The Belgian Virtual Tumourbank (BVT) Catalogue: a tool for translational cancer research

Eva Van der Stock⁽¹⁾, Kim Vande Loock⁽¹⁾, Annelies Debucquoy⁽¹⁾, Katia Emmerechts⁽¹⁾, Liesbet Van Eycken⁽¹⁾, Etienne Marbaix⁽²⁾ on behalf of the Steering Committee of the Belgian Virtual Tumourbank ¹ Belgian Cancer Registry, Koningsstraat 215 bus 7, 1210 Brussels, Belgium ² Service d'Anatomie Pathologique, Université Catholique de Louvain, St-Luc University Hospital, 10 Ave Hippocrate, 1200 Brussels, Belgium

BACKGROUND AND AIM

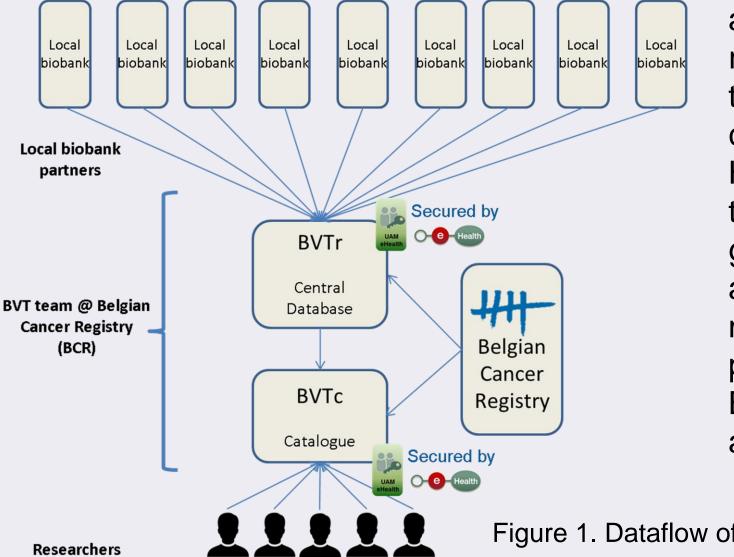
Biobanks play a critical role in cancer research by providing biological samples of high quality for research. However, the availability of tumour samples in single research institutions is often limited, especially for rare cancers. The Belgian Virtual Tumourbank (BVT)project was launched in March 2008 by the Belgian Ministry of Public Health (initiative 27 of the Belgian Cancer Plan) to facilitate the search for tumour samples scattered amongst different Belgian institutions with coordination by the Belgian Cancer Registry (BCR).

RESULTS The BVT catalogue (BVTc) for tumour sample annotation and traceability is online available since 2012. It contains medical, technical and patient details, but excludes identifying information to ensure privacy of individuals (check our website for a list of all variables available in the catalogue).

Currently, more than 111,500 samples, including 86.4% primary tumour samples and 12.1% metastasis samples, are registered and visible for researchers in the BVTc.

