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 for all dogs. 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 - DDobe 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 Dancing Doberman DNA TESTING & RESEARCH

Blood -	Tissue – FTA-swab – semen - other		Breed: <u>Doberman Pinscher</u>		
Registe	ered Name				
	PID Birth Date				
_	hip or Tattoo:				
Test B	eing Requested: DDD – Dancing Dob	erman E			
Owner	: name	_ Vete	erinarian		
	address		ddress		
	cty-st-zip		y-st-zip		
	phone (day)		phone		
	phone (eve)	_	<u></u>		
	cell	_	<u></u>		
	EMAIL	_	EMAIL		
****R	esults are reported via email – plea	ase pro	vide complete, legible email address!!****		
	Report test results to (pleas	e circle):	Owner Veterinarian Both		
PAYMENT INFORMATION: ☐ Check or money order payable to "University of Missouri" enclosed OR ☐ Charge to VISA-MC-AmEx-Discover Card#					
	-		Exp Date:		
EEE					
FEE	. – \$00, ITOZETI SETTIETI OT USSUE, + \$40	Keceipi	t email:		
Does t	his dog exhibit any of the following co	onditions	s? (Please attach history for any Yes answer)		
Y - N	Allergies	Y - N	Digestive difficulties		
Y - N	Arthritis	Y - N	Heart Problems		
Y - N	Autoimmune Disorders	Y - N	Hernia (where?)		
Y - N	Bite or Tooth Abnormalities	Y - N	Reproductive Problems		
Y - N	Cancer / Tumors	Y - N	Seizures		
Y - N	Cataracts / Vision Problems	Y - N	Skin / Coat Problems		
Y - N	Deafness / Hearing Impaired	Y - N	Skeletal Abnormalities (Hip Dysplasia, etc.)		
Y - N	Hindlimb weakness/paralysis	Y - N	Temperament Problems (shy, aggressive, etc.)		
other (olease list):				
Comm	ents / Questions / Concerns?				
following be repo	ng the test may be stored for potential fut	ure resea and to t	A testing; I understand that DNA left over arch; I understand that the results of this test will he veterinarian (if requested) listed here, via nation, to the best of my knowledge.		
Sianed			date		

Please circle your answer to the questions below, and fill in blanks as appropriate.

Has this dog been diagnosed with Dancing Dob	erman Disease? Y N Suspected	t t				
Was this diagnosis made by a veterinarian?	Y N					
When did this dog begin showing signs of DDD (r	nonth & year)?					
Is this dog still alive? Y N If NO, when d	id this dog die?					
What was the cause of death?						
How long has this dog been showing signs of DDD?						
1-3 mos 4-8 mos 9-12 mos 13-1	8 mos	<mark>r 36 mos</mark>				
Which of the following tests were done to make No diagnostic tests, clinical symptoms only Spinal radiographs (x-rays)	YN result was: normal abnormal					
Describe the FIRST symptoms of DDD in this do Uncoordinated gait	N Dragging toes	ath): Y N Y N ath): Y N Y N dy Y N Y N Y N Y N				
Do you know of relatives of this dog who are di	agnosed with DDD? <mark>Y N</mark>					
If yes, please circle: sire dam sibling gra	ndparent offspring other					

Pedigree (family tree) information is very helpful for continuing research, and is held in strict confidence by the researchers. Please enclose a pedigree copy or registration certificate copy if available.

Pedigree attached Pedigree will be mailed or emailed separately Pedigree unknown/unavailable

Any other information you feel would be useful for the researchers, please list below or attach. Thank you for submitting this sample and providing complete information.