

RARAF MICROBEAM TRAINING COURSE
2012 PROGRAM SCHEDULE: Mach 18 - 21, 2012
Nevis Laboratory, Columbia University

	SUN	MON	TUES	WED	
	18-Mar	19-Mar	20-Mar	21-Mar	
8:00	Students Arrival at Hotel. All Day	Course Opening	Daily Announcements	Daily Announcements	
:15		Faculty/Student Introductions	Day Activities Review	Day Activities Review	
:30			MICROBEAM LAB. 2	L7: Micronuclei Assay C. Geard	
:45		Orientation/Safety	Accelerator Start-Up		
9:00		L1: Why Microbeams? D. Brenner	MICROBEAM LAB. 3 D3: Cell Culture Techniques Petri Dish Preparation, M. Bonanno	L8: γ H2X Probes M. Vazquez	
:15		L2: Physics of Microbeams G. Randers-Pehrson			
:30		Coffee Break		L9: State-of-the-art probes A. Bigelow	
:45		L3: Microbeams Facilities G. Randers-Pehrson			
10:00		L4: Facilities and Techniques H. Matsumoto	Coffee Break	L:10: New Cell Signaling Probes M. Buonanno	
:15		RARAF Technical Tour S. Marino	Experimental Protocol Review Final Check-up		Endpoints Discussions
:30		Lunch Break	MICROBEAM LAB. 4 RARAF Microbeam Run Microbeam Diagnostics Microbeam Irradiation Luch Break	Lunch Break	
:45		L:5 Nuclear Effects, DNA D/R C. Geard			
13:00		L6: Cytoplasic and Bystander E. T. Hei		Run Debriefing Discussions	Microbeam Facility Development: Poster Stations PS1: X-Ray Microbeam PS2: Micro Fluidic Sys. & Optical Tweezers PS3: Neutron Microbeam PS4: UV Micro-spot
:15		MICROBEAM LAB. 1 D1: Microbeam Irradiation/Foci Formation A. Bigelow			
:30		Coffee Break	Coffee Break	L11: 3D-Systems: Skin S. Amundson	
:45		D2: Cell Culture Tech/Cell Plating M. Bonanno		Students as Users: Experimental Design Beam Time Proposals	L:12: In Vivo Models A. Bertucci
16:00		Experintal Design/Planning M. Vazquez	Coffee Break		Microbeam User Forum: User/Facility Interactions
:15		General Discussions	Adjoin	Coffee Break	
:30				Review of Beam Time Proposals	
:45		General Discussions	Adjoin	General Discussions Course Evaluation	
18:00		Adjoin		Closing Ceremony and Issue Certificate of Completion	
:15		Adjoin			
:30					
:45					