



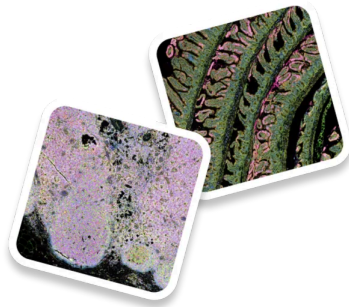
Xenium In Situ

High-performance **in situ** from the single cell leader

Characterize up to 5,000 genes in cells and tissues with ultra precise single cell spatial imaging

[Speak to a specialist](#)

[See performance](#)



Xenium Prime 5K assays now shipping

An ultra-high-plex assay with exceptional data quality

- Explore your tissue with 5,000 genes to deeply characterize cell types, pathways, cell-cell interactions & more
- Get greater confidence in your results with an optimized assay, multimodal cell segmentation & high spatial fidelity
- Obtain results faster with up to 472 mm² of tissue analyzed in 6 days or less

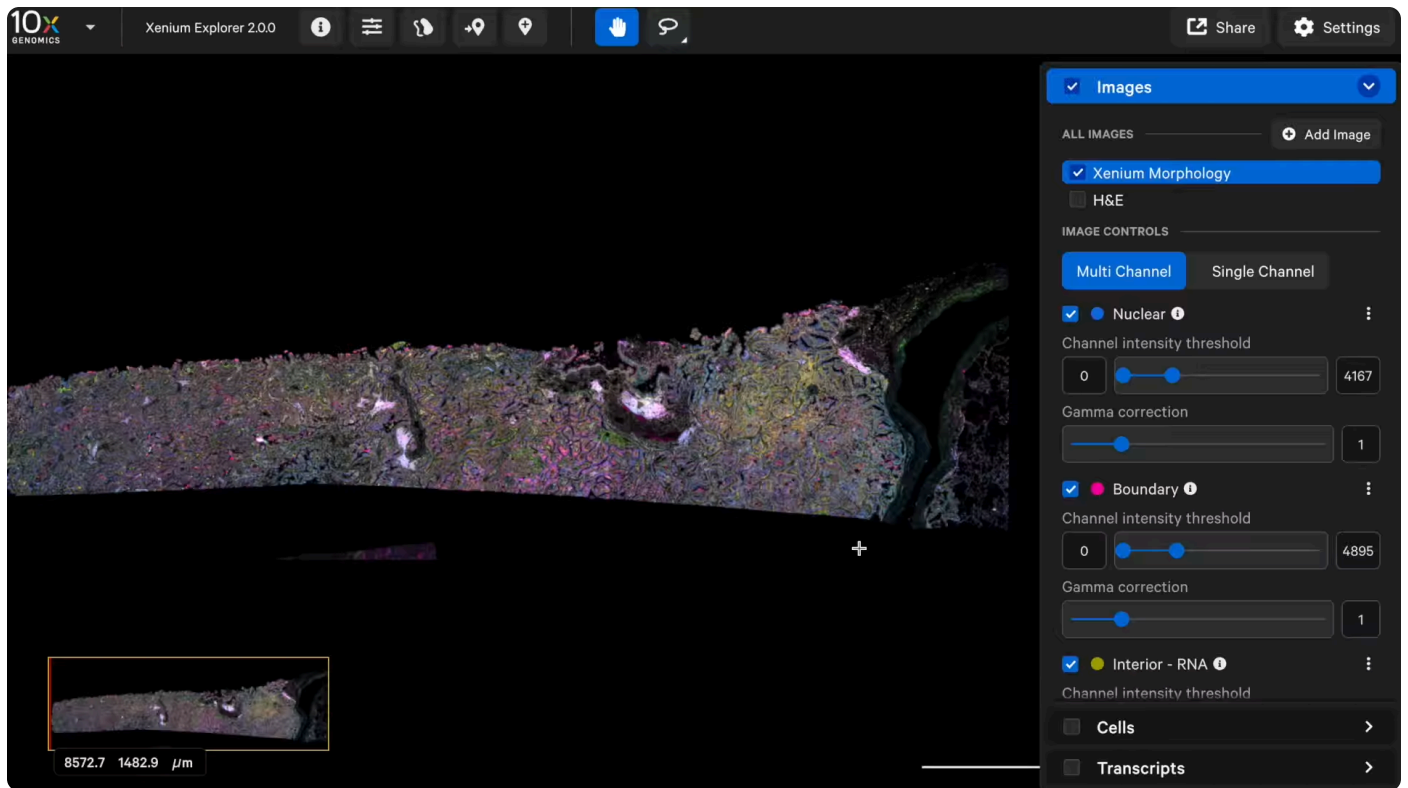
[Get panel details](#)

[See all Xenium panels](#)

Built for rapid data exploration

The Xenium Analyzer processes data during the run allowing you to visualize and explore the data right away.

[Discover Xenium analysis](#)



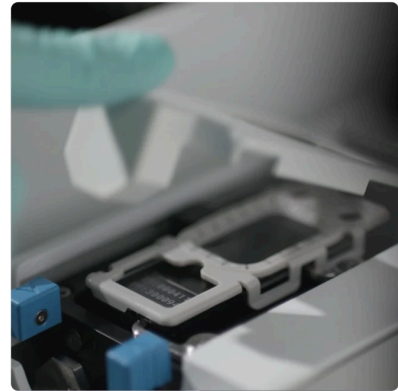
Plus, no cloud is required.

Use our open file formats with community-developed tools of your choosing.

A state-of-the-art single cell spatial imaging platform

Xenium Analyzer integrates high-resolution imaging and onboard data analysis enabling the profiling of up to 5,000 genes in 472 mm² of tissue in ≤ 6 days (with multimodal segmentation).

