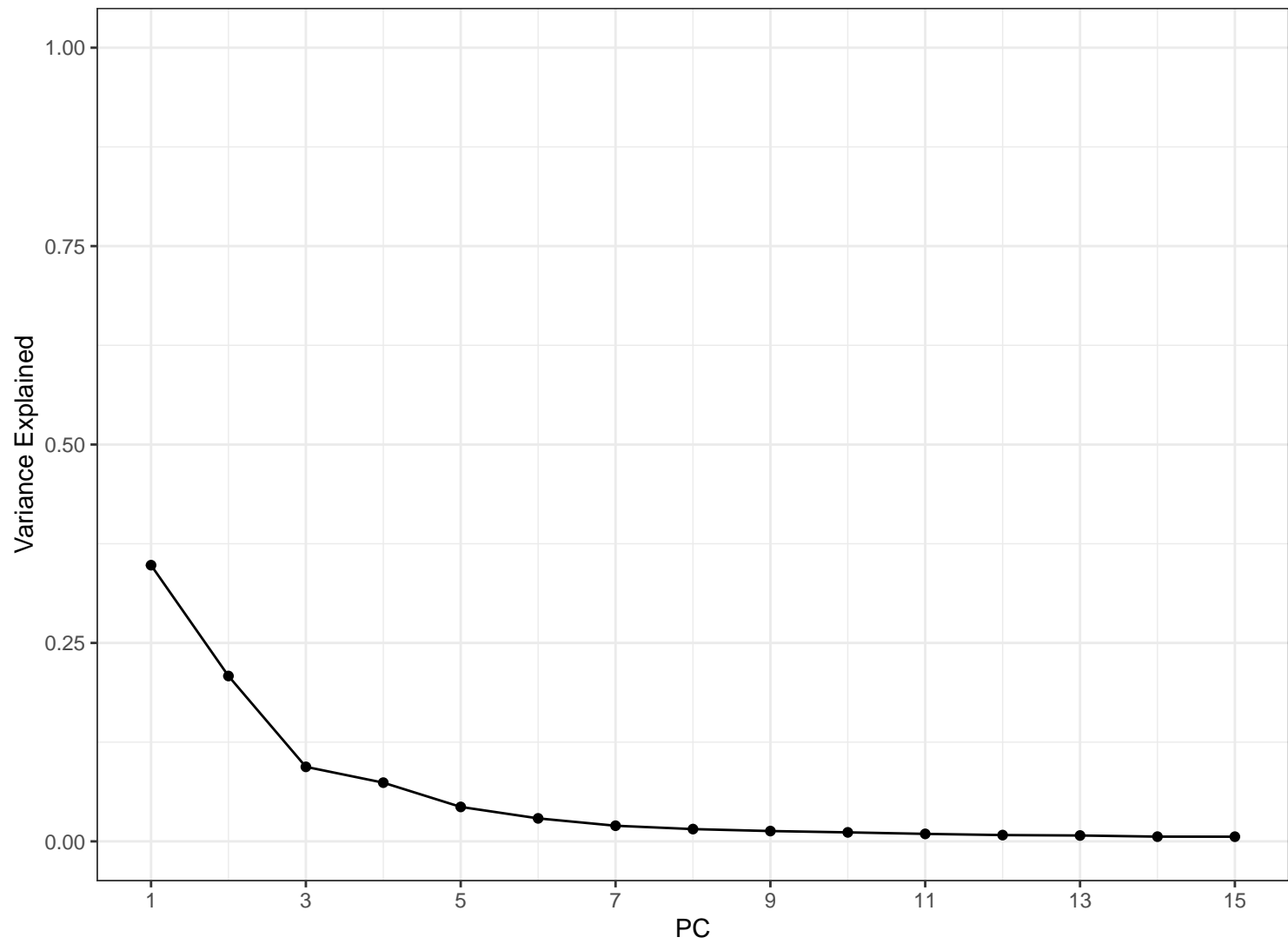


Cell Type Normalized Counts Proportional Fidelity Scree Plot

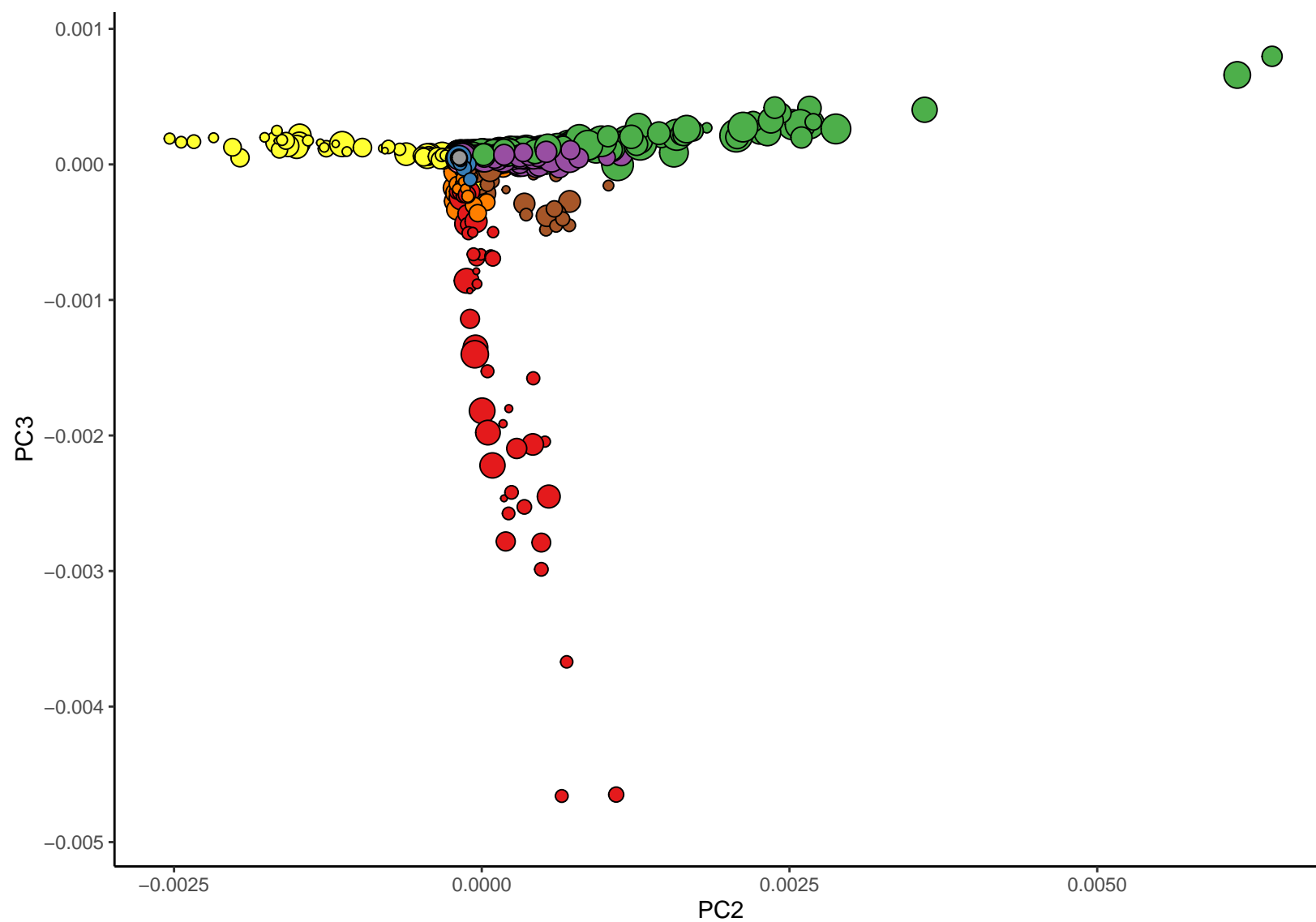
762 cell types, 30 datasets, 8,723 genes



