### 

### The Oregon Academy of Science 2020 Annual Meeting

**Saturday, February 29th, 2020**

**Portland State University**

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All attendees will need to register for the meeting and should either do this online or send their completed registration form with check to Liz Atkinson, Treasurer. If you are also presenting a poster or giving a talk, please fill out the abstract form and send that to the appropriate section chair. Details below.

**The Oregon Academy of Science**

2020 Membership and Meeting Registration Form

(Tax ID#: 93-603-1393)

*Advance Registration must be received by February 7th, 2020*

1. **REGISTRATION INFORMATION** *(****\*required*** *Please type or print. Complete form for* ***each*** *person.)*

|  |  |
| --- | --- |
| Name (Last, First, MI)\* |  |
| Institutional Affiliation, if applicable\* |  |
| Email\* |  |
| Phone |  |
| Mailing Address\* |  |
| City, State\* |  |
| Zip Code\* |  |

*Check this box to receive paper mailings from OAS. Mailings are typically sent by e-mail.*

1. **OAS SECTION AFFILIATION**

|  |  |
| --- | --- |
| OAS Section | Biology  Chemistry  Computer Science  Economics  Geology  Geography  Geology  Health Science and Kinesiology  Mathematics, Computer Science & Statistics  Physics  Political Science  Psychology  Sociology/Anthropology  STEM Education  Junior Academy |

1. **MEMBERSHIP DUES and 2020 MEETING REGISTRATION FEES**

**Membership and Meeting Registration (Student $20.00, Regular $45.00) $**

**Nonmember Meeting Registration ($50.00) $**

Late fee (if postmarked after Feb/07/2020, or if registering at meeting, add $5.00) $

**TOTAL AMOUNT ENCLOSED $**

*Members are entitled to (1) receive the Annual Proceedings, (2) receive a discount on the Annual Meeting Registration Fee, (3) serve on the Council, (4) present papers and posters at the Annual Meeting, (5) nominate candidates for Outstanding Scientist and Outstanding Educator awards.*

*Payment of the registration fee is required for attendance at the Annual Meeting, and entitles you to attend all presentations, as well as continental breakfast, lunch and refreshments. In order to make a presentation, you must be an OAS member and must submit your abstract to the appropriate Section Chair using the enclosed form. (Please see the OAS website for additional information oregonacademyscience.org)*

|  |  |
| --- | --- |
| **MAIL THIS FORM AND YOUR *CHECK***  **(**Payable to **"THE OREGON ACADEMY OF SCIENCE”)** to:  **LIZ ATKINSON**  Treasurer, The Oregon Academy of Science  Chemistry Dept. Linfield College  900 S.E. Baker, McMinnville, OR, 97128-6894 | Please, **DO NOT** send this registration form to your  Section Chair or to the  Proceedings Editor.  Questions: [eatkins@linfield.edu](mailto:eatkins@linfield.edu)  (503-883-2621) |

### The Oregon Academy of Science 2020 Abstract Submission Form

(Please print or type.)

|  |  |
| --- | --- |
| OAS Section Leadership  For a list of OAS Section Chairs go to: oregonacademyscience.org | Your Section Chair’s Name: |
| Your Section Chair’s Email: |
| OAS Section (Mark ***one*** for this abstract.) | Biology  Chemistry  Computer Science  Economics  Geology  Geography  Geology  Health Science and Kinesiology  Mathematics, Computer Science & Statistics  Physics  Political Science  Psychology  Sociology/Anthropology  STEM Education |
|  | |
| Title of Presentation: |  |
| Type of Presentation: | Oral  Poster   Check both boxes if both apply. |
| Author(s): |  |

**Lead Presenting Author (\*required)**

|  |  |
| --- | --- |
| Email\* |  |
| Name (Last, First, MI)\* |  |
| Institutional Affiliation\* |  |
| Mailing Address\* |  |
| Phone\* | Office:       Home: |

**Corresponding Author (if different)**

|  |  |
| --- | --- |
| Email |  |
| Name (Last, First, MI) |  |
| Institutional Affiliation |  |
| Mailing Address |  |
| Phone | Office:       Home: |

### Instructions for OAS Abstract Submission(s)

You may submit the electronic abstract as an attachment in MS Word to your Section Chair. After reading the instructions, it may be useful to delete the Guidelines and cut and paste your abstracts directly into this section of the Abstract Submission Form. Please be mindful of the formatting, a sample abstract is shown below. Please note the following details:

