



Advanced Imaging Core Facility

Confocal and Electron Microscopy Resource
Life Sciences Center I & II
205 University Avenue
Newark, NJ 07102

Confocal and Electron Microscopy Application -- Contact Information

PRINCIPAL INVESTIGATOR INFORMATION:

Principal Investigator (PI): _____

Position Title: _____

Institution: RUN NJIT RBHS Other: _____

Department: _____

Telephone: _____ Email: _____

REQUESTOR INFORMATION (if different from PI):

Requestor: _____

Requestor Position: Post Doc, Grad Student, Lab Staff, Undergrad, Visiting Sci

Telephone: _____ Email: _____

REQUESTED ACCESS:

Microscopy and/or Equipment Needs (brief description of microscope needs, sample consideration, imaging modes)

RESEARCH RELATED APPROVALS:

Does this project involve human tissue? Yes; No

If yes, IRB# _____

Are your samples Biohazard Level 1 Yes; No (If they are Biosafety Level 2 or above, please contact the REHS to verify if your samples can be used in the facility).

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Sample type:

Fixed cells, Live cells, Tissue sections, Live organisms, Others (_____)

Fluorescent Dyes:

Blue (DAPI, Alexa350)

Green (FITC, Alexa488, EGFP)

Red (TRITC, Cy3, Alexa-555, Alexa-594, RFP)

Far Red (Cy5, Alexa-647)

Other: _____

Confocal Microscopy (CM) Service Requested:

Independent User (microscope fee & training required*)

Assisted User (microscope & service fees apply);

Do you have experience in microscopy: Yes; No.

If yes, choose one you used most: light, epifluorescence, confocal, TEM

Please provide a brief description of microscopy experience:

Please identify any specialized methods/training requested

Live Cell

Time lapse & Video Film

Fluorescence recovery after photobleaching (FRAP)

Fluorescence Loss in Photobleaching (FLIP)

Quantitative

3D/nD reconstruction

Others: (_____)



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Confocal and Electron Microscopy Application -- Billing Information

BILLING INFORMATION:

Project ID	Task	Unit	Division	Org	Location	Fund Type	Business Line
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Rutgers GL/Project String #:

Non-Rutgers Purchase Order #: _____

Responsible Party: PI _____; Other, please specify: _____

Contact Person (Business manager): _____

Telephone: _____; Email: _____

SIGNATURES: (By signature, you agree to abide by the facility policies and rules of use)

PI Signature: _____ Date: _____

Requestor Signature: _____ Date: _____

*** Note:**

Users should plan ahead and apply for training 2-3 weeks before they will have samples ready for imaging. Training date can be scheduled on the day of sample ready and thus the training can be tailored to their specific needs.

- Basic Training Session
- System components: Computers, A1 Lasers, Power supplies.
- Microscope components: Light sources & paths, Optics and their characteristics, Optical resolution
- Basic principles of confocal microscopy: How does it work?
- Fluorescent dye combinations
- Program Software: Basic image acquisition and optical sectioning 3D, Sampling technique and save to file
- Image quality: What affects it and how to improve?

Please note special techniques training such as Live Cell, ND reconstruction, etc. should be arranged with the shared resource staff anytime prior to the user's need.

For additional information, please contact:

Edward Bonder, Ph.D
Email: ebonder@rutgers.edu
Tel: 973-353-1047



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Confocal and Electron Microscopy Application - Reader Card Access

Note: This form is for confocal microscopy facility users who have a valid Rutgers ID card and have completed microscopy training as well as general laboratory safety training. All users must complete and submit this form to get card reader access granted to the facility located in Life Science Center I & II.

PI name: _____

User's name: _____

RU Net ID _____

Email: _____

User's Signature: _____

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Authorization:

The above user has completed required confocal microscopy training sessions.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Office Use: