

Minimum Standards of Reporting for manuscript: Infiltration of immune competent cells into primary tumors and their surrounding tissues in mice by Marlon Metzen, Michael Bruns, Wolfgang Deppert and Udo Schumacher

Checklist BioMed Central advocates full and transparent reporting. Please ensure that your paper provides the information requested below where applicable. On submitting your paper you will be asked to confirm you have included this information, or give reasons for any instances where it is not made available. Experimental design and statistics

The following information should be included in the Methods section:

1. The exact sample size (n) for each experimental group/condition (as a number, not a range). Include details of a power analysis if done, or any other relevant considerations that determined the choice of sample size. For $n < 6$, individual data values should be shown rather than summary statistics alone.

Our study is a retrospective histological analysis of tissue sections. The histological slides investigated were sectioned from archival material from the files of our institute.

Scid xenograft tumors 464 slides of paraffin wax blocks from our archives and 60 slides paraffin wax blocks of syngenic primary tumors.

Syngenic invasive breast cancer tumors (of paraffin wax blocks): Hyperplasia 10 slides; Dysplasia (DCIS) 10 slides; Dysplasia Grade 1 10 slides; Dysplasia Grade 2 10 slides; Dysplasia Grade 3 10 slides; Dysplasia Grade 4 10 slides

Xenografted tumors (scid and pfp/rag 2): breast cancer slides of paraffin wax blocks of 4 animals; colon cancer slides of paraffin wax blocks of 4 animals; melanoma slides of paraffin wax blocks of 4 animals; ovarian cancer slides of paraffin wax blocks of 2 animals; neuroblastoma slides of paraffin wax blocks of 2 animals; pancreatic cancer slides of paraffin wax blocks of 2 animals; prostate cancer (pfp/rag2) slides of paraffin wax blocks of 4 animals; small cell lung cancer (pfp/rag2) slides of paraffin wax blocks of 3 animals.

2. A description of sample collection that enables the reader to understand whether the samples represent technical or biological replicates, and an explanation of inclusion/exclusion criteria if samples or organisms were excluded from the analysis.

Not relevant.

3. How samples/ organisms were allocated to experimental groups and processed, and full details of the randomisation procedure used (if relevant).

Not relevant.

4. For sample assessment by human investigators, a statement on whether the investigator was blinded to group assignment and outcome assessment, and how this blinding was achieved and evaluated (if relevant).

The observers were blinded.

5. How many times each experiment shown was replicated and an indication of the extent of variation from experiment to experiment.

Not relevant.

6. Information on the statistical methods and measures used. It should be clear whether the tests are one-sided or two-sided, whether there are adjustments for multiple comparisons, whether medians or means are being shown, whether error bars are standard deviations (SD), standard error of mean (SEM) or confidence intervals.

Not relevant.

7. A justification for the appropriateness of statistical tests used to assess significance. Do the data meet the assumptions of the tests? Is there an estimate of variation within each group of data, and is the variance similar between groups that are being statistically compared?

Not relevant.

In addition, information essential to interpreting the data presented should be made available in the figure and table legends.

If the study involves health interventions for human participants, please refer to the relevant reporting guidelines from the EQUATOR Network, and the Biosharing Portal for reporting checklists for biological and biomedical research, where applicable.

Resources

A description of all resources used should be included in the Methods section, with enough information to allow them to be uniquely identified.

- Antibodies: report source, catalogue code, characteristics, dilutions and how they were validated for the system under study.

See page 5-7, lines 115-194 (Methods and materials)

- Cell lines: report source, whether identity has been authenticated and whether tested for mycoplasma contamination. We encourage researchers to check the NCBI database for contamination of cell lines.

Cell lines were authenticated and always checked for being free of mycoplasmas, see original papers from which the archival material was drawn. See page 4-5, lines 94-112 (Methods and materials)

- Organisms: report source, species, strain, sex, age, husbandry, inbred and strain characteristics of transgenic and mutant animals.

All informations had been published in the original papers, see references. See page 4-5, lines 94-112 (Methods and materials)

- Tools (software, databases and services): report standard tool name, provider and version number, if available.

We used microsoft excel.

For antibodies, model organisms (mice, zebrafish and flies) and tools, authors are strongly encouraged to cite Research Resource Identifiers (RRIDs). To do so, please go to the Resource Identification Portal to search for your research resource and insert the reference text into your Methods section.

Availability of data and materials

All datasets on which the conclusions of the paper rely must be either deposited in publicly available repositories (where available and ethically appropriate) or presented in the main paper or additional supporting files, in machine-readable format whenever possible. If authors are unable to fulfil this requirement, they should contact journal editorial staff, after checking our list of Recommended Repositories.

All stained tissue sections are archived according to the institutional guidelines. Similarly, the electronic data are stored in the institutional file server.

Links to deposited datasets, or datasets in additional files, should be explicitly referenced in a section entitled “Availability of Data and Materials”. Guidance on where to deposit your data can be found on the Availability of Data and Materials policy page.

If computer code was used to generate results that are central to the paper’s conclusions, include a statement in the “Availability of data and materials” section to indicate how the code can be accessed. Include version information and any restrictions on availability. For deposited data and published code, a full reference with an accession number, doi or other unique identifier should be included in the reference list.

If reproducible materials are generated as a result of the research (for example new animal mutants), a statement on their availability should be included.