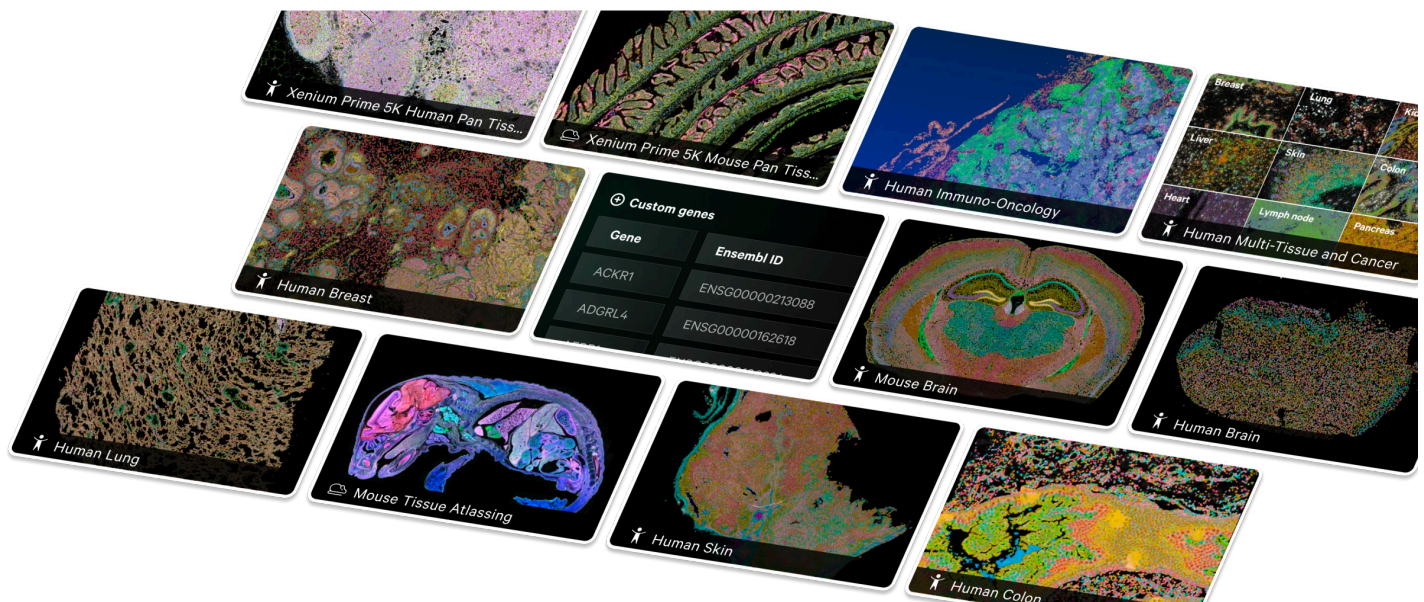
[Explore the instrument](#)



Target the biology that matters

Our panels are carefully designed and curated, incorporating a data-driven approach that combines expert input with years of single cell experience. Customization is fast and easy.

Discover Xenium Gene Expression Panels



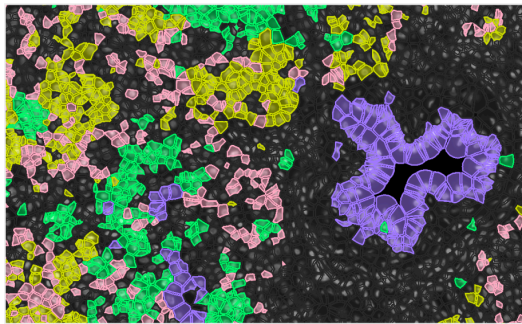
In development: Higher plex, simultaneous protein detection panels, and more!

Discover the power of Xenium with our pilot runs

Our Catalyst program lets you test drive the Xenium platform and evaluate its capabilities with 10X scientific experts for analyzing your spatial transcriptomics data.

Learn how the Catalyst Program works

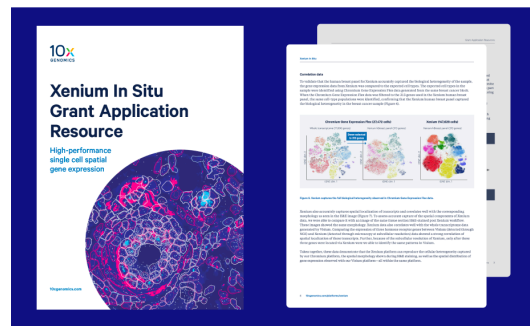
Resources



See Xenium data in action

Explore our 474 gene human pancreatic cancer dataset post-Xenium H&E and IF images.

[Explore interactive dataset >](#)



Grant writing assistance

Get the information you need to write grants featuring Xenium experiments.

[Download grant resource >](#)



Hit the ground running

Find useful considerations and tips for experimental design, sample prep, and data analysis.

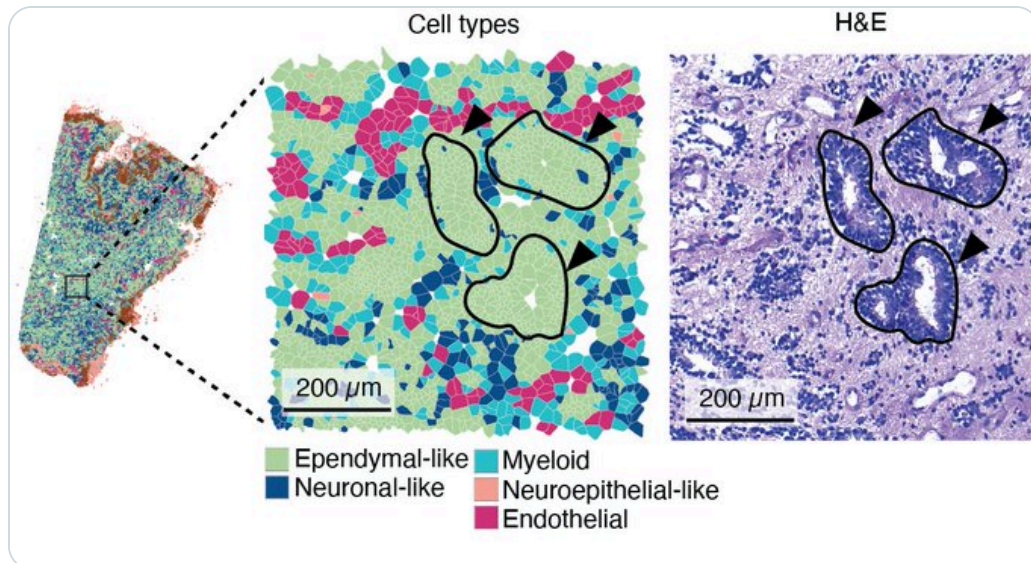
[Download planning guide >](#)

See what Xenium users are saying

**Daeun Jeong**@DaeunJeong10 · [Follow](#)

Replying to @DaeunJeong10

Next, we used 10X Xenium to characterize where these cells are, and by combining with H&E we could derive transcriptionally and morphologically distinct regions such as these distinct ependymal rosettes: 5/



