TO: FACULTY AND STUDENTS PARTICIPATING IN BIO. SCI. 199

FROM: Michael Leon, Associate Dean for Undergraduate Affairs


The School of Biological Sciences believes that successful participation in creative research is one of the highest academic goals undergraduates can attain. Students enrolled in Undergraduate Research, Bio Sci 199, and who meet eligibility requirements have an opportunity to present their scientific data to the academic community at the Undergraduate Research Symposium by participating in the Excellence in Research Program. Those students who successfully complete the program will be awarded with Excellence in Research in Biological Sciences.

PLEASE NOTE: Information contained in this packet is subject to change. Students will be notified via e-mail if revisions are necessary. I will use e-mail to communicate/confirm details on schedules so check your messages often!

TIMETABLE

All students who intend to participate in Excellence in Research must attend the following workshop. The same workshop is offered twice – it is mandatory that you attend only one. If you do not attend a workshop you will not be eligible to participate in the Excellence Program. There are no exceptions. If at this time you are not certain that you will participate, but you think you might, you should attend a workshop as there will be no further opportunities to attend additional workshops beyond those listed. All aspects of the program will be explained at this time. Each workshop is scheduled for 1.5 hours. You must arrive on time and stay for the entire workshop to receive credit for attending. Times are as follows:

Mandatory workshop times – Students are required to attend one:

   Monday, November 16, 4:00 – 5:30 pm, HSLH 200
   OR
   Wednesday, November 18, noon – 1:30 pm, HSLH 200

PLEASE NOTE: ALL DEADLINES ARE FIRM! LATE, INCOMPLETE OR UNSIGNED WORK WILL NOT BE ACCEPTED. Plan ahead - Communicate with your
Faculty early in this process regarding deadlines for paper review/evaluation, signatures etc. Required copies need to be made in advance.

The following designations will be used for scheduling for the Excellence in Research Program.

Please note if you are **SOM** or **BIO SCI** (this is determined by the location of your research lab as follows):

**School of Medicine, Medical Center locations and/or working with Human Subjects (SOM)** – UCIMC, UCI Bldg 200, SOM Bldg 55, Gottschalk Med Plaza, Joslin Diabetes Center, Santa Ana Family Health Center, Anaheim Clinic, Centerpoint Child Dev Center, Hewitt Hall, Long Beach VA Center, Fairview Dev Center, FOR OC KIDS Neurodevelopment Center, Med Sci I, Med Surge I, Med Surge II, Gillespie Neuroscience Research Facility, Sprague Hall.

**Main Campus departments or buildings (BIO SCI)** – Depts. of Eco Evo, Dev Cell, MBB, and Neurobio.

**DUE DATES ARE AS FOLLOWS:**

**ALL PARTICIPANTS (BIO SCI and SOM)** – The on line Excellence in Research Form is available beginning January 4. This must be completed no later than January 22, 2016 if you plan on participating in Excellence. The form is to be completed by ONLY those students who meet eligibility requirements and have attended a workshop. Answers should be kept BRIEF – a few sentences per question is all that is required. The Excellence in Research Form link can be found at [http://www.bio.uci.edu/undergraduates/research/excellence-in-research/](http://www.bio.uci.edu/undergraduates/research/excellence-in-research/). Details will be e-mailed prior to January 4.

**BIO SCI - Tuesday, March 2 OR Wednesday, March 3, 9:00 am – noon**

**SOM – Wednesday, March 3 OR Thursday, March 4, 9:00 am – noon**

The Excellence in Research Form (2 copies) will be due in the Bio Sci Student Affairs Office, 1st Floor Conference Room 1120, Bio Sci III, per the specified dates/times. This is the same on line form you completed in January. Log on again, update if necessary, print a copy, have it signed by your Faculty of Record, then make 2 copies to submit. If your Faculty can help with judging for this year’s program please have them indicate this in the provided space. A complete, current transcript (unofficial ok) must also be submitted at this time. Only one copy of the transcript is required. **No incomplete or late submissions will be accepted!**