Cell Type Proportional Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Median # Unique Genes

• 300 • 1,000 • 3,000 • 6,000 • 8,000

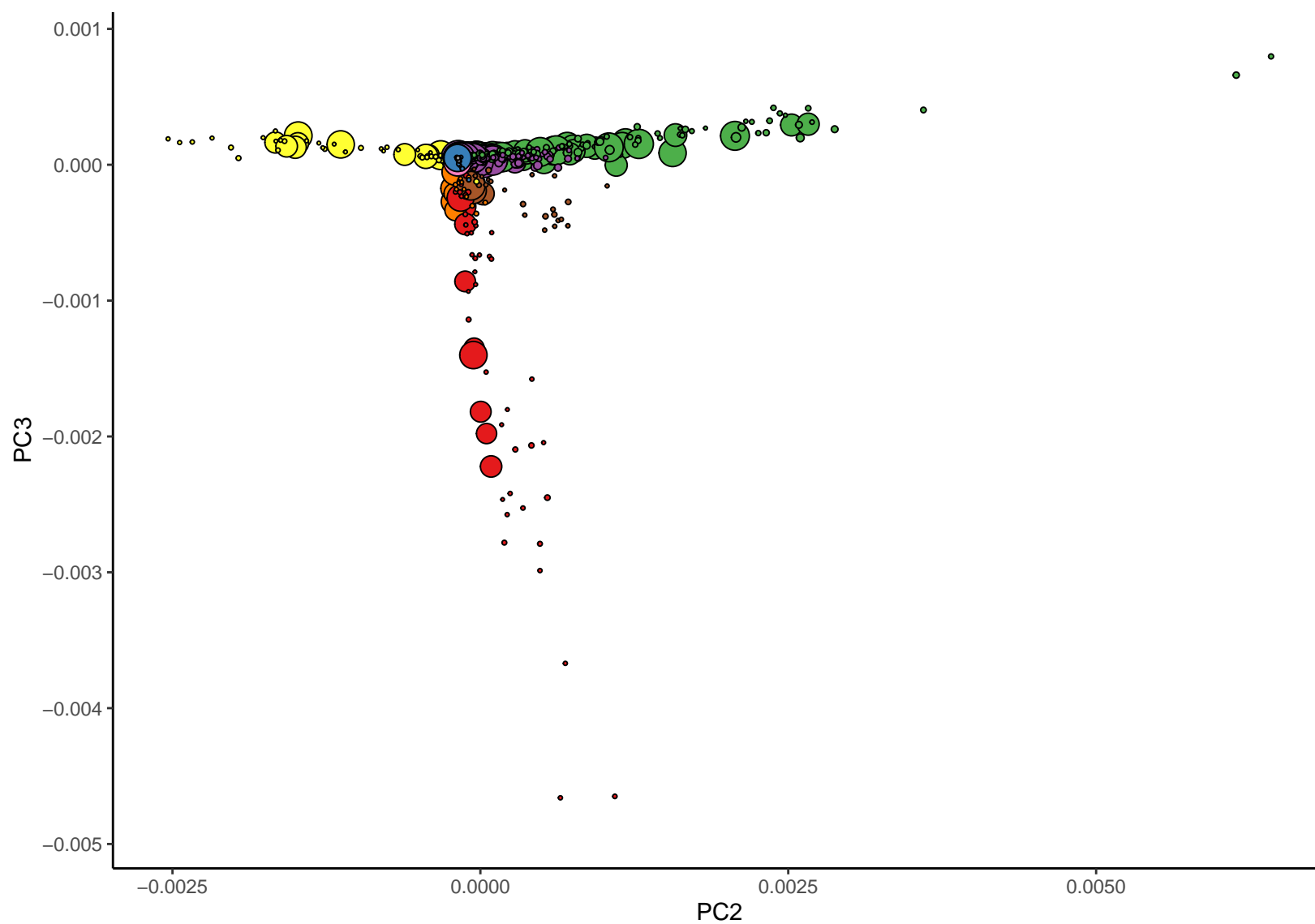
Cell Class

ASC INH OPC
END MIC PER
EXC OG VSMC

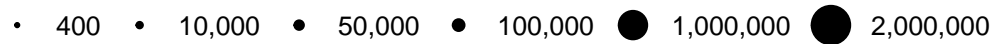
Cell Type Proportional Fidelity

762 cell types from 18 studies

8,723 protein coding genes



