

## **Scale Bio Partners with Human Cell Atlas to Accelerate Research with Innovative Single Cell Technology**

*Partnership comes as HCA announces the simultaneous publication of over 40 breakthrough studies highlighting the diversity of human cells*

San Diego, Calif. – December 19, 2024 - Scale Biosciences (Scale Bio™), a leader in innovative and scalable single cell analysis solutions, today announced a partnership with the Human Cell Atlas (HCA), the global consortium working to map every cell type in the human body. The announcement comes as the HCA celebrates a major milestone with the publication of more than 40 peer-reviewed papers in *Nature* and other *Nature Portfolio* journals, marking considerable progress in understanding human cellular biology.

"The Human Cell Atlas is transforming our understanding of human health through creating comprehensive reference maps of all human cells," said John Randell, Chief Alliance Officer at Human Cell Atlas. "Scale Bio's technology will help accelerate the scientific community's understanding of human biology by facilitating cellular analysis across diverse human populations."

Through this partnership, HCA collaborating members will gain partner pricing to Scale Bio's massively parallel barcoding technology, including its revolutionary QuantumScale platform, as well as new multiomic capabilities. The QuantumScale workflow, combined with ScalePlex multiplexing, enables never-before-seen sample throughput for single cell RNA-seq experiments, greatly expanding the number of samples and sample diversity for the HCA. And the Single Cell Methylation Sequencing kit from Scale Bio, the only commercial kit of its kind, enables a new modality, providing researchers with epigenetic information for more layered insights into cellular complexity.

"Leveraging the unique features of our soon-to-be-released QuantumScale platform, as well as our single cell methylation solution, the first and only commercial kit of its kind, and working with partners such as HCA, we hope to accelerate large-scale multiomic single cell research projects, which can dramatically accelerate the development of new insights into human biology at the cellular level," said Giovanna Prout, President and CEO of Scale Bio. "As we saw earlier this year when we received proposals totaling nearly one billion cells through our 100 Million Cell Challenge, there remains much tremendous pent-up demand for simple, cost-efficient ways to generate vast datasets to power new research paradigms. Our platform offers experimental flexibility and scalability to incorporate more diversity in samples, enabling researchers to push the boundaries of single cell research."

The QuantumScale platform will enable:

- High throughput analysis: Process up to 2 million cells in just 1.5 days
- Efficient sample multiplexing: Prepare thousands of samples per run
- Cost-effectiveness: Just 1 cent per cell
- Streamlined workflow: Reduced hands-on time to only half a day, 75% reduction compared to combinatorial indexing methods
- Instrument-free: Use only standard lab equipment

John Randell added: "As we move towards achieving the first draft of the Human Cell Atlas, partnerships with technology innovators are crucial. The scale and efficiency of new platforms being developed by companies like Scale Bio will help our global community deliver numerous biological and clinical insights that can transform human health."

HCA researchers from more than 100 countries recently published data drawn from the profiling of more than 100 million cells from over 10,000 people. These data highlight the HCA's continued progress toward completing the first draft of the human cell atlas.

To learn more about Scale Bio, visit [www.scale.bio](http://www.scale.bio).

### **About Scale Bio**

At Scale Bio, we are committed to accelerating scientific breakthroughs by providing innovative single cell omics solutions that redefine accessibility, flexibility, and scalability, empowering researchers to unlock the full potential of single cell omics. Leveraging our core massively parallelized single cell barcoding technology, we offer a range of advanced workflow solutions that maximize insights delivered with every experiment and sample type, allowing scientists to generate more data, analyze more samples, and explore more omics, cost efficiently and with unprecedented ease. Founded by scientists and technologists with experience across a range of multiomics disciplines, Scale Bio has attracted financing from leading life sciences tools investors including ARCH Venture Partners, BNG01 and Tao Capital. Scale Bio is headquartered in San Diego, Calif. Visit [scale.bio](http://scale.bio) to learn more.

### **About the Human Cell Atlas**

The Human Cell Atlas (HCA) is an international collaborative consortium whose mission is to create comprehensive reference maps of all human cells—the fundamental units of life—as a basis for understanding human health and for diagnosing, monitoring, and treating disease. The HCA community is producing high quality Atlases of tissues, organs and systems, to create a milestone Atlas of the human body. More than 3,600 HCA members from over 100 countries are working together to achieve a diverse and accessible Atlas to benefit humanity across the world.

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