



Arizona's First University.

Department of Immunobiology 2009-2010

GRADUATE STUDENT HANDBOOK: Doctor of Philosophy in Immunobiology

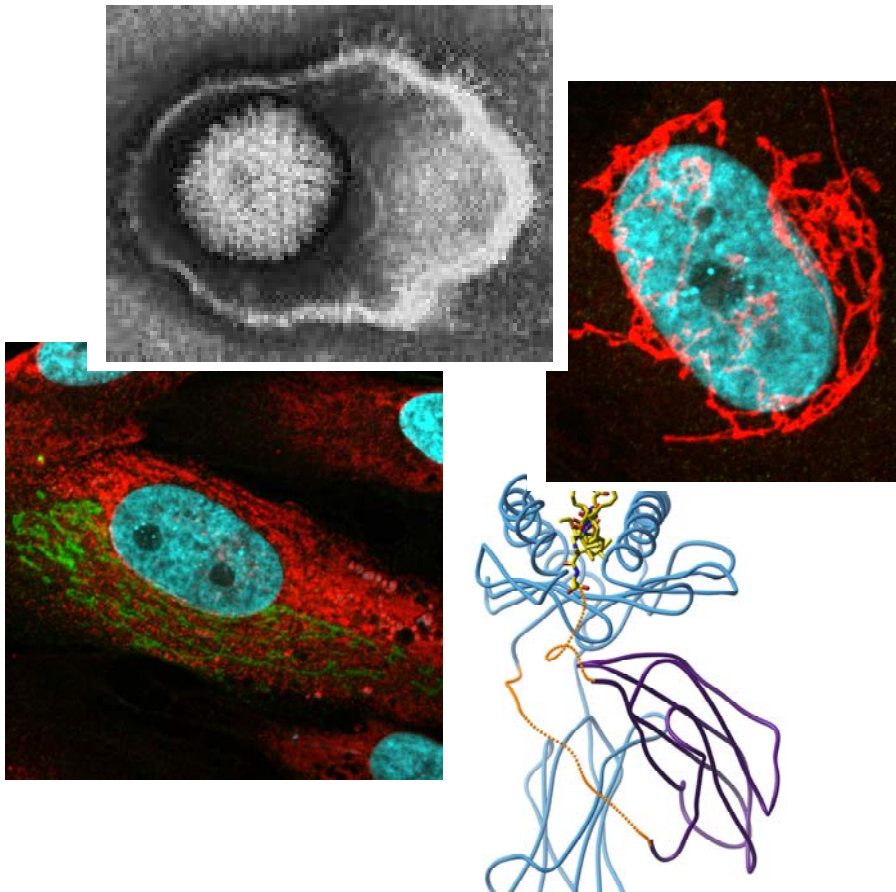


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INTRODUCTION

Welcome to the Graduate Program in Immunobiology (GPIMB) at the University of Arizona. We, as we hope you do, look forward to your studies and research as you embark on this challenging journey. Your graduate studies should provide intellectual adventure, an exploration of new ideas, and a journey of discovery from beginning to end. Your education will be what you make it. The faculty members of the Department of Immunobiology look forward to the opportunity to guide and facilitate your education.

The Doctor of Philosophy degree requires outstanding scholarship and distinguished research that contributes significantly to the fields of immunology and molecular pathogenesis. The student is expected to design and conduct original research with the guidance of their graduate mentor and dissertation committee. Ultimately your scholarship will culminate in writing and defending a dissertation based on your research.

This handbook summarizes the requirements of the GPIMB and the Graduate College of the University of Arizona for obtaining a PhD degree. These requirements are applicable to all students enrolled as of Fall 2007 seeking a PhD degree in Immunobiology. These requirements meet and exceed those of the Graduate College of the University of Arizona. Graduate students are responsible for knowing and fulfilling graduate requirements of both the Graduate College and the academic department. This document is designed to address the needs of most students in the GPIMB. Due to diverse backgrounds, some plans of study may require individual tailoring. Those students should discuss their situation with the Graduate Student Advisor, the GPIMB Director, or their Graduate Advisor.