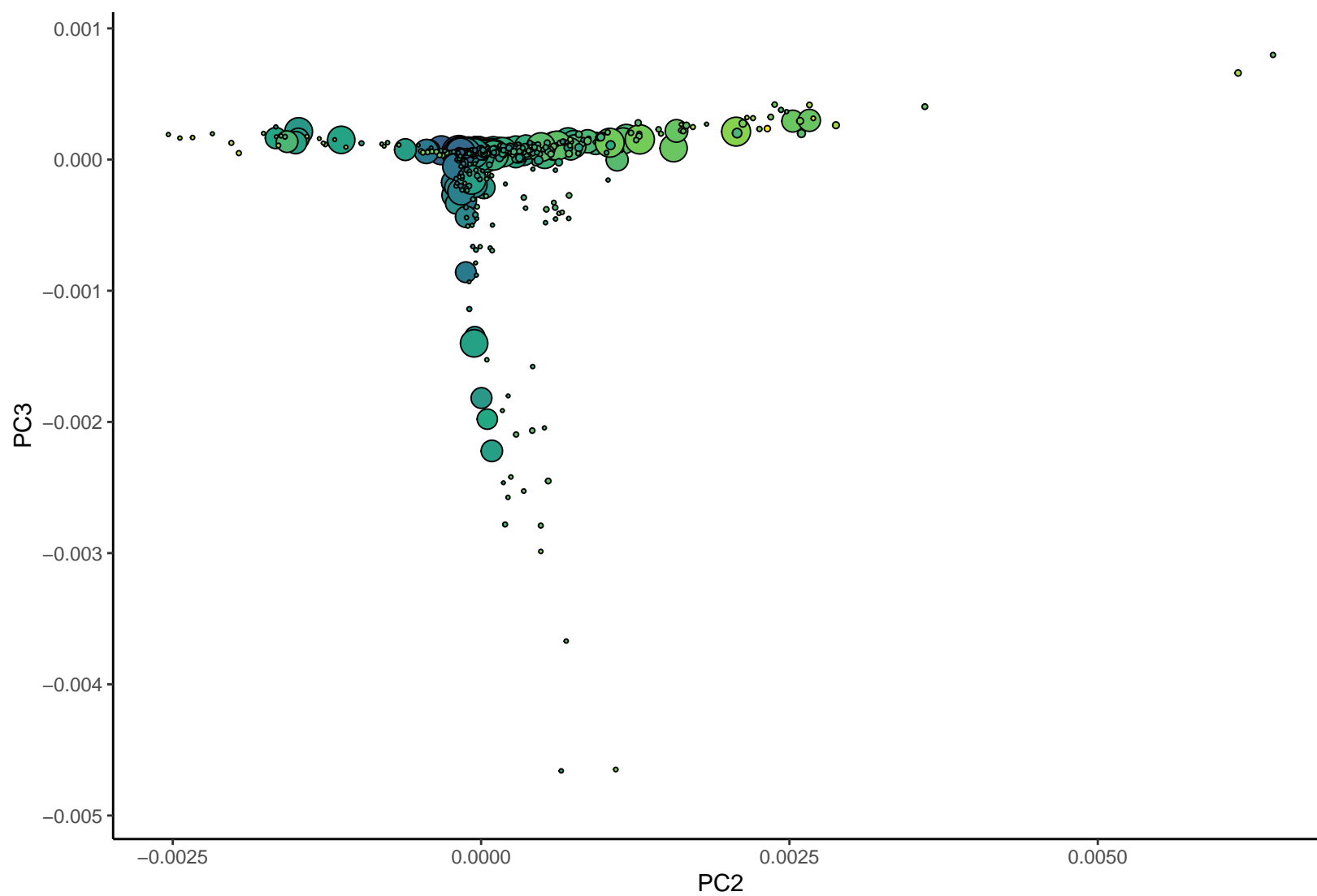
Median # UMIs



Cell Type Proportional Fidelity

762 cell types from 18 studies

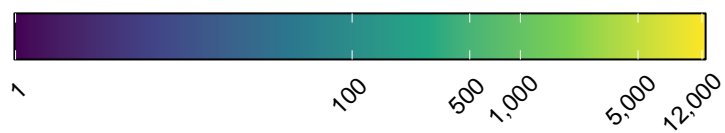
8,723 protein coding genes



Median # UMIs

• 400 • 10,000 • 50,000 • 100,000 • 1,000,000 • 2,000,000

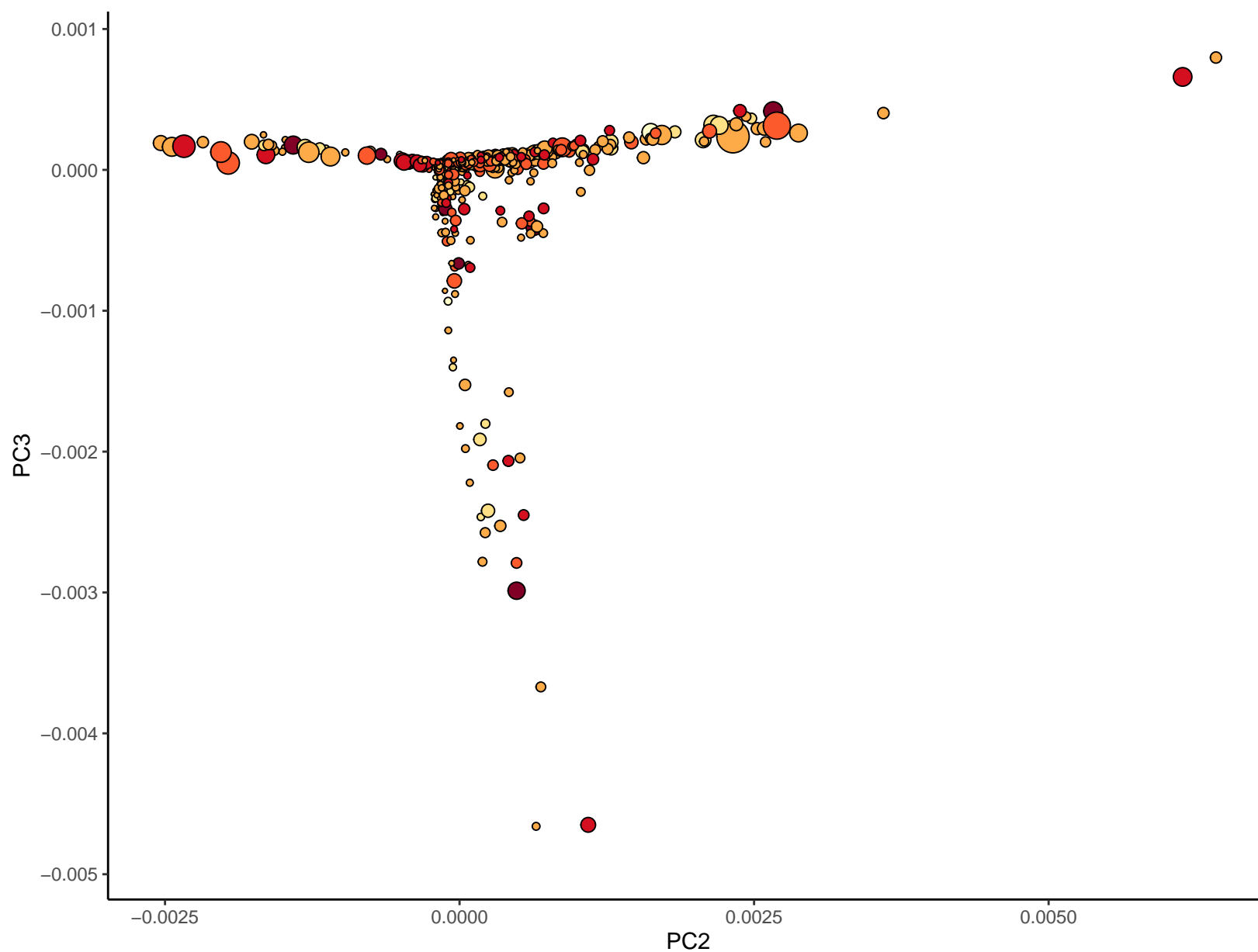
Nuclei



Cell Type Proportional Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Nuclei

