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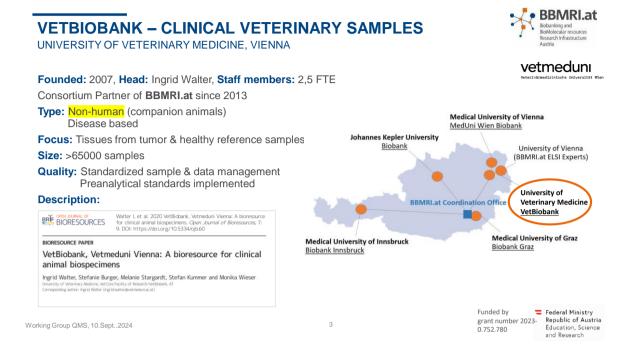


Unlocking the Power of Veterinary Samples-A Promising Source for "One Health" Research

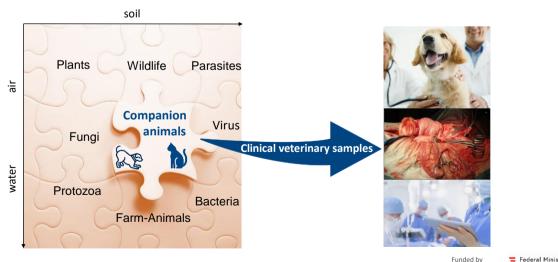
Monika Wieser, VetBiobank, University of Veterinary Medicine, Vienna

Working Group QMS, 10.Sept..2024

VETBIOBANK – CLINICAL VETE UNIVERSITY OF VETERINARY MEDICINE, VIENN		BBMRI.at Bioblarking and Bioblarking resources Research Infrastructure Austria
Founded: 2007, Head: Ingrid Walter, Staff member	ers: 2,5 FTE	
Consortium Partner of BBMRI.at since 2013		
Type: Non-human (companion animals) Disease based		Medical University of Vienna MedUni Wien Biobank
Focus: Tissues from tumor & healthy reference sar	nples Johannes Kepler University	
Size: >65000 samples	Biobank	University of Vienna (BBMRI.at ELSI Experts)
Quality: Standardized sample & data management Preanalytical standards implemented	: 	
Description:	BBMRI.at	Coordination Office Veterinary Medicine
BIORESOURCES Walter I, et al. 2020 VetBiobank, Vetmeduni Vienna: A bioresource for clinical animal biospecimens. Open Journal of Bioresources, 7: 9. DOI: https://doi.org/10.5334/ojb.60		VetBiobank
BIORESOURCE PAPER VetBiobank, Vetmeduni Vienna: A bioresource for clinical animal biospecimens Ingrid Walter, Stefanie Burger, Melanie Stargardt, Stefan Kummer and Monika Wieser Umand of Merzyn Melon, Micco Reid, of Reaur/VietKaate, Af Corresponding autrice Ingrit Walter (Englisaulte Burtmach/Jettistaate, Af	Medical University of Innsbruck Biobank Innsbruck	Medical University of Graz Biobank Graz
rking Group QMS, 10.Sept2024	2	Funded by Federal Ministry grant number 2023- 0.752.780 Education, Science and Research



HUMAN vs. NON-HUMAN

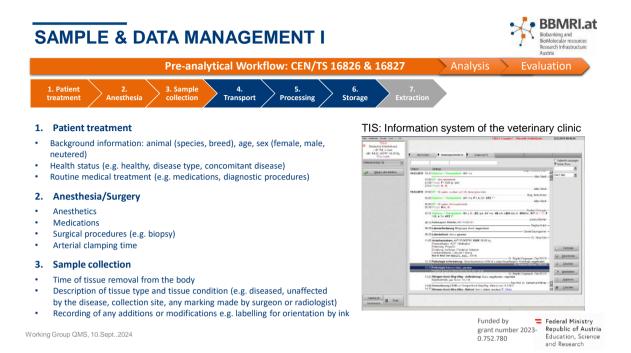


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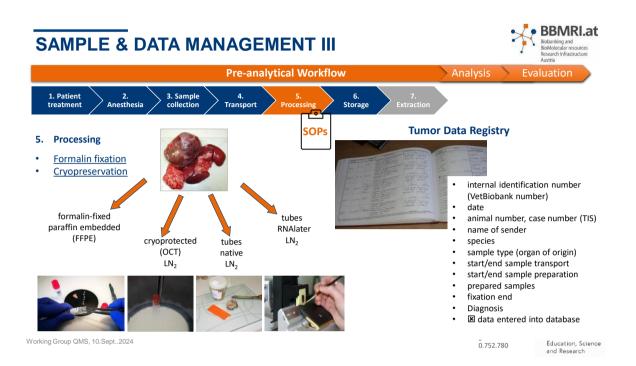
SAMPLE & DATA MANAGEMENT II