* Prepare your abstract with Word on either the Macintosh or Windows platform, use 12 point **bold** Times New Roman font for the title and 10 point font for listing authors, addresses, and the body of the abstract. If these options are not available, send as a text file.
* The abstract should be 250 words or fewer. Chemical structures, equations, figures and/or graphs are encouraged; however they must be saved and **cut and pasted in the abstract as a jpeg image.**
* Only the first word and proper nouns should be capitalized. Include the names of all contributing authors.
* List the full address where the research was done, including the city, state and zip code, followed by a period. For multiple authors with different addresses list all names first and then follow with addresses in the order of authors (see style below).
* Present the entire abstract in one, single-spaced, Left justified paragraph with no indentations. Use two spaces after each period. Structures, figures, etc. may be embedded in or follow the abstract as a **jpeg image**.
* The margins should be at 1” on the left and 7.0” on the right following the title, author list and body of the abstract.
* Send the abstract as an email attachment and mail the completed submission form to your section chair. If there are special characters, structures, equations, figures or graphs, please send a hard copy as well.

**Sample Abstract:**

**The roles of 14-3-3γ and ChK1 in regulating the hypoxia-p53 pathway.**

Rebecca Duby1, Yetao Jin2, Hua Lu2 / Department of Biology, George Fox University, Newberg, OR, 2Department of Biochemistry and Molecular Biology. Oregon Health and Sciences University, Portland, OR 97239.

In response to various physiological stresses (i.e. DNA damage, hypoxia) the tumor suppressor protein, p53, is activated to induce cell growth arrest and/or apoptosis. While little is known about the molecular mechanisms governing hypoxia-induced p53 activation, many of the proteins which have been identified in the UV-p53 pathway (Figure 1), have also been found to be activated or upregulated in response to anoxia, suggesting that they may play a role in the hypoxia-p53 pathway. The objectives of this study, consequently, were: (1) to confirm that p53 activation is accompanied by hypoxia induced 14-3-3γ expression and MDMX S367 phosphorylation, (2) to establish ChK1 as the kinase responsible for this phosphorylation, and (3) to determine that the interaction between 14-3-3γ and MDMX is induced in response to anoxia. U2OS osteosarcoma cells were cultured in an anoxia chamber and harvested at different time points as indicated. (For the second assay, a portion of the cells were treated with UCN-01, a ChK1 specific inhibitor, prior to incubation). For assays one and two, cell pellets were lysed for SDS-PAGE and WB analyses with antibodies as indicated. In the third assay, the cell pellets were utilized for IP with anti-14-3-3γ antibodies followed by WB with antibodies against 14-3-3γ and MDMX. The results confirmed that 14-3-3γ is expressed and S367 MDMX is phosphorylated (Figure 2) that ChK1 phosphorylates S367 on MDMX (Figure 3) and that 14-3-3γ interacts with MDMX (Figure 4). Altogether, these results provide the first steps towards establishing a working model for the molecular mechanisms which govern hypoxia-induced p53 activation.

**NOTE:** Send your abstract *and* the completed abstract submission form as an email attachment to the appropriate Section Chair. **Please don’t forget to** pre-register **for the meeting** *in addition* **to submitting your** abstract!

**Equipment:** *All rooms will have a PC computer podium with projection system, and a whiteboard or chalkboard.*

### The Oregon Academy of Science 2020 Nomination Guide for Annual OAS Awards

Any member of the Oregon Academy of Science may nominate, or sponsor the nomination, of a person for one of the following three awards:

* Outstanding Oregon Scientist
* Outstanding Educator in Higher Education
* Outstanding K-12 Educator

A nomination consists of a written letter, submitted to the President of Oregon Academy of Science. A letter of nomination from a person who is not a member of the OAS must be co-signed by a member of the OAS for it to be considered.

In recognition of the diverse careers and contributions of Oregon scientists and educators, the format of nomination and the submission of supporting documentation is otherwise open. The letters of nomination and supporting documentation will be reviewed by the OAS Officers and their decision will be final. An award in each of the three areas may not be made every year. Awards will be presented during the Annual Meeting.

For nominations for 2020, please submit letters of nomination and all supporting documentation to Todd Rosenstiel, rosensti@pdx.edu. If you have questions, please contact your Section Chair or contact Dr. Rosenstiel directly.

Suggestions for nominations:

* Clearly indicate which of the three awards you are nominating the person to receive.
* Clearly indicate the nominee’s academic affiliation.
* Provide specific examples of the nominee’s contributions to scientific discovery and/or education.
* Indicate how the nominee’s contributions have or will have a continuing impact on the people of Oregon and, if applicable, people outside of Oregon.
* Sign your letter of nomination. (Email signature is acceptable from OAS members with emails on-record.)