STEFAN MUNDLOS

Field Leader Genetics & Rare Diseases | Nominee Voting Member

Scientific Development/ CV:
MD, specialization in Pedatrics and Human Genetics
postdoc time in Melbourne and Boston Harvard University
Head of Developmental Genetics in Heidelberg
Since 2000 head of Insitute for Medical and Human Genetics, Charité and group leader Development & Disease at MPI for molecular genetics

Expertise:
Human genetics, genomics, diagnostics of genetic disease
Gene regulation, epigenetics, chromatin folding
Development of the skeleton, bone homeostasis, growth

Relevant Projects/ Highlights:
Development of new test systems for genetic disease (whole exome sequencing in diagnostics, novel algorithms for variant interpretation, phenotype digitization)
Role of non-coding genome in genetic disease
3D chromatin folding in development and disease

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Development of BCRT as a role model for Charité/BIH in translation of excellent science
Tight connection of basic research with clinical applications
Balance of technology hub, excellent science and translational efforts
To reach this goal BCRT has to grow and focus
GOAL: Center for personalized therapies and „hopeless“ cases
Important aspects:
Establishment of additional professorships in the areas of:
Stem cell biology
Cell therapy
Gene therapy
Support these three topics with strong expertise in:
Cell biology and mechanics
Immunology
Molecular biology/engineering
Genomics and gene regulation