

**Nikou, Roshan**

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**From:** Graduate.Council.Web.Site@www.uky.edu  
**Sent:** Wednesday, November 12, 2008 12:18 PM  
**To:** Nikou, Roshan  
**Cc:** Price, Cleo  
**Subject:** Investigator Report

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Client Address: 128.163.192.151

College/Department/Unit: = RSC 701  
Category:\_ = New  
Date\_for\_Council\_Review: = Nov. 13, 2008  
Recommendation\_is:\_ = Approve  
Investigator: = Chris Schardl  
E-mail\_Address = [schardl@uky.edu](mailto:schardl@uky.edu)  
1\_\_Modifications: =  
2\_\_Considerations: =  
3\_\_Contacts: =  
4\_\_Additional\_Information: =

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APPLICATION FOR NEW COURSE

1. Submitted by the College of Health Sciences Date: April 1, 2008

Department/Division proposing course: Clinical Sciences/Clinical & Reproductive Sciences

2. Proposed designation and Bulletin description of this course:

a. Prefix and Number RSC 701

b. Title\* Advanced Reproductive Immunology

\*If title is longer than 24 characters, write a sensible title (24 characters or less) for use on transcripts:

Adv. Repro Immunology

c. Courses must be described by at least one of the categories below. Include the number of actual contact hours per week for each category, as applicable.

- ( ) CLINICAL ( ) COLLOQUIUM ( ) DISCUSSION ( ) LABORATORY (x) LECTURE  
 ( ) INDEPEND. STUDY ( ) PRACTICUM ( ) RECITATION ( ) RESEARCH ( ) RESIDENCY  
 ( ) SEMINAR ( ) STUDIO ( ) OTHER – Please explain: \_\_\_\_\_

d. Please choose a grading system:  Letter (A, B, C, etc.)  Pass/Fail

e. Number of credit hours: 3

f. Is this course repeatable? YES  NO  If YES, maximum number of credit hours: \_\_\_\_\_

g. Course description:

Immune mechanisms involved during pregnancy will be covered with a focus on the interactions between the placenta and the maternal immune system. The role of the immune system on defects during pregnancy will be discussed, including the role in pre-term labor, implantation, and preeclampsia. The response of the normal immune system on the developing fetus will be covered.

h. Prerequisite(s), if any:

Admission into the Ph.D. in Reproductive Sciences program or consent of instructor.

i. Will this course be offered through Distance Learning? YES  NO

If YES, please circle one of the methods below that reflects how the majority of the course content will be delivered:

- Internet/Web-based      Interactive video      Extended campus      Kentucky Educational Television (KET/teleweb)      Other

Please describe "Other": \_\_\_\_\_

3. Teaching method:  N/A or  Community-Based Experience  Service Learning Component  Both

4. To be cross-listed as: n/a \_\_\_\_\_  
 Prefix and Number      Signature of chair of cross-listing department

## APPLICATION FOR NEW COURSE

5. Requested effective date (term/year): Fall / 2009
6. Course to be offered (please check all that apply):  Fall  Spring  Summer
7. Will the course be offered every year?  YES  NO  
If NO, please explain: \_\_\_\_\_
8. Why is this course needed?  
Requirement for the curriculum in the proposed Ph.D. program in Reproductive Sciences.
- 
9. a. By whom will the course be taught? Oliver Oakley, Ph.D.
- b. Are facilities for teaching the course now available?  YES  NO  
If NO, what plans have been made for providing them?  
\_\_\_\_\_
10. What yearly enrollment may be reasonably anticipated?  
2-5
11. a. Will this course serve students primarily within the department?  Yes  No
- b. Will it be of interest to a significant number of students outside the department?  YES  NO  
If YES, please explain.  
Students in Ph.D. programs in science, including those enrolled in the IBS program, may elect to take this course.
- 
12. Will the course serve as a University Studies Program course<sup>†</sup>?  YES  NO  
If YES, under what Area? \_\_\_\_\_  
<sup>†</sup>AS OF SPRING 2007, THERE IS A MORATORIUM ON APPROVAL OF NEW COURSES FOR USP.
13. Check the category most applicable to this course:
- traditional – offered in corresponding departments at universities elsewhere
  - relatively new – now being widely established
  - not yet to be found in many (or any) other universities
14. Is this course applicable to the requirements for at least one degree or certificate at UK?  Yes  No
15. Is this course part of a proposed new program?  YES  NO  
If YES, please name: Ph.D. in Reproductive Sciences
16. Will adding this course change the degree requirements for ANY program on campus?  YES  NO  
If YES<sup>‡</sup>, list below the programs that will require this course:

## APPLICATION FOR NEW COURSE

<sup>‡</sup>In order to change the program(s), a program change form(s) must also be submitted.