MATERIALS AND METHODS

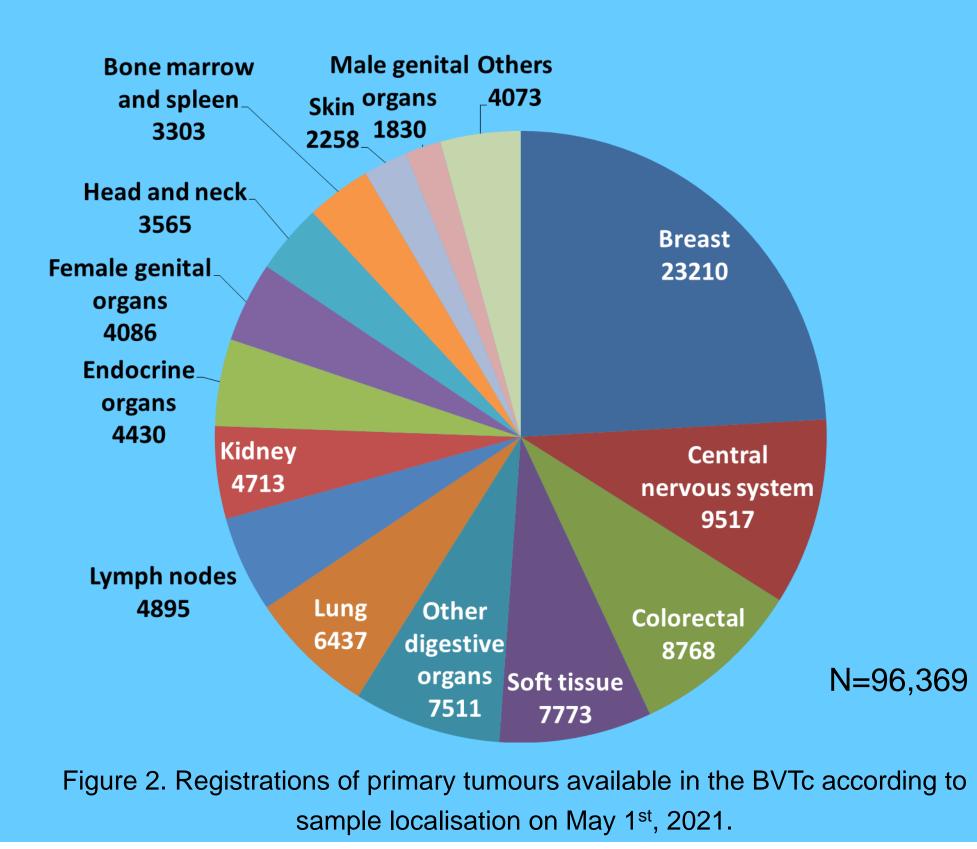
The BVT network encompasses 11 tumour biobanks from Belgian university hospitals that collect and store residual human tumour samples locally. Data is collected at sample level via a custom-made application for registration (i.e. the BVTr) and a coded version is made



available for researchers via the online BVT catalogue (BVTc). High quality of data the is guaranteed by automatic and manual controls performed by the BVT project team at the BCR.

Figure 1. Dataflow of the BVT applications.

LKI Oncoforum May 28, 2021



This presentation is the intellectual property of the author/presenter. Contact them at biobank@kankerregister.org for permission to reprint and/or distribute.

Belgian Cancer Registry



\mathbf{A} MOURBA

LEUVEN CANCER INSTITUTE

DISCUSSION AND CONCLUSION

Full access to online BVTc-application:

• WHO: Belgian researchers active in the broad field of oncology • WHAT: Full access to the BVTc, to obtain detailed sample level information.

• HOW: Go to <u>www.virtualtumourbank.be</u> \rightarrow "Catalogue of biobanked samples" \rightarrow "Access to the catalogue" \rightarrow Fill in the catalogue application form \rightarrow Send (with requested attachments) to <u>biobank@kankerregister.org</u> \rightarrow After positive evaluation of the request by the BVT Steering Committee, the BVT project team sends the catalogue access agreement \rightarrow After signing and returning this access agreement, access to the BVTc is provided.

Quick search for sample availability:

• **WHO**: Any researcher active in the broad field of oncology

• WHAT: Easily verify the number of samples of interest registered in the BVTc and the contact info of the local biobanks hosting these samples.

• HOW: Go to <u>www.virtualtumourbank.be</u> \rightarrow "Catalogue of biobanked" samples" \rightarrow "Sample availability request form" \rightarrow Complete the form and click on "send" \rightarrow The BVT project team will inform you via e-mail about the total number of samples matching your request, including the biobank's contact information.

Contact us: biobank@kankerregister.org +32 (0)2 250 10 10 www.virtualtumourbank.be

Acknowledgments: This initiative is financed by the Belgian Ministry of Public Health as part of the Belgian Cancer Plan.