## **SAMPLE HANDLING**

#### For Canine DNA Testing at the University of Missouri

<u>Blood Sample</u> - The ideal sample for DNA extraction is 3 to 7cc's of whole blood, in **purple-topped (EDTA)** tubes (one or several, depending on tube size). For very small dogs, 1 to 2 ccs should be sufficient. Please do not send less than 1 cc. 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 or affected dogs can be a source of DNA for testing. Please send about 1 breeding unit. The straws or pellets 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 major 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 testing fee.

### 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 & Survey* that follow this instruction sheet should be completed, and a *pedigree copy*, if available, should be included with the sample.

**Include TESTING FEE of \$65** if only one test is being requested, or **\$50** per test if 2 or more tests are requested for this same dog at the same time. Fee payable via check or money order payable to "University of Missouri", or major credit cards (Visa, MC, AmEx, Discover).

**Shipping** – Ideally, blood samples should be shipped immediately, tissues should be frozen first. If samples are held for a couple days 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 (Styrofoam box, small cooler or insulated lunch bag), with one or more cool packs - it is important that blood samples be kept cool but not frozen, and tissue samples be kept as frozen as possible.

#### The delivery address is;

Dr. Gary Johnson – CC DNA Testing 320 Connaway Hall-UMC 1500 Bouchelle Ave 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 CANINE DNA TESTING for Cane Corso**

Blood – Tissue – FTA-swab – semen - other				Breed: <u>Cane Corso</u>	
Regist	tered Nar	me		Call name	
		e			
Microchip or Tattoo:					
Circle	Test Be	ing Requested: DM – De	generative M	yelopathy	
		DSR – D	ental-Skeleta	I-Retinal anomaly	
		NCL - N	euronal Cero	id Lipofuscinosis (CLN1)	
•					
Owner: name			erinarian		
address			address		
cty-st-zip					
	phone (day)			phone	
	phone	(eve)		<del></del>	
	cell		<del></del>	<del></del> _	
	EMAIL	·	<del></del>	EMAIL	
****Results are reported via email – please provide complete, legible email address!!****					
		Report test results to	(please circle)	: Owner Veterinarian Both	
Does t	this dog e	exhibit any of the following	conditions? (F	Please attach history for any Yes answer)	
Y - N	Allergie	es	Y - N	Digestive difficulties	
Y - N	Arthritis	3	Y - N	Heart Problems	
Y - N	Autoim	mune Disorders	Y - N	Hernia (where?)	
Y - N	Bite or	Tooth Abnormalities	Y - N	Reproductive Problems	
Y - N	Cance	r / Tumors	Y - N	Seizures	
Y - N	Catara	cts / Vision Problems	Y - N	Skin / Coat Problems	
Y - N	Deafne	ess / Hearing Impaired	Y - N	Skeletal Abnormalities (Hip Dysplasia, etc.)	
Y - N	Hindlin	nb weakness/paralysis	Y - N	Temperament Problems (shy, aggressive, etc.	
other (	(please li			, , , , , , , , , , , , , , , , , , , ,	
Comments / Questions / Concerns?					
•			<del></del>		
followi be rep	ng the te orted onl	st may be stored for poten y to the owner listed on thi	tial future rese s form and to	IA testing; I understand that DNA left over earch; I understand that the results of this test wil the veterinarian (if requested) listed here, via mation, to the best of my knowledge.	
PAYMENT INFORMATION: ☐ Check or money order payable to "University of Missouri" enclosed  OR ☐ Charge to VISA-MCard-Discover-AmEx Card#					
	OIX			Exp Date:	
		Caranolaci Haille.		LAP Date	

FEE: \$65 for one test, \$50 per test if 2 or more ordered at same time; frozen semen or tissue, add \$40