



Focused to deliver on the promise of cell therapy

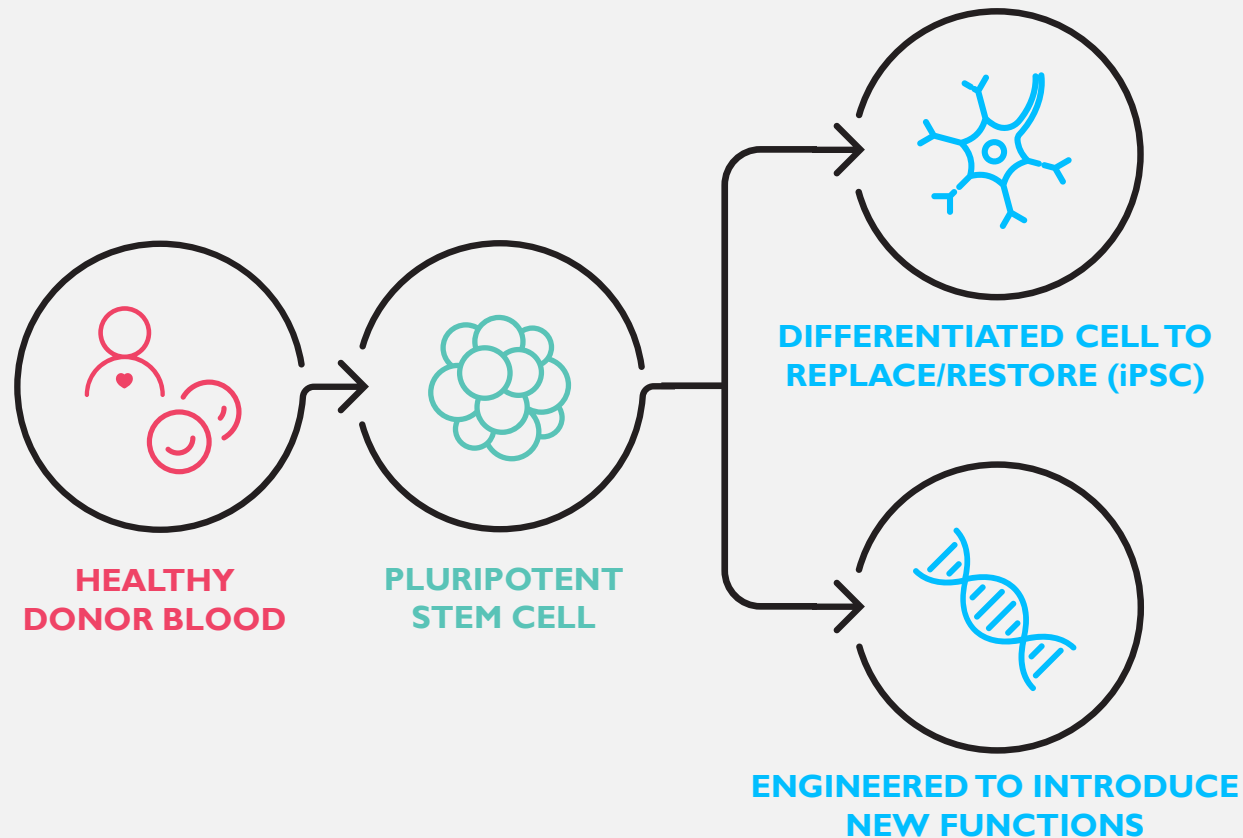
Seth Ettenberg, PhD
President & CEO



Disclosures

I am the President and CEO of Bluerock Therapeutics LP, a wholly owned independently operated subsidiary of Bayer AG. I do not have any relevant disclosures or conflicts of interest.

Cell therapy 101: PSCs and iPSCs



- iPSCs are "blank canvas" cells that are differentiated to become any cell type in the body
- Derived from cells taken via blood draw from healthy donor
- iPSCs can be mass produced
- Generally receptive to genetic engineering

