



# The Australian Society for Medical Research NSW Scientific Meeting 2008 - Registration Form

**Date:** Monday, June 2nd, 2008  
**Venue:** Powerhouse Museum  
*Harris Street, Ultimo*  
**Time:** 8:30am – 5:00pm (Registration from 8.00am)  
**Deadline:** Abstracts and Earlybird Registration: **Wednesday, April 30, 2008**

*Registration includes: Morning and Afternoon Tea, Buffet Lunch and Abstract Book.*

**TO REGISTER:**

Please return this form with payment details, Media Disclaimer and Abstract Certification to:  
 The ASMR, 145 Macquarie St, Sydney 2000 NSW  
 FAX 02 9252 0294 or register and submit online at <http://www.asmrfiles.org.au/register/>

**ARE YOU SUBMITTING AN ABSTRACT?** Yes  No

**SEND AN EMAIL MESSAGE CONTAINING THE FOLLOWING INFORMATION:**

- Presenting Author
- Preferred type of presentation - ORAL, POSTER or NO PREFERENCE
- If you are nominating for a prize and you are eligible\*, which prize/s?  
 TECHNICAL, STUDENT or POST-DOCTORAL (PhD awarded after 2002)

then **ATTACH YOUR ABSTRACT** and send to Dr Louise Dunn <dunnl@hri.org.au>

by: **Wednesday, April 30, 2008**

**\*TO BE CONSIDERED FOR THE TECHNICAL, STUDENT OR POST-DOCTORAL PRIZES** (PhD awarded after 2002), you must be a member of the ASMR or have applied for membership (forms available at [www.asmr.org.au/membership.html](http://www.asmr.org.au/membership.html)) and agree to media participation. Enquiries: Dr Louise Dunn <dunnl@hri.org.au> or Dr Jose Perdomo <j.perdomo@unsw.edu.au>

**TAX INVOICE WHEN COMPLETED**

Name:.....

Address:.....

Telephone:.....Facsimile:.....Email:.....

I enclose fees for:   Members - \$85 (\$105 after April 30)         \$.....  
                               Student Members - \$55 (\$75 after April 30)     \$.....  
                               Non-Members - \$90 (\$130 after April 30)     \$.....

I will be attending the Post-Conference Cocktail Party - \$25     \$.....

**TOTAL AMOUNT**     \$.....

*All fees include GST*

*Please tick if you require a receipt at registration*

Supervisor's name and signature if applying for student rate.....

**Payment by cheque payable to ASMR is enclosed, or please charge my credit card:**

Mastercard                       Visa                       (please tick)

No.             

Expiry Date.....

Cardholder's Signature.....                      Name: (if different to registrant).....



# The Australian Society for Medical Research NSW Scientific Meeting 2008 Instructions for Preparation of Abstracts

The selection of contributions for scientific sessions will depend on the quality of the abstract submitted. Authors may be presenting author on one communication only.

## Size and Presentation

Abstracts must be submitted in portrait format on an A4 sheet with the top and left and right hand margin all four-cm. The length of the abstract should be a maximum of 18 cm. Minimum of 11-point type with single line spacing for the text.

- Format:** As illustrated below.  
**Title:** Upper case.  
**Authors:** New line in lower case and underline name of presenting Author.  
**Addresses:** In the order "Department, Institute, State, Post code", *eg* Department of Biochemistry, University of Sydney, NSW, 2008  
**Text:** Indent paragraphs three spaces. The text should be as informative as possible, within the limitations of the space available.

**INSTRUCTIONS FOR CONTENT OF ABSTRACT:** The abstract should be informative and contain: (a) aim of study; (b) a brief description of methods used; (c) summary of results, and (d) conclusions. Tables and Figures are permitted within the space allocated.

**GENERAL INSTRUCTIONS:** Your Abstract should be saved as a Word document with the file name [lastname]\_[Initial].doc and uploaded according to instructions if submitting online, or sent to **Dr Louise Dunn**, [dunnl@hri.org.au](mailto:dunnl@hri.org.au), along with the name of the presenting author, any prize/s you wish to apply for (if eligible) and the preferred type of presentation: oral, poster, no preference. The number of oral presentations is limited. Do not send abstracts by facsimile.

