Project Title: Mercury Free Microscopy
Budget Requested: $50,000
Applicant/Project Leader: Claire Brown
Faculty/Department: Assistant Professor, Department of Physiology

PHGY560 Light Microscopy for the Life Sciences course, reaching both graduate and undergraduate students from McGill and Concordia University. In phase 2 of the project we plan to engage an even larger part of the McGill Community.

3. <u>Communicate why the project is being undertaken</u>: The three facilities combined serve about 400 users from 80 to 100 laboratories across McGill and Montreal. The Imaging Facility alone has run more than 50 workshops and courses in the last 7 years. This includes the international Montreal Light Microscopy Course (MLMC) that was attended by over 200 scientists and corporate attendees in July of 2012. This large network of access to researchers using microscopy will facilitate the awareness campaign. Also, having the three core facilities move to mercury free microscopy will set an example for all researchers that is it not move move 4 À 2 14#DlaóYVv anmercury to aóA0 Ð œQõb•ÐÃÐÃ2 , Ð 60†0'LQøb † bas

students and staff and see the value in educating them about MFM. We will develop and implement a MFM certification program. We will continue our educational initiatives. We will work with McGill to identify funding sources to replace mercury based light sources. We will encourage researchers to invest in these replacements given that they quickly pay for themselves because expensive replacement

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9. Stakeholders:

1. Life Sciences Complex Imaging Facility, Cell Imaging and Analysis Network (CIAN), Montreal Neurological Institute (MNI) Microscopy Core: The facilities will transition to more sustainable MFM operations, will save on staff hours for maintenance of mercury based light sources, and will reduce operating costs because there will be no need to purchase expensive mercury bulbs.

2. Departments of Biology and Physiology and the MNI: All invest considerably in the core facilities through staff salaries and overhead costs, and many faculty members pay to use the facilities for their research projects. Staff salaries will be used more efficiently (time will not be spent changigi5 1 Tf 2.1677 0 TDcyf .13M2 Tf -48.50bulbs).1 0 TD -.0013 Tc748per
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Lumencor Quote	Quote Date	Expiration Date	Sales Person
#110	11/14/2012	12/14/2012	Regan Baird

To: Claire Brown
McGill University Imaging Facility
Rm 137 Bellini Building
Montreal,Quebec
H3B 0B1
Canada

QUOTATION (all prices in USD)

Model	Part Number	Unit Price	Discount	Quantity	Product Total
SOLA SM	90-10050	4,995.00	15%	11	46,703.25
3mm LLG to Scope Collimator	82-10049	775.00	15%	11	7,246.25
Zeiss Mounting Ring	01-10395	150.00	15%	11	1,402.50
				Subtotal:	65,120.00
				Discount	-9,768.00

Life Sciences Complex
Imaging Facility

November 30, 2012

Dear Sustainability Committee,

I am writing to confirm that the McGill University Life Sciences Complex Imaging Facility will contribute $11,744 towards the replacement of ten of our mercury based light sources.

Some of this funding will also go towards educational initiatives in sustainability and discussing the Mercury Free Microscopy program at McGill and within the context of the many workshops, training sessions, courses and symposia the facility is involved with.

It is my hope this funding will help bring this important sustainability project to fruition.

Sincerely,

[redacted]

Claire M. Brown, PhD
Assistant Professor
Department of Physiology
McGill Imaging Facility Director

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