**BIO SCI – Tuesday, March 29, OR Wednesday, March 30, 9:00 am – noon**

*SOM – Wednesday, March 30 OR Thursday, March 31, 9:00 am - noon**

Excellence in Research Papers are due in the Bio Sci Student Affairs Office per the listed times. You must submit TWO
copies* of your paper along with the signed Certification Sheet (page 18 of this packet). The Evaluation Form (page 19 of this packet) must be stapled to the front of one of the copies of your paper. Fill in your name and paper title ONLY on the Evaluation Form. I will then forward this copy to your department’s Honors Committee for review. Plan ahead and give your Faculty ample time to review your paper prior to this deadline. They will want revisions made!! All papers must follow the Excellence guidelines and format per the sample in the packet provided. YOU MUST ALSO SUBMIT ONE ADDITIONAL COPY OF PAGE 1 (cover page) OF YOUR PAPER AT THIS TIME. No late or incomplete papers will be accepted. No exceptions. Papers are submitted to Susan Schafer and MAY NOT be dropped off at the front desk. Come early to avoid a wait and the last minute rush!

*SOM participants will be required to submit only ONE copy of the Excellence in Research paper along with the Certification Sheet, Evaluation Form, and additional copy of page 1. You will receive separate instructions regarding electronic submission of papers.

Week of April 4** You have this week to prepare and finalize talks and posters.

Week of April 11** Departmental Symposia takes place. Each student will present a talk within his/her department. All faculty and students are invited to attend the departmental symposium. You will be notified of your department’s specific date, time, and location after papers are submitted. Talks take place in conference or small classrooms. Your department provides the information that I pass on to you. Please remember to dress appropriately for your talk—i.e., no jeans, shorts. You are expected to attend your assigned time! It is NOT possible to accommodate students’ individual class schedules due to the large number of participants. See details on pages 13, 14.

Week of April 18** Poster display and judging is completed per department instructions. “Individual” judging sessions where you will stand at your poster to entertain questions from judges is determined by your department. A specific departmental schedule will be given to participating students after the research paper is submitted. Set-up/take-down times must be strictly adhered to. Plan on arriving at least 15 minutes in advance! Once again, you are expected to be at your assigned time for judging. See details on pages 15, 16.
April 27, April 28** "Finalist" Poster Session presented by selected students. All posters should be placed on display Wednesday, April 27, 10:00 am through Thursday, April 28, 1:00 pm, Nat Sci I, rm 1114. Easels will be provided. Students will be assigned a judging time, either Wednesday pm or Thursday am. In addition to receiving “Excellence”, these students may be eligible for additional awards. See details on page 17. Please remember, appropriate dress required.

BIO SCI & SOM – Week of May 16

Final Paper “Upload”- All final papers must be uploaded at this time to the on line Journal. You must make all appropriate revisions and submit a Final Certificate Form signed by your Faculty advisor. Papers must meet all guidelines and format requirements or they will not be published. Details for uploading will be provided at this time.

**PLEASE NOTE: ALL DATES, TIMES, AND LOCATIONS WILL BE CONFIRMED AND MAY BE CHANGED DUE TO ROOM AVAILABILITY IN SPRING.
ELIGIBILITY

Undergraduate students must be enrolled in independent research in Biological Sciences (MUST BE A BIO SCI 199 – other School’s 199s are not accepted) and have completed a minimum of four (4) quarters of research on the same project by the end of Spring Quarter, 2016. At least one quarter must be taken during the 2015-2016 academic year. Students must also be enrolled at UCI through Spring quarter and graduate no earlier than Spring of the year they are participating. Students must be in good academic standing with an official, cumulative UCI GPA of 3.0 or better by Fall quarter 2015 end. There can be NO record of Academic Dishonesty. Those students who have earned Excellence in Research previously are eligible again, provided that all the requirements are met and the research project is different. Papers, talks, and posters must be done individually. They may not be co-authored. Please speak to your Faculty if there are several students in your lab participating in Excellence. Your project needs to be divided so that each student has their own, unique part to report on. If there is any question regarding your eligibility, you are urged to contact Susan Schafer in the Biological Sciences Student Affairs Office (824-5318) prior to attending workshops. Eligibility requirements are strictly adhered to. Exceptions are not permitted.