17.  The major teaching objectives of the proposed course, syllabus and/or reference list to be used are attached.
18.  Check box if course is 400G or 500. If the course is 400G- or 500-level, you must include a syllabus showing differentiation for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See SR 3.1.4)

19. Within the department, who should be contacted for further information about the proposed new course?

323-1100 X

Name: Dr. Oliver Oakley Phone: 80849 Email: oroakl1@uky.edu

20. Signatures to report approvals:

<p><u>5-30-08</u> DATE of Approval by Department Faculty</p>	<p><u>Thomas Jeff</u> printed name</p>	<p>Reported by Department Chair</p>	<p><u>[Signature]</u> signature</p>
<p><u>6-09-08</u> DATE of Approval by College Faculty</p>	<p><u>Sharon Stewart</u> printed name</p>	<p>Reported by College Dean</p>	<p><u>[Signature]</u> signature</p>
<p>* DATE of Approval by Undergraduate Council</p>	<p><u>[Signature]</u> printed name</p>	<p>Reported by Undergraduate Council Chair</p>	<p><u>[Signature]</u> signature</p>
<p>* DATE of Approval by Graduate Council</p>	<p><u>Blaine Jackson</u> printed name</p>	<p>Reported by Graduate Council Chair</p>	<p><u>[Signature]</u> signature</p>
<p>* DATE of Approval by Health Care Colleges Council (HCCC)</p>	<p><u>Heidi Anderson</u> printed name</p>	<p>Reported by Health Care Colleges Council Chair</p>	<p><u>[Signature]</u> signature</p>
<p>* DATE of Approval by Senate Council</p>	<p>Reported by Office of the Senate Council</p>		
<p>* DATE of Approval by University Senate</p>	<p>Reported by Office of the Senate Council</p>		

\*If applicable, as provided by the University Senate Rules. (<http://www.uky.edu/USC/New/RulesandRegulationsMain.htm>)

**SYLLABUS**  
**RSC 701 Advanced Reproductive Immunology**

**Course title:** Advanced Reproductive Immunology ( 3 credit hours)

**Departmental/college code:** RSC

**Numerical designation and section number:** 701-001 \_\_\_\_\_

**Scheduled meeting day(s), time and place:** (1 x 2.5 h / week); TBA

**Time** Friday: 8:00-10:50 a.m.

**Place** CTW Room #403

**Instructor** Dr. Oliver R Oakley  
Assistant Professor  
Division of Clinical and Reproductive Laboratory Sciences

Office: Rm 126C Charles T. Wethington Building

Phone: 323-1100 x80849 (office)

Email: [oroak11@uky.edu](mailto:oroak11@uky.edu)

Hours: My office is always open!!! Due to the nature of the research carried out in our laboratories, we must limit traffic through the labs. We encourage you to seek our help if you need assistance, but please do so either after class or at my office.

**Text**

**Required:** *Immunology of Pregnancy; (2006)*  
*ISBN: 0387306129*

**Course Description**

Many of the immune mechanisms that are involved in the protection of the host from infectious agents are also in play during pregnancy, from the ability of the sperm to avoid immune attack in the reproductive tract, to the protection of the immuno-incompatible fetus in the uterus. Students will learn the importance of the immune system during pregnancy. Focus will be on the interactions between the placenta and the maternal immune system. The role of the immune system on defects during pregnancy will also be discussed, including the role in pre-term labor, implantation, and preeclampsia. The ability of the immune system to eliminate infectious agents is well understood, and this will serve as a background for discussing the implication of normal immune responses on a developing fetus.

