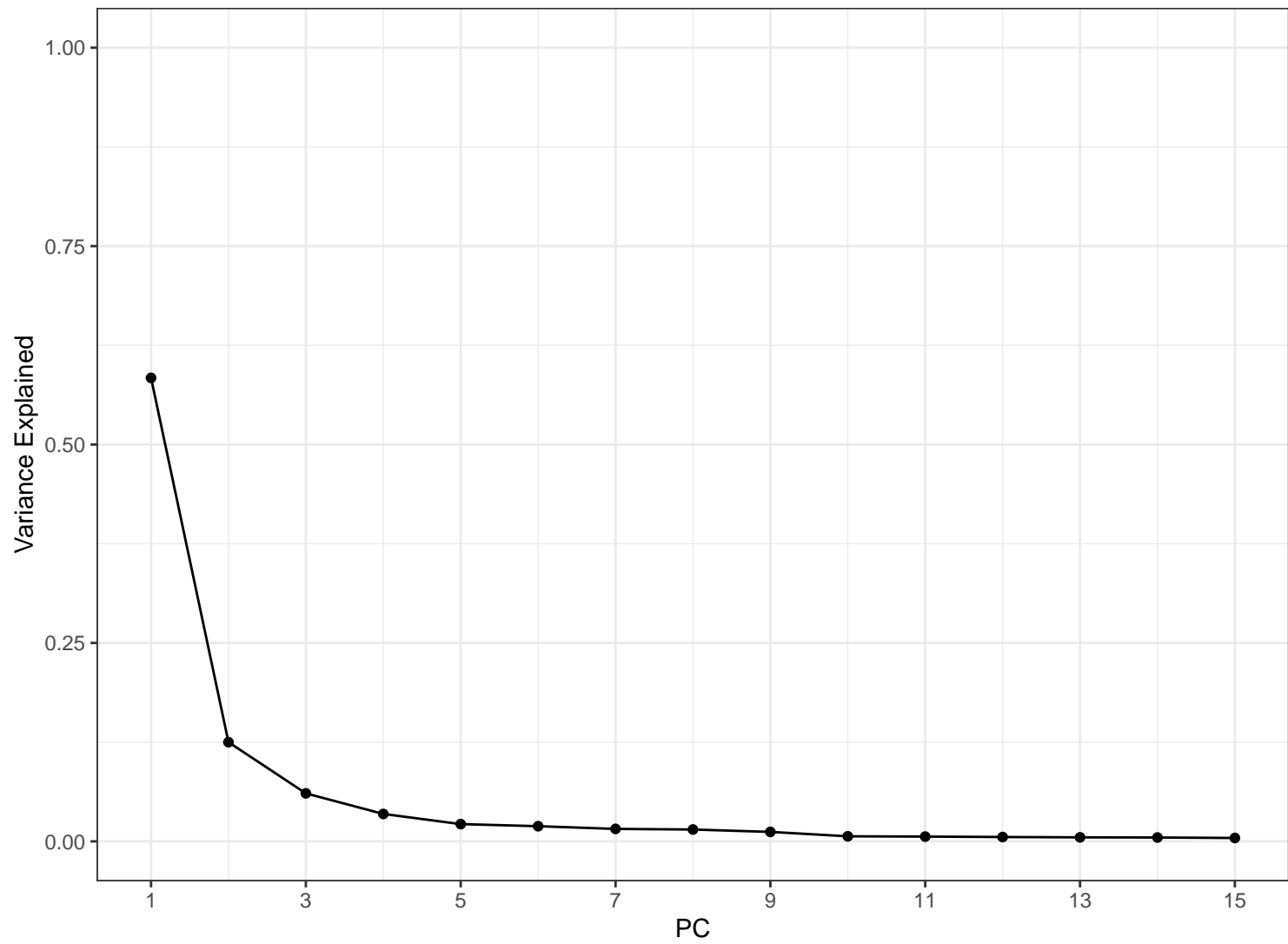


Cell Type Normalized Counts Fidelity Scree Plot

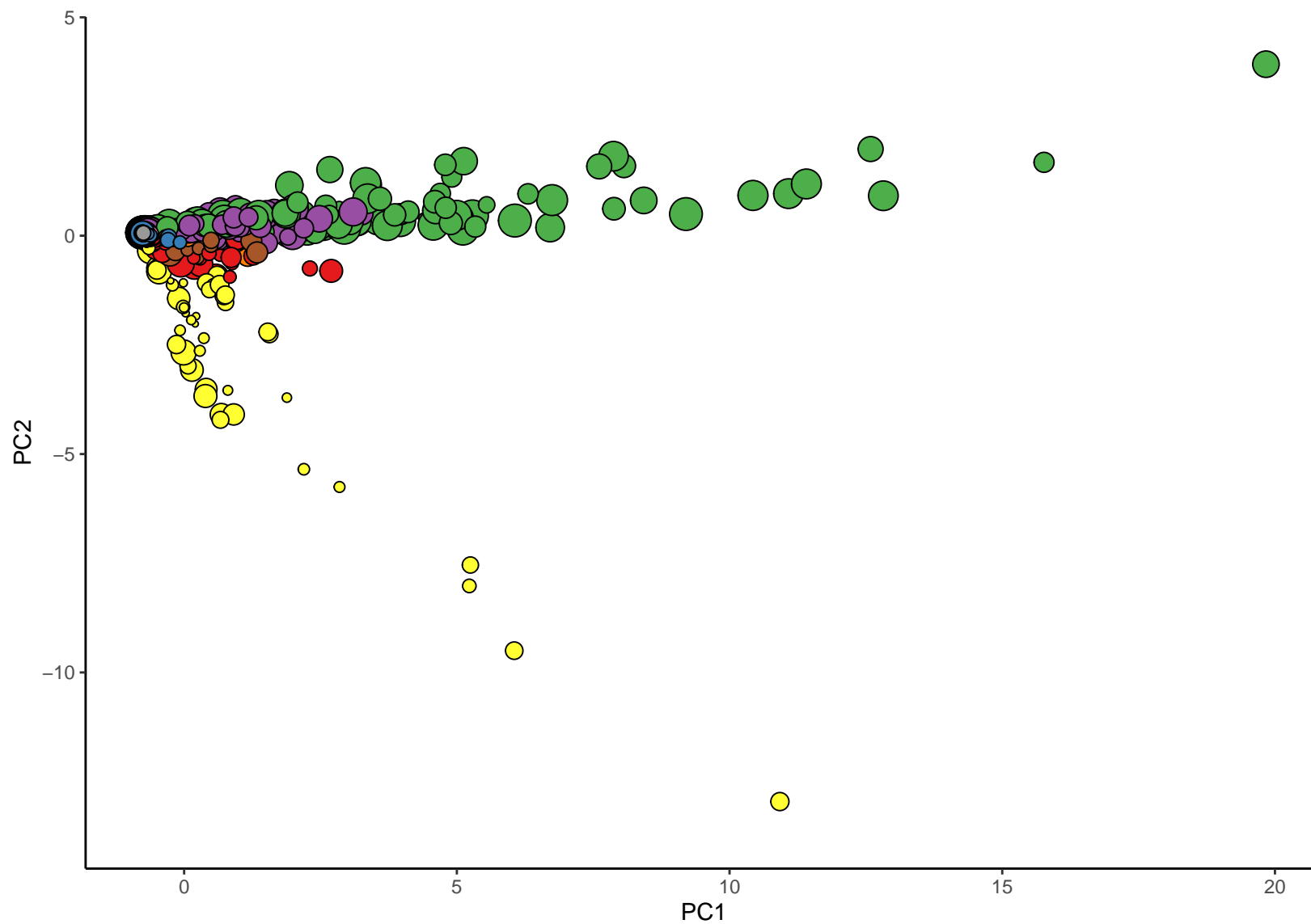
762 cell types, 30 datasets, 8,723 genes



Cell Type Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Median # Unique Genes