3:27 PM · Aug 12, 2024



8



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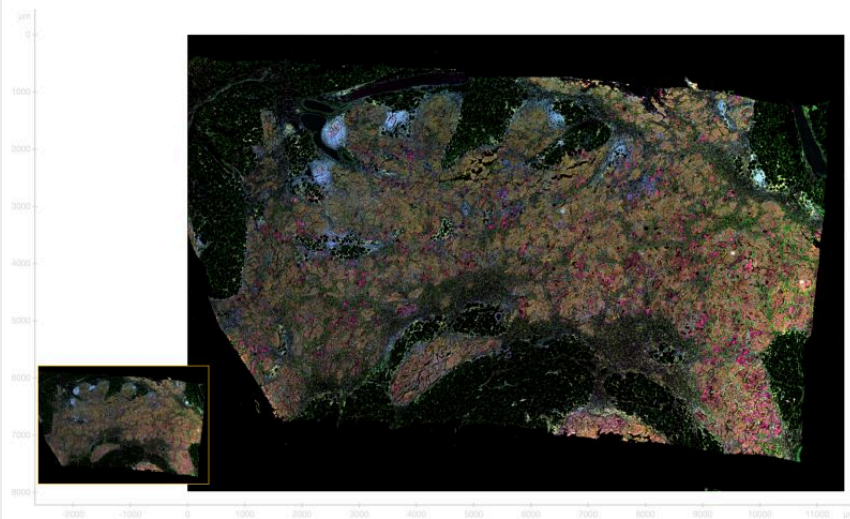
[Read 1 reply](#)

**Kathleen Imbach**

PhD Student in Bioinformatics at Josep Carreras Leukaemia Re...
4mo

In the past week I've started a new analysis journey: evaluating tissue using [10x Genomics](#) Xenium 5K Plex platform. With this technology we can detect transcripts from 5000 genes at subcellular resolution in patient tumor samples. I'm still very much in explorer mode, but it's already quite clear that we are going to have some really cool and exciting analysis possibilities with this data. Looking forward to learning more and the potential future discoveries this might bring!

PS- this was run by [Daniela Grases Mendoza](#) & [Elena Perez Garrido](#)! And both [Sergi Cervilla García](#) and I will analyze it together :)



60 · 2 Comments



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**Kathleen Imbach**

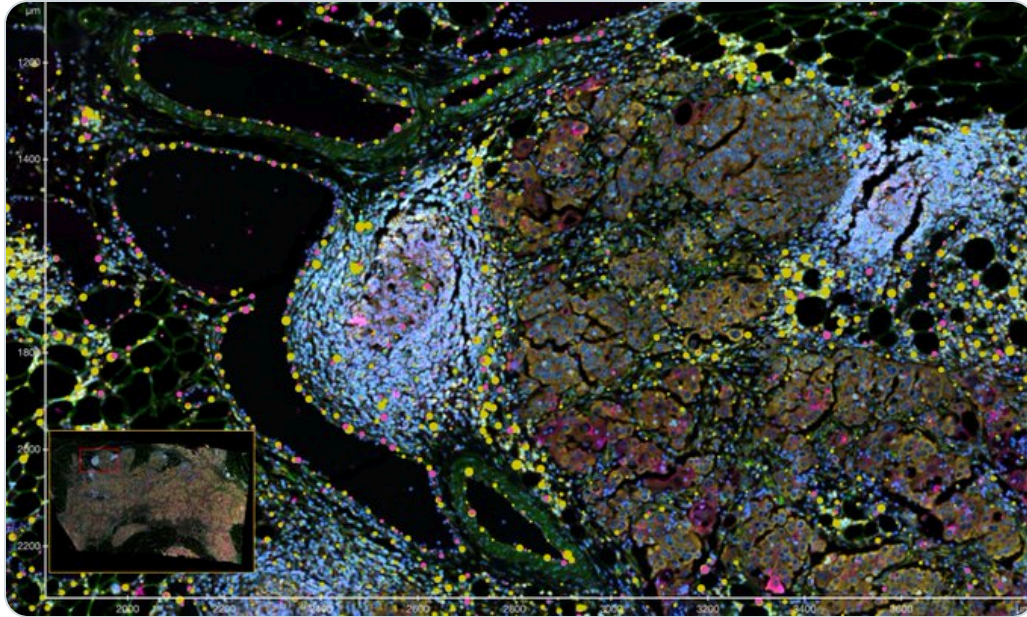
@AKatSequencing · [Follow](#)



Spent some of the weekend playing around with our new [@10xGenomics](#) Xenium 5K Plex data- look at how nicely these endothelial transcripts (PECAM1 and TIE2) map onto

vessel structures. So excited to see where this data takes us!

PS- this Xenium run was done by [@DanielaGrases](#)



4:59 AM · Jul 29, 2024



41



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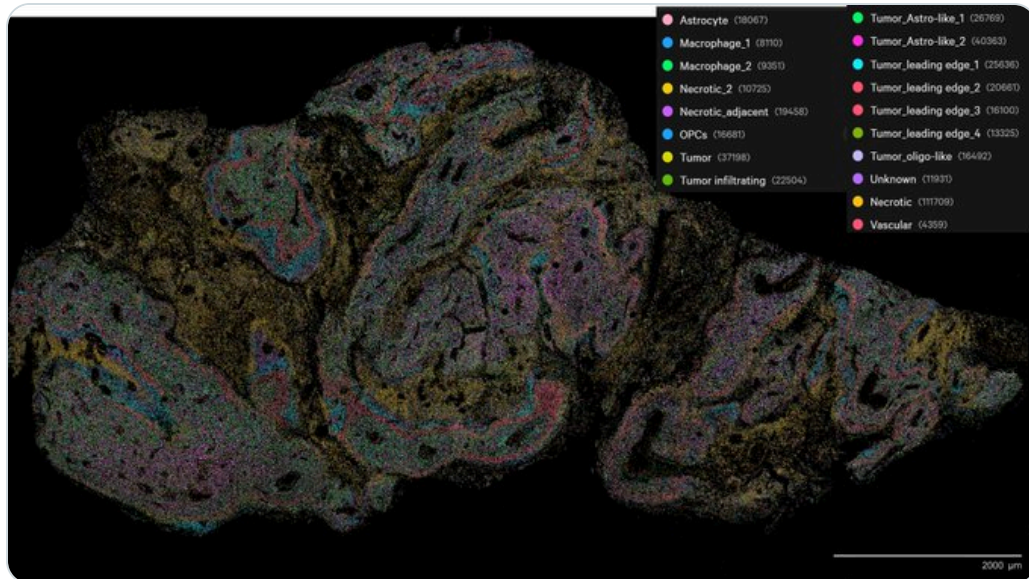
Gregory Lab

@TheGregoryLab · [Follow](#)



It is [#GlioblastomaAwarenessDay](#)! The Gregory lab is passionate about understanding the molecular heterogeneity of GBM and improving patient outcomes, through our work with [@prtbcatduke](#) & the [#BrainTumorOmicsProgram](#) 🧠 🏥 🧬

[#CancerAwareness](#) [#SpatialTranscriptomics](#) [#GBM](#)