Allogeneic vs. autologous

ALLOGENEIC CELL THERAPY

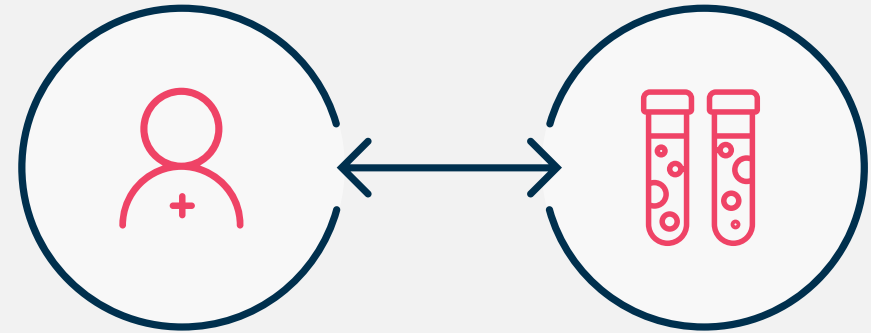


HEALTHY
DONOR

CELLS

PATIENTS

AUTOLOGOUS CELL THERAPY

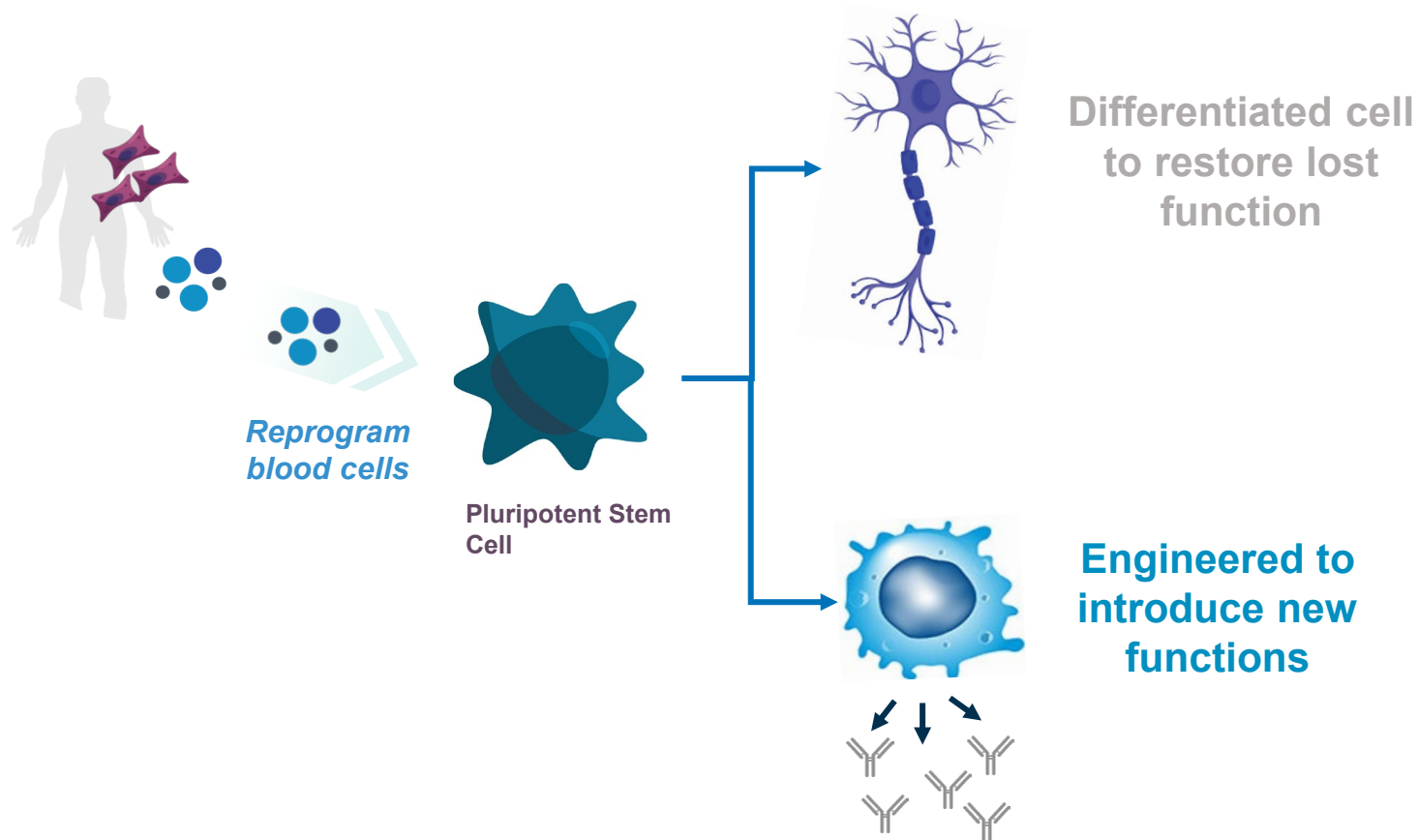


PATIENT

CELLS

Pluripotent stem cells have broad therapeutic potential

Examples of Target Disease Areas



- Parkinson's disease
- Heart failure
- Primary photoreceptor diseases
- Geographic Atrophy (AMD)
- Stroke

- Oncology
- Alzheimer's disease
- Metabolic diseases
- Autoimmune disease

BlueRock has end-to-end capabilities in PSC technology



Development and Manufacturing

Clinical development, process development, quality and manufacturing to support preclinical through commercial



