



ASMR Medical Research Week®

# ASMR ACT Young Investigator Forum

**FREE REGISTRATION**

**Monday 2 June 2008 - The Canberra Hospital  
(ANU Medical School, Level 2, Building 4)**

**2.00 pm - 8.00 pm**

**Call for abstracts**

**ABSTRACT DEADLINE EXTENDED TO MAY 5 2008**

As part of ASMR Medical Research Week® there will be a student run ACT Young Investigator Forum with talks (10 mins + discussion) and posters presented by Students and Post-Doctoral Fellows.

Poster viewing will follow with wine and cheese.

A total of six prizes (\$500 each) will be awarded to students and post-doctoral fellows for oral and poster presentations. These include the **Young Tall Poppy Prize** and the **ASMR Young Investigator Prize**. Students and postdoctoral fellows need to be members of ASMR to be eligible for these two prizes

Please contact: [Jinglong.Chen@anu.edu.au](mailto:Jinglong.Chen@anu.edu.au)

**All ANU, UC and TCH Students and Staff are**

**Welcome to Participate.**

## ABSTRACT GUIDELINES

Your abstract should be submitted in the following format:

- Saved as a Word document
- 200 words **maximum**
- 12 point Times New Roman font size, title/authors/affiliation centre justified, text justified both left and right, 2cm margins.
  
- Title of your abstract in **bold font**
- Christian name first followed by initial then surname (eg Johnny B. Goode)
- Affiliations
- Email contact
- Centre justified

Please state if you prefer a poster or talk?

Please Email abstracts to: **Jinglong.Chen@anu.edu.au** by April 28

## SAMPLE ABSTRACT

### **Heparan Sulfate Mimetics as Inhibitors of Vascular Smooth Muscle Proliferation and Intimal Thickening After Balloon Injury**

Craig Freeman and Christopher R. Parish

Division of Immunology and Genetics, The John Curtin School of Medical Research, Australian National University, Canberra, ACT, 2601, Australia. Email: Craig.Freeman@anu.edu.au

The glycosaminoglycan, heparan sulfate (HS), plays a critical role in a wide range of biological processes. HS can present growth factors to their cell surface receptors and thereby facilitate angiogenesis, wound healing and tumour growth. HS is also a key component of the extracellular matrix (ECM) and the vascular basement membrane which function as barriers to cell invasion during tumour metastasis and inflammation. The selective blocking of the interaction of growth factors with cell surface HS or inhibition of the HS-degrading enzyme, heparanase, which is upregulated in invading cells and facilitates cell migration, thus represent novel ways of interfering with vascular remodeling and tumour development.

We have also produced a new series of HS-mimetics by cross-linking of sugars through their reducing termini with a range of spacer molecules and by synthesising linked pseudosugar-based oligosaccharides using a highly novel procedure. Preliminary structure/activity relationship studies have demonstrated some of the sulfated synthetic oligosaccharides have potent and selective inhibitory activity against heparanase, the HS-binding growth factors FGF-1, FGF-2, VEGF and HGF, and the chemokine IL-8. These new HS-mimetics represent potential second generation inhibitors of intimal thickening as well as new anti-angiogenic, anti-metastatic and anti-inflammatory drugs.

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 (ACT) 2008 Young Investigator Forum. 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
- 2) 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: .....

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Abstract Authors: .....

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Presenting Author:

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

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

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

\*delete for appropriate identification

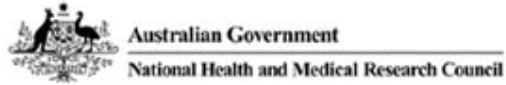
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