CONTACTS/RESOURCES

Title	Name	Office	Phone	email
GPIMB Director	Janko Nikolich-Zugich	MRB 240	626-6065	nikolich@email.arizona.edu
Assistant Director of Graduate Program	Richard J. Ablin	COM 6107	626-7755	ablinrj@email.arizona.edu
Graduate Student Advisor	Felicia Goodrum	BIO5 425	626-7468	fgoodrum@email.arizona.edu
Department Chair	Janko Nikolich-Zugich	MRB 222	626-6065	nikolich@email.arizona.edu
Graduate Program Coordinator	Michelle Blurton	MRB 240	626-6409	mblurton@email.arizona.edu
Education and Curriculum Committee	Nafees Ahmad (Chair)	COM 6106	626-7022	nafees@email.arizona.edu
	Felicia Goodrum	BIO5 425	626-7468	fgoodrum@email.arizona.edu
	David Harris	MRB 221	626-5127	davidh@u.arizona.edu
	Maggie So	BIO5 245	626-3097	somaggie@email.arizona.edu

Department of Immunobiology Website:

<http://immunobiology.arizona.edu>

University of Arizona Graduate College Website:

<http://grad.arizona.edu/>

Current Semester Schedule:

<http://garnet.ccit.arizona.edu/cgi-bin/schedule/schedule.cgi>

DEGREE REQUIREMENTS

The Doctorate of Philosophy degree is earned through a rigorous set of standards for excellence in research, academic performance, and original contribution to a chosen scientific field. While the degree will inevitably reflect a set of qualifications unique to each student, general requirements are set forth below.

A. Credit Requirements

Students seeking a PhD degree will successfully complete the following course work credit requirements with a grade of 3.0 or better. The course work required for the PhD degree is a total of 68 credits. (see 'COURSEWORK' for details)

- 14 credits of CORE (required) courses
- 6 credits of ELECTIVE courses
- 22 credits of RESEARCH (900)
- 8 credits of SEMINAR (all credits graded)
- 18 credits of DISSERTATION (920)

B. Major and Minor Fields of Study

Students will major in Immunobiology and are encouraged to minor in Immunobiology. Students also have the option to minor in a different Life Sciences Graduate Program or Department. The requirement for doing minor in a different program or department is 9 credit hours of a letter graded course work.

C. Comprehensive Examination and Advancement to Candidacy

Students seeking a PhD degree must successfully complete the Comprehensive Examination by the end of their fourth/beginning of fifth semester (Fall of third year). Extensions on the date for completion of the Comprehensive examination must be approved by the GPIMB Director. The Comprehensive Examination consists of two parts. The first is a written research proposal in NIH format (see 'COMPREHENSIVE EXAMINATION' for details). The second part is an oral examination by the student's Dissertation Committee. The student must file the Advancement to Candidacy Form after successful completion of the Comprehensive Examination.

D. Publications

Students seeking a PhD degree will publish at least two first author papers (at least one published and one submitted at the time of thesis defense) in peer-reviewed journals. These papers are expected to be of high quality (i.e., minimum cumulative impact factor of 6) representing a novel and significant contribution towards the student's field of study. It is recommended that the student's published work be thematically consistent. Reviews do not count towards the two-paper requirement. Technical papers will be considered on a case-by-case basis. The student's Dissertation Committee and the GPIMB Director must approve any exceptions to the publication requirement. Papers published prior to enrollment in the Graduate Program cannot count toward fulfilling this requirement. The requirements for

publication are to be interpreted in the context of the overall work, progress, and contribution of the student.

E. Dissertation Committee and Dissertation

Student Dissertation Committee selection is detailed in the DISSERTATION COMMITTEE section and consist of 5 faculty members, at least 4 of which are tenure-eligible and at least 1 of which is a member of the Department of Immunobiology Executive Committee. Students seeking a PhD degree will successfully write and defend a dissertation representing original research before their Dissertation Committee. See “DISSERTATION and FINAL DEFENSE for details and guidelines for submitting the dissertation.

F. Journal Club Participation

Students are expected to participate in at least one journal club/work in progress each semester (Fall and Spring). Journal Clubs are designed to give students exposure to pertinent literature in their chosen field and to educate them in the critical evaluation of the work presented in journal articles. Journal Clubs should augment your education in the laboratory. Students will choose pertinent journal clubs with the help of their Graduate Advisor (or the Graduate Student Advisor in the case of first year students). Active participation in journal clubs will be overseen by the Graduate Student Advisor and the student’s chosen Graduate Advisor.

G. Meeting Presentations

Students will participate in a minimum of four meeting presentations. Ideally, these would be represented by a combination of national/international meetings, regional and local meetings. Both poster presentations or oral presentations are acceptable. Immunobiology seminar series participation does not count towards fulfilling this requirement.

