

Postdoctoral Researcher in cellular and molecular immunology

Department of Medicine, Solna, Clinical Immunology and Allergy section

The Department of Medicine, Solna, is one of the largest departments at Karolinska Institutet. The department consists of several units that are separated into different research groups. The core activities of the department are research, doctoral education and undergraduate education for medical and biomedical students. The research has three main profiles: allergy, cardiovascular medicine and inflammatory diseases.

Position

A position is now open for a highly motivated postdoctoral fellow with strong interest in cellular and molecular immunology. The successful candidate will join a new enthusiastic team led by Dr. Taras Kreslavsky in the Department of Medicine, Solna of Karolinska Institute (Stockholm, Sweden). The focus of the group is on transcriptional regulation of innate and adaptive immune responses. Funding for the position is secured, but the successful candidate will be encouraged to apply for fellowships.

Entry requirements

PhD in biological or biomedical sciences. The candidate should be passionate about science and have a strong background in immunology or molecular and cellular biology. The preferable starting time is Summer 2018, but earlier or later starting dates can be discussed. The research program will be shaped to take into account interests of the candidate.

A person is eligible for a position as Postdoctoral Researcher if he or she has obtained a PhD no more than seven years before the last date of employment as postdoc. The term can be extended under special circumstances.

Application process

An employment application must contain the following documents in English or Swedish:

1. A scientific vision letter (no more than one page)
2. A complete curriculum vitae, including date of the thesis defence, title of the thesis, previous academic positions, academic title, current position, academic distinctions, and committee work
3. A complete list of publications
4. Verifications for crediting of illness, military service, work for labour unions or student organisations, parental leave or similar circumstances

Environment

Stockholm is a vibrant international megapolis with one of the highest quality of living standards in the world. Virtually everyone in Stockholm can speak English and English is the working language of the group. The Karolinska Institute is one of the centers of excellence for biomedical research in the world (ranked as 7th in the world in Life Sciences and Medicine by QS World University Ranking). It possesses cutting edge infrastructure including facilities for flow cytometry, microscopy, NGS-sequencing (the institute is one of the world leaders in single cell RNA-Seq) and transgenic technologies.

Selected publications of the PI

Kreslavsky T., B Vilagos, H. Tagoh, D.K. Poliakova, T.A. Schwickert, M. Wohner, M. Jaritz, S. Weiss, R. Taneja, M.J. Rossner, and M. Busslinger. 2017. Essential role for the transcription factor Bhlhe41 in regulating the development, self-renewal and BCR repertoire of B-1a cells. *Nat Immunol* 18:442-455.

Kim H.-J., R.A. Barnitz, T. Kreslavsky, F.D. Brown, H. Moffett, M.E. Lamieux, Y. Kaygusuz, T. Meissner, T.A.W. Holderried, S. Chan, P. Kastner, W.N. Haining, and H. Cantor. 2015. Stable inhibitory activity of regulatory T cells requires the transcription factor Helios. *Science* 350(6258): p. 334-339.

Kreslavsky T., H.-J. Kim, S.B. Koralov, D. Ghitza, T. Buch, H. Cantor, K. Rajewsky, H. von Boehmer. 2013. Negative selection, not receptor editing, is a physiological response of autoreactive thymocytes. *J Exp Med* 210:1911-1918.

Mingueneau, M.*, **T. Kreslavsky***, D. Gray*, T. Heng*, R. Cruse, J. Ericson, S. Bendall, M.H. Spitzer, G.P. Nolan, K. Kobayashi, H. von Boehmer, D. Mathis, and C. Benoist. 2013. The transcriptional landscape of β T cell differentiation. *Nat Immunol* 14:619-632. (* - equal contribution)

Kreslavsky, T., M. Gleimer, M. Miyazaki, Y. Choi, E. Gagnon, C. Murre, P. Sicinski, and H. von Boehmer. 2012. β -Selection-induced proliferation is required for β T cell differentiation. *Immunity* 37:840-853.

Gleimer, M., H. von Boehmer, and **T. Kreslavsky**. 2012. PLZF Controls the Expression of a Limited Number of Genes Essential for NKT Cell Function. *Frontiers in immunology* 3:374.

Kreslavsky, T., A.K. Savage, R. Hobbs, F. Gounari, R. Bronson, P. Pereira, P.P. Pandolfi, A. Bendelac, and H. von Boehmer. 2009. TCR-inducible PLZF transcription factor required for innate phenotype of a subset of T cells with restricted TCR diversity. *Proc Natl Acad Sci U S A* 106:12453-12458.

Kreslavsky, T., A.I. Garbe, A. Krueger, and H. von Boehmer. 2008. T cell receptor-instructed $\alpha\beta$ versus lineage commitment revealed by single-cell analysis. *J Exp Med* 205:1173-1186.

The application is to be submitted through the Varbi recruitment system.

Karolinska Institutet is one of the world's leading medical universities. Its vision is to significantly contribute to the improvement of human health. Karolinska Institutet accounts for the single largest share of all academic medical research conducted in Sweden and offers the country's broadest range of education in medicine and health sciences. The Nobel Assembly at Karolinska Institutet selects the Nobel laureates in Physiology or Medicine.

Pursuant to the regulations of the Swedish National Archives, applications are kept on file for two years after the appointment has gained legal force. The regulations do not apply to attachments that have been printed or otherwise published.

Karolinska Institutet strives to provide a workplace that has approximately the same number of women and men, is free of discrimination and offers equal opportunity to everyone.

For temp agencies and recruiters, and to salespersons: We politely, yet firmly, decline direct contact with temp agencies and recruiters, as well as those selling additional job announcements.

Type of employment	Temporary position longer than 6 months
Contract type	Full time
Number of positions	1
Working hours	100%
City	Solna
County	Stockholms län
Country	Sweden
Reference number	2-320/2018
Contact	Taras Kreslavsky taras.kreslavskiy@ki.se
Union representative	Lars Ährlund-Richter, SACO 08 - 5177 34 50, lars.ahrlund@ki.se Nasrin Bavand 08-517 723 64
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Last application date	2018-02-28
Link to ad	http://ki.varbi.com/what:job/jobID:188605/