Dissection of Cardiovascular Tissues from Large Animals

Tissues are chopped into segments <0.5cm and collected into 5ml of RNAlater or snap frozen according to protocol ROSLIN_SOP_Harvest of large animal tissues_20160413.

1. Take segment of pulmonary vein, close to left atrium (*pulmonary vein*)
2. Snip segment of left auricle from outer lobe (*left auricle*)
3. Open left atrium and take segment from inner region (*left atrium*
4. Dissect down from left auricle through left atrioventricular (mitral) valve and open the left ventricle
5. Take both mitral valve leaflets, avoiding septum and chordae (*left AV valve*)
6. Take all of left chordae tendonae, avoiding papillary muscle and valve leaflet (*left chordae*)
7. Take segment of left papillary muscle, avoiding chordae tendonae (*left papillary muscle*)
8. Take segment of left ventricle from free wall (*left ventricle*)
9. Take a segment from the middle of the ventricular septum (*septum*)
10. Dissect up through aortic valve and take all three leaflets, avoiding aortic and septal tissue (*left semilunar valve*)
11. Take a segment at the base of aorta from just above the valve (*aorta base*)
12. Dissect the ascending aorta and take a segment of the aortic arch from region of cranial arteries (*aorta arch*)
13. Take a segment of the cranial vena cava from close to the atrium (*cranial vena cava*)
14. Take a segment of the caudal vena cava from close to the atrium (*caudal vena cava*)
15. Snip a segment of the right auricle from outer lobe (*right auricle*)
16. Open the right right atrium and take a segment from inner region (*right atrium*)
17. Locate the region of atrioventricular node across from the coronary sinus and the opening of the caudal vena cava and take a sample (*AV node*)
18. Locate the region of sinoatrial node beneath the epicardium near the opening of the cranial vena cava and take a sample (*SA node*)
19. Dissect down from right auricle through right atrioventricular (tricuspid) valve and open the right ventricle

20. Take the whole of the right trabecula septomarginalis spanning the right ventricle
21. Take all three tricuspid valve leaflets, avoiding septum and chordae (*right AV valve*)
22. Take all of the right chordae tendonae, avoiding papillary muscle and valve leaflet (*right chordae*)
23. Open right ventricle and take segment of right papillary muscle, avoiding chordae tendonae (*right papillary muscle*)
24. Dissect up through pulmonary valve and take all three leaflets, avoiding pulmonary artery and septal tissue (*right semilunar valve*)
25. Take a sample of the pulmonary artery from above the pulmonary valve (*pulmonary artery*)
26. Take a sample of the thoracic aorta above the diaphragm (*thoracic aorta*)
27. Take a samaple of the abdominal aorta just below the diaphragm (*abdominal aorta head*)
28. Take a sample of the abdominal aorta at the level of the renal arteries (*abdominal aorta mid*)
29. Take a sample of the abdominal aorta just above the bifurcation (*abdominal aorta leg end*)