H. Graduate College Doctoral Degree Requirements

The Degree Requirements specified by the GPIMB agree with or exceed those specified by the Graduate College. To earn a doctoral degree in Immunobiology, the student must meet the requirements of the Department. The Graduate College Doctoral Program requirements can be reviewed at the following site <http://grad.arizona.edu/Catalog/>. The terms ‘units’ and ‘credits’ are synonymous.

I. Code of Academic Integrity

Integrity and professionalism are critical parts of graduate education and continuing scientific pursuits. Students are ultimately responsible for their ethical conduct. Student activities in fulfilling degree requirements including, but not limited to, research, coursework, exams, dissertation, and attendance/participation at seminars and journal clubs is subject to the Code of Academic Integrity as stated below. As it pertains to research, students must conduct their experiments in an ethical manner and any fabrication or theft of data will not be tolerated. Students will keep laboratory records and data in a format acceptable to their Graduate Advisor and be prepared to turn over their records to the Graduate Program at any time.

Code of Academic Integrity

Integrity is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own. Students engaging in academic dishonesty diminish their education and bring discredit to the academic community. Students shall not violate the Code of Academic Integrity and shall avoid situations likely to compromise academic integrity. Students shall observe the provisions of the Code whether or not faculty members establish special rules of academic integrity for particular classes. Failure of faculty to prevent cheating does not excuse students from compliance with the Code. Any attempt to commit an act prohibited by these rules will be subject to sanctions to the same extent as completed acts. The procedures for reviewing a suspected violation are found in the complete Code of Academic Integrity available in the Dean of Students Office or <http://catalog.arizona.edu/policies/974/acacode.htm>.

MENTORING

A successful graduate education for the fulfillment of the Doctorate of Philosophy is dependent on the resourcefulness, initiative, and effort of the student as well as mentoring on multiple levels. While the student's primary and secondary mentors will be their Graduate Advisor and their Dissertation Committee, respectively, several other mentoring mechanisms have been incorporated to ensure the quality of the graduate education. These are detailed below.

A. Peer mentor

Each incoming first year student will be paired with a senior (3rd/4th year) student who will serve as an informal mentor to assist new students in navigating through life in GPIMB and the University of Arizona.

B. Executive Committee

The Executive committee will serve the student in 3 capacities

1. One member of the Executive Committee will serve on each student committee as one of the five members.
2. Annual meetings with each student following the successful completion of Comprehensive Exam to assess progress and fulfillment of graduation requirements
3. Approval of Graduation based on Justification of Graduation. The committee will assist in devising any plan necessary for the student to fulfill any deficiencies.

COURSEWORK

The GPIMB requires 50 course credits for the Doctorate of Philosophy degree. All GPIMB students will take a core of 14 required units of departmental courses (Core + Elective courses). Students will choose 2 of 5 qualifying elective courses for an additional 6 credits. In addition, student will take 8 credits of Seminar, 22 credits of Research, and 18 credits of Dissertation. With the approval of the graduate mentor, students may take additional courses for credit.

However, these course credits do not apply towards fulfilling the 50 credit requirement for graduation. Some courses offered that are pertinent to GPIMB students are listed on the Table of Immunobiology Courses as “Other Courses.” *Students must maintain a GPA of 3.0 or higher for each semester to remain in good standing with the graduate program.*

Students with a GPA of less than 3.0 will be placed on academic probation for a period of one semester. At the completion of the probationary semester, the student’s cumulative GPA must be a minimum of a 3.0.

CORE courses: These are courses required for the PhD degree in Immunobiology. Fourteen credits of core courses will be completed with a grade of C or better.

ELECTIVE courses: Two of the five courses offered as electives will be selected by the student in consultation with their mentor. The selection should be tailored to the research interests of the student. Students will complete 2 elective courses (or 6 credits) with a grade of C or better.

MINOR courses: Students are strongly encouraged to minor in the GPIMB. The GPIMB minor is satisfied within the 50 credits required by the department. Students may seek a minor in other departments *with the approval of their graduate mentor and the Director GPIMB*. Coursework requirements for a minor in another department must be approved by the minor department. Graduate college requires 9 credit hours of letter-graded courses for a minor requirement. Courses taken towards a minor other than GPIMB may not apply towards fulfilling the credit requirement for graduation.