1:23 PM · Jul 17, 2024



19



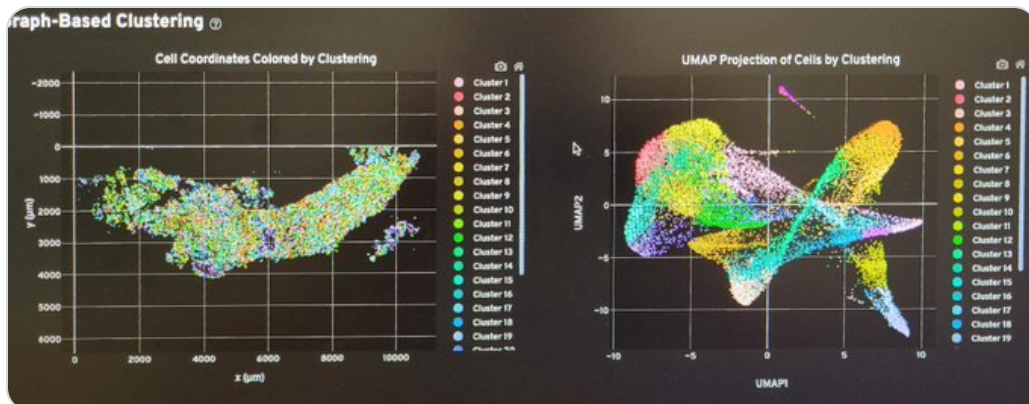
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[Read more on X](#)**Fotis Nikolos**@fotis_nikolos · [Follow](#)

Xenium Prime 5k data hot off our Xenium! @10xgenomics
@MethodistHosp @research4cure #houstonMethodist
#xenium
@ASHLEYBENHAM1



11:47 AM · Jul 1, 2024



20



Reply

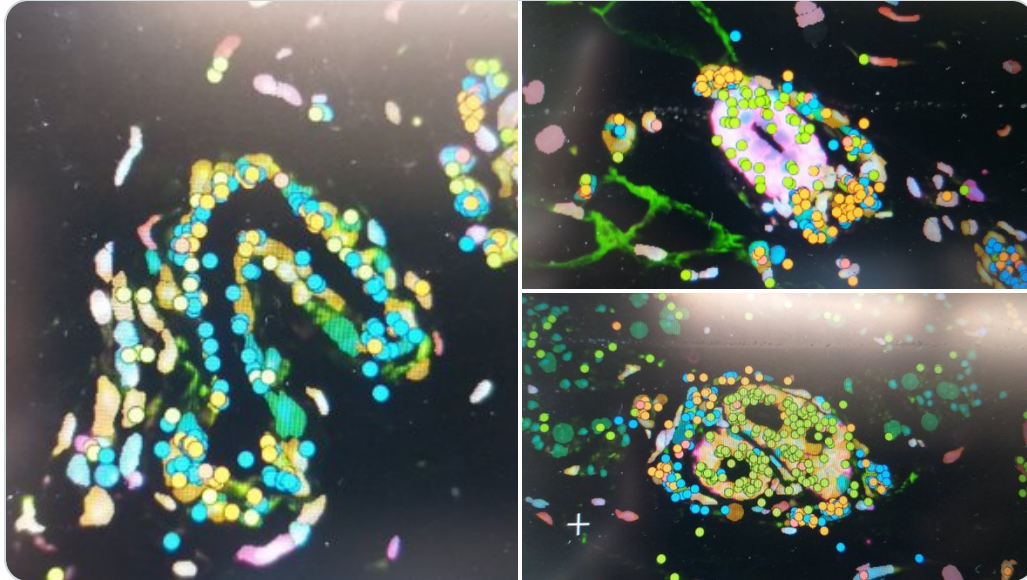


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**Parul Katiyar**@ParulKa23077180 · [Follow](#)

Vascular endothelial cells visualise with Xenium 🤩 a lot to explore with Explorer



12:01 PM · Jun 24, 2024



14



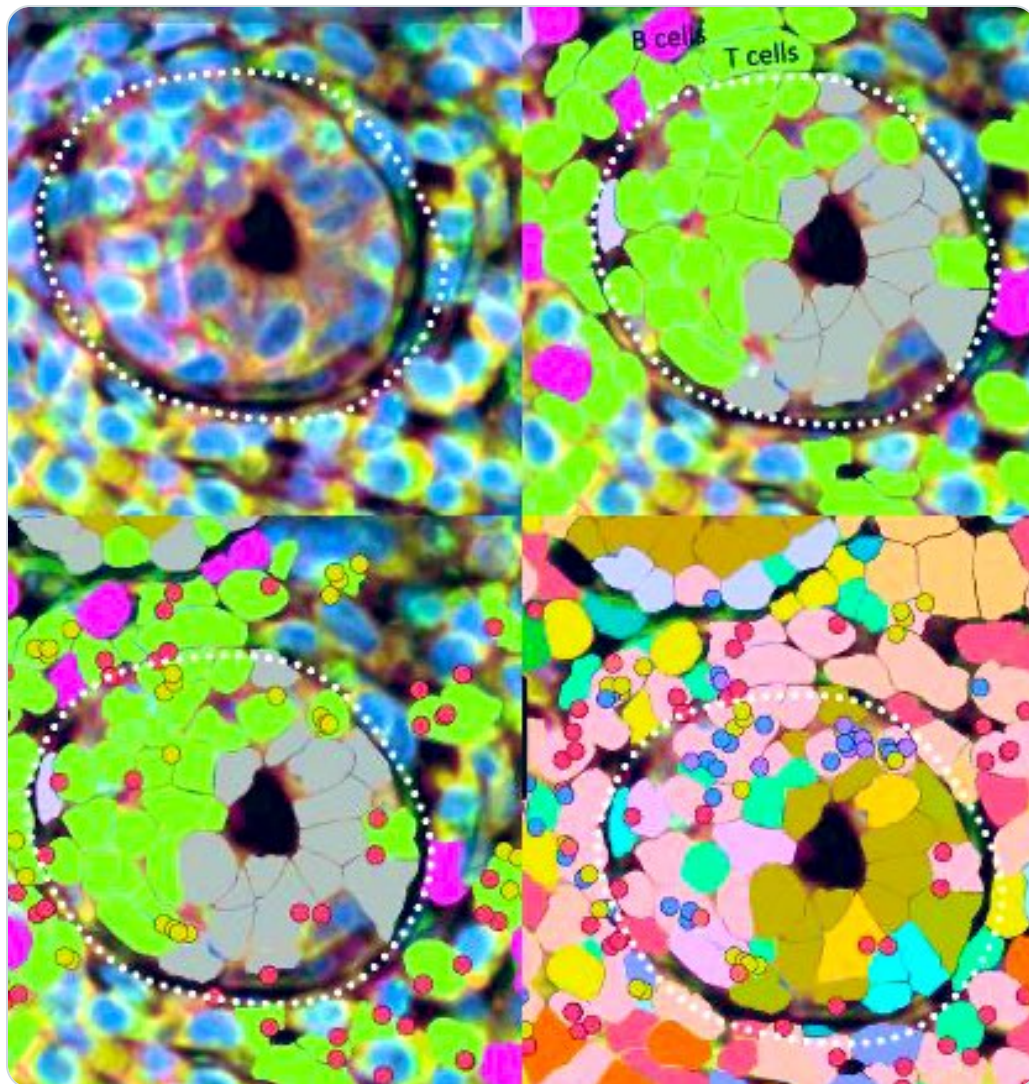
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[Read more on X](#)**Blake M. Warner**@blakewarner0 · [Follow](#)

