2024 AUTHOR INDEX

Keller, Walter, 1730
Keskin, Derin B., 1681
Kim, Theo D., 1699
Kin, Nicholas W., 1516
Kitchell, Robert, 1438
Kiyo, Hiroshi, 1577
Kochman, Adam A., 1669
Kojima, Yoshihitsu, 1760
Kolbeck, Roland, 1740
Kong, Tianqing, 1934
Kopcek, Jolanta, 1730
Kop, Richard A., 1721
Kryczek, Ilona, 1423
Kucewski, Elizabeth, 2013
Kueter, Esther W. M., 2005
Kumar, Manoj, 1681
Kuruguru, Keigo, 1872
Kunisawa, Jun, 1577
Kurahashi, Chika, 1449
Kurie, Jonathan M., 1926
Kurashima, Yosuke, 1577
Kung, James, 1872
Kumar, Manoj, 1681
Kueter, Esther W. M., 2005
Kuczkowski, Elizabeth, 2013
Kryczek, Ilona, 1423
Koup, Richard A., 1721
Kurotaki, Takehiro, 1825
Kurahashi, Chika, 1449
Kunisawa, Jun, 1577
Kung, James, 1872
Kumar, Manoj, 1681
Kueter, Esther W. M., 2005
Kuczkowski, Elizabeth, 2013
Kryczek, Ilona, 1423
Koup, Richard A., 1721
Kurotaki, Takehiro, 1825
Kurahashi, Chika, 1449
Kunisawa, Jun, 1577
Kung, James, 1872
Kumar, Manoj, 1681
Kueter, Esther W. M., 2005
Kuczkowski, Elizabeth, 2013
Kryczek, Ilona, 1423
Koup, Richard A., 1721
Kurotaki, Takehiro, 1825
Kurahashi, Chika, 1449
Kunisawa, Jun, 1577
Kung, James, 1872
Kumar, Manoj, 1681
Kueter, Esther W. M., 2005
Kuczkowski, Elizabeth, 2013
Kryczek, Ilona, 1423
Koup, Richard A., 1721
Kurotaki, Takehiro, 1825
Kurahashi, Chika, 1449
Kunisawa, Jun, 1577
Kung, James, 1872
Kumar, Manoj, 1681
Kueter, Esther W. M., 2005
Kuczkowski, Elizabeth, 2013
Kryczek, Ilona, 1423
<table>
<thead>
<tr>
<th>Author Name</th>
<th>Year</th>
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<tbody>
<tr>
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<td>1506</td>
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<td>1506</td>
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</tr>
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<td>1532</td>
</tr>
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<td>1423</td>
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<td>1730</td>
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<td>1740</td>
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<td>von Euw, Erika</td>
<td>1950</td>
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<td>Vrtala, Susanne</td>
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Working for You!

The mission of The American Association of Immunologists (AAI) is to advance the knowledge of immunology and related disciplines, foster interchange of ideas and information among scientists, and promote understanding of the field of immunology.

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QUALIFICATIONS AND APPLICATION FOR REGULAR MEMBERSHIP
2007 MEMBERSHIP YEAR

The American Association of Immunologists (AAI) is a professional organization whose members have a strong interest in, and have made substantial contributions to, the science of immunology. AAI is a member of the Federation of American Societies for Experimental Biology (FASEB) and is responsible for the publication of The Journal of Immunology. To be eligible for election to membership in the AAI, a candidate must meet one of the following criteria:

1. Possess a Ph.D., (or equivalent graduate degree, e.g., D.Sc.) in immunology or related disciplines, or an M.D. (or equivalent medical degree, e.g., D.D.S.) and be the first author of one significant original publication on an immunological topic in a reputable, English language refereed journal. Manuscripts "in press" are acceptable when accompanied by a letter from the publisher or Editor-In-Chief of the journal affirming its acceptance and imminent publication. Abstracts and unpublished papers will not be considered in evaluating whether a candidate meets the publications requirement for membership.

2. Be an established scientist with substantial achievement in a related discipline and have at least one collaborative paper on an immunological topic in a reputable, English language refereed journal.

*These requirements may be waived under exceptional circumstances if a candidate shows evidence of other appropriate training and/or substantial research accomplishment.