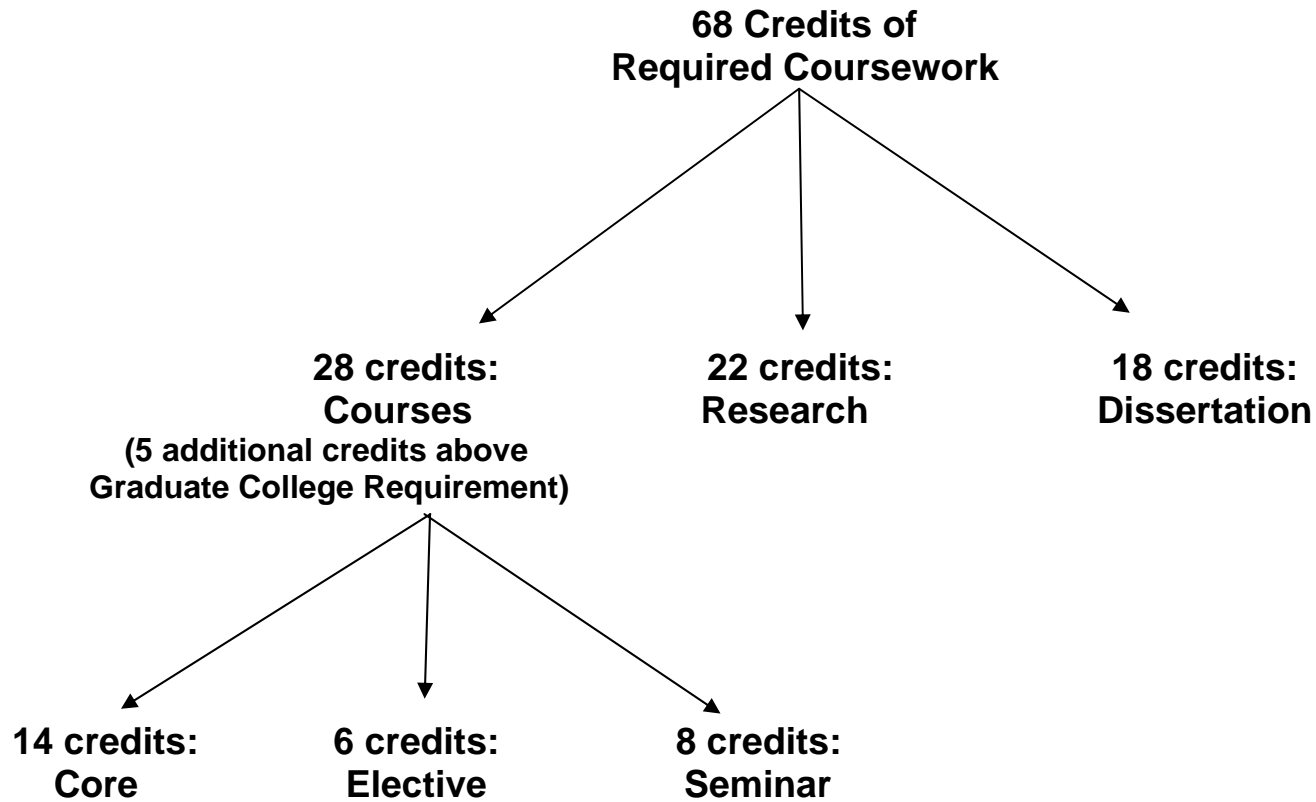
RESEARCH (IMB 900) or DISSERTATION (IMB 920): Students will register for 1-6 credits of Research each semester of until they only register for Dissertation. This will constitute a total of at minimum of 22 credits of Research. Dissertation only students will register for 9 credits of Dissertation only for two consecutive semesters (18 credits total). There is a minimum requirement of 30 credits of research and/or dissertation.

SEMINAR: Students will register for 1 credit of seminar each semester (Fall and Spring) and present a seminar every year. First thru third year students will register for IMB 696B and give a 30 minute seminar each year. Students in their fourth year and above will register for IMB 696A and give a one-hour seminar each year. There is a minimum requirement of 8 graded credits of seminar for graduation and each of these credits must be from IMB 696A/IMB 696B (letter graded seminar).

