ProjectTitle: Mercury FreeMicroscopy
BudgetRequested\$50,000
Applicant/ProjectLeader:ClaireBrown
Faculty/DepartmentAssistantProfessorDepartmentof Physiology

PHGY560 Light Microscopyfor the Life Sciencescourse, 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. Communicatewhy the project is being undertaken: The three facilities combined serve about 400 users from 80 to 100 laboratories across McGilland Montreal. The Imaging Facility alone has run more than 50 workshops and course 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 Å 2 14#DlaóYVv anmercury to aóA0 D ceQob DÃDÃ2, D 60†0'LQøb† bas

students and staff and see the value in educating them about MFM. We will developed 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 esearchers o investing these replacements given that they quickly pay for themselves because expensive replacements with the series of the ser

9. Stakeholders:

- 1. <u>Life SciencesComplexImaging Facility, Cell Imaging and AnalysisNetwork (CIAN), Montreal NeurologicalInstitute (MNI) MicroscopyCore</u>: The facilities will transition to more sustainableMFM operations, will saveon staff hours for maintenanceof mercury based light sources and will reduce operating costs because there will be no need to purchase expensive mercury bulbs.
- 2. <u>Departmentsof Biologyand Physiologyand the MNI:</u> All investconsiderablyin the corefacilitiesthrough staff salaries and overheadcosts, and many faculty memberspay to use the facilities for their research projects. Staff salaries will be used more efficiently (time will not be spent changigis 1 Tf 2.1677 0 TDcyf .13M2 Tf -48.50 bulbs). 1 0 TD -.0013 Tc748 per will

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

QUOTATION (all prices in USD)

Model	Part Number	Unit PricDe	ei s c o u r	ntQuantity	Product Total
SOLA SM	90-10050	4,995.00	15%	1 1	46,703.25
3mm LLG to Scope Collimator	82-10049	775.00	15%	11	7,246.25
Zeiss Mountin Ring	⁹ 0 1 - 1 0 3 9 5	150.00	15%	1 1	1,402.50
				Subtotal: Discount	65,120.00 -9,768.00

Life Sciences Complex Imaging Facility

November 30, 2012

Dear Sustainability Committee,

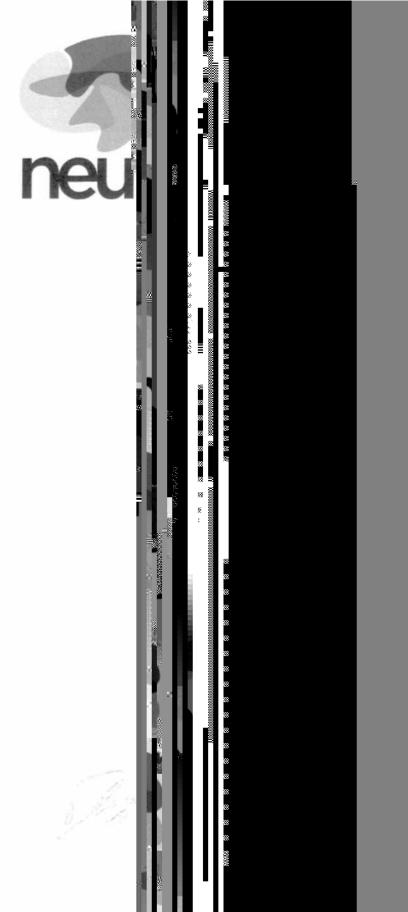
I am writing to confirm that the McGill University Life Sciences Complex Imaging Facility will contribute \$11,744 towards the replacement of our mercury based light sources.

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

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

Sincerely,

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



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