

CLASS SCHEDULE

DATE	TOPIC	PRESENTER(S)	READINGS	COMMENTS
28-Aug	Introduction	Sible	http://www.nih.gov/news/stemcell/scireport.htm Blau et al. 2001 Cell 105: 829-841 Holden and Vogel 2002 Science 296: 2126-2129	By the end of these first two meetings, we should arrive at a common definition of a stem cell, understand the distinctions between adult and embryonic stem cells, and develop a set of criteria for the evaluating the papers we will be reading. In particular, what standards will we apply regarding the purity of the stem cell source and the potential of that cell to differentiate?
4-Sep	Introduction (con't)	Sible		
11-Sep	Adult Stem Cells- isolation and identification	Jeff Brad	Smith et al. PNAS 88: 2788-2792 Akashi et al. 2000 Martin et al. 2002 Quirici et al. 2002	
18-Sep	Adult Stem Cells- differentiation potential	Jamie	Mezey et al. 2000 Science 290: 1779-1782 Jiang et al. 2002 Nature 418: 41-48	
2-Oct	Adult Stem Cells- differentiation potential (con't)	Ian Dayna	Clarke et al. 2000 Science 288: 1660-1663 Jackson et al. 2001 J.Clin. Invest. 107: 1395-1402 Castro et al. 2002 Science 297: 1299 Wagers et al. 2002 Science 297: 2256-2259	
9-Oct	Adult Stem Cells - therapeutic applications	Becky Brian W.	Bonner-Weir et al. 2000 PNAS 97: 7999-8004 Yang et al. 2002 PNAS 99: 8078-8083 Korbling et al. 2002 N Engl J Med 346: 738-746 Bensinger et al. 2001 N Engl J Med 244: 175-181	
16-Oct	Embryonic Stem Cells isolation and identification	Fang	Martin 1981 PNAS 78: 7634-7638 Evans and Kaufman 1981 Nature 292: 154-156	
23-Oct	Embryonic Stem Cells differentiation potential	Matt A. Padma	Yamashita 2000 Nature 408: 92-96	
30-Oct	Embryonic Stem Cells differentiation potential	Matt R. Karsten		ABSTRACT AND SPECIFIC AIMS DUE
6-Nov	Embryonic Stem Cells therapeutic applications	Ayesha Brian H.	Bjorklund et al. 2002 PNAS 99: 2344-2349 commentary by Curt Freed	
13-Nov	Human Embryonic Stem Cell Biology and Ethics	Sible	Trounson Nature Biotech. 2002 20: 237-238.	
20-Nov	Ethics			ROUGH DRAFTS DUE (OPTIONAL) will trade in class Sible will read all of them.
27-Nov	Thanksgiving Break			
4-Dec	Plant Stem Cells	Gillaspy		Rough drafts returned.
11-Dec	Evaluations			FINAL GRANT PROPOSALS DUE