• 300 • 1,000 • 3,000 • 6,000 • 8,000

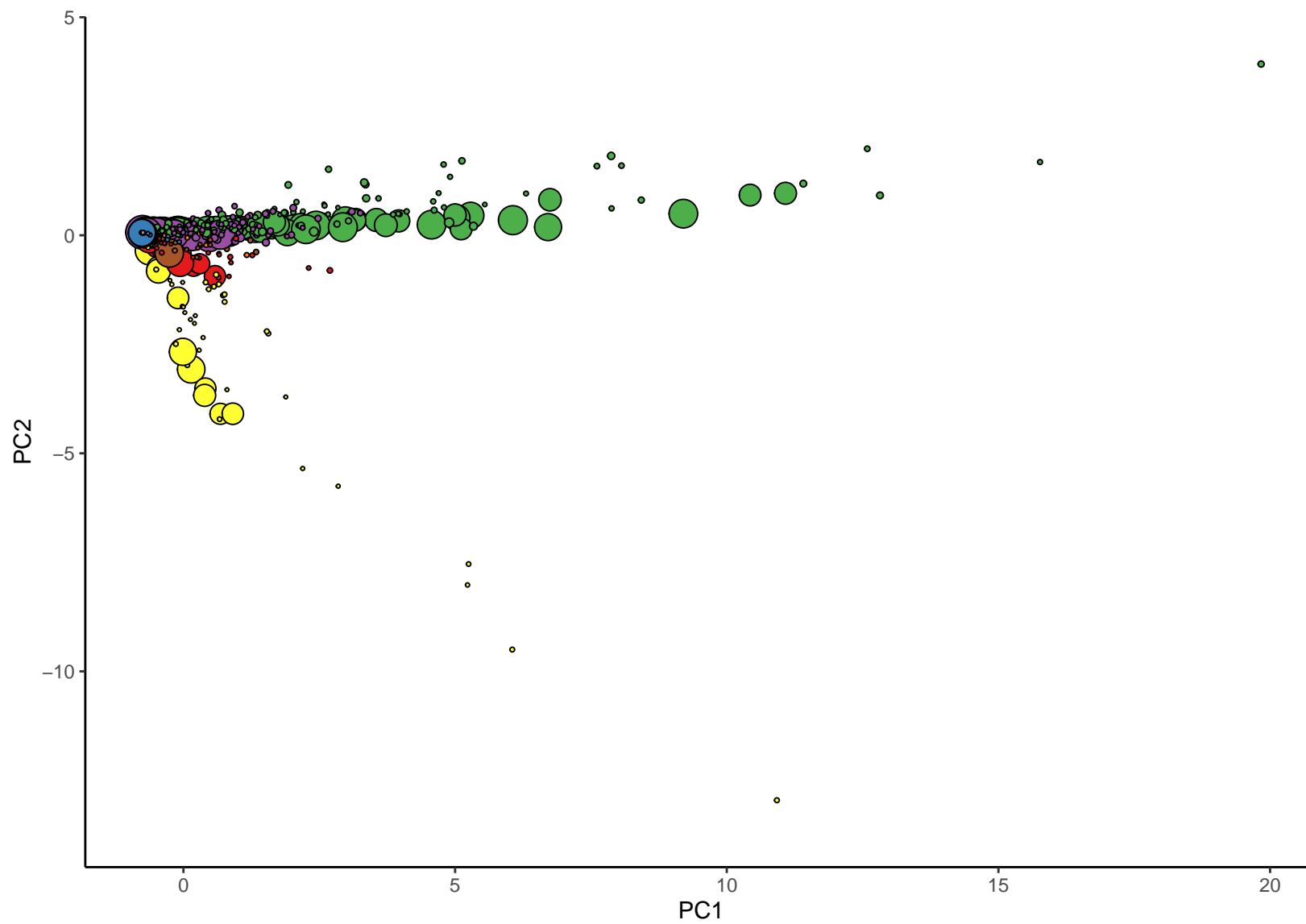
Cell Class

ASC INH OPC
END MIC PER
EXC OG VSMC

Cell Type 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

