

**PhD programme in
GENETICS MOLECULAR AND CELLULAR BIOLOGY**
Microscopy techniques: light, confocal and electron microscopy
December 2nd-6th, 2013

Date	Time	Topic	Teacher	Lecture	Place
December 2	9.30	Light microscopy: bright field, phase contrast, DIC	Vittorio Bertone <i>(Dip. Biologia e Biotecnologie)</i>	Theoretical	Dipartimento di Biologia e Biotecnologie
December 2	14.30	Electron microscopy I	Marco Biggiogera <i>(Dip. Biologia e Biotecnologie)</i>	Theoretical	Dipartimento di Biologia e Biotecnologie
December 3	9.30	Fluorescence microscopy: theoretical bases and biological applications	Giovanni Bottiroli – A. Cleta Croce <i>(IGM-CNR)</i>	Theoretical and practical	Dipartimento di Biologia e Biotecnologie
December 3	14.30	-	-	-	-
December 4	9.30	Flow cytometry: theory and practice	Giuliano Mazzini <i>(IGM-CNR)</i>	Theoretical and practical	Dipartimento di Biologia e Biotecnologie
December 4	14.30	Confocal microscopy	Patrizia Vaghi <i>(Centro Grandi Strumenti)</i>	Theoretical and practical	Centro Grandi Strumenti
December 5	9.30	Immunocytochemistry in multicolor fluorescence	M.G. Bottone – C. Pellicciari <i>(Dip. Biologia e Biotecnologie)</i>	Theoretical	Dipartimento di Biologia e Biotecnologie
December 5	14.30	Microscope observations and photomicrography	V. Bertone, M.G. Bottone, I. Freitas, C. Pellicciari <i>(Dip. Biologia e Biotecnologie)</i>	Practical	Dipartimento di Biologia e Biotecnologie
December 6	9.30	Processing and analysis of digital images	Vittorio Bertone <i>(Dip. Biologia e Biotecnologie)</i>	Theoretical	Dipartimento di Biologia e Biotecnologie
December 6	14.30	Electron microscopy II	Marco Biggiogera <i>(Dip. Biologia e Biotecnologie)</i>	Practical	Dipartimento di Biologia e Biotecnologie

Theoretical lessons will be held in the room T-133 (Floor 0 of the Golgi-Spallanzani building, “Settore di Anatomia Comparata”). For the practical sessions, which will be held in the laboratories at the third floor, PhD students will be subdivided in groups. Theoretical and practical lessons on confocal microscopy will be held at the “Centro Grandi Strumenti”.