

Joshua Waterfall, PhD performed his PhD studies in the Physics department at Cornell University, followed by a postdoc in Molecular Biology and Genetics at Cornell and was then a research fellow in the Genetics Branch of the NCI, NIH. He is now a tenured researcher with Inserm and group leader at the Institut Curie in Paris, directing the "Integrative Functional Genomics of Cancer" lab since 2017. Research in his lab aims to develop novel therapeutic approaches for cancer through a deeper understanding of the roles of transcription regulation in cancer immunology. Two main focuses of the lab are how transcriptional dysregulation in cancer cells generates tumor specific antigens and mapping the gene regulatory networks driving anti-tumor T cell responses. His team takes a multi-disciplinary approach, combining artificial intelligence and computational algorithm development, high-throughput proteogenomic profiling technologies, and access to clinical samples from cancer patients.