[@10xGenomics](#) Xenium Segmentation Cocktail greatly improves segmentation and phenotyping.



12:57 PM · Jun 18, 2024



26



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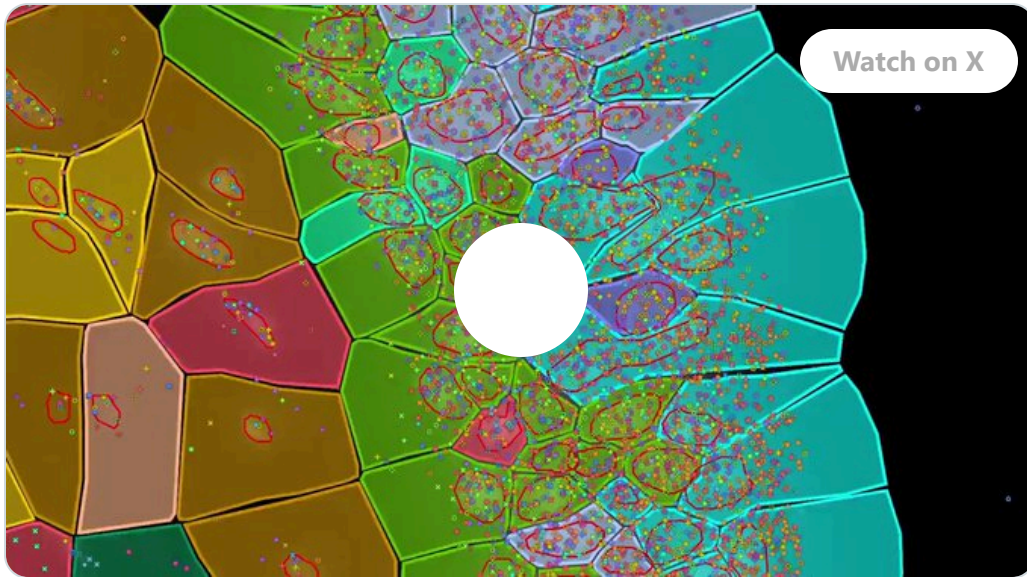


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[Read more on X](#)**Régis Joulia**@RegisJoulia · [Follow](#)

Not exactly a [#fluorescenceFriday](#) but almost. Analysing our new [#singlecell](#) [#spatial](#) RNAseq lung data with [@10xGenomics](#) Xenium explorer 🤖

Lot of cool data, plenty of mast cells 🦋 vasculature and epithelial cells but are they different in asthma...
[@lloyd_lab](#) [@ImperialBRC](#)



11:00 AM · Jun 14, 2024



♥ 49 💬 Reply 🔗 Copy link

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**Andrea Corsinotti**Single-cell and Spatial Biology
7mo

This is probably the busiest **10x Genomics** Xenium slide that you will ever see. 🤪 All hail the Queen of the Microtome **Melanie McMillan** 🧑🔬 **Institute for Regeneration and Repair**



195 · 12 Comments



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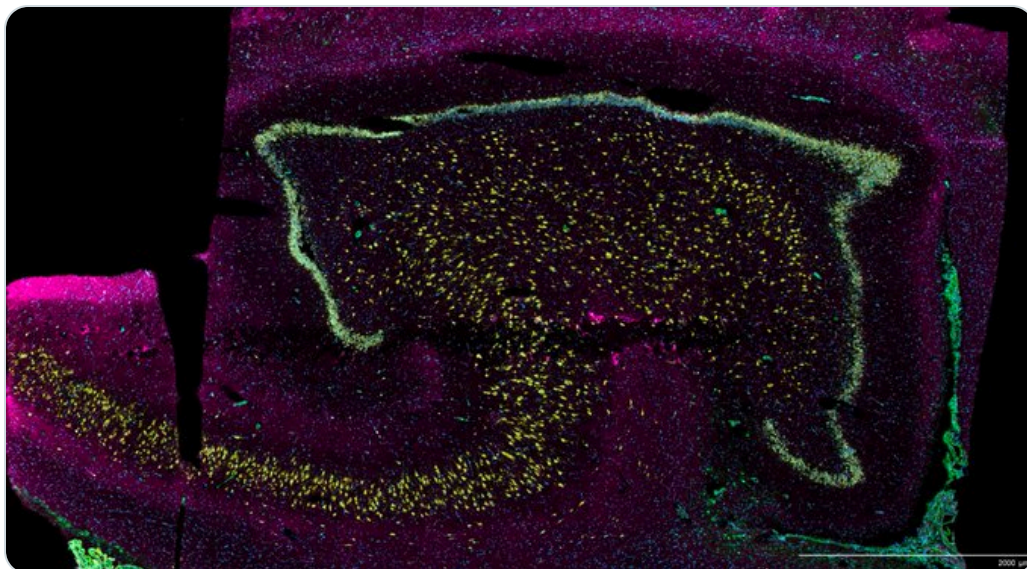


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**Keri Martinowich**@martinowk · [Follow](#)

From a recent **#Xenium** run **@10xGenomics**. And yes, the human hippocampus is, absolutely stunning. **#FluorescenceFriday** 🧠🔬🌟



