



Australian  
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# Genome reconstruction for metabolic and phylogenetic analyses of uncultivated bacterial and archaeal phyla

## Director's School Seminar Series

Tuesday 10 July 2012 1pm

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**Professor Jillian Banfield** Departments of Earth & Planetary Science and Environmental Science, Policy & Management, UC Berkeley

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**Slatyer Seminar Room** R N Robertson Building (#46), ANU



Jillian Banfield, an alumnus of ANU, is a Professor in the Departments of Earth and Planetary Science and Environmental Science, Policy, and Management at UC Berkeley and also holds an appointment in the geochemistry group at Lawrence Berkeley National Laboratory. Her group works on metagenomic (with an emphasis on genome recovery) and community proteomic analysis of natural microbial communities in systems such as acid mine drainage, sediments, Australian salt lakes and the premature human infant gut. Jill also works on the microbial dissolution and precipitation of minerals, the structure, properties, and reactivity of nanoparticles (many of which are formed by microorganisms), and microbial evolution.

For her research, Jill has been named a MacArthur "genius" fellow, a fellow of the National Academy of Sciences and an elected fellow of the American Academy of Microbiology and The Geochemical Society. She was awarded the 2011 Benjamin Franklin Medal in Earth and Environmental Science for discovering the underlying principles of mineral formation and alteration by microbes. In the same year, she received the L'Oréal-UNESCO "For Women in Science" award for her groundbreaking work on how microbes alter rocks and interact with the natural world.

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