Immunobiology Courses

CORE Courses		Immunology Track Courses	14 credits total	
Course #	Course Director	Course Title	Credits	Offering
IMB 561	D. Harris	Immunobiology	3	Every 2 years, Fall/Spring
IMB 580	N. Ahmad F. Goodrum	Molecular Virology	3	Every 2 years Fall
IMB 565	M. So	Molecular Mechanisms of Microbe-Host Interactions	3	Every 2 years, Fall
IMB 564	J. Nikolich-Zugich	Advanced Topics: Function, Regulation and Dysregulation of the Immune System	3	Every 2 years, Spring
MCB 695E <i>or</i> PHCL595B	P. Antin W. Stamer	Science, Society, and Ethics <u>OR</u> Scientific Writing Strategies, Skills and Ethics	1 2	Every year, Spring Every year, Fall
ELECTIVE Courses			6 credits total	
Course #	Course Director	Course Title	Credits	Offering
MCB 568	J. Hill, J. Little & R. Parker	Nucleic Acids	4	Fall
BIOC 516	D. Mount	Bioinformatics and Genome Analysis	3	Fall
CBA 577	H. Gordon	Principles of Cell Biology	3	Spring
BIOC 565	W. Montfort	Proteins and Enzymes	3	Fall
OTHER Course	Course Director	Course Title (do not count towards graduation credit requirements)	Credits	Offering
CBIO 551	E. Gerner	Molecular Mechanisms of Carcinogenesis	3	Every 2 years Spring
EPID576B	D. Roe	Biostatistics for Research	3	Spring
PLP 528R	S. Pearson	Microbial Genetics	3	Spring
IMB 501	N. Ahmad	Medical Microbiology and Immunology	4	Every 2 years, Fall
IMB 562	R. Ablin	Tumor Immunology	3	Every 2 years, Spring

SCHEMATIC of GRADUATE COURSE WORK



(23 of these 50 credits must be graded with a grade of B/3.0 or better)

Note: Coursework will be tailored for individual students in consultation with the First Year Advisory Committee (see Dissertation Committee section)

Course Section Numbers for Professors

Needed for research, independent study and dissertation

010	Ablin	Richard
011	Adam	Rodney
012	Ahmad	Nafees
053	Albani	Salvatore
014	Ampel	Neil
015	Bernstein	Harris
028	Boitano	Scott
029	Bommireddy	Ramireddy
056	Fane	Bentley
017	Friedman	Richard
018	Galgiani	John
027	Goodrum	Felicia
054	Gruessner	Rainer
020	Halonen	Marilyn
021	Harris	David
050	Hastings	Karen
022	Joens	Lynn
023	Katsanis	Emmanuel
051	Kiela	Pawel
057	Knox	Kenneth
052	Larmonier	Nicolas
025	Lybarger	Lonnie
016	Nikolich-Zugich	Janko
207	Riggs	Michael
026	Schluter	Samuel
040	So	Magdalene
208	Songer	Glenn
209	Sterling	Charles

RESEARCH ROTATIONS

Students are recommended to complete three rotations (at least two laboratory rotations are required) in their first year of study. Each rotation should be completed during approximately 10 weeks. Exact start and stop dates of rotations can be worked out between the mentor and student. All laboratories supporting rotation students must have funding. Graduate students enrolled and supported by a laboratory will reside in that laboratory without completing rotations. If necessary, students may complete a fourth rotation in the summer of their first year. Performance criteria to be used by the director of the laboratory in which a student is doing a rotation will include:

1. Assessment of the student's aptitude for research
2. Attitude, initiative, and motivation towards research
3. Contribution to the laboratory as a whole
4. Ability to find, read, and apply pertinent literature
5. Development of laboratory skills
6. A final written or oral report prepared by the student for each rotation

At the end of each rotation, the student must submit a [rotation evaluation form](#) to the Graduate Student Advisor and the Graduate Program Coordinator. Once the student selects a laboratory, they will be supported financially by that laboratory.

DISSERTATION COMMITTEE

In the first year of graduate work, students will be mentored by a First Year Advisory Committee consisting of the (1) the Director and (2) Assistant Director of the Graduate Education Program, (3) the Graduate Student Advisor, and (4) a member of the Executive Committee. This committee will assist individual students in tailoring their first year curriculum to their individual needs. Once students have chosen a thesis laboratory, the role of the First Year Advisory Committee will be assumed by the students Dissertation Committee and secondarily by the Executive Committee. By the end of the third semester of study (Fall of Second Year) the student is expected to have selected a laboratory for their dissertation research and formed a Dissertation Committee with guidance from their graduate mentor.