To be considered for Excellence in Research in the Biological Sciences, eligible students must, according to program standards: 1) attend November workshop*, 2) submit the appropriate forms, 3) complete a scientific paper, 4) present a scientific talk, and 5) present a research poster. Based on the students’ work in its entirety “Excellence” is then determined and awarded by the Honors Committee. Students awarded with “Excellence” will have their paper published in the on line Journal of Undergraduate Research in the Biological Sciences, 2015-2016.

If awarded, Excellence in Research will meet the requirement for the third Upper Division Bio Lab. Three (3) Upper Division Bio Labs must be completed to meet the requirements for graduation in the Biological Sciences. May be any 3 from D111L, E106L, E112L, E115L, E131L, E161L, E166W, E172L, E179L, M114L, M116L, M118L, M127L, M130L, N113L. Please see the Bio Sci Degree Requirement Sheet for unique requirements for Bio majors other than general Bio Sci as a petition may be required. Please keep in mind that health professional schools will require one year (3 quarters) of labs. Check with the schools you are applying to should you have questions or concerns regarding their admission requirements.

PLEASE NOTE: Beginning Fall 2012, four (4) quarters of research on the same project is required in order to participate in the Excellence Program. No exceptions are allowed.

*The same workshop will be given twice – it is mandatory to attend one. Additional workshops are NOT given at a later date. Details will be available on the Bio Sci Student Affairs web site, http://www.bio.uci.edu/students/undergraduates/research/excellence-in-research/, October, 2015.
REFERENCE TEXTS

Students are strongly encouraged to refer frequently to the recommended texts for this program.

**Recommended Text:**

**Additional Reference Cited:**

RESEARCH PAPER GUIDELINES

1. **STYLE**

   a. Write in a clear, logical and concise style. Scientific writing should not be misunderstood. Communicate your findings at the level of those who are familiar with the material covered in our Biological Sciences Core curriculum.

   b. The paper in **TOTAL** (abstract, text sections, illustrations, acknowledgments, and literature cited) may not exceed 12 typewritten or be less than 8 typewritten pages. **Papers less than 8 pages or exceeding 12 pages will not be accepted.** Utilize the space on each page in its entirety – continue text or graphs/figures rather than starting a new page for a new section. The papers should be printed single-sided on 8 1/2" x 11", using **Times, 12-point font.** Leave one-inch margins on all sides as well as top and bottom. **Type the abstract, literature cited, acknowledgments and figure legends single-spaced. Text is double-spaced.** Do not use footnotes.

   c. Make certain that the paper is free of typographical, spelling, punctuation, and grammatical errors.

2. **ABSTRACTS**

   An abstract is an accurate and informative summary of a research project. In the case of a Research paper, it allows the reader to identify the essentials of the work, including: 1) the research question, 2) the methodology, 3) the results, 4) the conclusions. Each of these aspects of the paper should be presented in a sentence or two and the entire abstract should be presented succinctly in a single paragraph as a part of your final paper and poster. Although the abstract appears as the first section of your paper, it should be written last so you can include the necessary information.
a. Begin with a topic sentence that states the research question.

b. Avoid jargon and abbreviations; your work may be read by people who may be unfamiliar with the details of the research area in which you have been working.

c. Type your abstract single-spaced in Times 12 point font, .3 indent, one-inch margins

d. Abstract should contain no more than 250 words.

e. FOLLOW THE EXAMPLE OF THE ABSTRACT SHOWN IN THE SAMPLE PAPER ON PAGE 9 OF THIS PACKET.

3. ILLUSTRATIONS AND TABLES

Place the text describing the graphs or tables on the same page as the figure if possible. Figure legends go below the figures, table legends go above tables. Use space as efficiently as possible.

4. PAGE NUMBERS

Page numbers should be centered on the bottom of each page. Page 1 should not be numbered. Begin numbering on page 2.