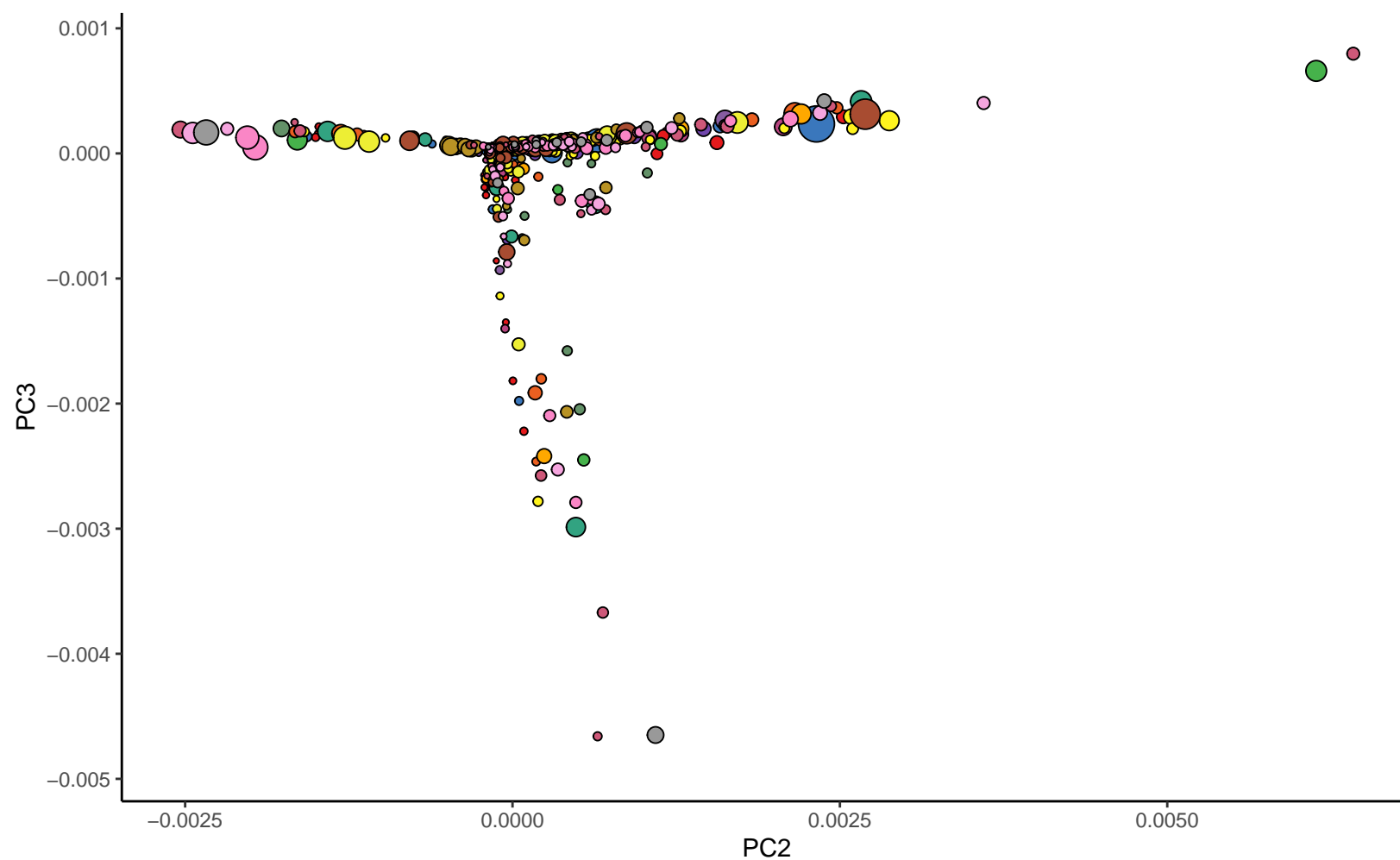
• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

