The Department of Experimental Pathology at University of Bonn Medical School, invites candidates for a PhD position: Acting way of PARK2 and PACRG in the progression of clear cell renal cell carcinoma

Down-regulation of PARK2 and PACRG is a common event in clear cell renal cell carcinoma (ccRCC). PARK2 and PACRG act as E3-ubiquitin ligases and accumulate at microtubule as aggreasomes. They are involved in the autophagy and mitophagy. A low level of both genes was associated with a poor prognosis and shorter survival in patients with ccRCC (Toma et al. Genes, Chromosomes and Cancer 2013). The aim of this project is highlighting the functions of PARK2 and PACRG in ccRCC. First we will generate cell lines with a stable expression of PARK2 and PACRG, followed by functional analysis and knock-down analysis. A special attention will have the role of PARK2 and PACRG in the microtubuli stabilization, in the mitophagy and autophagy. This will give us insight into the molecular dynamics of the ccRCC and enables us to understand the necessary genetic milestones in the progression of renal cancer.

Your profile:
Highly motivated student with a degree in Biology, Biomedicine, Biochemistry or similar, who has hands-on experience with cell culture and lentiviral techniques. Team player, autonomous working and good communication skills are essential.

The position is available immediately for three years. Interested candidates should apply via email with curriculum vitae, copies of university degrees with academic records, contact information and names of three referees.

The Department of Experimental Pathology is located within the Institute of Pathology. We offer state-of-the-art research, in house mouse facilities and a highly interactive and stimulating environment. Salary is according to TV-L EG 13 (65%).

The University of Bonn is an equal opportunity employer.

Contact information
Further information and applications until August 30, 2017:

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Please refer to the application number 311_2017.