5. ORGANIZATION OF THE PAPER

a. The title of the paper should be typed in Times, 12-point, ALL CAPITAL LETTERS, BOLD TYPE, CENTERED at the top of the first page. The title should be a short, clear statement of what is interesting in your paper. "RESEARCH ON PINE TREES" would be too general, for example. If your title is two lines long, do not leave a space in between line #1 and line #2. Then type author name (your name, last name first), the department in which the work was done, the Faculty of Record’s name, and the abstract on that page according to the required format. Remember, the abstract is single-spaced.

b. Start your introduction on that same page without typing the section heading, "Introduction". The introduction should establish why you are doing your research.

c. These section headings should be typed in Times, 12-point, capital letters, bold type, left-justified:

MATERIALS AND METHODS
RESULTS
DISCUSSION
ACKNOWLEDGMENTS
LITERATURE CITED

d. See writing references for examples of scientific paper style and organization.

e. A sample paper follows that demonstrates the required format and spacing and further describes the contents of each section of the paper. YOUR PAPER MUST LOOK LIKE THE SAMPLE PAPER BEGINNING ON PAGE 9 – NO EXCEPTIONS.
THE INITIATION OF CALLUS IN *PINUS PONDEROSA*

(Student's Name (Last Name First) i.e., Smith, John)

Department

(Faculty of Record’s Name)

Start the text of the paper here without typing the section heading **INTRODUCTION**. Again, the introduction establishes why you are doing your research. Focus on a clear hypothesis and provide the context of your work. Remember to type text double-spaced, and allow **one-inch margins** on all sides of each page. Center page numbers at the bottom of pages. Page 1 is not numbered - begin numbering on page 2. Be sure to follow the directions contained in this manual. If you have any questions about the instructions please be sure to contact Susan Schafer in the Bio. Sci. Student Affairs Office, Bio Sci III, 824-5318. Be sure all your work is clean, clear, and concise.

Good writing takes time; start as soon as you can. You should write at least three drafts. After you have completed your first draft, ask another student in the program to critique it. Your
Faculty Advisor should review your second draft and your final manuscript. **Allow enough time for revisions.** IMPORTANT – The Excellence in Research Paper due in April is considered your FINAL paper and will be evaluated as such by the Honors Committee. This is NOT a draft. You do not have an opportunity to rewrite your paper.

**MATERIALS AND METHODS**

This section details the way the research was accomplished. The importance of this section is that it allows someone else to read it and know exactly what needs to be done to replicate your research. Therefore, you must have as much detail as possible in this section so that any one, any where could do exactly the same research. Be sure to describe the steps taken and how you analyzed your data. **NOTE:** If you used animal subjects, the following sentence should appear in the first paragraph of this section: *All experiments were carried out in accordance with the Institutional Animal Care and Use Committee at the University of California, Irvine, and were consistent with Federal guidelines.* If you used human subjects and/or specimens, your sentence will be as follows: *All experiments were carried out in accordance with the Institutional Review Board at the University of California, Irvine, and were consistent with Federal guidelines.*

**RESULTS**

This section details and describes your findings in a written format and provides evidence of data. The results should present the outcome of your experiment. **Data should be able to be analyzed, reported and illustrated with findings presented in text, graphs, tables, etc.** Do not start to explain your data in this section. Present "p" values here and refer to all graphs in the text by number (Figure 1). Your graphs should be self-explanatory; label lines and bars in the
graph and don't use abbreviations. Legends should accompany each figure or table and be placed correctly – above for a table and below for a figure.

DISCUSSION

This section explains the implications of your findings: what the results mean. Describe any problems with the data and try to explain any unexpected findings. Finish this section by suggesting what further studies might be done on the project in the future.

ACKNOWLEDGEMENTS

This is a place to briefly thank those people (other faculty, lab personnel, etc.) who have helped you complete your project. This section should be single-spaced.

