						cgill.ca Web: www.mcgill.ca/science/ours/
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SECTION A: SUP	ERVISOR INFORMATION					
Name:	Ursula Stochaj	Email:	<u>ursula</u>	stochaj@mcgill.c	<u>a</u>	
Phone:	514-398-2949	Website:				
Supervisor's		Course				
Unit: _[Physiology	Number.	PHGY	396		
SECTION B: PRO	JECT INFORMATION					
Term: _[Fall 2006 / Winter 2007			Project sta	rt Septerr s:	ber 11 - December 8, 2006
Project title:	Protein transport in stressed cells.					
Project description: i i i i i i i i i i i i i i i i i i i	Human health in Canada is primarily affected by heart disease or stroke, conditions which expose cells of the heart or brain to stress. This stress exposure causes damage and may ultimately lead to cell death. Prevention of and recovery from stress- induced injury require factors that repair damaged cells. Heat shock proteins, in particular hsc70s, are essential for these repair processes. In response to stress, hsc70s accumulate in nuclei to restore their function. Importantly, during stress recovery hsc70s transiently concentrate in nucleoli. At present, it is not understood how hsc70s are targeted to nucleoli. Specifically, the stress signalling pathways involved in hsc70 nucleolar accumulation have yet to be defined. The research project will address the molecular mechanisms that underlie hsc70 targeting to the nucleolar compartment. With these studies, we expect to gain a better understanding of hsc70 nuclear transport, reactions that are crucial to respond properly to physiological changes, such as stress.					
Prerequisites: Grading scheme:	1 term completed at McGill + CGPA ≥ 3.0; or permission of instructor. The final report will be worth 50% of final grade. 50% of the final grade will be based on the student's experimental work in the laboratory.					
Other:	Best way to reach me: e-mail (<u>ursula.stochaj@r</u>	ncgill.ca)				
Status: [[[[]	Mark with an x. This project is [] Open to applicants [] Already taken; no more positions available t term [X] Taken, but contact me for other possible pro this term	E s his tra ojects	Ethics, safety, and aining	Which of the foll [] Animal subje [] Human subje [X] Biohazardou [] Radioactive [X] Handling che [] Using lasers	owing, if any, i octs ects s substances materials emicals	is involved? Mark with an x.
_	For undergraduat	e students,	ethics	and safety comp	liance is the	supervisor's responsibility.
How students E can apply:	Bring this application form and your advising tra	inscript to m	e during	office hours. Con	tact superviso	r first by e-mail.
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SECTION C: STUD	ENT INFORMATION. (1) PRINT LEGIBLY	' AND SIGN	N. (2) S	DEE "HOW STU	DENTS CAN	APPLY" IN SECTION B.
Email:	@mail.mcgill.ca				Phone:	
Program.	10	a BSc Ma	ai Chem	Minor Biology)	Level:	110 / 111 / 112 / 113
I have not applied f	for another 396 course in this term. Student signature:	.g., D.Sc. Ma	aj. Onen	. Millor Biology)	Date:	00 / 01 / 02 / 03
SECTION D: APPI SCIENCE. (3) GIV	ROVALS. (1) PRINT NAMES & SIGN. (/E STUDENT CODE TO REGISTER FOR	(2) Notif Course	TY OFF	ICE FOR UND	ERGRADUA	TE RESEARCH IN
	Supervisor				Date:	
Unit Chair, Director				Dale.		
that this project c	onforms to departmental rements for 396 courses.				Date:	