UNIVERSITY OF GOTHENBURG

Ph.D. position in Molecular Biology/Functional Genomics

in

'Metal stress resistance in yeast'

Project description: The overall aim of the project is to understand how cells detect the presence of toxic substances in their surroundings and what protection mechanisms they launch to acquire resistance. Focus will be on the molecular mechanisms that controls cellular resistance to arsenite, tellurite as well as other heavy metals and metalloids. These processes will be studied using baker's yeast (*Saccharomyces cerevisiae*) as a model system to gain insight into how similar defense mechanisms may act in e.g. plants and human cells.

Competence: The project will expose the graduate student to a broad spectrum of research tasks and scientific questions that in turn requires a genuine interest in and knowledge of cell and molecular biology. The research will include methods within molecular biology, cell biology, functional genomics, chemical biology and biochemistry. Experience with such work as well as experience with yeast as a model system is considered an advantage.

Application: Send application, citing the **reference number B 311 4645/08** to Helena Bergkvist, University of Gothenburg, CMB/Microbiology, Box 462, S-405 30 Gothenburg, Sweden. Candidates should supply (1) their complete CV, (2) relevant testimonials and certificates, (3) letters of recommendation and/or names and contact details of two reference persons with knowledge about the applicant's previous experiences, and (4) a brief (max 1 A4-page) account of previous experiences and your motivation to apply for this position.

Closing date May 14, 2009

Contact information: Associate professor Markus J. Tamás, Phone: +46 31 786 2548; E-mail: markus.tamas@cmb.gu.se; Dr. Jonas Warringer, Phone: +46 31 786 2587; E-mail: jonas.warringer@cmb.gu.se

CMB offers state-of-the-art facilities for interdisciplinary research in molecular biology, bringing together a broad range of expertise in genetics, cell biology, biochemistry and microbiology using genetic model organisms including *E. coli*, *S. cerevisiae*, *C. elegans*, *Arabidopsis* and mammals. The candidate will have full access to in-house facilities and resources for yeast research, including the *S. cerevisiae* mutant collections, yeast gene arrays, confocal scanner, peptide sequencer, phosphorimager, high throughput phenotypic profiler, and a fluorescence two-photon confocal microscope. For more information about CMB, please visit http://www.cmb.gu.se