

We make it visible.

NEXT INTERMEDIATE/ADVANCED LEVEL WORKSHOP

Dates: June 15-26, 2015

Location: CancerCare Manitoba, Winnipeg, Manitoba, CANADA

Registration deadline May 15, 2015.

Topics:

a) bench work in the laboratory:

- i) Spectral imaging and SKY of mouse/human chromosomes
- ii) Fluorescence microscopy in 2D/3D (manual, semi-automated and fully automated measurements and analysis).
- iii) Super resolution microscopy

b) imaging in the Genomic Centre for Cancer Research and Diagnosis:

image acquisition of all samples prepared during the course; interactive image analysis

c) **lectures** by expert mentors in the field: theory and practice of above techniques imaging, and their application in research and the clinic, discussion and data analysis of images acquired during the course. Lectures will also include Airy Scan, 3D Structured Illumination Microscopy, and 3D-PALM.

c) **journal clubs**: round table discussion of current literature in the field with experts in the field.

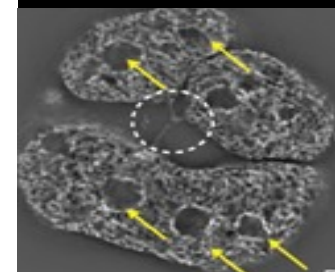
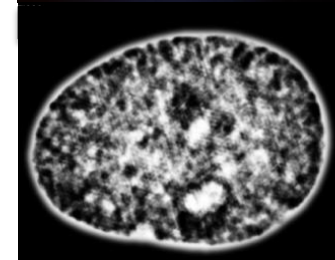
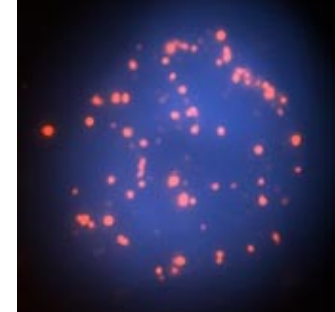
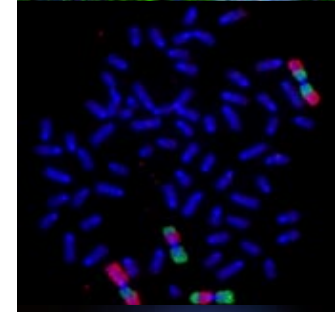
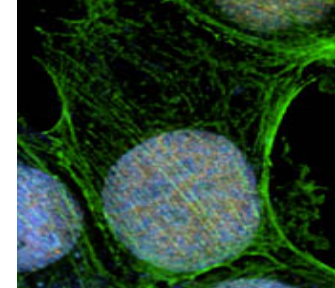
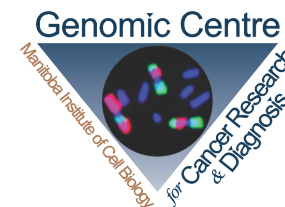
Registration: in order to register, please submit your CV and a short summary of why you are interest in this course to Dr. Sabine Mai, Workshop@umanitoba.ca. When registering, you are required to pay a registration fee. No applications will be accepted after May 15, 2015.