## THE ZINC BUNDLE: A NOVEL ZINC FINGER DOMAIN THAT MEDIATES PROTEIN-PROTEIN INTERACTIONS

Anthea Newton, Belinda Sharpe, Ann Kwan, Joel Mackay and Merlin Crossley  
Department of Biochemistry, University of Sydney, NSW 2008, Australia.

CREB-binding protein (CBP) was first isolated as a coactivator of the phosphorylated form of the transcription factor CREB. Once recruited to promoters and enhancers by physically associating with DNA-bound CREB, CBP is thought to alter chromatin structure by acetylating histones and in this way to activate gene expression. Interestingly, in addition to binding CREB, CBP has recently been found to interact with an extensive group of other transcriptional regulators. In the majority of cases, the interactions are mediated by CBP's cysteine/histidine rich domains one and three (CH1 and CH3) (see Figure). Little is known about the molecular nature of these domains, but since they are rich in zinc chelating residues, we reasoned that CH1 and CH3 may be novel zinc binding modules. Cross species sequence alignments showed that both CH1 and CH3 contain Cys-X<sub>4</sub>-Cys-X<sub>8</sub>-His-X<sub>3</sub>-Cys motifs. We term this motif a zinc bundle. In order to determine whether zinc bundles can act as mediators of protein-protein interactions, we performed a yeast two-hybrid screen against the bundle domain of CH1. We identified three protein partners: the hypoxia induced transcription factor Hif-1a, NF-kBp65 which is critical in the regulation of gene expression in response inflammatory stimuli and Mrg1, a cytokine inducible transcription factor with transforming activity. To determine if these protein-protein interactions were dependent on zinc bundle formation, we mutated the cysteine and histidine residues within CH1 and tested for interaction with either Hif-1a, NF-kB p65 or Mrg1. Our results show that Hif-1a and NF-kBp65 interact only with the intact zinc bundle domain while Mrg1 retained its ability to interact even when bundle formation is disrupted. Our results establish the zinc bundle as a new domain that mediates specific protein-protein interactions.

1. Newton, A.L., Sharpe, B.K., Kwan, A., Mackay, J.P., Crossley, M. The transactivation domain within the cysteine/histidine-rich region 1 of CBP comprises two novel zinc-binding modules. *J. Biol. Chem.* (in press).



The Australian Society for Medical Research  
NSW Scientific Meeting 2008  
Abstract Certification

We certify that:

- 1) The submitted abstract has been viewed by all authors and they agree to its content and to its presentation at the Australian Society for Medical Research (NSW) 2008 Scientific Meeting.
- 2) The presenting author has made a major\*/ minor\* contribution to the work presented and is\*/ is not\* eligible for a research award in his/her appropriate category.

\*delete accordingly

- 3) This submission is in accordance with NHMRC/AVCC guidelines and work reporting genetic manipulation, human and/or animal experimentation has appropriate institutional ethics approval.

Abstract Title: .....

Abstract Authors: .....

Presenting Author:

Print ..... Signature ..... Date .....

Supervisor\*, Unit Head\*, or Head of Department\*:

Print ..... Signature ..... Date .....

\*delete for appropriate identification



The Australian Society for Medical Research  
NSW Scientific Meeting 2008  
Media Disclaimer

As part of promoting ASMR Medical Research Week®, you may be interviewed by various media outlets regarding the work that you are presenting at this meeting. This may be the case whether you are an actual prize winner or not. We have included the following disclaimer which all presenters are required to sign.

To aid our Public Relations people please provide (i) a brief biography of no more than 50 words and (ii) a media-friendly paragraph of no more than 50 words describing the work presented.

Disclaimer:

I, the undersigned, agree to be interviewed by the media (radio, television or print) for the purposes of promoting ASMR Medical Research Week®, at or after the NSW ASMR Scientific Meeting, to be held on Monday June 2, 2008 (compulsory for registrants who wish to be considered for prizes)

.....

Print Name and Sign

.....

Date

i) Brief Biography

ii) Brief description of the work presented