THIS APPLICATION PACKAGE MUST INCLUDE:

1. A current copy of your curriculum vitae including bibliography.
2. A copy of the title page of a first author publication that meets the criteria.
3. The name and signature of an active AAI member as your reference.

NAME: _____________________________________________________________________________________________
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PUBLICATION: _____________________________________________________________________________________
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RESEARCH SPECIALTY: ____________________________

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NAME OF AAI MEMBER (please print clearly): ____________________________________________________________
SIGNATURE OF AAI MEMBER: ________________________________________________________________________

Applications should be mailed to the AAI office and marked to the attention of the AAI Membership Department. Please DO NOT send payment with your application. You will be invoiced upon approval.

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2007 Dues Rates: January 1 - December 31: U.S. - $260.00 Canadian - $267.50 (GST incl.) International - $260.00

2027
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Address: ______________________________________________________________________

City: ______________ State: __________ Zip Code: ______________

Phone Number: ______________ Fax Number: _______________________

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Individuals may remain Trainee members for a maximum of eight (8) years. Certification **must** be renewed annually.

**SECTION 1 -- APPLICANT INFORMATION**

I am a Pre-doctoral Trainee -- I expect to receive the __________ (advanced degree) in __________ (mo/yr)

I am a Post-doctoral Trainee -- I hold the following advanced degree(s) *(please indicate all advanced degrees held and the month and year conferred)*: _______________________________________________________

**SECTION 2 -- CERTIFICATION OF APPLICANT'S TRAINEE STATUS**

(to be completed by current AAI member)

As a current member of the AAI, I hereby certify that the applicant identified above is either a regularly matriculated pre-doctoral student or a post-doctoral trainee and, as such, is eligible to remain a Trainee Member of the AAI.

Current AAI Member's Name (First, MI, Last): ___________________________________________

Signature: _______________________________________________________________________

Title (Dean, Dept. Chair, or Professor in Charge): _______________________________________

AAI Member Number: ___________________________ Date: ___________________________

**SECTION 3 -- APPLICANT PLEDGE AND PAYMENT**

I ___________________________, pledge that any print copies of *The Journal of Immunology* purchased by me at the special subscription rate to Trainee Members are for my personal use. They will not be placed in a library for general use, sold, or replace a subscription currently purchased by an institution. I also agree that my on-line access to *The JI* will not be shared with others.

**JANUARY 1 - DECEMBER 31, 2007**

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<th>International Member</th>
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2028
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lyosome exocytosis as well as mature IL-1β release in the P2X7R-null BMDM.

**P2X7R-induced exocytosis of secretory lysosomes is LPS dependent and requires protein synthesis, proteasome activity, and NF-κB signaling**

Given our previous finding (30) that LPS priming of BMDM was required for efficient coupling of P2X7R to inflammasome activation and IL-1β export, we tested whether a similar requirement for LPS priming characterized the activation of secretory lysosome exocytosis by ATP. Notably, non-LPS-primed BMDM secreted only a minimal amount of cathepsin B and no active caspase-1 in response to ATP stimulation (Fig. 3A). The coupling of P2X7R to inflammasome activation could be observed within 30 min of LPS priming, as indicated by the ATP-stimulated accumulation of intracellular caspase-1 p10. Similarly, an increase in ATP-elicited cathepsin B release was apparent within 30 min after initiation of LPS priming. In cells primed with LPS for longer durations (1 or 4 h), the ATP-stimulated release of both active caspase-1 and cathepsin B was further increased in a coordinated manner. In the absence of ATP stimulation, even 4 h of LPS priming alone did not result in inflammasome activation, IL-1β secretion, or cathepsin B release. Furthermore, the ability of LPS to potentiate ATP-dependent caspase-1 activation and secretory lysosome exocytosis occurred before significant expression of pro-IL-1β protein. These observations indicate that LPS priming provides a necessary and common signal(s) for efficient coupling of P2X7R to exocytosis of secretory lysosomes as well as inflammasome activation.

