

Resource Summary Report

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HTAPP_Dissociation of human neuroblastoma tumors to a single-cell suspension for single-cell RNA-seq using Papain

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Proper Citation

Anand Patel, Asa Karlstrom, Brittney Gordon, Elizabeth Stewart, Michael Dyer 2020. HTAPP_Dissociation of human neuroblastoma tumors to a single-cell suspension for single-cell RNA-seq using Papain. protocols.io dx.doi.org/10.17504/protocols.io.98ah9se

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.98ah9se>

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Group: NCIHTAN

Summary: This protocol was used for the dissociation of fresh pediatric neuroblastoma samples from patient tumors or orthotopic patient derived xenografts. Using this method, we were able to prepare highly viable (>90%) single-cell suspensions compatible with droplet-based single-cell RNA-Seq technology (Slyper et al). For the Human Tumor Atlas Pilot Project (HTAPP), this protocol has been successfully applied to neuroblastoma resections collected from abdominal and paraspinal sites. Description of this protocol and guidance for testing and selecting methods for processing other tumor and sample types can be found in Slyper et al.

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