Year 2017 2018 2019 2020 2021 2022

Cell Type Proportional Fidelity

762 cell types from 18 studies

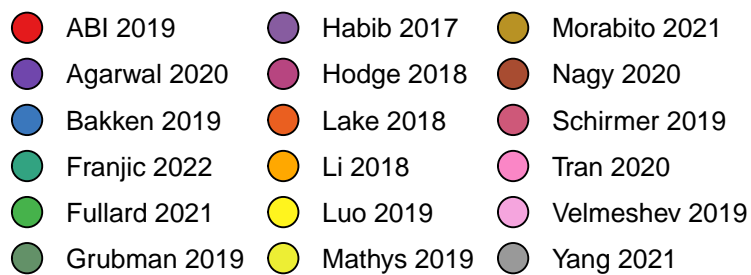
8,723 protein coding genes



Nuclei

• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

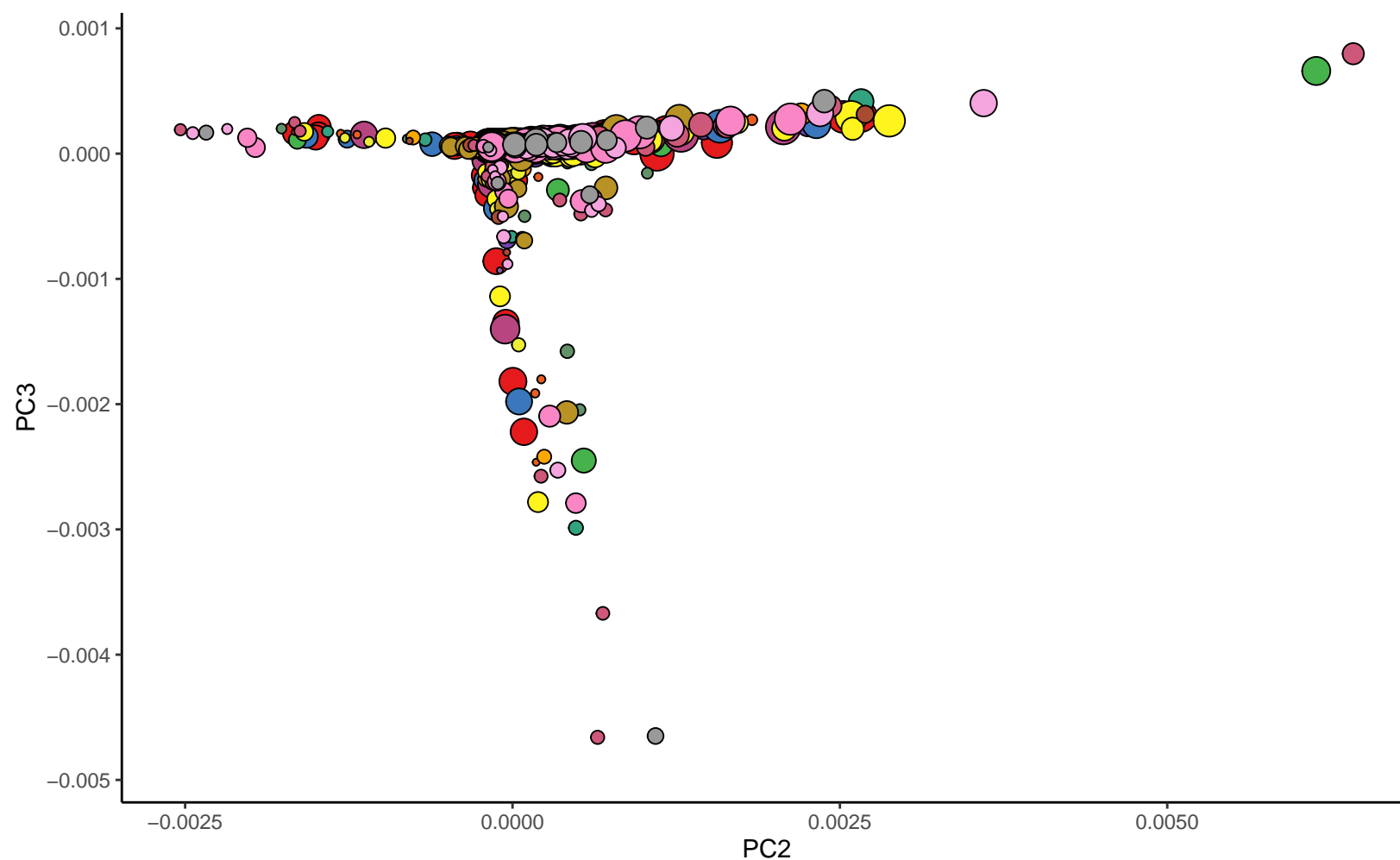
Study



Cell Type Proportional Fidelity

762 cell types from 18 studies

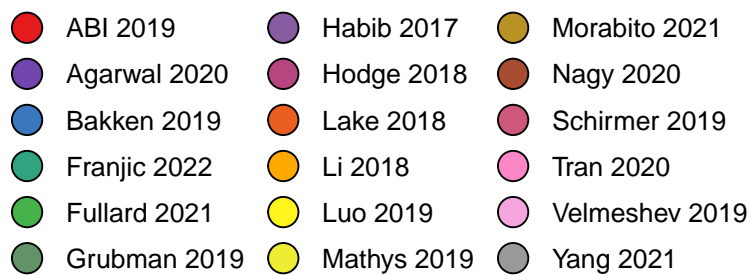
8,723 protein coding genes



Median # Unique Genes

• 300 • 1,000 • 3,000 • 6,000 • 8,000

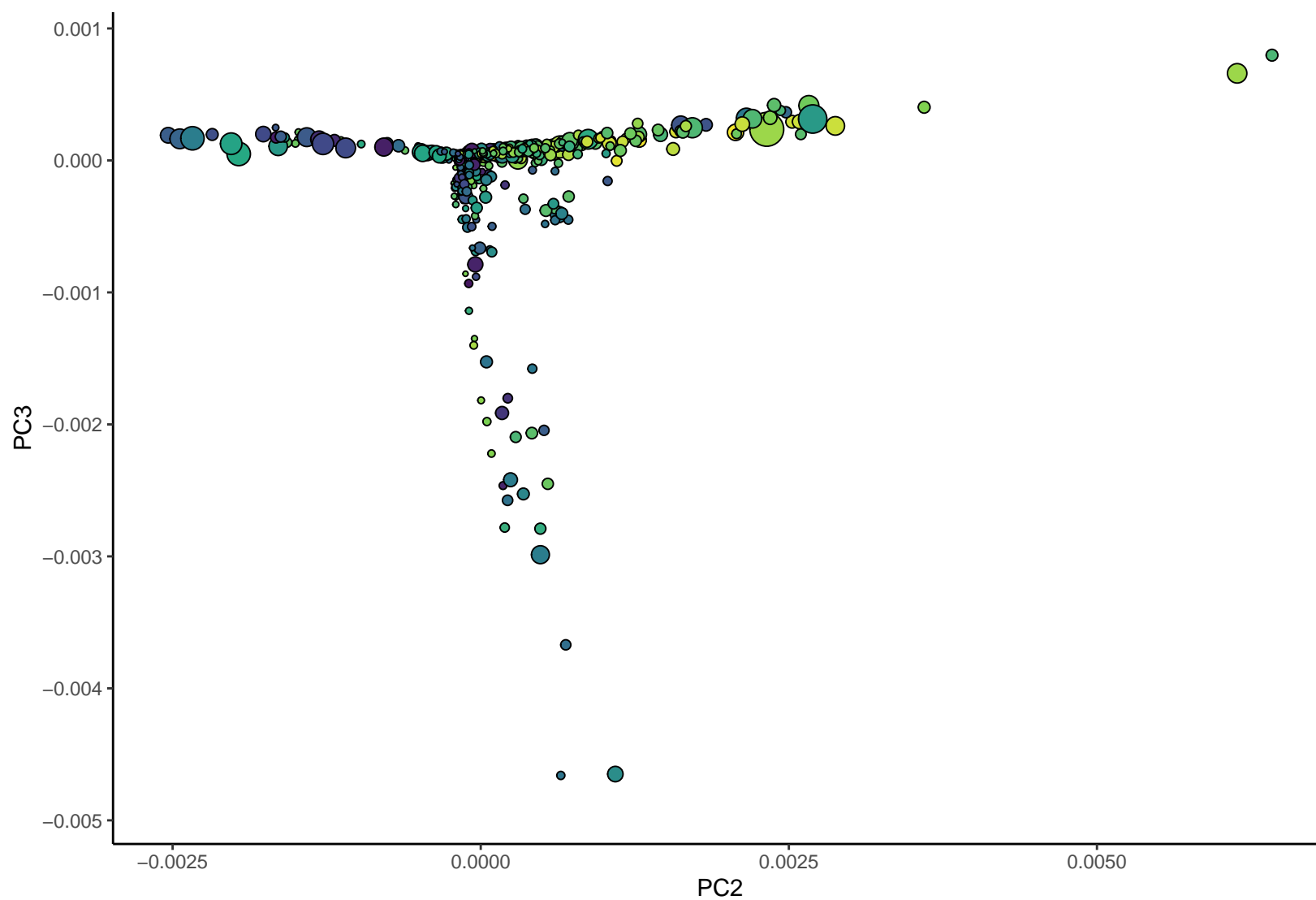
Study



Cell Type Proportional Fidelity

