SAMPLE HANDLING For Canine DNA Research & Testing at the University of Missouri

Blood Sample - The ideal sample for DNA extraction is 3 to 7 cc's of whole blood, in **purple-topped (EDTA)** tubes (one or several, depending on tube size). For very small dogs, 2-3ccs should be sufficient. The blood sample needs only to be put in the tubes and rocked gently a few times to distribute the anticoagulant - do **not** spin, extract serum, or do anything further. Refrigerate if the sample is being held for any time before shipping, but do not hold the sample longer than 1 week before shipping or it may become unusable.

<u>Frozen Semen</u> - Frozen semen stored from deceased sires can be a source of DNA for testing. Please send 1 breeding unit (straws or pellets). They do not need to be shipped frozen, but do pack them in a crush-proof & leak-proof container. Special handling fee is \$40 for this sample, in addition to the regular testing fee.

<u>**Tissue Sample</u>** - DNA can be extracted from any cell-rich tissue. If a dog is to be tested post-mortem, a 1" cube (or equivalent) of tongue, other muscle, spleen, kidney, or liver will provide a large amount of DNA (one tissue is sufficient – do not send multiple tissues). Tissue samples should be placed in a clearly labeled freezer bag or other sterile container and frozen. **DO NOT place in formalin!** Place the bagged tissue inside another bag, freeze, and ship with a frozen cool pack (do not use dry ice, or ice cubes placed in a ziplock bag). If this is the only sample (no blood sample available), add special handling fee of \$40 to regular testing fee.</u>

Label sample with the following: call name - owner's last name (If samples from several dogs are sent together, number samples and forms)

The *Individual Dog Information Form* that follows this instruction sheet should be completed, and a *pedigree copy*, if available, should be included with the sample. If no pedigree information is available, please indicate this on the form. For any suspected affected dogs please include a description of the clinical signs observed and age when first noted.

Include TESTING FEE of \$65 for dogs with no clinical signs of MPS1, suspected affected dogs are no charge thru July 1, 2020. Check or money order should be payable to "University of Missouri". Credit cards (Visa, Mastercard, Discover, or American Express) can be accepted.

Shipping - Ideally the sample should be shipped immediately (with a tissue sample make certain it is completely frozen first). If samples are held for a day or over a weekend, blood must be refrigerated, and tissue samples must be kept frozen. Ship for next day delivery (FedEx, US Mail-Express service, or UPS). **Do not send on a Friday** - there will not be anyone to accept the delivery on a weekend, and the sample could be unusable by Monday. Pack in a small insulated container (most vets have these for shipping samples to labs), with one or more frozen cool packs – DO NOT use dry ice or a baggie full of ice cubes!!

The delivery address is; Dr. Gary Johnson – MPS1 Testing 320 Connaway Hall University of Missouri Columbia, MO 65211 (NOTE: if UPS does not recognize 320 Connaway as a valid address, use 201 Connaway)

If you need clarification, or have any questions about any of these procedures, please contact Liz Hansen by phone (573-884-3712), email (HansenL@missouri.edu), or regular mail (321 Connaway Hall, University of Missouri, Columbia, MO 65211).

UMC MPS1 DNA TESTING & RESEARCH

Blood – Tissue – FTA-swab – semen - other					Breed: Basset Hound	
Registered Name					Call name	
Reg# Birth Date					Male / Female Intact / Neutered	
Microchip or Tattoo:						
Test E	Being Re	equested: MPS1 - Mucopo	olysaccharid	osis		
Owner	r: name		Vet	erinarian		
address						
cty-st-zip phone (day)						
phone (eve)						
cell				Fax		
EMAIL						
****F					mplete, legible email address!!****	
		, Report test results to (µ				
		• •	,			
Does	this dog	g exhibit any of the followir	ng condition	s? (Plea	se attach history for any Yes answer)	
Y - N	Allergi	es	Y - N	Digestiv	ve difficulties	
Y - N	Arthrit	is	Y - N	Heart F	Problems	
Y - N	Autoin	nmune Disorders	Y - N	Hernia	(where?)	
Y - N	Bite or	r Tooth Abnormalities	Y - N	Reprod	luctive Problems	
Y - N	Cance	er / Tumors	Y - N	Seizure	es	
Y - N	Catara	acts / Vision Problems	Y - N	Skin / C	Coat Problems	
Y - N	Deafn	ess / Hearing Impaired	Y - N	Skeleta	al Abnormalities (Hip Dysplasia, etc.)	
Y - N	Hindlir	mb weakness/paralysis	Y - N	Tempe	rament Problems (shy, aggressive, etc.)	
other (please l	ist):				
lf	this is	a dog with suspected M	PS1, please	e includ	e description of observed signs	
Comm	ients / Q	uestions / Concerns?				
followi be rep	ng the te orted or	est may be stored for potentia ly to the owner listed on this	al future resea form and to t	arch; I ur he veteri	g; I understand that DNA left over nderstand that the results of this test will narian (if requested) listed here, via email to the best of my knowledge.	
Signed:				date		
PAYM		FORMATION: Check or m	oney order p	ayable to	"University of Missouri" enclosed	
	OR	DR Charge to VISA-MasterCard-Discover Card#				
		Cardholder name:			Exp Date:	
FL	E E: Clinic	cal signs of MPS1 present=free	thru 7/1/20; Cl	inically no	ormal=\$65; frozen semen or tissue, + \$40	