8:58 AM · May 3, 2024



75



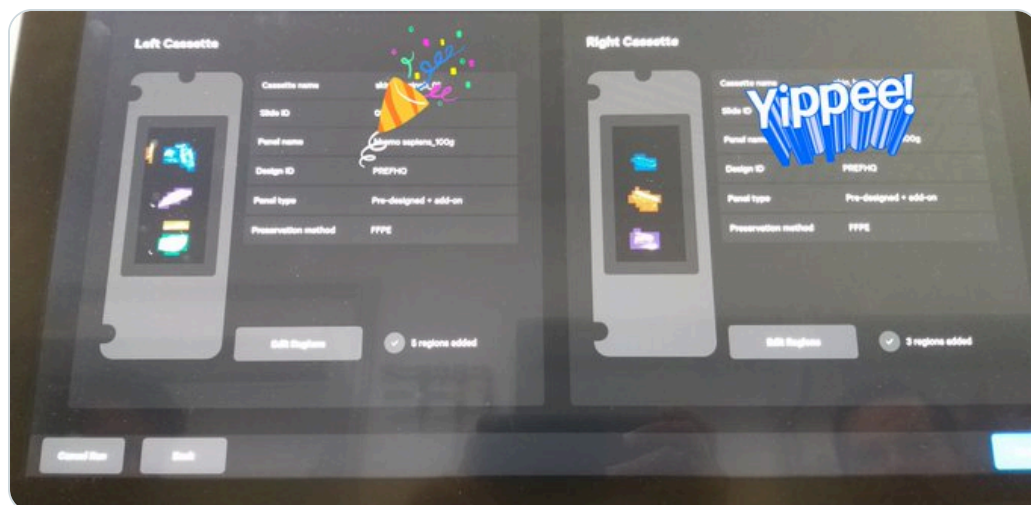
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[Read 1 reply](#)**Parul Katiyar**@ParulKa23077180 · [Follow](#)

Completed First Xenium experiment 🥳 Excited about the result 🙌



3:52 PM · Apr 27, 2024



5



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Luciano Martelotto 🧬🔬📱 AU
@LGMartelotto · [Follow](#)

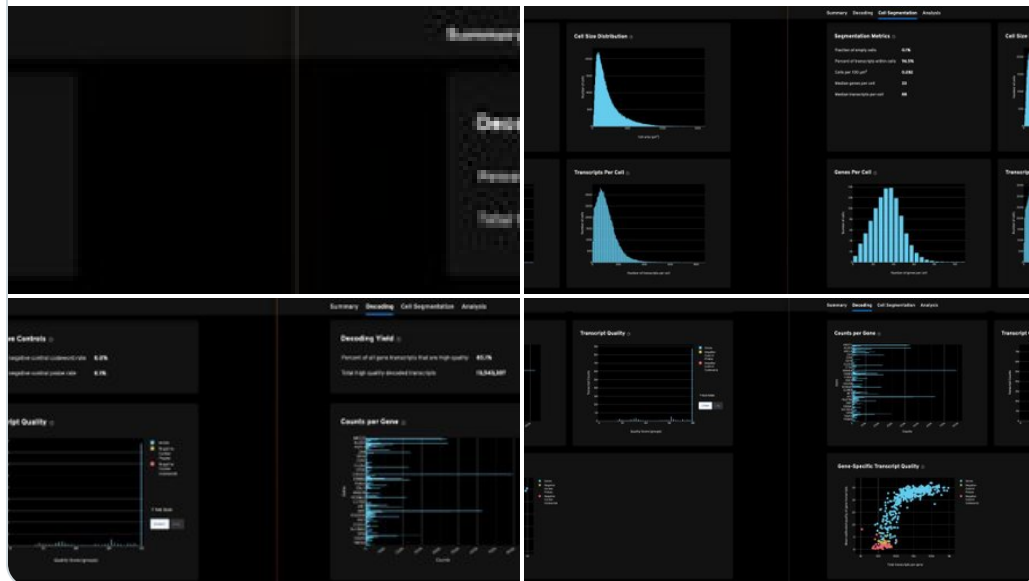


One pic that says many words...👁



Luciano Martelotto 🧬🔬📱 AU @LGMartelotto

Exploring true sequential sections on #Xenium – left and right panels in each pic. Can't tear my eyes away from the monitor! I still can't find the difference 😊🤔 #ScienceWizardry



8:47 PM · Sep 4, 2023



77



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Jeremie Oliver Piña, PhD, MS, MBA

@jer_oliver_pina · [Follow](#)



To our [#cleftpalate](#) genetic model:

Welcome to [#Space](#)!

[@10xGenomics](#) [@blakewarner0](#) [#spatialtranscriptomics](#)
[#SingleCell](#) [#NextGen](#) [#Xenium](#)



11:33 AM · Aug 30, 2023



46



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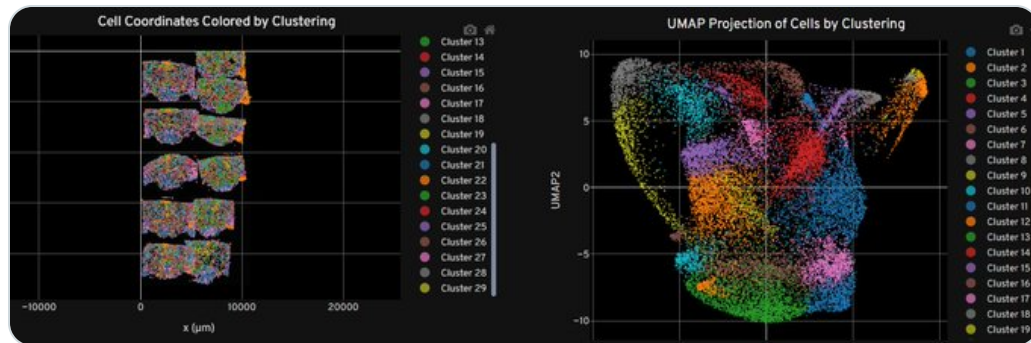
Linda Orzolek





@LindaOrzolek · [Follow](#)

Hey, this [#xenium](#) thing seems to work! And boy can you cram a lot of tissue on there! [#insitusequencing](#)