762 cell types from 18 studies

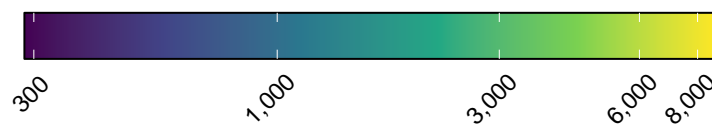
8,723 protein coding genes



Nuclei

• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

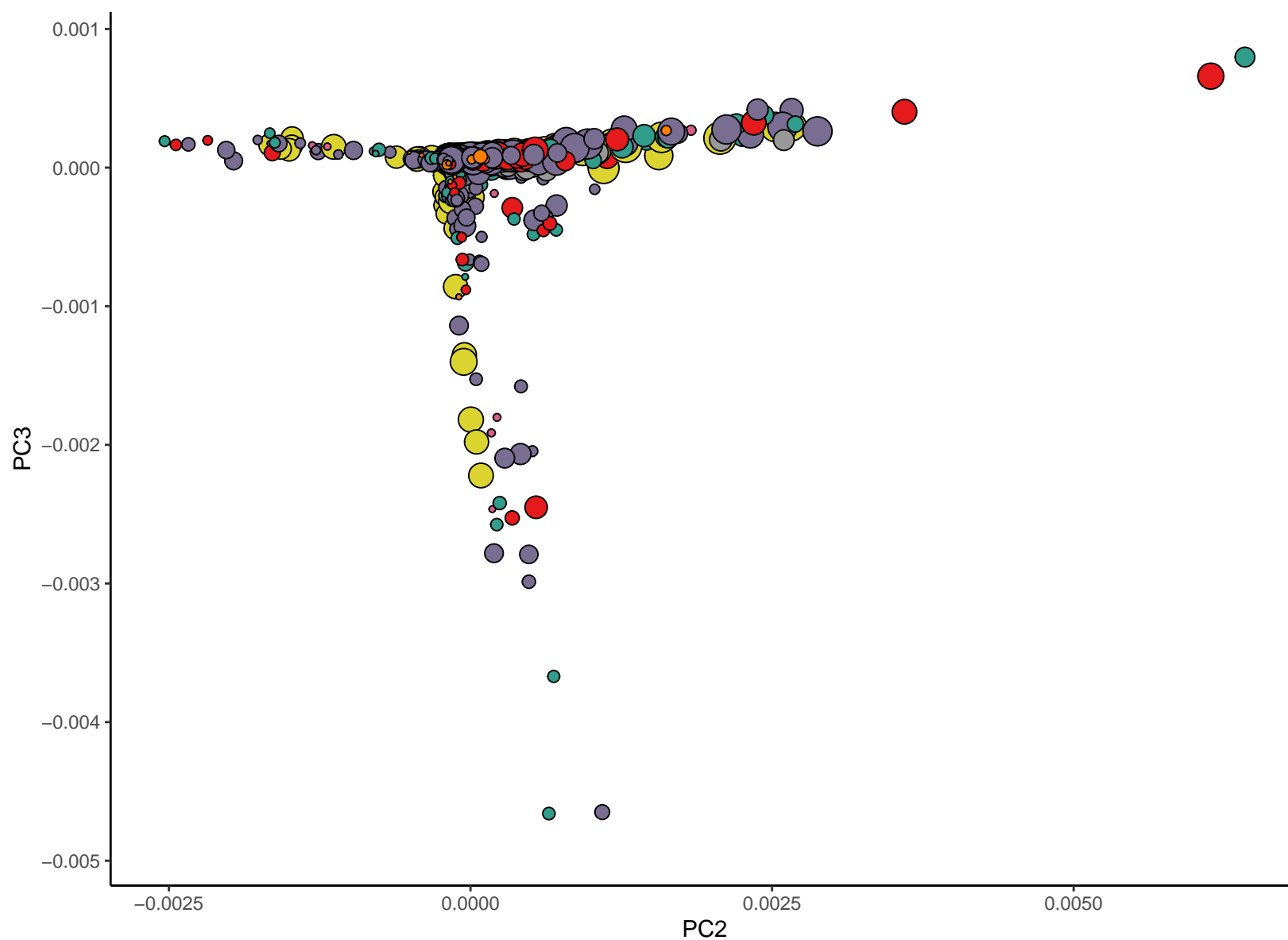
Median # Unique Genes



Cell Type Proportional Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Median # Unique Genes

• 300 • 1,000 • 3,000 • 6,000 • 8,000

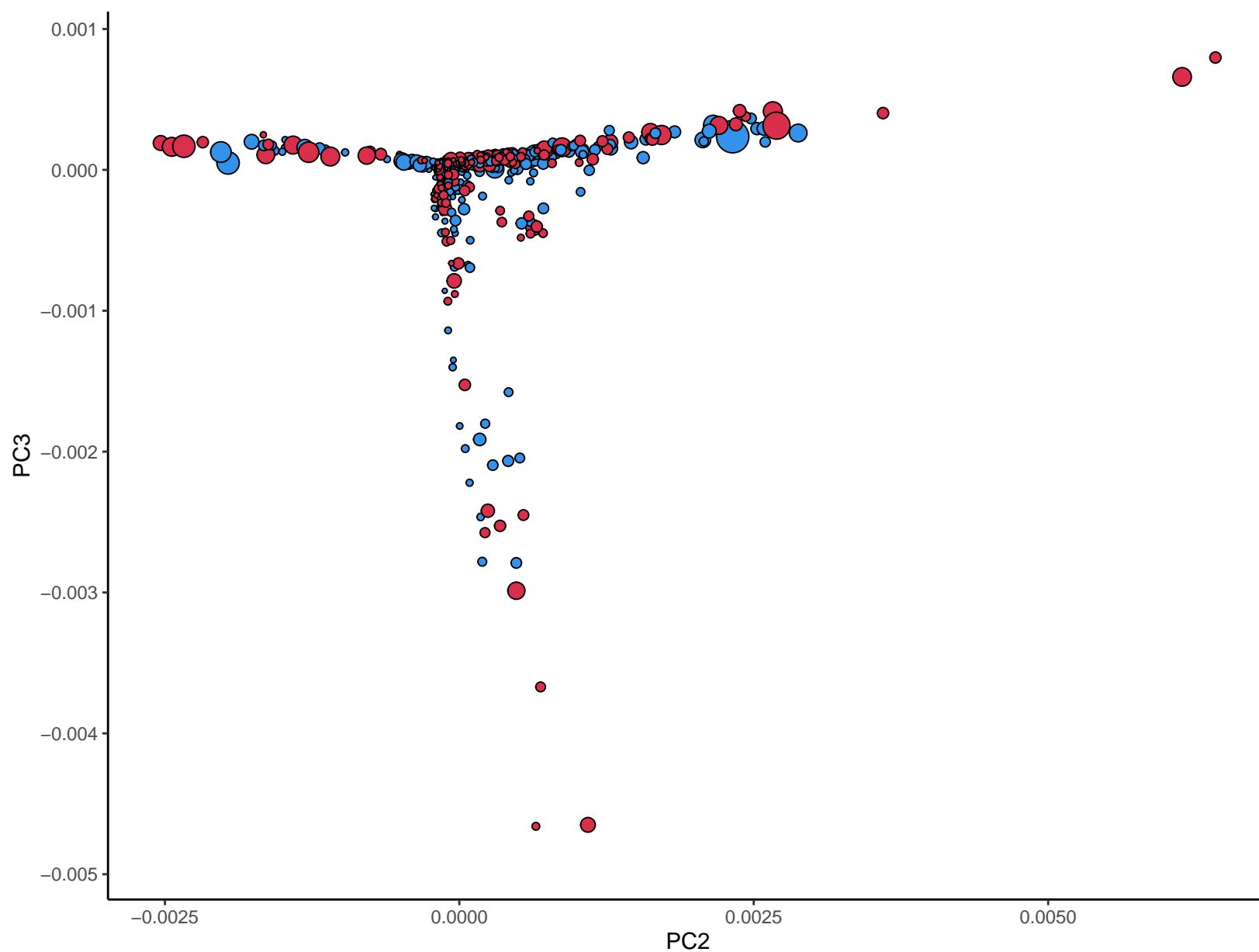
Platform

10x Chromium	10x Chromium V3	SMART-Seq v4	snmCAT-seq
10x Chromium V2	DroNc-seq	snDrop-seq	

Cell Type Proportional Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Nuclei