Other experiments tested whether de novo protein synthesis or maintained synthesis of rapid turnover proteins was necessary for P2X7R-dependent inflammasome activation and P2X7R-activated lysosome exocytosis. Pretreatment of cells with the protein synthesis inhibitor cycloheximide, the proteasome inhibitor MG132, or the 1α-X kinase inhibitor Bay 11-7085 before LPS priming completely repressed not only intracellular pro-IL-1β accumulation, but the P2X7R-induced activation of the caspase-1 inflammasome. As indicated in Fig. 3, B and C, these three inhibitors similarly repressed the correlated lysosomal protein secretion, but did not change the expression levels of procaspase-1 or cathepsin B. The expression of P2X7R and LAMP-1 protein, as well as P2X7R channel function, was not altered in cells treated with these pharmacological reagents (data not shown).

**ASC, active caspase-1, and pannexin-1 (Px1) are required for IL-1β secretion, but not secretory lysosome exocytosis stimulated by P2X7R**

The adaptor protein ASC, which is essential for assembly of caspase-1 inflammasome complexes, is also coreleased with caspase-1 and IL-1β (10) (Fig. 5B). This suggests that the entire inflammasome complex is copackaged and released as a unit with its IL-1β product from ATP-stimulated cells. We used BMDM from ASC-null mice to test whether ASC was also required for the P2X7R-regulated exocytosis of secretory lysosomes, which coincided with IL-1β secretion. Fig. 4A shows that ASC−/− BMDM were completely deficient in ATP-induced activation of inflammasome complexes as well as the coupled release of mature IL-1β and active caspase-1. However, release of the soluble
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In our Department of Laboratory Medicine at Kantonsspitale Aarau (570 beds, tertiary care center for a population of 600,000) the tenured position of a head for the Immunology Section is available per October 1, 2007.

Requirements:

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- Experience in clinical flowcytometry and stem cell processing
- Strong interest in research projects
- Support of clinicians in management of patients with immune diseases

Send applications or further inquiries to:
A.R. Huber, M.D., Professor and Chairman
Dept. of Laboratory Medicine, Kantonsspital Aarau AG
CH-5001 Aarau, Switzerland
Phone: +41 62 838 53 02
Fax: +41 62 838 53 99

www.ksa.ch

UNIVERSITY OF SOUTHERN CALIFORNIA
Keck School of Medicine

MELANOMA ONCOLOGIST

The USC/Norris Comprehensive Cancer Center and the Department of Medicine of the Keck School of Medicine at the University of Southern California (USC) seek an outstanding physician (M.D. or M.D./Ph.D.) to join the Division of Cancer Medicine and Blood Diseases. We are seeking candidates with a successful track record in patient care and clinical/translational research in melanoma (especially with a focus on immunotherapy). The successful candidate will be nominated for the Lucy and Berle Adams Chair and recommended for appointment as Associate or Full Professor. We offer a highly competitive salary package with excellent benefits, outstanding infrastructural research support and high quality laboratory space in the new 175,000 sq ft Harlyne Norris Research Tower.

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Please send letter of interest and curriculum vitae to:

Search Committee—Lucy and Berle Adams Chair
Division of Cancer Medicine and Blood Diseases
USC/Norris Comprehensive Cancer Center
University of Southern California
1441 Eastlake Ave., #3454
Los Angeles, CA 90033
Attn: Dianne Moody
(e-mail: dmoody@usc.edu)

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New Humanized Rodent Models Workshop
Merriott Ballroom - Prince Hill, Bethesda, MD
September 24, 2007

Confirmed speakers and moderators include:

- Mark Goldblatt
- Lin-Man Su
- J. Victor Garcia Martinez
- Roberta Spect
- Piera Reaple
- Pern Ilwammers
- Rameez Adbin

This workshop organized by the Division of AIDS, National Institute of Allergy and Infectious Diseases. NIAID will include discussion of current status of rodent models, future plans, as well as potential use of the model for addressing critical issues in basic immune response studies, pathogenesis, therapeutics, vaccines and microbiota development.

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April 5–9 • San Diego, California

IMMUNOLOGY 2009™*
May 8–12 • Seattle, Washington

IMMUNOLOGY 2010™*
May 7–11 • Baltimore, Maryland

IMMUNOLOGY 2011™
TBD

IMMUNOLOGY 2012™*
May 4–8 • Boston, Massachusetts

* Represents an AAI “stand-alone” (all immunology) meeting
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