**Course Objectives:**

Upon completion of this course, the student should be able to:

- Describe the processes involved in immune responses
- Explain the role of the innate and adaptive immune systems during pregnancy
- Describe the importance of cytokines, specifically the balance of Th1:Th2 and their roles in pregnancy
- Describe the importance of immune regulator molecules
- Explain the importance of and implications of bi-direction cell trafficking across the placenta
- Describe using specific examples the role of the immune system in abnormalities of pregnancy

**Prerequisites:** Admission into the Ph.D. program or consent of the instructor. **Blackboard for course**

There will be an online resource for this course in the form of a Blackboard site for the student access. Since the provision of online enhancements to courses is an evolving phenomenon, this syllabus will not include an exhaustive description of the Blackboard site. Students should already be familiar with the logging in procedures for Blackboard, and will follow the same procedures for this course. The address for the Blackboard main entry page is <http://ecourses.uky.edu/>. The Blackboard site will include a copy of this Syllabus, a course description, lecture handout materials, copies of lectures, and other materials to help to enhance learning in this course. As noted above, in some cases, you will be notified that handout materials are available on the Blackboard site, and you will be expected to download and print out your own handouts. *This policy will only apply when handout materials are available on the Blackboard site with 24hr or more advance notice (by email).*

### **Attendance Policy**

Although attendance will not be taken weekly, it is important that you attend regularly. The lecture material will build upon itself, therefore if you do miss a class be sure to ask a colleague for notes. Lecture overheads will not be available for you to copy, but some handouts will be available.

### **Exams and Exam Policy**

**Three Tests** will be given on the dates indicated on the syllabus. Each test will consist of multiple choice questions followed by short answer questions. The first test will cover all material up to that point. The second test will cover ALL material including the selected reading material given out by the instructor. (not including student presented papers). The term papers will be due in on the last scheduled class. Students will have a minimum of 4 weeks to complete the papers. The final exam will include ALL Lecture material and Articles covered by student paper presentations.

**Paper presentations** will be given by a single student at the end of each lecture. The schedule for student presentations is given in the "Schedule of Classes" (on the following page). The paper title for the following week will be given at the end of the lecture, ALL students are advised to print a copy of the paper and read it prior to the presentation. The content WILL be included in the final exam.

**Term Paper:** Each student will be required to submit a detailed paper on a topic of immunological relevance to the course. The student may use a similar topic as the one they will present in class or choose another. I expect the paper to be a concise account of current immunological knowledge on the subject area (i.e. covered in several papers) students may give an account of several papers with similar conclusions or may give an account of papers with conflicting evidence.

**Writing Skills:** Helping promote scholarship is more than simply teaching the subject matter -- all students need to improve and refine their skills in verbal and written expression. Regardless of discipline, faculty have the right -and the obligation- to expect students to use English properly in all aspects of the course (S.R.5.2.4.3). Instructors may ask students to rewrite papers, make writing style one of the grading criteria, and report a seriously deficient student to his/her college for remedial work.

You will be held responsible for all information presented in all media (i.e., handouts, selected texts, slides, etc.). You are also responsible for all information conveyed in lectures and assigned readings. A make up exam may be taken with a valid doctor's excuse.

### **Homework**

Homework will consist of reading selected texts given out by the instructor in class. Written assignments must be submitted on the due date. Late submissions will be penalized 2% for every day late.

### **Grading**

Test I	20%
Test II	20%
Assignment (term paper)	30%
Final Exam	20%
Class Participation / Paper	10%

### **Final Grades**

90% - 100%	=	A
80% - 89%	=	B
70% - 79%	=	C
Less than 70%	=	E

### **Make-up Exams**

Make-up examinations will only be administrated in cases of excused absences. Oral or written examinations may be required for examinations missed secondary to an excused absence. The course coordinator will follow standard university policies regarding excused absence, and cheating. These policies are contained in the *Student Rights and Responsibilities Handbook*.

### **Excused absences**

Acceptable reasons for excused absences are listed in *Student's rights and Responsibilities, Section 5.2.4.2*. Briefly, these include serous illness, illness or death of someone in the student's immediate family, University sponsored

trips, major religious holidays, and other circumstances the instructor finds reasonable. NOTE: If you intend to be absent to observe a major religious holiday, you must notify Dr. Stewart *in writing* by Jan 29.

When there is an excused absence, you will be given the opportunity to make up missed work and/ or exams. It is the student's responsibility to inform the instructor of the absence, preferably in advance, but no later than one week after the absence.

Senate Rule 5.2.4.2 states that faculty have the right to request "appropriate verification" when students claim an excused absence because of illness or death in the immediate family. The University Health Services (UHS) will no longer give excuses for absences from class due to illness or injury. UHS forms can be date stamped to show that students went to the trouble of going to University Health Service, but it does not mean that students actually saw a physician or a nurse. If the faculty member wants further verification that a student kept an appointment with University Health Services (especially when there have been multiple or prolonged absences from class), the student will need to sign a release of information form (available from UHS) that will give permission for the staff to talk with the faculty member.

