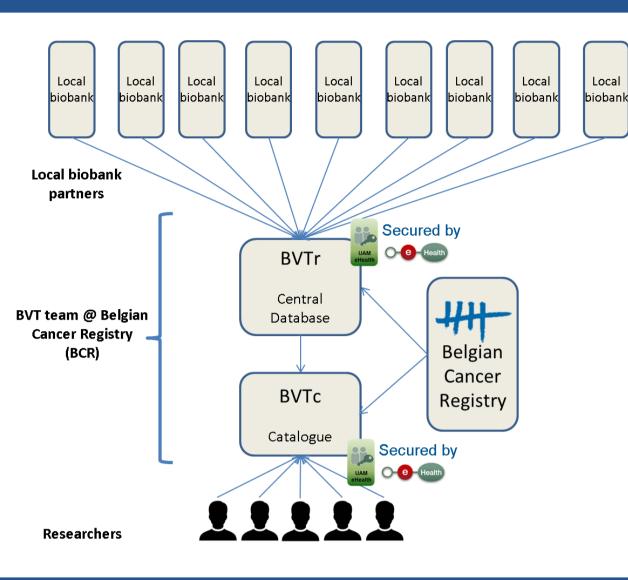
The Belgian Virtual Tumourbank (BVT): Availability of rare cancers in the catalogue

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Biobanks play a critical role in cancer research by providing high quality biological samples for research. However, the availability of tumour samples in single research institutions is often limited, especially for rare cancers.

Belgian Cancer Registry

The Belgian Virtual Tumourbank (BVT) network encompasses the tumour biobanks from <u>eleven</u> Belgian university hospitals that collect and store residual human tumour samples locally. In order to facilitate the search for tumour samples scattered among different institutions, data collected at sample level is made available for researchers via the online BVT catalogue (BVTc).

High quality of the data is guaranteed by <u>automatic</u> and <u>manual</u> controls performed by the BVT team at the Belgian Cancer Registry.

In July 2021, a total of 111,101 registrations were available in the BVTc, including 95,877 primary tumour samples and 13,547 metastasis samples.

What are RARE CANCERS?

BELGIAN VIRTUAL

- \rightarrow Cancers with an incidence rate < 6 per 100,000 per year for both sexes (see RARECARE project <u>http://rarecarenet.istitutotumori.mi.it/rarecarenet</u>)
- → 33,131 registrations from 15,414 patients, including 7052 female and 8362 male patients, retrieved in the BVT catalogue based on the RARECANCER list.

How are the samples stored?

The majority of the rare cancer samples (71%) are conserved at ·80°C.

Con	servation mode
Liquid	
nitrogen_	

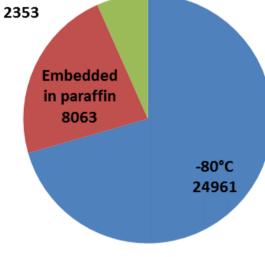
Where are the rare cancer samples localised?



Almost one fourth (23%) of the rare cancer samples are embedded in paraffin.

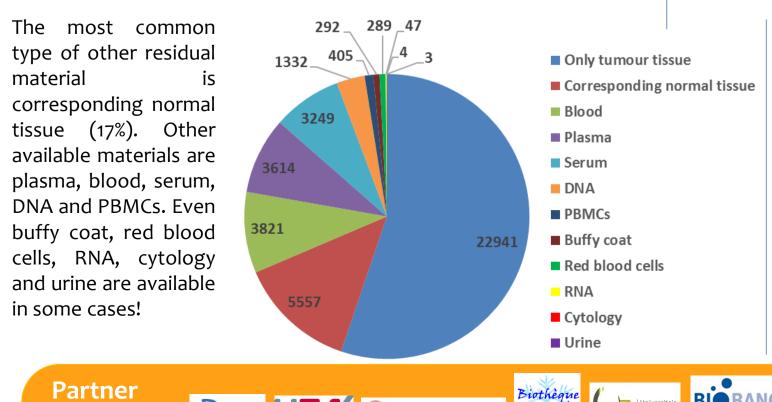
17% of the rare cancer samples are stored in less than 30 min after resection.

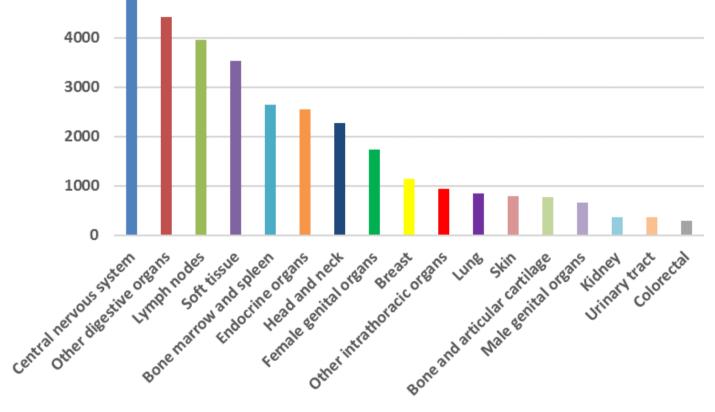
Biobanks



What other materials are available?

For 22,941 (69%) registrations of rare cancers only tumour tissue samples are available. However, also other residual materials can be stored at the local biobank and thus be registered in the BVT catalogue.





More than 5,800 samples from rare cancers in the central nervous system! More than 4,400 samples from rare cancers in other digestive organs (like stomach, liver and pancreas but excluding colon and rectum) and almost 4,000 samples from rare cancers in lymph nodes. Furthermore, rare cancers from soft tissue are also numerously present in the BVT catalogue.

Conclusion

UZ

BIO BANOUE

Hôpital Erasme ULB

The BVT catalogue is a great value for cancer research, in particular for rare cancers, by localising tumour samples stored in eleven biobanks.

CHU

JULES BORDET

For further information: www.virtualtumourbank.be