LITERATURE CITED

This section presents all the scientific literature to which you have referred in your paper. To refer to an article in the text, give the authors and year of the article in parentheses, for example, (DePolo and Villarreal 1991). For more than two authors, list only the first author and refer to the others as "et al", for example, (Casey et al 1991). Do not list references which you did not actually cite. The style for references that you must use is that detailed in the CSE style manual, Scientific Style and Format: The CSE Manual for Authors, Editors, and Publishers. 7th ed., 2006. It is recommended that you have 8-12 references with a maximum of 1 page. Please remember this is not a lab report or review paper – a primary source for references is needed (NO Wikepedia, for example).

References should be single-spaced, listed in alphabetical order by first author, and formatted with a 0.3-inch hanging indent (3 spaces) as shown below to distinguish between references. Examples of reference citations for three journal articles, a book, an electronic journal with a print source and a chapter in a book follow. **ALL REFERENCES IN YOUR PAPER MUST FOLLOW THE FOLLOWING FORMAT** (page 12).


PRESENTATION OF A SCIENTIFIC TALK

1. Each student speaker will be allowed ten minutes to present his/her research. Following the talk, five minutes will be allowed for discussion and questions. The talks will be open to all students, faculty, and staff. Times and locations for the talks vary by department and will be given to students after papers are submitted. Please communicate your assigned time to your Faculty as they often want to attend.

2. Your task as a speaker is to create interest in the project by conveying your enthusiasm about it. This then, is a different approach than the more formal description of your work in a scientific paper. Your audience is not relying on your talk to be able to replicate the work, so limit the amount of time given to describing your methods. If they would like to know about them, they will ask for methodological details in the question period. First, state your research question. Second, describe what you did. Third, describe the results of your work. Fourth, state the conclusions that you can draw from the results.

3. Speak as though you were describing your work to a friend. Do not read your talk, even from small cards. Don't worry about getting every word and thought exactly right; if it is not important enough for you to remember it, it is not important enough for your audience to know it. If there are parts to your talk that you would like to be sure that the wording is exact, place that information on your power point. The hypothesis and conclusions are often best presented in this way.

4. Present important ideas in several different ways, even at the risk of repetition. You can use photos and diagrams in your introduction and graphs, tables, or illustrations to describe your data. Use data of lesser complexity than those used in your paper. Paragraphs should be short. You can use a bulleted or numbered list or a flow chart. Use large type and try to keep all labels in the horizontal format.

5. Write out your talk when planning so that you can:
   a. check its logic
   b. ensure proper transition between sections of your talk
   c. use short sentences

6. Organization:
   a. Your introduction must be simple, easily understood, and aimed at gaining the attention of your audience. Why should they be interested in this project?
   b. The talk should have the same logical progression as the paper, but with less methodological detail.
   c. Get to the point of your talk; don't ramble.
   d. Your closing remarks should be relevant to evidence presented and should leave the audience with a "take home" message that they can remember.
   e. It is important to tell your audience that you're done and then invite them to participate. Say, "Thank you for your attention. Are there any questions?"
7. Power Point: Students are to use a power point presentation for their scientific talk. Detailed information and logistics for power point use will be determined by each department.

8. Trial run: Give a practice talk at your lab meeting. Have someone time it to see if you have constructed a presentation that can be given in the allotted time. You won’t be allowed to run long but you want to use most, if not all, of the 10 minutes.

9. Appropriate casual dress attire should be worn. No jeans, shorts, etc.

**AN EFFECTIVE PRESENTATION SHOULD:**

Have a clear purpose and main point, and not be just a collection of data.

Be readily understood.

Have a simple format and include only essential information.

Be digestible. Minimize data. Edit and delete.

Have a graphic format. Use graphs or tables for data.

Be legible, uncluttered, and clear. Use readable fonts and horizontal images along with good visual contrast (white text on blue background is often used).

Show creativity and use artistic license if you choose.