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Biobanking and BioMolecular resources Research Infrastructure



PROCESSING: FREEZING METHOD

Freezing methods in biobanking standards							
LIQUID NITROGEN	ISOPENTANE PRECOOLED WITH DRY ICE OR LIQUID NITROGEN	LIQUID NITROGEN VAPOR					
ISO 20184 (2018)	ISO 20184 (2018)						
ISBER Practice (2024)	ISBER Practice (2024)						
NCI Best Practices (2016)	NCI Best Practices (2016)	NCI Best Practices (2016)					
	IARC Technical Publication No44 (2017)						
	General TuBaFrost SOP (2007)						
Canadian Tissue Repository Network (2020)	Canadian Tissue Repository Network (2020)						
Molecular Medicine Ireland (2010)	Molecular Medicine Ireland (2010)						
Australasian Biospecimen Network (2007)	Australasian Biospecimen Network (2007)						
VetBiobank							



for RNA analysis

BBMRI.at

Monika Wieser · Stefanie Burger · Reinhard Ertl Stefan Kummer · Melanie Stargardt · Ingrid Walter



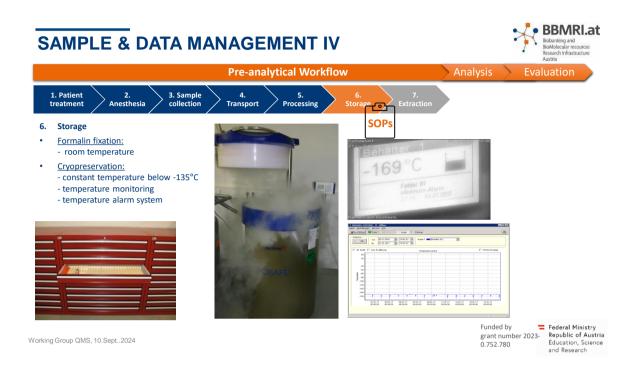
rontiers in Molecular Bioscie pi 10.3389/fmolb.2022.876670

without isopentane

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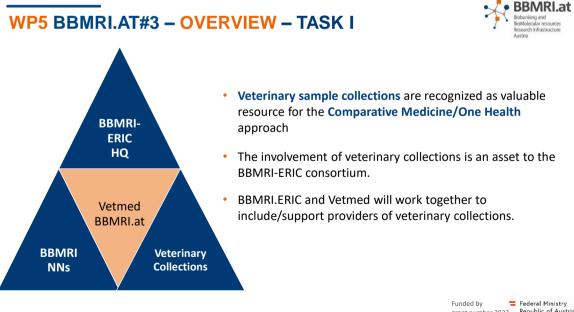