Platform Capabilities

Delivering impactful cell therapies to help patients suffering from disease



Expertise and Resources

Partnering with world experts in cell therapies, leveraging Bayer capabilities

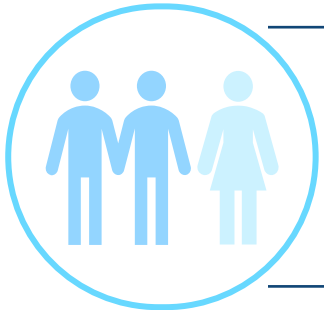
BlueRock pipeline

AREA	TARGET DISEASE	CELL TYPE	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
Neurology	Parkinson's Disease (bemdaneprocet)	Dopaminergic Neuron Progenitor					
	Parkinson's Disease (DA02)	Dopaminergic Neuron Progenitor					
	Demyelinating Disorders	Oligodendrocyte					
	Neurodegenerative Disease	Microglia					
Ophthalmology <i>In collaboration with Ophis Therapeutics</i>	Primary Photoreceptor Diseases (OpCT-001)	Photoreceptor Progenitor (PRP)					
	Early / Intermediate Dry AMD	Retinal Pigment Epithelium (RPE)					
	Late Dry AMD / GA	PRP + RPE					

Parkinson's disease is a leading neurodegenerative disease



- ◆ **~0.9 M in the US** and **~0.9 M in the EU4/UK** are living with PD
- ◆ Prevalence of PD is expected to **grow by 2.5%**
- ◆ **Over 10 M people** currently live with PD globally



- ◆ **More common in men** (60%) than in women (40%)
- ◆ **There are no** social, ethnic, economic or geographic **boundaries for PD**



- ◆ **Prevalence of PD increases with age**, rises sharply after age of 50, and peaks between 85 and 89
- ◆ Affects 2% to 3% of people ≥ 65 years

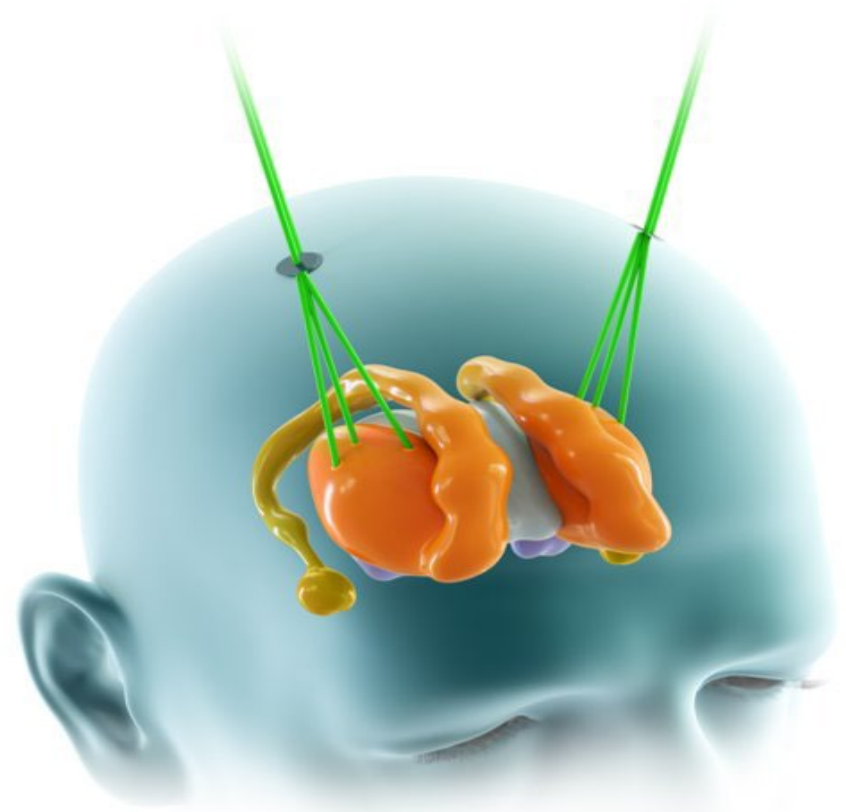
Cell therapy for the treatment of Parkinson's disease

Replacing diseased or damaged cells with allogeneic cell therapies to restore function.



Bemdaneprocel: Phase I 36-month data results

- Favorable safety profile continues at 36 months
- Secondary clinical endpoints related to motor outcomes remain stable compared to 24 months and continue to show positive trends from baseline
- Demonstrated cell engraftment and survival after stopping immune suppression at 12 months



Bemdaneprocel: Phase 3 clinical trial, exPDite-2

- First registrational Phase 3 clinical trial for an investigational allogeneic pluripotent stem cell derived therapy to treat Parkinson's disease
- Randomized, sham surgery-controlled double-blind trial assessing efficacy and safety of bemdaneprocel in people living with moderate Parkinson's disease
- First patient dosed in late summer 2025

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Bayer's BlueRock now plans to bring Parkinson's cell therapy straight to Phase 3 trial



Lei Lei Wu
News Reporter

Bayer's experimental Parkinson's disease therapy made from stem cells will soon enter late-stage studies, marking a key test for regenerative medicine in neurologic conditions.



