SAMPLE HANDLING For Canine DNA testing at the University of Missouri

Blood Sample - 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.

Frozen Semen - 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.</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 & 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 - SLEM 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 BT-SLEM DNA TESTING & RESEARCH

Blood – Tissue – FTA-swab – semen - other		Breed: Border Terrier
Registered Name		Call name
Reg# Birth Date Microchip or Tattoo:		Male / Female Intact / Neutered
		Color
Test Being Requested: SLEM – Spongi	iform Leukol	DEncephaloMyelopathy
Owner: name	Vet	eterinarian
address addre		address
cty-st-zip	C	cty-st-zip
phone (day)		phone
phone (eve)		
cell		
EMAIL		EMAIL
•		rovide complete, legible email address!! **** e): Owner Veterinarian Both
Does this dog exhibit any of the following	ng condition	ns? (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 (please list):		
If this is a dog with clinical signs of	SLEM, ple	ease include description of observed signs
Comments / Questions / Concerns?		
following the test may be stored for potenti be reported only to the owner listed on this	al future rese form and to e and accura	NA testing; I understand that DNA left over earch; I understand that the results of this test will o the veterinarian (if requested) listed here, via ate information, to the best of my knowledge. date
PAYMENT INFORMATION: Check or m	noney order p	payable to "University of Missouri" enclosed
PAYMENT INFORMATION:□ Check or m OR □ Charge to VISA-MC-Am	noney order p nEx-Discover	