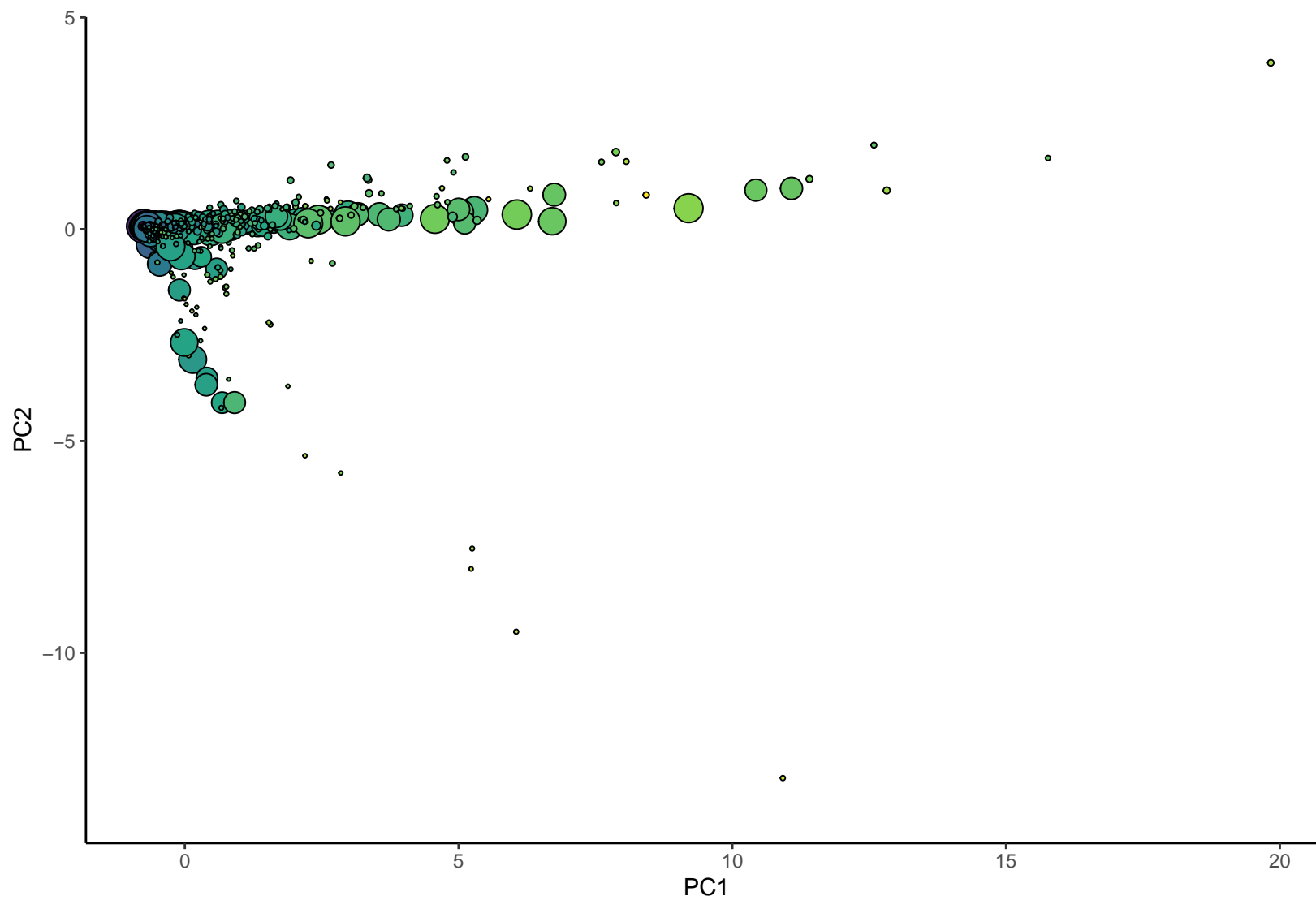
Cell Class

ASC	INH	OPC
END	MIC	PER
EXC	OG	VSMC

Cell Type Fidelity

762 cell types from 18 studies

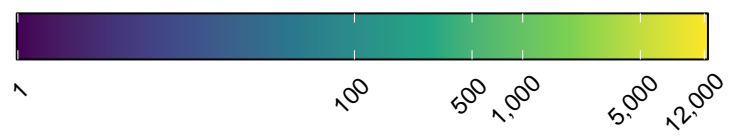
8,723 protein coding genes