DATA MANAGEMENT: VETBIOBANK DATABASE

Home	VetBioBankNumber	3687	sample	number type a	rchived samples	current sampl	les protecte	ad SPREC code	storageposition1	storageposition2	storageposition3	storageposition4	storageposition
Tome	TIS case number	F/2018/028250/KleIZ	3687	RNAlater	7		7 No	TISSRGDERNLNC	Nitrogen Tank 02	Tower 02	Box 04	Row 04	Column 01
	TIS animal number	T/2018/014355	3687	pure	7		7 No	TISSRGDESNPNC	Nitrogen Tank 02	Tower 02	Box 04	Row 04	Column 02
Add patient data	animal name	Nida	3687	OCT	1		1 No	TISSRGDEOCTNQ	Nitrogen Tank 02	Tower 06	Box 05	Row 01	Column 08
	species	cat	3687-2	2 slides	2		2 No		Slide Archive 01	Drawer 01	Row 22		
PatientData	breed	Europäisch Kurzhaar	3687-	VetBioBank				Vot	meduni	Drawer 01	Row 22		
Samples	date of birth	16.10.2010		Veterinärmedizinisch				ver	meauni				
Disposals	age	By 1m		Veterinarplatz 1, 1210 W	ien, T +43 1 250 77.:	5405							
Disposais	gender	female, neutered		100									
	date of surgery / date of euthan	asia 03.12.2018		Europhisch Kurzhaar	MELA amblich ka		BioBank						
Administration	time of vessel ligation / time of	death 03.12.2018 13:00		Geburtsdatum: 16.1	0.10								
User Manual	collection time	03.12.2018 13:25		FallNr: F/2018/02825	Zeit: 13:27	SerNr: T/2018/	014355 Aon: Monika Wi	lagar '					
	localization	torso (Rumpf)						ese					
EDIT LINKS	specific localization	thorax		Gewebe-/Tumorb									
	transportation start	03.12.2018 13:40			tion der Lasion: Th								
	transportation end	03.12.2018 13:50		Zeitpunkt Artenenabkk			letnebstelle. Kl		Constant of Consta				
	transportation time	00:10		Zeitpunkt Tumorentna Kommentar	ome: 03 12 201	8 13:27 E	insender: U	nv Prof. Dr. Gilles Dupré, Di	pl ECVS				
	sender	Dupre Gilles, Klinische Abteilung fuer Kleintierchirurgie		Anamnese OP nur	konkreter Fall ("VD	Lungen Tumor")							
	sample preparation start	03.12.2018 12:50		Anamnese auswählen: 26 11 2018 Dr. Kaiter Toomatti. Anamnese auswählen: 26 11 2018 Dr. Kaiter Toomatti. Hitt Ulcas OS, Anamnese seit ein paar Wochen uhiger. Armung manchmal etiess. komsch telefort, Normal geferssen, Hitt, Normal, Mentag aberd schwerdinging.			(manual and man						
	sample preparation end	03.12.2018.14:00											
	sample preparation time	01:10			kurzzetig Maulatmung, wolfte an Theax nicht angefassen werden zumen zeinen Minuten wieder besen. Dienstag in Tierklink plus -> Otts festgestellt, dehydriet.			var nach einigen					
	fixation finished	05.12.2018 10:00			dann Rö	nigen und Ultrase	thall yon Thora	x und CT angefertigt währen htersucht), Rat zur Euthanasi	nd CT 150 ml				
	fixation time	1 Day(s) - 21 Hour(s) - 10 Minute(s)			Gestern Utbason bekomment, Leukose unbekannt, Wohnungskatze, grundimmunisiert aber schen länger nicht mehr geimpft, keine Vorerkrankungen, keine			trankungen, keine					
	warm ischemia time	00:25			Media: K32W 3 20 kg AV cts. H E mgz.vem. LBH bit bit ks. MSH bit, RT 38 4° C, P 190 A 522, KBZ 15°, H Ce: Ioles hoftwar, Lg bit displays for 37. mgr. verschaft weskular, bds mitteres 130, ventrales 133 unbestimmbar, Add. (mitteres Abdomen fester Strang statisticat > Kot vs. hwy? Stat. bit., Vir e V von g16 n et al. Tag 01° F. Fast.				arft vesikular, bds				
	cold ischemia time	00:35							T-Fast				
	transportation temperature	0-10° (or on wet-ice)		OP Protokoll aus		Contraction of the second		teitsgefüllten Hohiräumen Ot	S. HH Ulcus,				
	tumortype	thymoma			kamente: Butorphi			otomie sternál <10kg:					
	ICD-10 Code	D15.0 (Thymom)			Situs Methode: Nach Kli								
	access	use for research (unrestricted)				niemetnode							
	note	Thorax, granial Pericart;		Patho Befund auswählen: Befund: Vor einem Hintergrund aus dichtem, spindelzeiligern, mesenchymal erscheinendem Gewebe, unregelmäßig				be, unregelmaßig	e				
	identifier	tumor		verteite vi	effech folkelartige Be, mesothelartige	Areale aus out d	flerenzierten Li	ymphozyten, eingestreut zah	teiche ektatische	Funded	.,	Federal Peoublic	Ministry c of Austri
	SPREC code choice	OP		Diagnose: Thymom							umber 2023		on, Science
	year	2018		Pathologiebefund vom	5.12.18 von . => S	latus vident				0.752.7	80	and Res	

