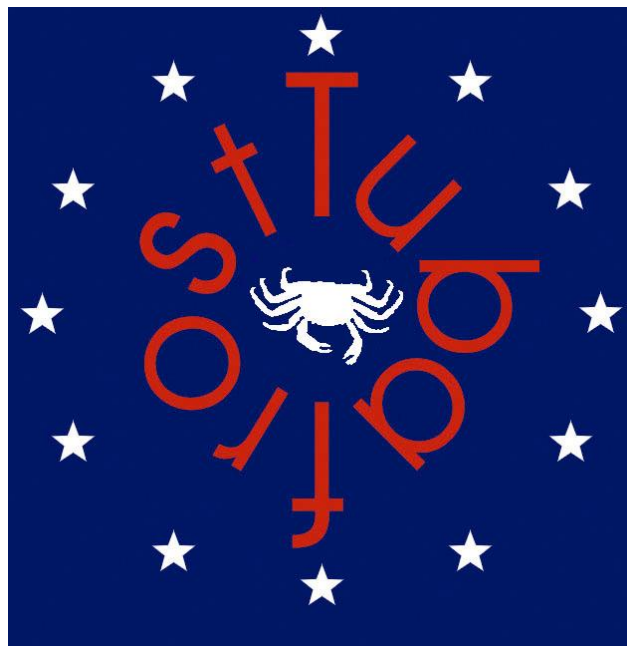


# European Human Frozen Tumour Tissue Bank

## TUBAFROST

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### ***Deliverable D 5.1***



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This report concerns the assessment of the technical aspects for high throughput virtual microscopy. It is part of Work Package 5: “Virtual microscopy in Tissue Banks”.

### **Assessment of the technical aspects for high throughput Virtual Microscopy (VM):**

A number of virtual microscopy software's have been evaluated through available documentation. Several important points need to be taken into account: good images, adequate range of magnification, adequate geometric and color resolution, accurate focusing, fast scanning speed, low image file size (compress/decompress areas), easy to integrate software, low scanner system costs, low server system costs, low cost for user (browser) system, reliability. When integrating the virtual microscope at the EORTC Data Center following issues need to be taken into account: server capacity, running of the EORTC clinical data base must remain smooth and un-interrupted, should the VM have a separate “data base”, link between VM and EORTC clinical data base, link between EORTC server/data base & commercial VM software, choosing the “best” VM commercial software.

To be able to answer all these questions, a face-to-face meeting, with one of the companies, took place. From the presentations the need of virtual microscopy within the project has been confirmed. However, to be able to more objectively evaluate different systems and how they fulfill the Consortium requirements for a satisfactory VM, a questionnaire will be developed. This document will be sent to several companies producing VM. Their replies will be reviewed by the responsible for the WP, together with other Consortium partners. Based on this evaluation, further meetings/demonstration will be organized. Careful assessment will be done before final decision is made.