The Dissertation Committee will consist of 5 faculty members, 3 of which must be members of the GPIMB and 2 of which will be from the minor department or outside departments as approved by the graduate mentor. Of the three GPIMB members, at least one must hold a full appointment in the Department of Immunobiology AND at least one must be a member of the Executive Committee of the Department of Immunobiology. Four of the five committee members must be considered by the Graduate College to be tenure-track or the equivalent. One of the three GPIMB members will be the graduate mentor. One member of the committee (excluding the graduate mentor) will be elected as the chair of the committee by the committee. The Dissertation Committee Chair will be responsible for moderating meetings and polling the committee prior to the Comprehensive Examination and final Dissertation Defense. The Committee should represent a range of scientific areas that will benefit the student's chosen research. The purpose of the Dissertation Committee is to guide the

student's scientific research and progression toward completion of degree requirements. The Dissertation Committee will administer the Comprehensive Examination to be taken no later than the beginning of the fifth semester. All committee members must be present for the final defense.

The Graduate College's requirements for the Dissertation Committee differ from the Department's requirements. The Department requires the Dissertation Committee members to oversee both the Comprehensive Examination and the Dissertation and Final Defense. In this respect the Department requirements supersede the Graduate College's requirements.

Dissertation Committee Meeting Requirements:

1. The student is responsible for scheduling one committee meeting every semester beginning with the third semester of study.
 - First committee meeting held in the third semester is to discuss possible research paths, review coursework and approve plan of study.
 - Second committee meeting will be held in the fourth semester to approve research proposal aims for written portion of Comprehensive Examination.
 - Third committee meeting will be for the Comprehensive Examination before the beginning of the fifth semester.
2. Committee meetings must be documented. Documentation consists of the student writing a brief report to summarize the meeting (i.e. results presented, committee response and advice, course of action) using the [Committee Meeting Form](#). This report must be signed by each member of the committee and filed in the student's file held by the Graduate Program Coordinator.

COMPREHENSIVE EXAMINATION

The Comprehensive Examination must be successfully completed by the end of the fourth/beginning of the fifth semester. The Comprehensive Examination consists of two parts: 1) a written examination and 2) an oral examination.

Written Examination:

The student will independently write a research proposal using the NIH grant format. The student may consult with the graduate mentor, other faculty, and students during the development of the research plan. However, the research proposal is intended to reflect the independent thoughts and work of the student. The graduate mentor will restrict input to general recommendations and will not design or propose specific experiments or controls. The work proposed should represent work to be completed within 3 years. The proposal should be typed single-spaced in Helvetica or Arial font 11pt and should contain the following:

- Abstract (250 word limit)
- Specific Aims (1 page limit)
- Background and Significance (4 page limit)
- Preliminary Data (2 page limit)
- Research Methods and Design (15 page limit)
- Literature Cited

The student will submit their written proposal to each committee members three weeks prior to the scheduled Comprehensive Examination. One week before the scheduled Comprehensive Examination, the Chair of the student's Dissertation Committee will poll the other committee members to deem that the proposal is of sufficient quality to be defended. All of the committee members must approve the proposal for defense. If the proposal is not approved, the student must revise the proposal incorporating feedback from the committee members and reschedule a date for the defense.

Oral Examination:

The oral examination is designed to address both the student's written proposal and general breadth of knowledge. The oral portion of the Comprehensive Examination is expected to last at least 2 hours and no more than 3 hours. The student will begin the examination with a 5-10 minute presentation of their research aims and pertinent background. During the Examination, no more than 60 minutes is to be dedicated to the written proposal. Questions regarding the written proposal are intended to challenge the proposal and push the student to extend or elaborate on what has been written. The remaining portion of the oral defense will explore the boundaries of the student's knowledge with regard to immunology, molecular pathogenesis, and related fields. Criteria for judging student performance during the oral examination include their knowledge and their ability to apply that knowledge as well as their ability to express themselves verbally in a clear and logical manner.

Members of the Dissertation committee will vote to determine if the student has passed the Comprehensive Examination. Passing requires 4 of 5 votes to be affirmative. In the event of failure, the student may retake the oral examination within 8 weeks. Students who fail the second Comprehensive Exam will be dismissed from the program.

Following completion of the Comprehensive Examination, the student will submit the Advancement to Candidacy form to the Graduate Degree Certification Office of the Graduate College. This form must be submitted no less than 6 months prior to the final defense.

