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*Today's date is Wednesday,  
July 13, 2016*

## SEMINAR: Bayliss Seminar Series

**Bayliss Seminar Series : Structural basis of collagen recognition by human osteoclast-associated receptor**

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With life expectancy on the rise, osteoporosis, the most common form of skeletal disease, is likely to pose a significant burden on both patients and healthcare infrastructure for the foreseeable future. Imbalances at the unique immunological niche of the bone marrow in osteoporosis, and diseases such as rheumatoid arthritis, leads to an increase in bone resorption by osteoclasts and increased bone fragility. Human osteoclast-associated receptor (OSCAR), an immunoglobulin (Ig)-like collagen receptor that is up-regulated on osteoclasts during osteoclastogenesis, may represent a promising therapeutic target for the control of bone resorption. As a member of the leukocyte receptor complex family of proteins, OSCAR shares a high degree of sequence and structural homology with other collagen receptors of this family, including glycoprotein VI, leukocyte-associated Ig-like receptor-1, and leukocyte Ig-like receptor B4, yet recognizes a unique collagen sequence; a feature which may aid in the design of specific therapeutics. In this talk I will present work carried out during my PhD into the characterisation of OSCAR binding to collagen using a triple-helical collagen-like peptide (CLP). Furthermore, I will discuss an investigation into the use of peptide matrikines as inhibitors of osteoclastogenesis in vitro.

**Speaker(s)** Joel Haywood, School of Chemistry and Biochemistry, UWA  
**Location** Bayliss Lecture Theatre G:33  
**Contact** <[admin-scb@uwa.edu.au](mailto:admin-scb@uwa.edu.au)>  
**Start** Fri, 22 Jul 2016 12:00  
**End** Fri, 22 Jul 2016 13:00  
**Submitted by** scbevents <[admin-scb@uwa.edu.au](mailto:admin-scb@uwa.edu.au)>  
**Last Updated** Tue, 12 Jul 2016 15:18

### Included in the following Calendars:

- [School of Chemistry and Biochemistry](#)
- [Faculty of Science](#)
- [School of Chemistry and Biochemistry Seminars](#)

**Additional Information:**

- Locations of venues on the Crawley and Nedlands campuses are available via the [Campus Maps](#) website.
- Download this event as: [Text](#) | [iCalendar](#)
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Plain Text

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