1:38 PM · Aug 28, 2023



62



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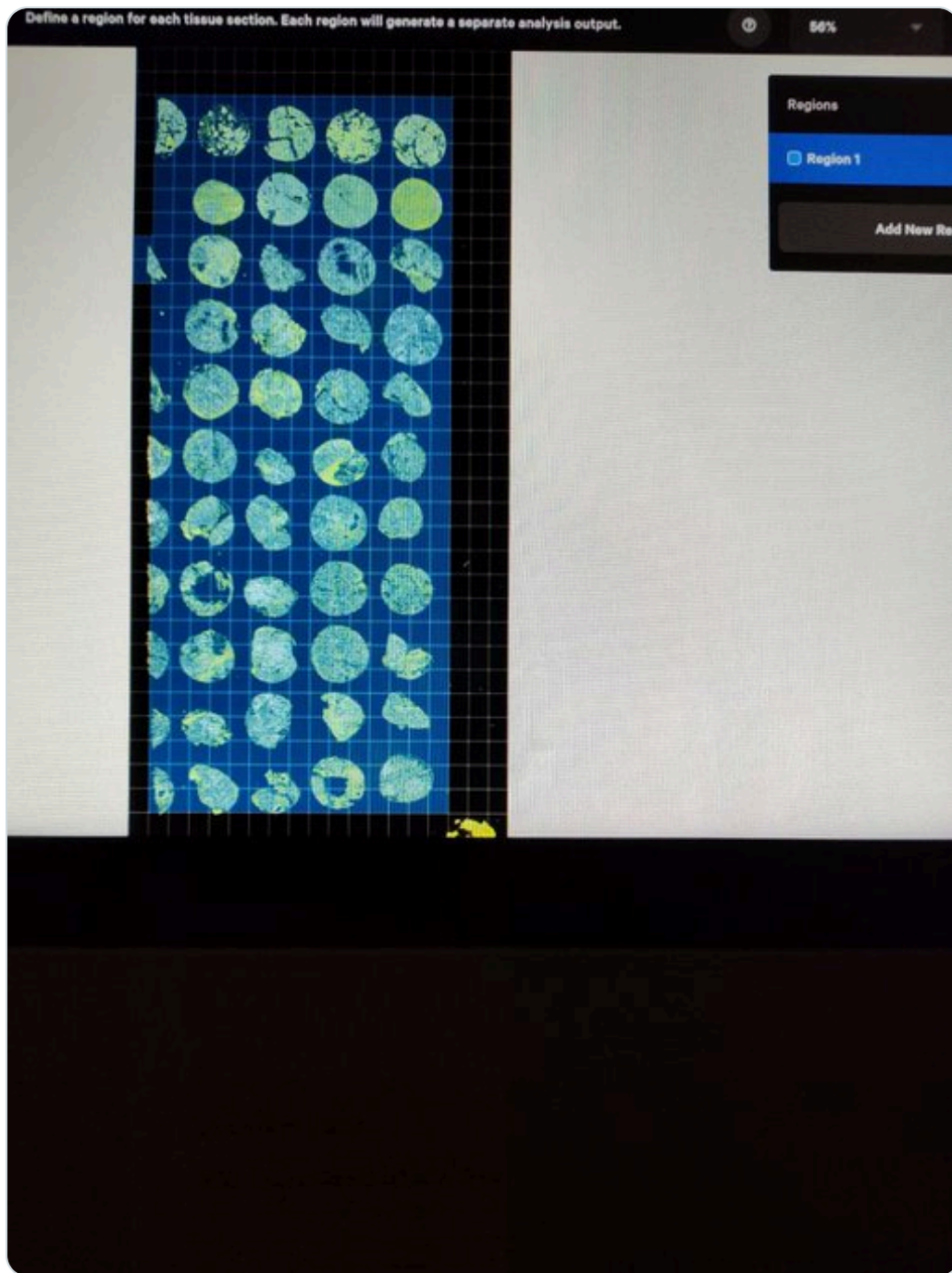


Blake M. Warner

@blakewarner0 · [Follow](#)



4 x 10 1.5mm TMA on [@10xGenomics](#) [#xenium](#) spatial genomics platform. For all the pathologist-scientists out there, think of the [#smi](#) data you could glean from your FFPE archived samples. [#pathology](#) [#singlecell](#) [#spatial](#)



7:44 PM · Aug 5, 2023



86



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Fred Hutch Innovation Lab

@HutchInnovation · [Follow](#)



Completed our first Xenium experiment with a custom panel and it was a huge success! Ran two slides with

multiple regions selected based on histology and previous Visium data. Here are the highlights of our run including region selection and our first dive into the data.



6:33 PM · Mar 2, 2023



223



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Nick Banovich

@NeBanovich · [Follow](#)

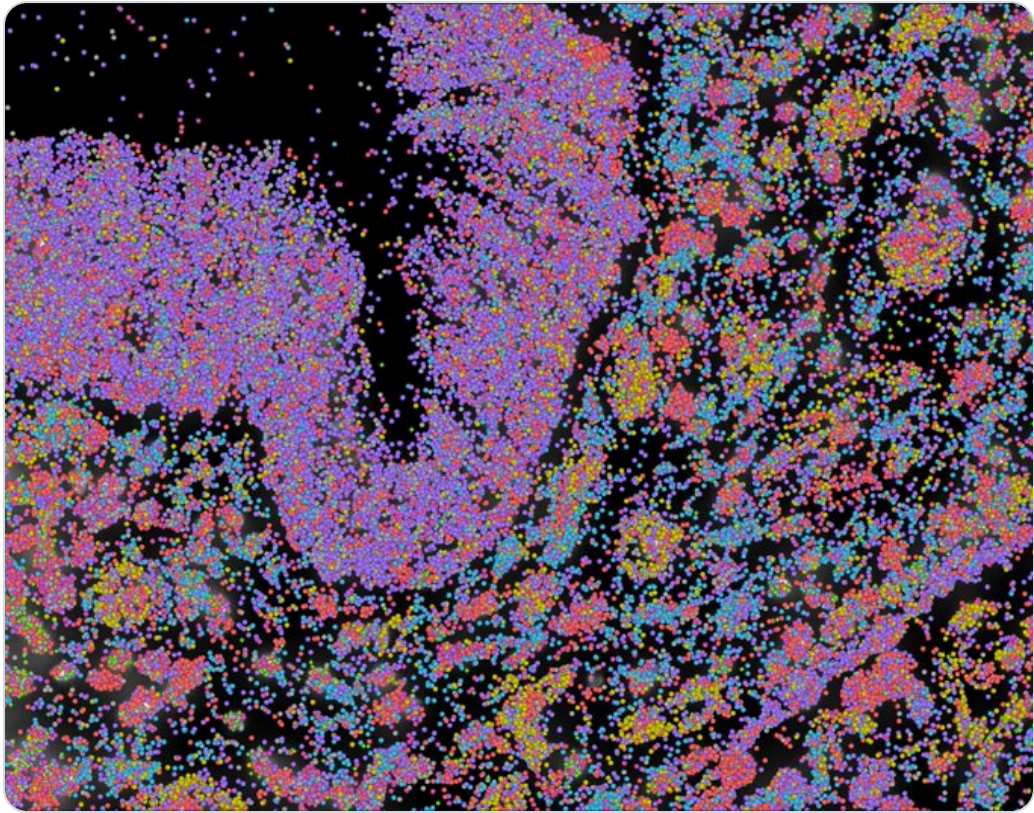


Small piece of an airway from our first real Xenium run. Over 34M transcripts across a 1.5cm² region. Not a bad first shot on goal!

