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**INSTRUCTIONS FOR AUTHORS**

**ASMR NSW Annual Scientific Meeting 2024**

**Abstract Guidelines**

**PLEASE NOTE THAT ONLY ONE ABSTRACT CAN BE SUBMITTED PER REGISTRATION**

**Presentations**

Please indicate presentation preference in the application form below. Presentation preference will be accommodated where possible. However, in lodging an abstract submission the author accepts the presentation style allocated by the Programming Committee.

Presentation types:

* ***Alan Skyring Memorial Award Presentation****: 8-minute presentation + 2-minute discussion.*
* ***Oral presentation****: 8-minute presentation + 2-minute discussion or 3-minute presentation +1 minute discussion*
* ***Poster presentation****: Posters must be standard A0 size in portrait orientation, including title, authors, institute, text and data. Posters must be readable from a distance of 1.5 metres. Presenters are expected to stand by their posters and answer questions during the allocated times.*

Authors will be notified by email of abstract acceptance and type of presentation.

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**Eligibility for Awards**

**You must be an ASMR member or have applied for membership by 20th of June 2024 to be considered for any of the awards (join online** [here](https://asmr.org.au/membership-application/)).

1. **Alan Skyring Memorial Award:** Finalists will be expected to give an **ORAL** presentation. You must be a Mid-Career Researcher (5-12 years post-PhD). A **TWO**-page CV, including publications, awards received and contributions to the community as well as a supporting statement should be provided on abstract submission. Applicants not adhering to these guidelines will NOT be considered for this award. Winner will receive a $1000 prize.
2. **Early Career Researcher 8 min Presentation Award:** Open to Early Career Researchers (within 5 years of receiving their PhD) who are ASMR members. Winner will receive a $250 prize.
3. **Early Career Researcher 3 min Presentation Award:** Open to Early Career Researchers (within 5 years of receiving their PhD) who are ASMR members. Winner will receive a $200 prize.
4. **Early Career Researcher Poster Presentation Award:** Open to Early Career Researchers (within 5 years of receiving their PhD) who are ASMR members. Winner will receive a $150 prize.
5. **PhD 8 min presentation award:** Open to PhD students who are ASMR members. Winner will receive a $250 prize.
6. **PhD 3 min presentation award:** Open to PhD students who are ASMR members. Winner will receive a $200 prize.
7. **PhD Poster Presentation Award:** Open to PhD students who are ASMR members. Winner will receive a $150 prize.

Awards will be judged by a panel of Senior Scientists for the clarity of presentation, the quality of data, relevance to hypothesis and demonstration of understanding of the importance to health.

**INSTRUCTIONS TO AUTHORS**

All abstracts are to be uploaded online at time of Registration, using the document template on page 5.

Abstract submissions extended to **5pm on Friday, 24 May 2024**

All registration details, including online registration are available online through the website <https://asmr.org.au/asmr-mrw/nsw/>

To submit an abstract please complete the following templates (pages 6, 7 and 8). Please **DO NOT change margins or text formatting in any way.**

**Abstract preparation:**

* Please use the abstract template below. **DO NOT** **CHANGE** margins, spacing or text formatting.
* Font to be used is Arial 11 pt, with 1.15 line spacing.
* The **title** of the abstract is **limited to 20 words**.
* Author names should be under the title, with the name of the presenting author underlined
* Affiliations should be under the author names and listed in the order of “Department, Institute, City, State and Country
* **Abstract is limited to 300 words** (not including title, authors, affiliations and keywords). Please also include 5 keywords describing your research
* Files should be saved as a Word document with the **first author’s last name, first initial and presentation preference separated by underscores**as the file name, e.g. Smith\_J\_Poster.doc

**If applying for the Alan Skyring Memorial Award you must email the separate application to katriona@asmr.org.au**

All enquiries regarding abstract submission should be emailed to Andie Thorpe.

**Select a preferred presentation format;**

[x]  8-minute presentation + Q&A

[ ]  3-minute presentation + Q&A

[ ]  Poster presentation

**PLEASE NOTE: YOU MUST BE AN ASMR MEMBER OR HAVE APPLIED FOR MEMBERSHIP BY 20th of June 2024 TO BE CONSIDERED**

**FOR ANY OF THE AWARDS**

**Please select any awards you wish your abstract to be considered for**

***\*\*\* Please complete the separate application and email to katriona@asmr.org.au to be considered for the Alan Skyring Memorial Award.***

[ ]  Alan Skyring Memorial Award (5-12 years post-doctoral)\*\*\*

[ ]  Most outstanding Early Career Researcher Award (≤ 5 years post-doctoral)

[ ]  8 min presentation

[ ]  3 min presentation

[ ]  Poster presentation

[x]  PhD Student Award

[x]  8 min presentation

[ ]  3 min presentation

[ ]  Poster presentation

**Please nominate 1-2 subject areas relevant to your submitted abstract:**

|  |  |
| --- | --- |
| [ ]  Physiology [ ]  Reproductive and developmental biology [ ]  Cell biology[x]  Biotechnology [ ]  Molecular biology[ ]  Psychology[ ]  Animal models[ ]  Nutrition | [ ]  Biochemistry [ ]  Immunology[ ]  Clinical research[x]  Genetic, epigenetic or small RNAs[ ]  Pathology[ ]  Dentistry[ ]  Other (please specify):  |

**The effect of smoking on TSLP expression in the human lung**

Authors: Manav Sharma1, Senani N.H. Rathnayake1,2,3, Corry-Anke Brandsma3, Brian G.G. Oliver1,2, Wim Timens3, Ian Adcock4, Martijn Nawjin3, Irene H. Heijink3, Maarten van den Berge3 and Alen Faiz1,3

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**Keywords:** COPD, TSLP, single-cell sequencing, anti-TSLP, biologics

**Career Stage:** PhD.

**Introduction**: TSLP is a proinflammatory alarmin cytokine that has been found to play a role in the development of both asthma and COPD. TSLP has been the target of therapeutic treatment of asthma and COPD through the anti-TSLP antibody and is currently in phase 2 clinical trials. However, in previous clinical trials in COPD, a similar alarmin-based antibody, anti-IL-33, was shown to be effective in ex-smokers but not in current smokers. We found that this was due to the lower expression of IL-33 in a specific sub-population of basal cells, resting basal, which was lower in current smokers.

**Objective**: We hypothesise that TSLP has a similar profile to IL-33, therefore, the study aims to determine the expression profile of TSLP with varying smoking status.

**Methods and Results**: We investigated TSLP expression in in-vitro single-cell RNA sequencing datasets and in bulk RNA sequencing datasets. TSLP was primarily expressed in resting basal cells with little to no expression in other cell types in the Human Lung Cell Atlas. In single-cell sequencing datasets, we found that TSLP expression was again limited to resting basal cells and that expression decreased during differentiation. Looking at the bulk RNA sequencing data, we saw that TSLP expression was lower in current smokers than in ex-smoker and never-smokers.

**Conclusions**: We found that TSLP had a similar expression profile to IL-33 and was limited to resting basal cells. We also saw that TSLP expression was reduced in current smokers compared to ex-smokers or never-smokers.