### ***Academic Integrity***

Part 11 of *Student Rights and Responsibilities* (available online at <http://www.uky.edu/StudentAffairs/Code/part2.html>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about a question of plagiarism involving their work, they are obliged to consult their instructors on the matter before submission. When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgment of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work, whether it be published article, chapter of a book, a paper from a friend or some file, or whatever. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be. Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone. When a student's assignment involves research in outside sources or information, the student must carefully acknowledge exactly what, where and how he/she has employed them. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas which are so generally and freely circulated as to be a part of the public domain. (Section 6.3.1). The minimum penalty for an academic offense, such as cheating or plagiarism, is an E in the course (Section 6.4.1).

### ***Plagiarism***

To plagiarize means to take the words or ideas of another and to present them as your own without appropriate attribution to the author. It is, in short, a form of theft. Sometimes plagiarism is a deliberate act; more often, however, it is accidental and the result of careless research or note taking. If you utilize the words or ideas of another (and you should not hesitate to do so), be conscientious and responsible and acknowledge the source of your information within the text of your paper and in the paper's bibliography. If you are unsure about citing another as the source of an idea, it's better to err on the side of conservatism and acknowledge the source or sources for the ideas you are using. Direct quotations should always be enclosed in quote marks and properly accredited. If a student is found to have violated the academic integrity policy of this class, the minimum penalty for these academic offenses is an "E" in the course, with suspension and dismissal also possibilities. They may also face disciplinary action by the University. Please read the attached handout carefully, there will be NO excuses.

### ***Classroom Etiquette***

The lectures will start on time. Please try to be prompt and not leave before the lecture is over. Talking, shuffling papers, and eating during lectures are distracting both to other students and the lecturer and will not be tolerated. Please wait until the presentation is over before you begin to gather your belongings. Practicing basic etiquette will make it a more positive experience for everyone. We may have breaks half way through lectures as needed.

### **Note**

1. *Be consistent in your efforts to conceive and complete your project. Do not fall behind. Feel free to consult your instructor, particularly when you have problems or concerns.*
2. *All work submitted for review/evaluation must appear professional. Hand-written reports are not acceptable.*
3. *Instructor will add other expectations orally during class meetings. Attend all classes!*

***Inclement Weather***

In case of inclement weather or emergencies, class will be held unless the University administration cancels classes. For University closing of classes and offices, call the UK Infoline at 257-5684 or check UKTV Cable Channel 16. Students should use their judgment about coming to class.

***Classroom and Learning Accommodations***

Instructors will make reasonable accommodations for physical and/or learning disabilities that could inhibit student academic success. The Disability Resource Center certifies the need for and specifies the particular type of such accommodations on a student-by-student basis. Students seeking accommodations must submit this certification to the faculty. Contact the Center staff at 257-2754.



**Tentative Schedule of Classes**

<b>Period</b>	<b>Day</b>	<b>Date</b>	<b>Topic</b>	<b>Reading Material</b>
1	F		<i>Introduction to Course</i>	
2	F		<i>Immunology of Implantation</i>	<b>TBA</b>
3	F		<i>Evolution of the mammalian reproductive tract and placentation</i>	<b>TBA</b>
4	F		<i>Toll-like receptors and pregnancy</i>	<b>TBA</b>
5	F		<i>Cytokines and pregnancy</i>	<b>TBA</b>
6	F		<i>Indoleamine 2, 3 Dioxygenase-dependent T-cell suppression</i>	<b>TBA</b>
7	F		<i>The role of Glucocorticoides</i>	<b>TBA</b>
8	F		<i>Regulation of Human Trophoblast apoptosis and survival during pregnancy</i>	<b>TBA</b>
9	F		<i>Co-stimulatory molecules in the placenta</i>	<b>TBA</b>
10	F		<i>Immune cells in Pregnancy</i>	<b>TBA</b>
11	F		<i>Bi-directional Cell trafficking during pregnancy</i>	<b>TBA</b>
12	F		<i>Term and parturition</i>	<b>TBA</b>
13	F		<i>The Immunology of pregnancy loss</i>	<b>TBA</b>
14	F		<i>The eutherian foetoembryonic defense system hypothesis</i>	<b>TBA</b>
15	F		<i>Consequences of Immune responses to infectious agents</i>	<b>TBA</b>