Biobanking and BioMolecular resources

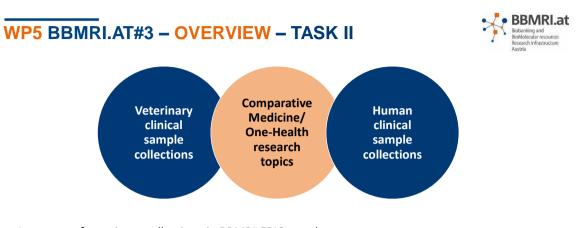




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- Inventory of veterinary collections in BBMRI-ERIC member states
- Networking with "Vet "partners
- Identification of one research topic of interest in veterinary and human medicine and networking of relevant individuals

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⇒ ^p *BBMRI-ERIC*	Home Background Map of Biobanks Back to the catalogue / VetBioBank	Privacy Statement Manuals		CEN/TS 16826 1-3 ✓ CEN/TS 16827 1-3 ✓		BBMRI.at Bobbanking and Bobbanking a
	quality animal tumor reference tissues of a		sease	Id: bbmri-ericIDAT_VETscollection:Felinetym Size: 1000 - 10:000 Available: 5051 samples Donors: 33 donors Age: 0-15 Near Type: Sample collection, Non-human, Disease Sex: Neutered female (animal), Neutered male Materials: Tissue (parting preserved), Tissue (frozen Server, Disma, Peres Storage: Rom temportature, Liquid Nitrogen Data: Data on clinical symptoms	specific, Image collection e (animal), Female, Male	Contact Information Ingrid Walter (Head of the VetBiobank) ♥ Website ■ Email University of Veterinary Medicine Austria
Size: 100 - 1000	Juridical person: University of Veterin	Meningioma in dogs and cats	ld: Size:	Data on disease duration and disease our imaging data <u>Medical records</u> Treatment protocol types of drugs used! Lymphoma Cohort bbmri-ericiDAT, VET collection:Caninelymphomacohort 1000 - 10.00	Bomm-enclose, Size: 1000 - 10.000 Available: 1606 samples Donors: 46 donors Type: Sample collectio Sex: Neutered female Materials: Tissue (parafiling	"VET.collection/OsteosarcomaCollection 🔥 n. Non-human, Disease specific (painnal), Frenzie, Neutered male (animal), Male preserved), Tissue (trained section/vilides), Tissue (traizen) ure. Lipidi Nitrogen
Available: 342 samples Donors: 57 donors Type: Sample collect Sex: Neutered fem Materials: Tissue (paraff Storage: Room temper Data on disea Imaging data Medical record	Spleen diseases in dogs Me bemi-ericIDAT_VETcollectionSpleen Size: 1000-10.000 Available: 2021 samples Dog Type See: Bestablish	tid burn-reiciJAT_VEF.collectionMen Size: 100-1000 Available: 214 samples Donor: 23 donors Type: Sample collection, Non-human, Disk Non Nentered Imake Janisah Fenale b together C	Donors: Type: Sex: Materials	175 sample: 61 doors Sample collection, Non-human, Disease specific, Image Neutered temale (animul), Neutered male (animul), fem Tisua (parafin preserved), Tasue (stained section/alide Serum, Plasma, Whole Blood Ortts of specc	Medical records Treatment proto Imaging data	symptoms duration and disease outcome col (types of drugs used) income to our outcome outcome of them and unspecified unspecified
Diagnosis: Other disorde Keratilis Malignant net	Story Data: Not available Data on clinical symptoms Data on disease duration and disease of Imaging data Medical records Treatment protocol (types of drugs use Diagnesis: Disease of spisen	Data on disease duration and diseas Medical records Treatment protocol (types of drugs o maging data Diagnosis: Benign neoplasm of meninges - Ben	Diagnosi	Medical records Treatment protocol (types of drugs used) s: Other and unspecified types of non-Hodgkin lymphoma	F	runded by Federal Ministry rant number 2023- LT52.780 Education, Science and Research





CONTACT DETAILS

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THANK YOU!

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