Be enjoyable for you and your audience. You should feel comfortable with your presentation.
POSTER SESSION AND DISPLAY

Scientists often present their findings in posters, which are carefully organized and attractively displayed presentations of their research. The poster serves as a visual display to which the investigator refers in answering questions and discussing his/her work. Participants in the Undergraduate Symposium will present their work in this format. **Posters can be professionally printed or hand-assembled – either is acceptable.** Poster times and deadlines must be adhered to and late arrivals may not be considered. Expect to arrive at least 15 minutes in advance!

Posters will be displayed and judged per department schedules the week of April 18. During this time each department will host an "individual" judging session where students stand at his/her poster to entertain questions from their judges. Assigned dates, locations, and instructions will be available when the scientific paper is submitted. **Schedules vary according to department so make sure you know your specific information. All schedules are firm. YOU ARE ARE EXPECTED TO ATTEND YOUR ASSIGNED TIME. IT IS NOT POSSIBLE TO ACCOMMODATE INDIVIDUAL PREFERENCES DUE TO THE LARGE NUMBER OF PARTICIPANTS.**

The required poster size is 36" (height) by 48" (width). Posters should be mounted securely on foam core. **Image Works, located in 2112 Natural Sciences I, (949) 824-6414 can print and mount posters. They will have the correct size foam core. Turn around time is approximately one week.** If you have your poster printed/mounted elsewhere you are responsible for meeting all standards and deadlines. Posters will be judged on the basis of the quality of the science and its’ presentation value. In preparation of the poster, standards must be followed and elements presented, as shown on the accompanying diagram:

1. At the top of the poster is the title of your project, followed by your name, the department in which the work was done, and the name of your faculty advisor in parentheses.

2. The Abstract, exactly as it appears in your paper, must be included on the poster, followed by Introduction, Methods, Results and Conclusions sections. The text of the poster should not be identical to your paper. Rather, the poster should be a brief, clear presentation of the critical information relating to your project. All of these sections and their subsections should be numbered consecutively, top to bottom, left to right (see sample poster).

3. Each illustration, table, figure, photograph, or diagram must have a “headline” which describes its content in a phrase or sentence. Do not title your data as “Results”. Rather, describe the results in a headline sentence above the data. For example: “CD44 glycoprotein is abundant on normal epidermis, but scarce on cells of a basal-cell carcinoma” would be an appropriate headline, while “CD44 levels” would be an inadequate headline. Your poster serves as a display for discussion of the information.

4. Text should be large and clear (no Gothic or script fonts as they can be difficult to read). **Your poster should be easily read from a distance of three feet. Please use at least an**
18-point font, preferably 24-point. You will have to edit your text down from the paper format. All the information is not necessary on the poster as you will be there to explain the project.

5. The conclusions should be presented in clear, simple sentences that can be understood by biologists not familiar with your specific field of research.

6. Each section of your poster should be numbered going from top to bottom, left to right as indicated on the poster diagram. This allows judges to move through poster judging unhindered.

7. All material must be firmly attached to the foam core board. Do not use staples, scotch tape, pins, or masking tape. The best adhesive is repositionable spray mount sold in art stores – cover all surfaces on which you spray the adhesive as it is not easy to get off. If you want to have your poster printed and mounted, Image Works, here on campus can do this in approximately 1 week. If done elsewhere, you are responsible for making sure all standards are followed and that time constraints are met. Again – posters do not have to be professionally printed – you can print the various sections out and hand-assemble/mount these on foam core if you choose to. Required size is 36” high x 48” wide.

8. An example of a typical poster layout follows (not to scale). This example shows the formal requirements but is not meant to limit your creativity. The poster is your opportunity to visually engage and present your research to a broad audience. You are encouraged to take advantage of the artistic potential of this medium as long as you don’t compromise the basic standards and scientific component of your poster.

