

Deep Dive into Case Studies part I: From Systems Immunology to Novel Therapeutic Insights – E. de Rinaldis

1. Personalized Immunomonitoring Uncovers Molecular Networks that Stratify Lupus Patients <https://www.ncbi.nlm.nih.gov/pubmed/27040498>
 2. Genetics of rheumatoid arthritis contributes to biology and drug discovery <https://www.ncbi.nlm.nih.gov/pubmed/24390342>
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Spatial Biology Methods and Analytics for Immunology and Oncology – G. Gaglia

1. Tertiary lymphoid structures generate and propagate anti-tumor antibody-producing plasma cells in renal cell cancer. <https://www.sciencedirect.com/science/article/pii/S1074761322000814>
 2. Lymphocyte networks are dynamic cellular communities in the immunoregulatory landscape of lung adenocarcinoma <https://www.sciencedirect.com/science/article/pii/S1535610823000880>
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Artificial Intelligence – A Primer for Immunologists – S. Khader

1. Efficient evolution of human antibodies from general protein language models <https://pubmed.ncbi.nlm.nih.gov/37095349/>
 2. The role of machine learning in clinical research: transforming the future of evidence generation <https://pubmed.ncbi.nlm.nih.gov/34399832/>
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Interactive Data Analysis Session – M. Fontes

The session use the results and data from

1. "TGFβ attenuates tumour response to PD-L1 blockade by contributing to exclusion of T cells" <https://www.nature.com/articles/nature25501>

We will also compare with results from

1. “Tertiary lymphoid structures marker CXCL13 is associated with better survival for patients with advanced-stage bladder cancer treated with immunotherapy” <https://www.sciencedirect.com/science/article/abs/pii/S0959804921000678>

2. "Meta-analysis of tumor- and T cell-intrinsic mechanisms of sensitization to checkpoint inhibition" <https://www.sciencedirect.com/science/article/pii/S0092867421000027>
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Reviews for Reference:

1. Applications of single-cell RNA sequencing in drug discovery and development - <https://www.nature.com/articles/s41573-023-00688-4>
2. A guide to systems-level immunomics - <https://www.nature.com/articles/s41590-022-01309-9>
3. Sepsis in the era of data-driven medicine: personalizing risks, diagnoses, treatments and prognoses
<https://pubmed.ncbi.nlm.nih.gov/31190075/>