



ERC funded 4-5 year Post Doc Positions to study mRNA translation control mechanisms in human cardiac development and disease

Position #A- Fully funded position for 4-5 years: Proven expertise in eukaryotic mRNA translation regulation, including Ribo-seq and eCLIP-seq data analysis, with at least one first author high-quality publication with a Ph.D. in Biological Sciences. Experience in working with human pluripotent stem cell-based differentiation models and genome editing is advantageous.

Position #B- Fully funded position for 4-5 years: Proven expertise in studying molecular mechanisms regulating embryonic cardiac development using human pluripotent stem cell-based differentiation and organoid models with at least one first author high-quality publication with a Ph.D. in Biological Sciences. Experience in conducting pooled CRISPR screens is highly advantageous. Expertise or keen interest in system biology, including transcriptomic and proteomics data analysis, is desirable.

What we offer: Opportunity and support to develop own independent academic career. Stable long-term funding and state-of-the-art resources to conduct cutting edge research in RNA biology using human pluripotent stem cell-based models. Competitive salary, benefits, and family-friendly work culture. Possibility to work closely with startups. Possibility for spin-offs in collaboration with our industry partners.

Our Research Focus: We study the RNA regulatory principles that govern cell fate and identity during human cardiac development, homeostasis, and pathomechanisms of cardiac diseases. We employ pluripotent stem cells and cell fate engineering (2D differentiation and organoid models) in combination with systems biology and genome editing approaches to reconstruct and investigate human cardiac development and disease. Our long-term mission is to gain a systems-level understanding of the RNA regulatory principles that shape the self-organization and homeostasis of tissue and organs in humans to develop therapeutic solutions for tissue/ organ regeneration.
www.kurianlab.com

1. <https://www.biorxiv.org/content/10.1101/2021.04.12.439420v3>
2. Frank S,Kurian L, Cell Stem Cell. 2019 Feb 7;24(2):318-327.e8.
3. Kurian et al Nature, 2011

How to apply: Please submit your application as a single PDF file that includes:

- (i) 1-2 page research proposal demonstrating your interest in RNA regulatory mechanisms controlling cell identity
CV (including a list of publications, extra-curricular activities, and the contact details (e-mail address and phone number) of 2-3 academic referees.
Submit the application to [leo\(dot\)kurian\(at\)uni-koeln.de](mailto:leo(dot)kurian(at)uni-koeln.de).

Women and persons from underrepresented groups will be given priority when equally qualified.

