



UNIVERSITY OF  
GOTHENBURG

Department of Medical Biochemistry and Cell Biology  
Sahlgrenska Academy  
University of Gothenburg

## 3 month stipend to study the Biogenesis of mitochondrially encoded proteins



We are seeking a highly motivated and talented student to join our new group at the Department of Medical Biochemistry and Cell Biology at Sahlgrenska Academy, Gothenburg University, Sweden.

Mitochondria convert chemical energy into ATP by utilizing a system of molecular machines, the respiratory chain complexes. The complexes driving oxidative phosphorylation are a mosaic of proteins encoded by the nuclear and the mitochondrial DNA. Therefore, assembly of the respiratory chain and the ATPase requires not only expression and import of many nuclear encoded proteins but also synthesis of mitochondrially encoded proteins. The mitochondrial genetic system is responsible for replication and transcription of the mitochondrial genome and for the synthesis of a few polypeptides by organelle-specific ribosomes. Dysfunction of these processes underlies many human disorders and aging. It is therefore surprising that so little is known about how mitochondrial protein synthesis and how the proteins are assembled into complexes. In the frame of a five-year project funded by the Knut and Alice Wallenberg Foundation, we aim to unravel the fundamental molecular mechanisms of mitochondrial protein synthesis, its regulation and connection to respiratory chain assembly. We will employ a wide array of methodology including yeast genetics, human cell culture, biochemistry, and structural biology.

Successful applicants would have a master in biochemistry, molecular biology or a related field. The stipend will be for 3 month. Please submit no later than January 24 a cover letter stating your research interests, *curriculum vitae* research experience merged into a **single pdf file** to [martin.ott@gu.se](mailto:martin.ott@gu.se)

If you have further questions, please contact:

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*Knut och Alice  
Wallenbergs  
Stiftelse*