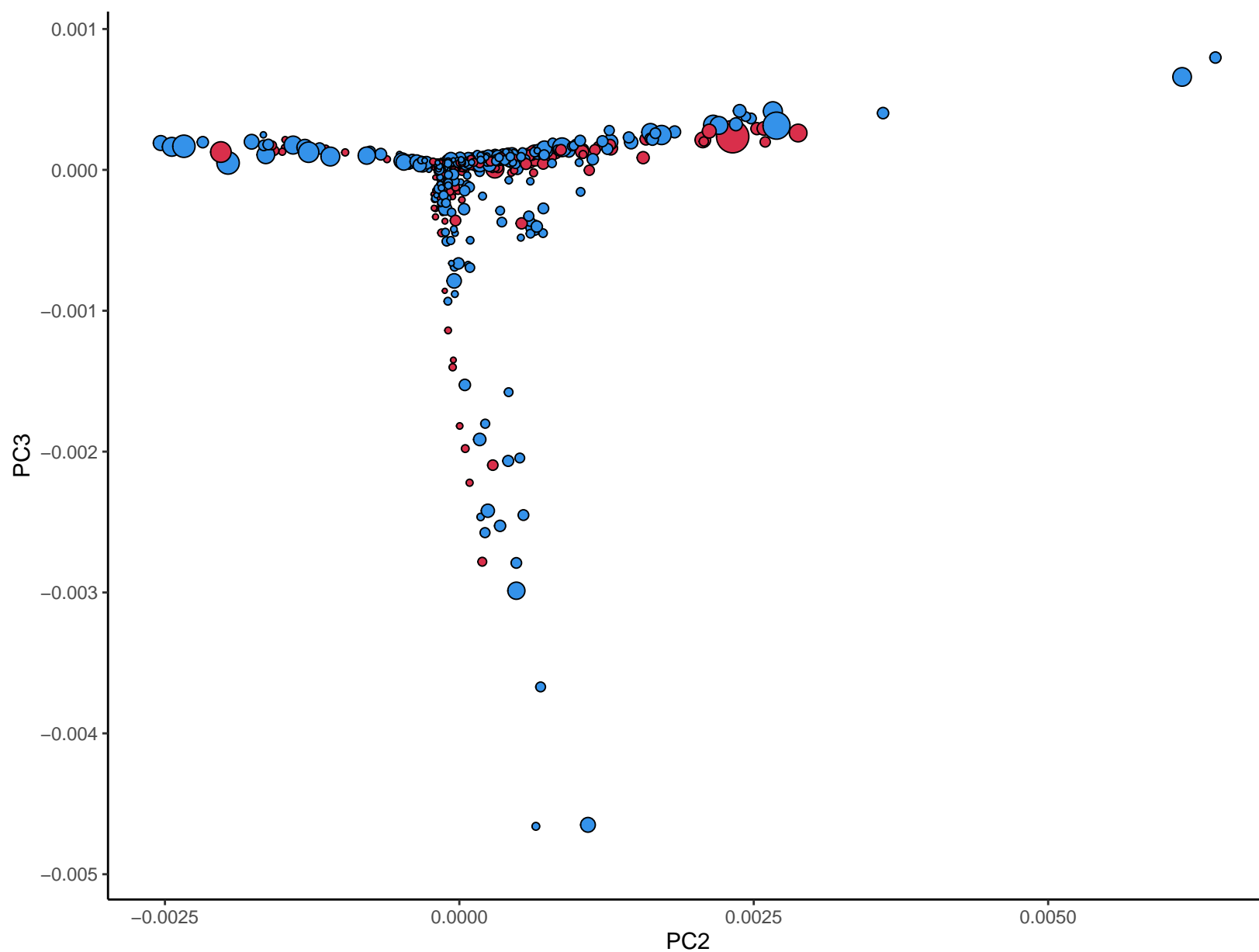
• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

FACS Y N

Cell Type Proportional Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Nuclei

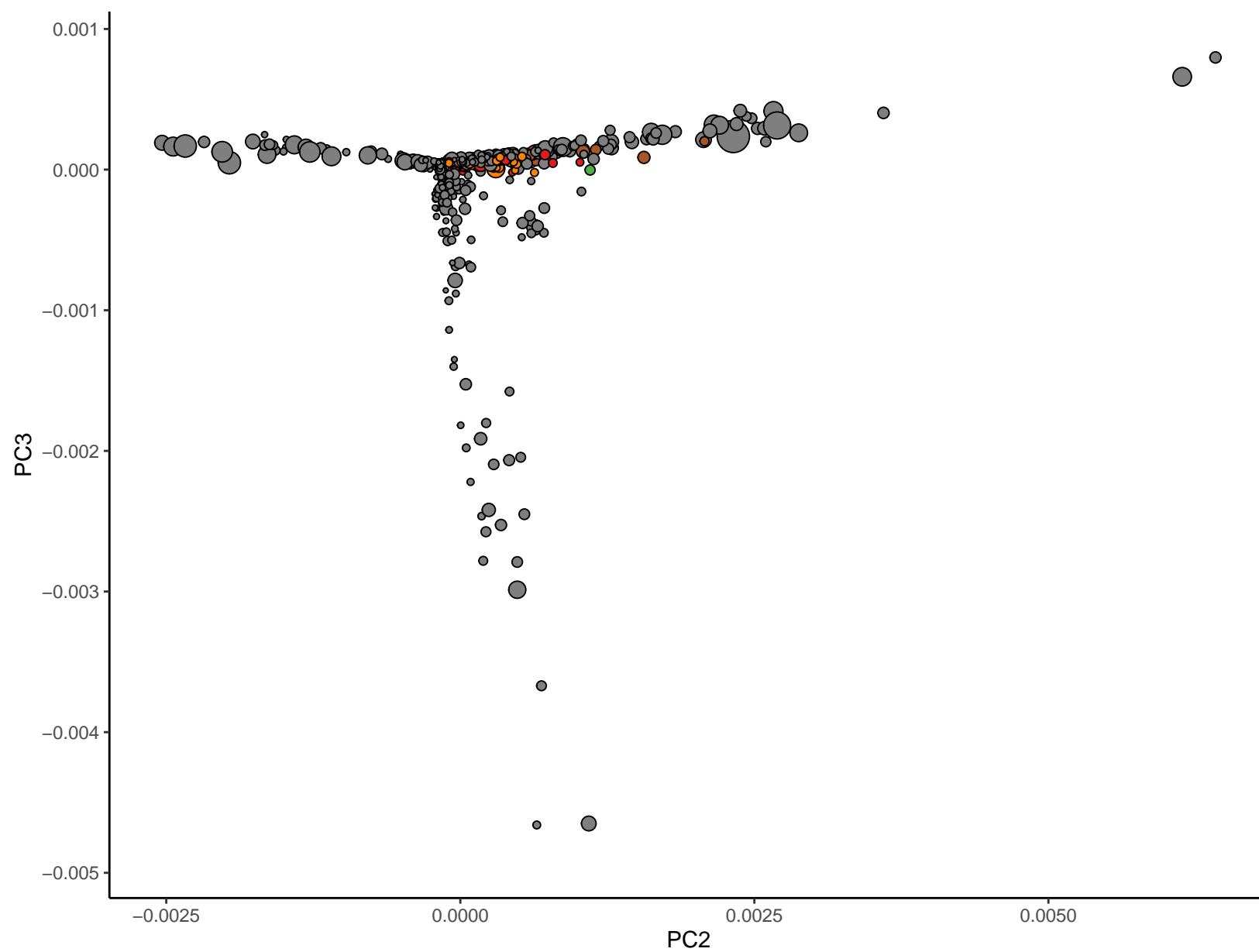
• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