[@10xGenomics](#)

[#spatialtranscriptomics](#)

[#spatialbiology](#)



1:24 PM · Feb 27, 2023



191



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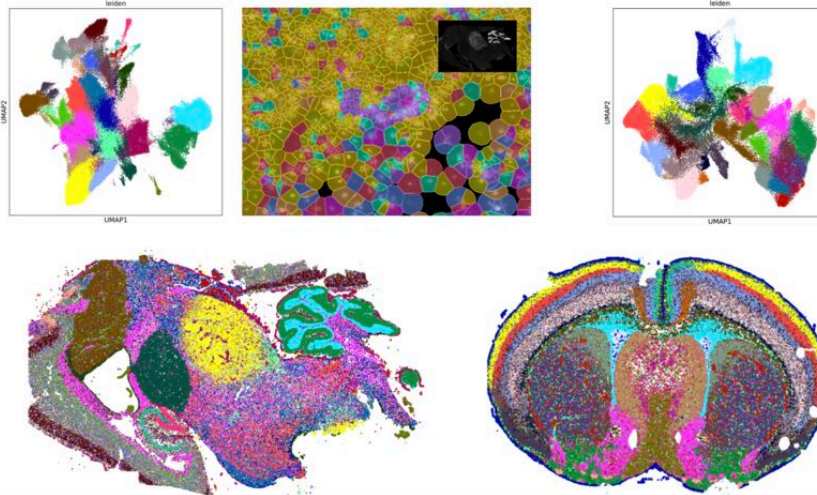
Read 4 replies

**Simon Gregory**

Tenured Professor

1y · Edited

Straight out of the box, we have exquisite data from our **10x Genomics #Xenium** platform from the lab (<https://lnkd.in/gZhFeDyg>). A standard+custom panel that captures the molecular intricacies of **#translationalmedicine** projects from **Zach Reitman**'s diffuse midline glioma model (sagittal) and **Eric Benner**'s model of intestinal perforation in cerebral palsy (coronal). **Karen Abramson, Emily Hocke** and **Vaibhav jain** from the **#dukeuniversity**'s Molecular Genomics Core did a fantastic job on our first run. Lots of wonderful data to analyze, but a fantastic start to our journey into the world of **#insitu** sequencing! **#spatialbiology #spatialtranscriptomics #spatialanalysis #spatialdata #cancerbiology #cancerresearch #cancer**



262 · 10 Comments

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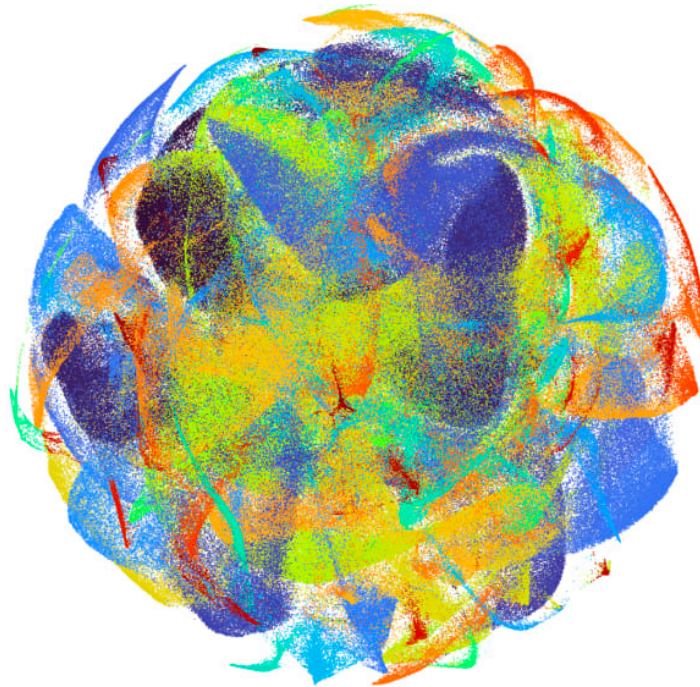
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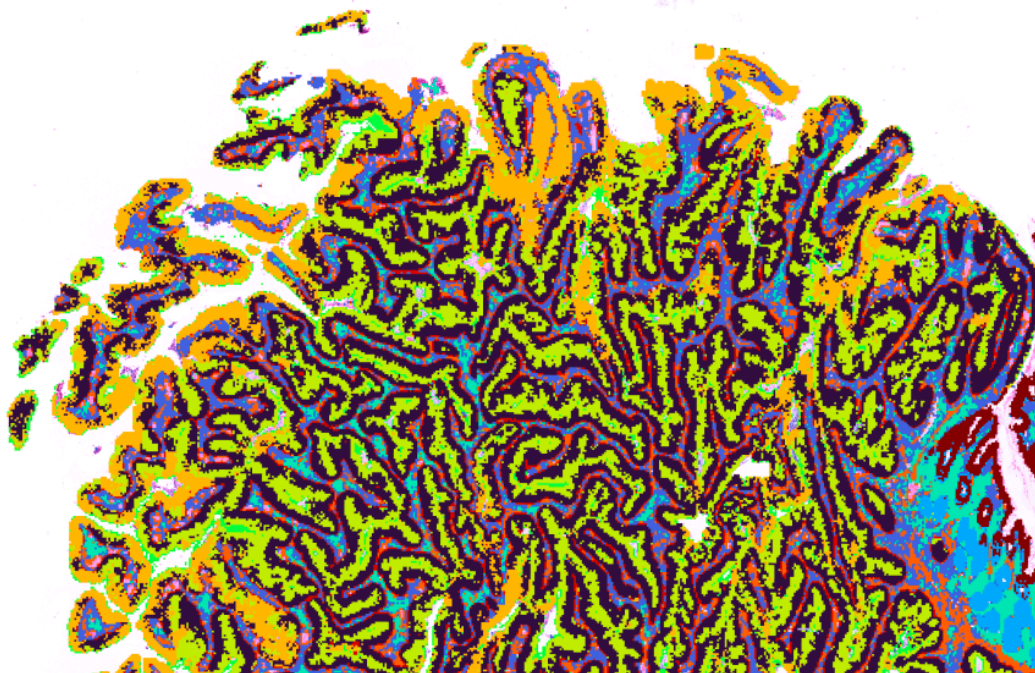
Xenium is even more powerful when complemented with the 10x toolkit

Expand your Xenium insights by combining it with unbiased, whole transcriptome measurements from single cells and entire tissue sections.



Chromium Single Cell

Perform transcriptomic profiling, with multiomic capabilities, in up to a million single cells. Characterize tissue heterogeneity, discover rare cell types, and dissect molecular mechanisms cell by cell.



Visium Spatial

Assess spatial gene expression of FFPE or fresh frozen tissue sections. Harness whole transcriptome discovery while defining the relationship between cellular function and location.

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