

**Postdoctoral Position Announcement at the Karolinska Institutet  
at Integrative Physiology;  
Department of Molecular Medicine and Surgery**

Project Title (focus): Examining Insulin Resistance in Human Skeletal Muscle Cells

The integrative physiology research team at Karolinska Institutet is recruiting a highly motivated postdoctoral fellow for the study of Type 2 diabetes and drug target identification. Our current focus is to identify the underlying cellular and molecular mechanisms responsible for insulin resistance and Type 2 diabetes. Thus, we will direct our research toward the discovery of new signaling pathways in substrate metabolism using a highly unique and well-established cell culture system of human skeletal muscle cells.

The overall aim is to identify new targets for insulin action and candidate proteins involved in insulin resistance. To this end, the postdoctoral fellow will work with primary human cell cultures derived from skeletal muscle biopsies from healthy and diabetic subjects. The fellow will have the opportunity to utilize techniques including metabolic readout technologies and knock-down or over-expression of specific genes, and the possibility to develop necessary assays and quality control procedures to address pertinent research questions. The fellow will collaborate within the integrative physiology team and with international collaborators. In addition, the fellow will also have the opportunity to gain personal research independence through experimental innovation as well as through the assistance and supervision of post-graduate students.

The post-doctoral candidate should have a strong background in cell culturing, good laboratory skills, and proficient knowledge of metabolic and biochemical reactions and pathways.

The position is a full-time, 1-2 years starting October 1<sup>st</sup> 2010. The application deadline is on the 13<sup>th</sup> of August 2010.

Interested applicants should send the following information via e-mail as electronic attachment: a cover letter that includes a statement of research interests, expertise and availability and a CV, including a list of three references complete with contact information.

Questions about the position should be directed to:

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