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Biomolecular Data Science in Pneumology

The Data Science group at Research Center Borstel, Leibniz Lung Center performs cutting-edge research on data generated by novel biomolecular technologies to address questions in pneumology. Towards this, we use computational methods on biological high-throughput data, so called OMICS data, to gain insights into molecular relationships underlying phenotypic traits and diseases. Focus thereby lies on bioinformatic analyses of next-generation sequencing-based genomics and transcriptomics data. Data, methodology and their applications in pneumology are combined through interdisciplinary collaboration with computer scientists, mathematicians, biologists and physicians. Further, the group harmonizes, administrates and extends a center-wide high-performance computing infrastructure and is currently setting up an accompanying center-wide FAIR (Findable, Accessible, Interoperable, Reusable) OMICS research data management.

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Keywords

group profile
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