Unbiased Sampling Y N

Cell Type Proportional Fidelity

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Nuclei

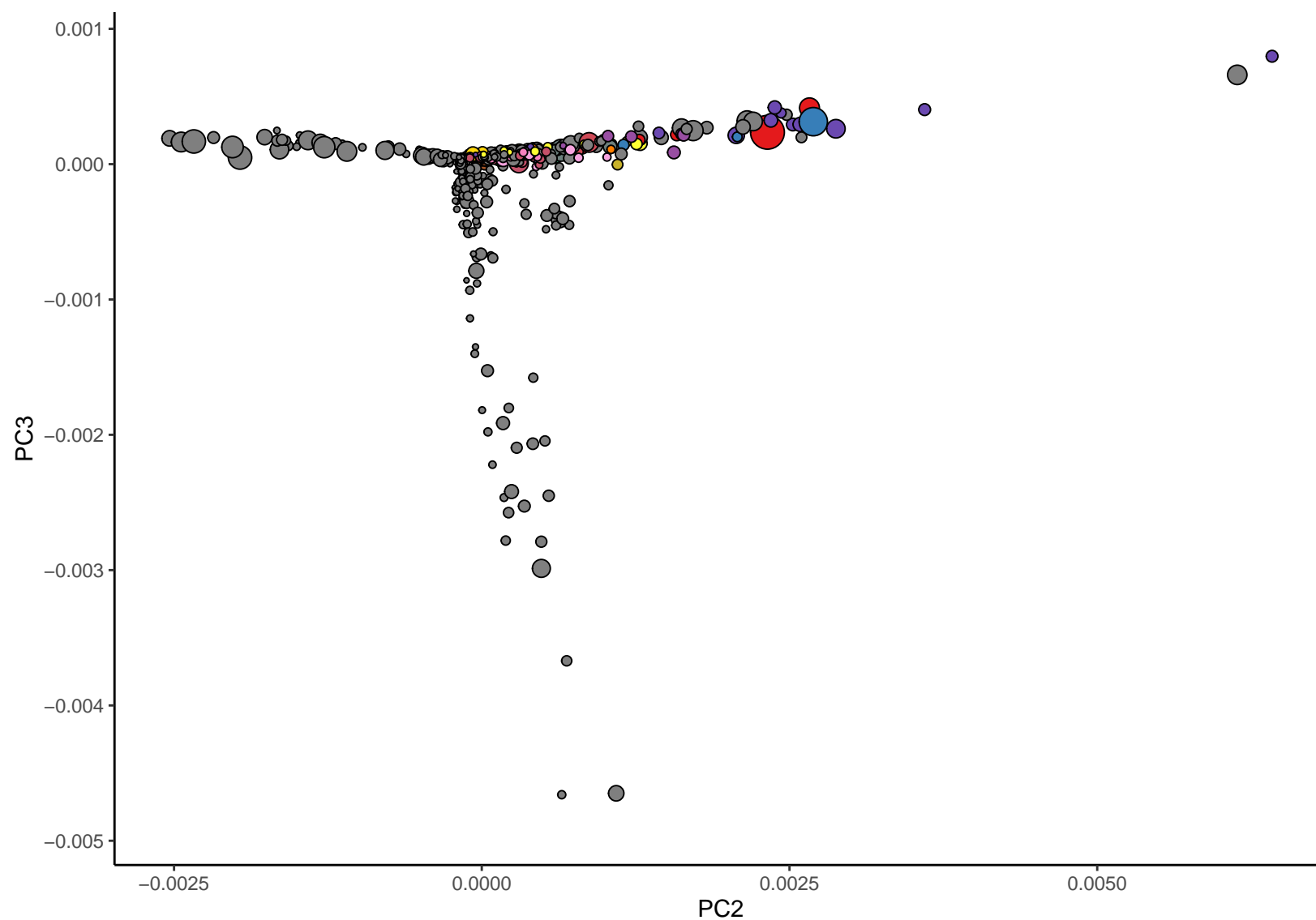
• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

Subtype • CGE • FEZF2 • MGE • RORB • NA

Cell Type Proportional Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Nuclei

• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

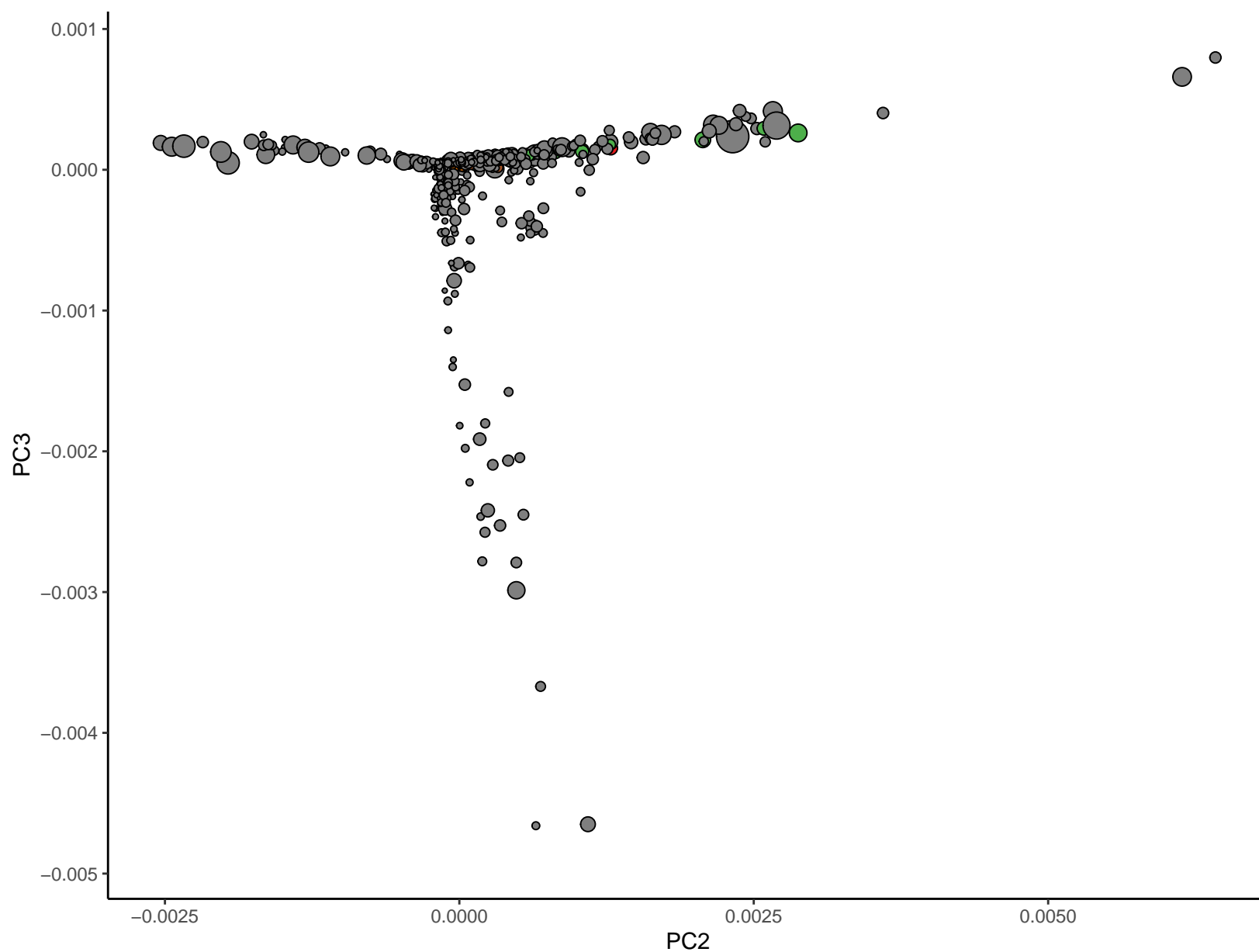
Subtype

L2	L3	L4	L5	LAMP5/PAX6	VIP
L2-3	L3-4	L4-5	L5-6	PVALB	NA
L2-4	L3-5	L4-6	L6	SST	

Cell Type Proportional Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Nuclei

• 0 • 0 • 100 • 300 • 12,400

Hodge 2018 Subtype • Exc Deep layers • Exc Superficial layers • GABAergic ADARB2 • GABAergic LHX6 • NA

762 cell types from 18 studies
8,723 protein coding genes