The therapy, known as bemdaneprocel, is being developed by BlueRock Therapeutics, a Bayer subsidiary. The company said Monday that it is no longer doing a previously planned Phase 2 study, opting instead to test the cell therapy directly in a Phase 3 trial that's expected to begin in the first half of this year. BlueRock has "start-up activities already ongoing," BlueRock chief development and medical officer Amit Rakhit said in an interview.

AI @ BlueRock today



**Automating electronic
lab notebook entries
and review**



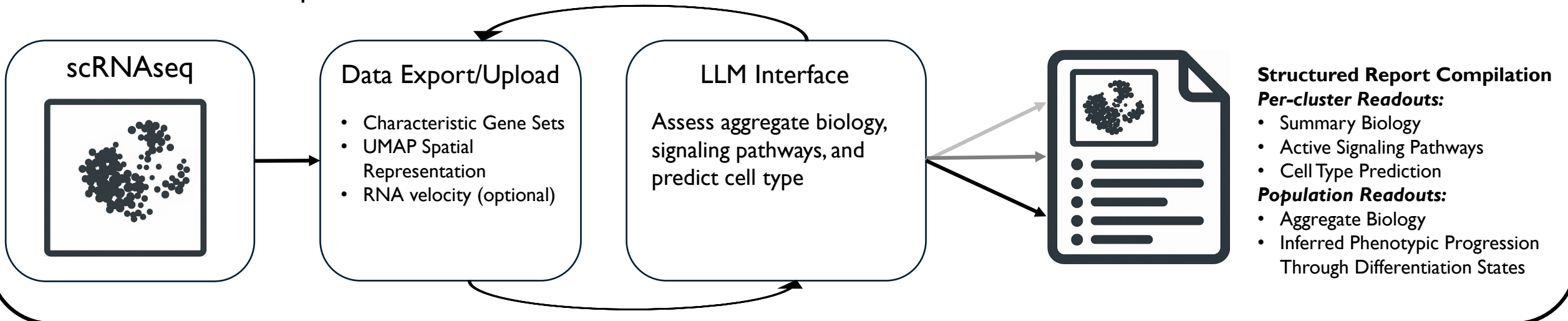
**Accelerating document creation
and review**



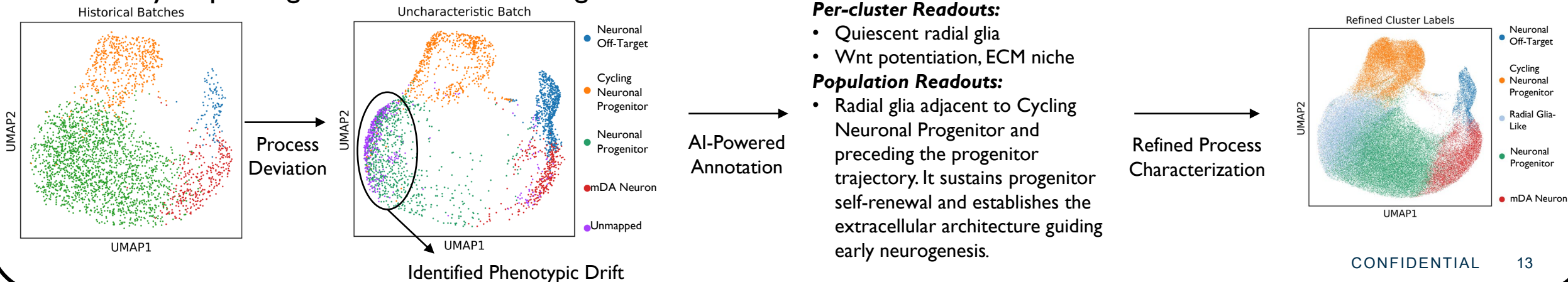
**Manufacturing Process
Improvements**

Leveraging AI to annotate scRNAseq data

AI-Powered scRNAseq Annotation Workflow



Case Study: Improving Process Understanding



AI aspirations

Clinical and Regulatory

- End to end authoring and management of regulatory documents
- AI enabled clinical trial design

Discovery Research

- Cell line and cellular drug product quality optimization
- Predicting in vivo efficacy

Manufacturing

- Streamlined process and analytical development
- AI enabled process automation and predictive control

Thank you