



Autumn School

Spatial Transcriptomics Data Analysis

Munich, November 12th & 14th

Key Information

Location: The autumn school will be hosted with the MDSI at the Campus Garching.

Format: The autumn school will be a hands-on format, with talks and lectures in the morning and hands-on mini-project work in the afternoon.

Content: We will cover the entire analysis pipeline, from data acquisition, raw data analysis to advanced multi-OMICS data integration techniques. We will invite internationally renowned keynote speakers as well as tool developers to guide you through the process with the latest tools and approaches.

Contact: For more information, please contact Markus List: markus.list@tum.de

Tentative Program

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| Day 1 | Topics Covered: <ul style="list-style-type: none">- Data acquisition- Data pre-processing- Data standards and data pre-processing Hands-On: <ul style="list-style-type: none">- From raw data to input data |
| Day 2 | Topics Covered: <ul style="list-style-type: none">- Best practices of spatial transcriptomics analysis- Cell type deconvolution & Segmantation- Generating biological and clinical insights Hands-On: <ul style="list-style-type: none">- Comparative insight analysis from different pipelines |
| Day 3 | Topics Covered: <ul style="list-style-type: none">- Advanced analysis, data integration- Multi-OMICS matrix factorization- Spatial Transcriptomics in combination with single cell sequencing- Cell fate analysis Hands-On: <ul style="list-style-type: none">- Final project with different analyses |