At the time you submit your application for Advancement to Candidacy your bursar account will be billed fees for candidacy, dissertation processing, microfilming. This is a one-time fee and you will not be billed again if you change your anticipated graduation date. Copyrighting is optional and carries an additional fee.

CHANGE OF DEGREE: From Doctoral to Master's Degree

The Master's degree is offered by the department to students who are unable to complete the doctoral program (for personal or academic reasons) but have completed their course work (Core, Electives and Minor) and successfully passed their Comprehensive Examination. The student must submit a change of degree form to the Department Chair. In addition to the required coursework, Master's students are required to complete at least 18 credits of research and 6 credits of Thesis only (910).

Students seeking a Master's Degree must write a thesis representing their research and defend the thesis.

DISSERTATION and FINAL DEFENSE

All PhD students must write a dissertation that meets the standards of scholarship and demonstrates the ability of the student to conduct original research contributing to the fields of immunology and molecular pathogenesis. The dissertation and all data figures will represent work of the student. Instructions relating to the format of the dissertation are included in the Manual for Theses and Dissertations, which can be obtained from the Graduate College web site:

http://grad.arizona.edu/system/files/etd_Diss_Manual.pdf

or

http://grad.arizona.edu/system/files/paper_Diss_Manual.pdf

When the Dissertation Committee has made the decision that student is ready to write and defend the Dissertation, a one-page summary of the students qualifications and accomplishments towards the Ph.D. degree must be submitted to each member of the Dissertation Committee, the Department Chair, and the Graduate Student Advisor for approval. While this must be done prior to submitting the dissertation, the student is urged to submit this as soon as possible. This measure is to ensure equity of standards across the Department.

The Dissertation must be submitted one month prior to the scheduled final defense. Three weeks prior to the scheduled defense, the Chair of the student's Dissertation committee will poll the committee to determine if the dissertation can be defended. Four of five committee members must vote affirmatively in favor before the final defense can be scheduled. If two or more committee members cast an dissenting vote, the student must revise and resubmit the dissertation. The oral defense will take place three weeks after approval of the dissertation. The student will defend the dissertation orally. The defense will focus on the dissertation but can also include general questioning related to the field of study. The time and place of the defense must be scheduled with the Graduate Degree Certification Office at least 7 working days in advance and announced publicly in *Lo Que Pasa*.

The Chair of the Dissertation Committee will preside over the defense. The student will begin the defense with a seminar and question/answer session that is open to the University community and public. The examination portion of the defense is restricted to the dissertation committee. The defense is expected to be at least two hours and not to exceed three hours. At the end of the examination, the committee will vote on the acceptability of the final defense. Four of five committee members must vote in favor of passing to confer the PhD degree. In the event a student does not pass the defense, the committee may request that the student revise the thesis and be re-examined within 12 weeks.

It is the responsibility of the student following the successful defense to submit the dissertation to the Library of the University of Arizona and to University Microfilms, Inc. The student is also required

to provide the Immunobiology Department with a printed/bound or electronic copy of the dissertation. Upon receipt and approval of the finalized dissertation, the Dean of the Graduate College will recommend conferral of the Doctoral degree by the Arizona Board of Regents.

MECHANISMS of FINANCIAL SUPPORT

Financial support in the form of a graduate research assistantship is available to all students admitted into the program. The Department will provide a stipend of \$21,000 for matriculating students during the students' first year. This support is to provide students with the opportunity to perform research rotations. In subsequent years, continued support is provided by the student's graduate advisor in the form of a research assistantship. Following successful completion of the qualifying exams, the student stipend will be raised to \$22,000 and may increase based on merit to a maximum of \$25,000. Raises following the increase to \$22,000 are at the discretion of the student's graduate advisor and dependent upon the availability of funding. Outstanding students are encouraged to apply for independent predoctoral fellowships from sources outside the University. Limited teaching assistantships are available to partially support students, if necessary, during their graduate studies. Graduate students hired as Research or Teaching Assistants, at half time or higher, will receive 100% remission of their base in-state tuition (aka: registration fees). Students who are not residents of the State of Arizona will also receive a waiver of their nonresident tuition fees. Graduate Assistants will also have individual health care coverage paid by The University of Arizona. Graduate Assistants will also be eligible for a 10% discount at all ASUA Bookstores. Please contact the Graduate Program Coordinator if you need further details.

