

## **Osteochondral Transplant System—Week 7, Progress Report**

**Client:** Dr. Brian Walczak

**Advisor:** Dr. Krishanu Saha

**Team:** Rodrigo Umanzor (Leader)                      umanzor@wisc.edu  
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### **Problem Statement**

Osteochondral allografting is a common procedure performed on patients that require replacement of diseased bone. Current methods of implantation require the application of mechanical forces that have a detrimental effect on the live chondrocytes present on the implant. Maximizing the amount of viable tissue during and after the surgery is a crucial factor for the success of the procedure. Hence, the client requests a delivery system that will reduce the amount of mechanical forces required to securely place the implant into the donor site.

### **Previous Week's Goals**

- At least one member must receive confocal microscope training ✓
- Establish a source for obtaining media and PBS needed for testing ✓
- Edit bone plug extraction protocol to incorporate the guide tool ✓

### **Summary of Team Accomplishments**

- Two members (Eduardo and Rodrigo) received confocal microscope training at the WIMR
- We now have access to use the confocal microscope at the WIMR
- We could not obtain media and PBS directly from the BME department, however Dr. Saha said he would be willing to provide us with these reagents

### **This Week's Goals (Team and Individual)**

- Purchase fresh cow femurs on Friday from Underground Butcher
- Extract bone plugs and image using the confocal microscope at the WIMR

### **Project Difficulties**

No new difficulties to report.

### **Expenses**

No expenses to report.

## Individual Activity Log

Person	Task	Time (hr)	Weekly Total (hr)	Semester Total (hr)
Rodrigo (Leader)	Weekly progress report	0.5	3.5	26
	Adviser meeting	0.5		
	Team meeting	0.5		
	Individual research & work	2		
Eduardo (Communicator)	Team meeting	0.5	6	23
	Adviser meeting	0.5		
	Individual research & work	5		
Nick (BSAC & BWIG)	Adviser meeting	0.5	2	21
	Team Meeting	0.5		
	Individual research & work	1		
Bilin (BPAG)	Adviser Meeting	0.5	3.5	22
	Team Meeting	0.5		
	Individual research & work	3		

