Reviewer’s report

Title: Monocarboxylate transporter 4 (MCT4) and CD147 overexpression is associated with poor prognosis in prostate cancer

Version: 1 Date: 22 March 2011

Reviewer: Roman Nawroth

Reviewer’s report:

1. The authors of this manuscript characterized the expression of MCTs and EMMPRIN (CD147) in prostate cancer and corresponding non-neoplastic tissue.
2. The methods used were appropriate and well described and the data analysis presents the current standard for his type study.
3. The results were analyzed according the subcellular localization and ratio of positive cells /intensity and correlated with clinical parameters and keep up to current standard.
4. Relevant standards for reporting and data deposition were considered.
5. The authors discuss their results in context to previous findings by other groups and draw appropriate conclusions from their own and others data. However, there are some minor essential revisions to be addressed.

The authors might have to demonstrate the value of the proteins examined for prognosis in prostate cancer more thoroughly. Although the results clearly demonstrate a correlation of CD147 and MCT4 expression and clinical marker of poor prognosis in prostate cancer, the additional value of these biomarkers to the standard clinical parameter in use is not obvious.

Although discussed properly, it would be of interest if differences within the published data and the present dataset found for MCT1 staining indeed result from the different antibodies used. This might be of particular importance because future work on these proteins as biomarker in cancer should follow a certain standard for reproducible and comparable results. Thus, I consider a comparison of different antibodies used in different studies in a limited amount of prostate cancer specimen as a valuable addition to the article.

6. Limitation of the work are stated properly.

7. The authors do acknowledge previous work published on this topic.

8./9. The title and abstract describes what the authors have found and the paper is written in an acceptable style.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a
statistician.

**Declaration of competing interests:**

I declare that I have no competing interests