Early Bird Registration April 24, 2015: \$1500 (Cdn) + GST

Registration May 15, 2015: \$1800 (Cdn) + Taxes

Cancellations until May 15, 2015: Refund less a \$500 administration fee

Cancellations after May 15, 2015: No refunds



Intermediate/advanced workshop 2015

June 15/15 Monday	Theme of the day: SPECTRAL KARYOTYPING		
	Time		Location
	8:30-9:00	Introduction Dr. Sabine Mai	ON6005
	9:00-10:00	Spectral Karyotyping (SKY) - Principle and application Dr. Michael Koehler (Applied Spectral Imaging)	ON6005
	10:00-10:15	break	
	10:15-11:15	Journal Club Dr. Michael Koehler (Applied Spectral Imaging)	ON6005
	11:15-11:45	Hands-on: protocol overview - SKY with Q&A Dr. Sabine Mai	ON6005
	11:45-12:15	hands-on: SKY day 1	ON6045
	12:15-13:15	LUNCH BREAK	ON6005
	13:15-17:00	hands-on: continuation SKY day 1	ON6045
June 16/15 Tuesday	Theme of the day: 3D Imaging – Theory & Application		
	Time		Location
	8:30-10:30	3D-imaging – Theory and Application Dr. Sabine Mai	ON6005
	10:30-10:45	break	
	10:45-11:45	3D-imaging: Applications in Cancer Research Dr. Sabine Mai	ON6005
	11:45-12:00	hands-on: protocol overview – Q-FiSH with Q&A Dr. Sabine Mai	ON6045
	12:00-13:00	LUNCH BREAK	ON6005
	13:00-17:00	hands-on: (3D-Q-FiSH day 1)	ON6045

June 17/15 Theme of the day: 3D-Q-FISH and Spectral Karyotyping			
Wednesday	Time		Location
	8:30-12:30	hands-on: Q-FISH day 2	ON6045
	12:30-13:30	LUNCH BREAK	ON6005
	13:30-17:00	hands-on: SKY day 2	ON6045
June 18/15 Theme of the day: 3D-Q-FISH and Spectral Karyotyping			
Thursday	Time		Location
	8:30-9:30	Journal Club Dr. Sabine Mai	ON6005
	9:30-12:30	hands-on: Imaging Q-FISH and SKY	ON6045
	12:30-13:30	LUNCH BREAK	ON6005
	13:30-17:00	hands-on: Imaging Q-FISH and SKY	ON6045
June 19/15 Theme of the day: Q-FISH and Spectral Karyotyping			
Friday	Time		Location
	8:30-12:30	hands-on: Imaging Q-FISH (TeloView) and SKY	ON6045
	12:00-1:30	LUNCH BREAK	ON6005
	1:30-17:00	hands-on: Imaging Q-FISH (TeloView) and SKY data discussion	ON6045
June 22/15 Theme of the day: Super Resolution microscopy			
Monday	Time		Location
	8:30 – 9:30	Structural Illumination Microscopy Dr. Christiaan Righolt	ON6044
	9:30-12:30	hands-on: 3D SIM imaging Dr. Chirawadee Sathitruangsak Dr. Christiaan Righolt	ON6044
	12:30-13:30	LUNCH BREAK	ON6005
	13:30-17:00	hands-on: 3D SIM imaging	ON6044
	17:00-18:00	Journal club Dr. Christiaan Righolt	ON6005

June 23/15 Tuesday	Theme of the day: Automated signal detection and Analysis		
	Time		Location
	8:30-9:30	automation of signal detection Dr. Ludger Klewes	ON6005
	9:30-12:30	hands-on: 3D SIM image analysis Dr. Chirawadee Sathitruangsak Dr. Christiaan Righolt	ON6044
	12:30-13:30	LUNCH BREAK	ON6005
	13:30-17:00	hands-on: 3D SIM image analysis (cont.)	ON6044
June 24/15 Wednesday	Theme of the day: Super Resolution Microscopy		
	Time		Location
	8:30-12:30	Super resolution microscopy part 1 (PALM) TBA	ON6005
		Super resolution microscopy part 2 (Airy Scan) TBA	ON6005
	12:30-13:30	LUNCH BREAK	ON6005
	13:30-13:45	group picture	
	13:45-17:00	DEMO of PALM and AIRY SCAN	TBA
June 25/15 Thursday	Theme of the day: Data collection and Analysis		
	Time		Location
	8:30-12:30	hands-on: data collection/analysis	ON6005
	12:30-13:30	LUNCH BREAK	ON6005
	13:30-17:00	hands-on: data collection/analysis/discussion	ON6005
June 26/15 Friday	Theme of the day: Final Test		
	Time		Location
	8:30-11:30	final TEST	ON6005