

RARAF MICROBEAM TRAINING COURSE
2013 PROGRAM SCHEDULE: May 20 - 22, 2013
Nevis Laboratory, Columbia University

Version 4

	SUN	MON	TUES	WED
	19-May	20-May	21-May	22-May
8:00	Students Arrival at Hotel. All Day		Daily Announcements	Daily Announcements
:15			Day Activities Review	Day Activities Review
:30			MICROBEAM LAB. 2	L7: Micronuclei Assay γ H2X Probes
:45			Accelerator Start-Up	C. Geard
9:00		Course Opening	MICROBEAM LAB. 3 D3: Cell Culture Techniques Cell Seeding, M. Buonanno	L8: State-of-the-art probes
:15		Faculty/Student Introductions		A. Bigelow
:30				L9: New Cell Signaling Probes
:45				M. Buonanno
10:00		Orientation/Safety		Coffee Break
:15		L1: Why Microbeams?	Coffee Break	L10: Micro Fluidic Sys. & Optical
:30		D. Brenner	Experimental Protocol Review	Tweezers, G. Garty
:45		L2: Physics of Microbeams	Final Check-up	L11: In Vivo Models
11:00		G. Randers-Pehrson	MICROBEAM LAB. 4 RARAF Microbeam Run 1. Microbeam Diagnostics 2. Microbeam Irradiation 3. Cell Staining/Handling 4. PMM Demonstration	B. Ponnaiya
:15		Coffee Break		Endpoints Discussions
:30		L3: Microbeams Facilities		Lunch Break
:45		G. Randers-Pehrson		
12:00		RARAF Technical Tour	Lunch Breaks	Microbeam Facility Development: Poster Stations PS1: X-Ray Microbeam, A. Harken PS2: Neutron Microbeam, Y. Xu PS3: UV Micro-spot, A. Bigelow
:15		S. Marino		
:30		Lunch Break	G. Randers-Pehrson	
:45		L:4 Nuclear Effects, DNA D/R	B. Ponnaiya	Coffee Break
13:00	C. Geard	G. Garty		
:15	L5: Cytoplasmic and Bystander	Run Debriefing Discussions	Review of Beam Time Proposals	
:30	E. Ezzam			
:45	MICROBEAM LAB. 1	Coffee Break		
14:00	D1: Microbeam Irradiation/Foci Formation	L6: 3D-Systems: Skin		
:15	A. Bigelow	S. Amundson		
:30	Coffee Break	Students as Users: Experiment Design Beam Time Proposals	General Discussions	
:45	D2: Cell Culture Techniques: Petri Dish Preparation		Course Evaluation	
15:00	M. Buonanno		Closing Ceremony and Issue Certificate of Completion	
:15	Experiment Design/Planning	Adjourn	Adjourn	
:30	M. Vazquez			
:45	General Discussions			
16:00	Adjourn			
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