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**Title of Poster**
Your Name, Department, (Faculty Sponsor)

1. **Abstract** – exactly as it appears in Excellence in Research Scientific Paper……………………………………………………………………………………

2. **Introduction** – Text should be easily read from 3 feet. Edit information for poster format…………………………………………………………………………………………

3. **Methods**
   - Method 1
   - Method 2
   - Method 3
   - Method 4

4. **Statement of Results**

5. **Statement of Results**

6. **Statement of Results**

7. **Conclusions** - ………………………………………………………………………………………………………
“FINALIST” SELECTION AND AWARDS

“Finalists” from each department will be selected by the Honors Committee. Students are asked to participate in an additional poster judging session where projects are once again presented, this time to judges from all departments. Awards are then decided from this group and are presented to the awardees at the Biological Sciences Honors Convocation in June. These awards are in addition to receiving “Excellence”. A description of awards can be found in the UCI Catalogue under Biological Sciences Honors, Scholarships, Prizes, and Awards. These may vary year to year.

“Finalist” judging will be Wednesday, April 27, 1:00-3:00 pm, and Thursday, April 28, 10:00 am – 12:00 pm (noon), Nat Sci I, room 1114. Students attend only one session and will be notified of their assigned time. You will need to provide an 8 1/2 x 11 color print of your poster to each judge at this time. Details will be e-mailed prior to Finalist judging. All students should retrieve posters at the conclusion of judging, between noon and 1:00 pm Thursday, April 28. Students must be present for judging to be eligible for prizes. Please dress appropriately (no jeans, shorts, etc.).

JUDGING AND AWARDS

1. Faculty from the School of Biological Sciences and from the College of Medicine comprise the Honors Committee and will meet to make selections regarding the papers, talks and posters.

2. In keeping with the standards of this program, the Honor's Committee may decide to award "Excellence in Research" in the Biological Sciences only if the student completes all requirements (workshop, Excellence in Research form, research paper, scientific talk, and research poster) and the paper is deemed of the quality to be published in the Journal of Undergraduate Research in the Biological Sciences.

JOURNAL OF UNDERGRADUATE RESEARCH IN THE BIOLOGICAL SCIENCES

Students will be notified when the on line Journal 2015-2016 is complete and available for viewing. This is usually in June.
2015-2016
Excellence in Research
SCHOOL OF BIOLOGICAL SCIENCES

Certification Sheet
(To be completed by Faculty of Record and turned in by student with Paper submission)

Student’s Name______________________________________________________________

Faculty of Record__________________________________________________________

Title of Paper_________________________________________________________________

____________________________________________________________________________

____________________________________________________________________________

Please describe the student’s contribution to the project:

____________________________________________________________________________

I have read the paper designated above and certify that:

a. The performance of the student is of distinction and worthy of being awarded “Excellence in Research in the Biological Sciences”.
b. This scientific paper has been proofread for form and accuracy and is correct.
c. The scientific paper is of the quality and substance to merit consideration for publication in the Journal of Undergraduate Research in the Biological Sciences.

____________________________________________________________________________

Faculty of Record Signature (REQUIRED)              Print Faculty of Record Name

____________________________________________________________________________

Department, Address, Zot Code                        Date
School of Biological Sciences

Excellence in Research 2015 - 2016

Evaluation – Scientific Paper

(Student to fill in title and name only, staple to one copy of Paper when submitting – for Honors Committee use)

Paper Title:

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

Student Name: Last_______________________________________First____________________________

Superior         Average          Average          Average              Poor

Scientific merit of the work:  5   4   3        2   1
Findings are placed in context with other published works:  5   4   3    2   1
Literature survey consistent with scope of paper:   5   4   3    2   1
Style, figures and illustrations as well as scientific prose, grammar and familiarity with Journal style:     5   4   3    2   1

Comments:

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_____  I consider this paper to be of the quality and substance to merit consideration for publication in the on line Journal of Undergraduate Research in the Biological Sciences.

_____  With the noted revisions, I consider this paper to be of the quality and substance to merit consideration for publication in the on line Journal of Undergraduate Research in the Biological Sciences.

Evaluator (Print) ____________________________________ E-Mail________________________________

Evaluator’s Signature_______________________________________________________________________
Excellence in Research
2015-2016 WORKSHOP FORM

Please fill out only if you are eligible for the Excellence in Research Program and have attended a workshop!

http://www.bio.uci.edu/students/undergraduates/contact-us/excellence-research-inquiry/