis based on HE morphology and immunohistochemistry? Are there any antibodies useful for recognition of immature sebaceous cells?

7 Conclusion

The student has shown broad theoretical and methodological orientation in the field of dermatopathology. The results were published in impacted journals. The work meets the criteria of doctoral dissertation and as such I recommend it according to the law 111/98 Sb.

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