See also Graduate College web site for more financial aid resources:

<http://grad.arizona.edu/financial-resources>

FORMS

Forms are available on line and most can be found at the Department website,

<http://immunobiology.arizona.edu>

Research Rotation Forms (to begin rotations)

<http://immunobiology.arizona.edu/files/RSF.pdf>

Research Rotation Evaluation Form (to complete a rotation)

<http://immunobiology.arizona.edu/files/REF.pdf>

Committee meeting documentation

<http://immunobiology.arizona.edu/files/CMF.pdf>

Graduate College Plan of Study

<http://grad.arizona.edu/forms>

Plan of Study (for Dissertation Committee approval)

<http://immunobiology.arizona.edu/pdfs/planphd.pdf>

Graduate Student Checklist

<http://immunobiology.arizona.edu/html/education/documents/phdlist.pdf>

Committee Appointment (formally Advancement to Candidacy)

<http://grad.arizona.edu/forms>

Change of Degree

<http://grad.arizona.edu/forms>

Change of program

<http://grad.arizona.edu/forms>

FACULTY CONTACT INFORMATION FOR THE IMMUNOBIOLOGY GRADUATE PROGRAM

Graduate Faculty	Department	Bldg and Rm	Telephone (Area Code 520)	Email Address
Ablin, Richard	Immunobiology	AHSC 6107	626-7755	ablinrj@email.arizona.edu
Adam, Rod	Medicine	AHSC 6109	626-6430	adamr@u.arizona.edu
Ahmad, Nafees	Immunobiology	AHSC 6106	626-7022	nafees@u.arizona.edu
Albani, Salvatore	Arthritis Center	AHSC 8303	626-8745	salbani@arthritis.arizona.edu
Ampel, Neil	Medicine	VAHSC	792-1450	nampel@email.arizona.edu
Bernstein, Harris	Cell Biology & Anatomy	LSN 458	626-6069	bernstein3@earthlink.net
Boitano, Scott	Physiology	AHSC 2341	626-2105	sboitano@email.arizona.edu
Bommireddy, Ramireddy	BIO5	MRB 323	626-6120	ramiredb@email.arizona.edu
Fane, Bentley	Plant Sciences	Keating 219	626-6634	bfane@u.arizona.edu
Friedman, Richard	Immunobiology	AHSC 6112A	626-7807	rfriedma@u.arizona.edu
Galgiani, John	Medicine	MRB 124	626-4968	spherule@u.arizona.edu
Goodrum, Felicia	Immunobiology	Keating 425	626-7468	fgoodrum@email.arizona.edu
Gruessner, Rainer	Surgery	AHSC 5408	626-4409	rgruessner@surgery.arizona.edu
Halonen, Marilyn	Pharmacology	AHSC 2342	626-6114	mhalonen@arc.arizona.edu
Harris, David	Immunobiology	MRB 221	626-5127	davidh@u.arizona.edu
Hastings, Karen	COM Basic Med Sciences	COM-Phx 326	(602) 827- 2106	khastins@u.arizona.edu
Joens, Lynn	Vet Sci & Micro	VSM 316	621-4687	joens@ag.arizona.edu
Katsanis, Emmanuel	Pediatrics	AHSC 5346	626-4850	katsanis@peds.arizona.edu
Kiela, Pawel	Pediatrics	AHSC 6338	626-7050	pkiela@peds.arizona.edu
Knox, Kenneth	Medicine	VAHSC	626-1848	Kenneth.knox2@va.gov
Larmonier, Nicolas	Pediatrics	AHSC 5352A	626-0012	nrlarmon@email.arizona.edu
Lybarger, Lonnie	Cell Biology & Anatomy	Keating 424H	626-1044	lybarger@email.arizona.edu
Nikolich-Zugich, Janko	Immunobiology	MRB 225	626-6065	nikolich@email.arizona.edu
Riggs, Michael	Vet Sci & Micro	VSM 306	621-8445	mriggs@u.arizona.edu
Schluter, Samuel	Immunobiology	MRB 220	626-7013	schluter@u.arizona.edu
So, Magdalene	Immunobiology	Keating 245	626-3097	somaggie@email.arizona.edu
Songer, Glenn	Vet Sci & Micro	VSM 218	621-2962	gsonger@email.arizona.edu
Sterling, Charles	Vet Sci & Micro	VSM 201	621-4466	csterlin@email.arizona.edu

NOTES: