

Research progress reporting for Doctoral thesis students at McGill is mandatory. This report must be completed in full at least annually at face-to-face meetings between thesis students, their supervisors, and supervisory committee member(s). This report may also be supplemented with unit-specific details or documents (see page 2). Units can also use this report for Master's students in non-thesis research programs if this is a Unit-wide practice.

In cases where the student has missed an established progress report deadline and has not responded to the Unit within 4 weeks after being contacted by the Unit, the report may be completed in the student's absence, and progress may be judged unsatisfactory.

The student, supervisor(s), and academic unit must retain copies of this form. It must also be made available to members of the supervisory committee and university administrators authorized to view student records upon request.

External award holders must use this form for annual progress reports, including the box on page 3. Submit a copy to GPS Graduate Funding.

Please contact a GPS Associate Dean regarding any questions about progress reporting.

Vicki Leung

STUDENT'S NAME		STUDENT'S ID
PhD 8	Human Genetics	
DEGREE AND YEAR		DEPARTMENT
Dr. Philippe Gros		
SUPERVISOR'S NAME		
N/A		
CO-SUPERVISOR'S NAME (IF APPLICABLE)		

Check all that apply: This form is a(n)

- first report to set objectives for first-year students
- regular report done every 12 month(s)
- external award holder report
- interim report after an unsatisfactory report
- comprehensive exam report

For a first report, students complete the Objectives box only. For subsequent reports, students complete all boxes on this page.

OBJECTIVES and timelines jointly agreed upon by student and supervisor(s) for next meeting in _____ month(s) (e.g., courses, ethics approval, required training, chapter, data collection, initial thesis submission)

- Characterization of the Curlybob (I268N) mutant allele [Winter 2017]
- Genetic Interaction of Sdc4 and Vangl2 [Summer 2017]
- Genetic Interaction of Fzd3 and Vangl2 [Summer 2017]
- Doctoral thesis [Fall 2017]

See attached for greater detail.

OBJECTIVES SET at a previous meeting should be in hand to review at the present meeting.

PROGRESS toward stated objectives, other accomplishments, and/or student's notes on progress (e.g., conference presentation, award, submitted article, rationale for priorities). To ensure that students have a voice in this report, and to support or counterbalance the evaluation on p. 2, only the student may report on progress in this box.

See attached.

I have completed: Coursework Yes No N/A

Lab safety training Yes No N/A

Ethical approval Yes No N/A

STUDENT'S SIGNATURE *V. Leung*

DATE April 2015

SUGGESTIONS (if applicable) for meeting the objectives above (e.g., reading, drafting, training, talking with another expert)

OBJECTIVES

- Characterization of the Curlybob (I268N) mutant allele** [Winter 2017]
 - CHX experiments to be replicated (calculate statistical significance and standard deviation).
 - Replicate IF experiments as duplicate controls; include Z-stack analysis.
 - Examine additional embryos for retinal axon phenotype.
- Genetic Interaction of Sdc4 and Vangl2** [Summer 2017]
 - Validate and further analyze both phenotypes (retinal axon guidance defect and anophthalmia).
 - Collect earlier time points to analyze the expression of eye specification and differentiation markers.
 - Spatial and temporal expression of Sdc4 throughout retinal development including the identification of Sdc4-positive retinal cell types.
 - Co-immunoprecipitation studies.
- Genetic Interaction of Fzd3 and Vangl2** [Summer 2017]
 - Explore the phenotypic consequence of the *Vangl2^{Lp/+}* x *Fzd3^{+/-}* cross.
 - Finalize the validation of the Fzd3 antibody provided by Dr. Nathans.
- Doctoral Thesis** [Fall 2017]

PROGRESS

- **Characterization of hVANGL1 I272N mutation**
 - Generated stable clones expressing WT and I272N Myc-hVANGL1-GFP in MDCK cells.
 - Determined the relative protein stability using cyclohexamide.
 - Examined protein sub-cellular localization.
- **Sub-cellular localization of Vangl2, Fzd3, and Pk1**

Retinal Cryosections

 - Validated Fzd3 and Pk1 antibodies in transfected HEK293T cells.
 - Validated Fzd3 antibodies on mutant embryos; antibodies show a lot of non-specific binding.
 - Examined expression of Fzd3 and Pk1 in retinal cryosections.

RGC axon Growth Cones [On hold, Lp mice put towards genetic interaction studies.]
- **Genetic interactions with Vangl2 in the context of retinal axon guidance**

Dcc;Lp

 - No genetic interaction seen with *Dcc*^{+/-} x *Vangl2*^{Lp/+} or *Dcc*^{+/-}; *Vangl2*^{Lp/+} crosses.
 - No difference in outgrowth response in *Vangl2*^{Lp/Lp} in response to Netrin-1.

Sdc4;Lp

 - No genetic interaction seen with *Sdc4*^{+/-} x *Vangl2*^{Lp/+} crosses.
 - Genetic interaction seen in *Sdc4*^{+/-}; *Vangl2*^{Lp/+} and *Sdc4*^{+/-}; *Vangl2*^{Lp/Lp}; the former display anophthalmia and the latter displays a retinal axon guidance phenotype.

Fzd3;Lp

 - Embryos collected from *Fzd3*^{+/-} x *Vangl2*^{Lp/+} crosses.
- **Effect of RGC-specific Vangl2 inactivation in the adult retina**

Math5-Cre;Vangl2^{Lp/FI} [Ended]

 - No major observable phenotype with respect to optic nerve hypoplasia or retinal axon guidance defects.
- **Response to guidance cues [On hold]**
 - Explore the role of Wnt5a as a retinal axon guidance cue.

OTHER

- **Publications**

Ccdc88b is required for pathogenesis of inflammatory bowel disease.
Fodil N, Moradin N, Leung V, Olivier JF, Radovanovic I, McFarquhar A, Cayrol R, Bozec D, Kubo M, Dimitrieva J, Louis E, Theatre E, Dahan S, Momozawa Y, Georges M, Yeretssian G, and Gros P. Nature Communications (In Review)
- **Conference Poster Presentations**
 - Axons: From Cell Biology to Pathology, Keystone Symposia (January 2016)
 - 5th Annual Canadian Human and Statistical Genetics Meeting (April 2016)
 - Human Genetics Research Day (May 2016)
 - Society for Developmental Biology 75th Annual Meeting (August 2016)

EVALUATION of progress toward objectives (to be completed by supervisor)					
	Research plan	Research skills	Requisite knowledge*	Research accomplishments	Overall
Satisfactory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Unsatisfactory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> †
Not applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*Requisite knowledge is often developed through coursework, which may be commented on in the box below. However, unsatisfactory progress in coursework alone cannot lead to an unsatisfactory progress report because a separate Failure Policy governs coursework. Please see the Failure Policy in Graduate Studies on the University Regulations and Resources website, starting at www.mcgill.ca/study.

†A first overall unsatisfactory report must lead to a follow-up progress tracking meeting, not sooner than 4 months after the first report and not later than 6 months after the first report. DEADLINE FOR FOLLOW-UP REPORT: _____

Failure to meet overall objectives on two Reports (not necessarily successive) constitutes unsatisfactory progress towards the degree and, if recommended by the academic unit, the student will be withdrawn from the University.

EXPLANATION of the evaluation, and comments on related areas, such as coursework, lab work, etc., as appropriate.

- Excellent Progress
- Excellent Presentation
- Committee supports a focus on 16 Syn4 / Vaugle interaction while finishing up characterization of new Lp allele.
- Committee in principle agreed with time frame proposed.
- Committee recommends:
 - a) a better knowledge of genetic heritability of disease alleles such as Lp
 - b) a more systematic presentation of data with
 - ▷ background
 - ▷ hypothesis
 - ▷ Results
 - ▷ Conclusion.

SUPPLEMENTARY DETAILS (Optional)

Use this box to include additional details according to the norms of the student's academic unit (e.g., funding status; other supervisory committee meetings).

External Award Holders must complete this box and email a copy of the entire progress report to GPS Fellowships, copying their supervisor to the email.

Tri-Council Agency: NSERC SSHRC CIHR Start date of award: May 1 Sept 1 Jan 1

A) Award holders who are registered full-time must limit the number of hours of employment to 450 hours over a 12-month award period.




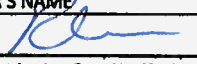
I did not work any additional hours to my full-time research.

I worked _____ hours during my award year. Nature of paid work: _____

B) Award holders are responsible for reporting any changes in program when they occur because it may affect ongoing eligibility (i.e., leaves of absence, change in supervisor or research, change in registration, etc.).

There were no changes to my student status in the past year

There were changes to my student status in the past year: _____

SIGNATURES (PLEASE PRINT NAMES):	<i>I agree with the statements and evaluation in this Report.</i>	<i>Has a conflict of interest arisen in respect of any of the parties signing? ** (See examples)</i>	November 14th 2016 DATE
* Mandatory. Must be present to sign together.			
Vicki Leung * STUDENT'S NAME	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	 STUDENT'S SIGNATURE
Dr. Philippe Gros * SUPERVISOR'S NAME	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	 SUPERVISOR'S NAME
N/A * CO-SUPERVISOR'S NAME (if applicable)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	CO-SUPERVISOR'S SIGNATURE (if applicable)
Dr. Eric Shoubridge * COMMITTEE MEMBER'S NAME	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	 COMMITTEE MEMBER'S SIGNATURE
Dr. Rod McInnes OTHER MEMBER'S NAME (Role: Committee Member)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	 OTHER MEMBER'S SIGNATURE
OTHER MEMBER'S NAME (Role: Committee Member)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	OTHER MEMBER'S SIGNATURE
OTHER MEMBER'S NAME (Role: Committee Member)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	OTHER MEMBER'S SIGNATURE

Anyone listed above who does not agree with the statements and evaluation in this Report must attach an explanation.

If any document has been attached to this report, please check here:

In case of disagreement, the student or supervisor should consult the Unit's Graduate Program Director or a GPS Associate Dean.

GPD approval is required on all Progress Tracking Reports; attendance at meeting is not. If the GPD is the supervisor, the Chair must sign here.

GPD (Chair) Name: _____ Signature: _____

Regulation on Conflict of Interest - **If anyone checks YES, the form must be submitted to the Dean of GPS with an explanation. If there is any doubt, contact the appropriate GPS Associate Dean.

"Conflicts of interest may take various forms and may arise in various contexts. A potential conflict of interest will exist whenever a member of the University community is in a position to influence the conduct of research, academic, human resource, business, financial, governance or other matters in ways that could lead to personal gain for the member or a related party, or give improper advantage to others, to the detriment of the University or other members of the University community."

"The Regulation recognizes that the existence of a potential conflict situation does not necessarily connote misconduct or preclude the involvement of a member in the situation in which the conflict has arisen – provided the conflict is recognized, disclosed, assessed and addressed. However, it must be recognized that not all conflicts of interest, even if disclosed in a timely manner, will be permitted."