Median # UMIs

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

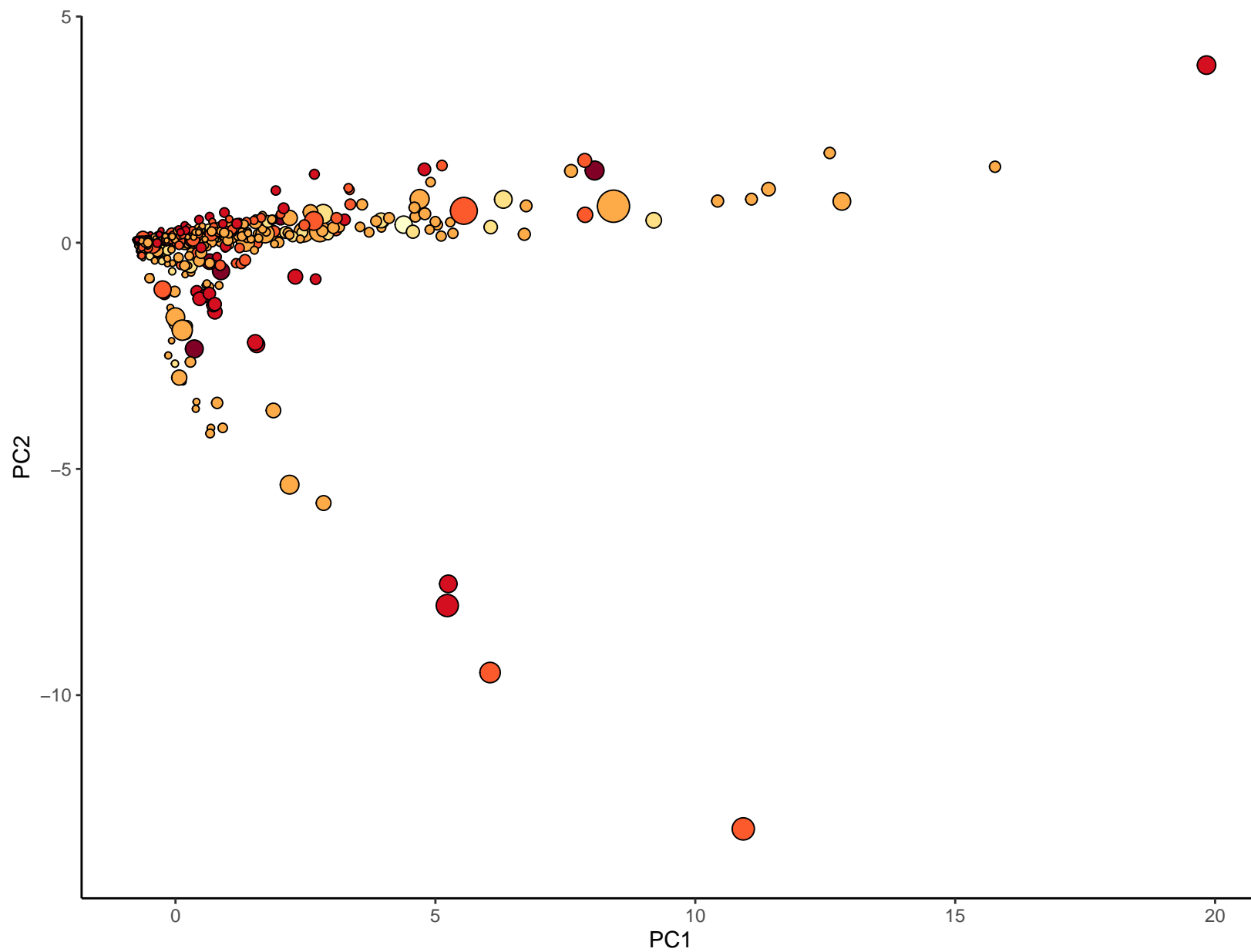
Nuclei



Cell Type Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Nuclei

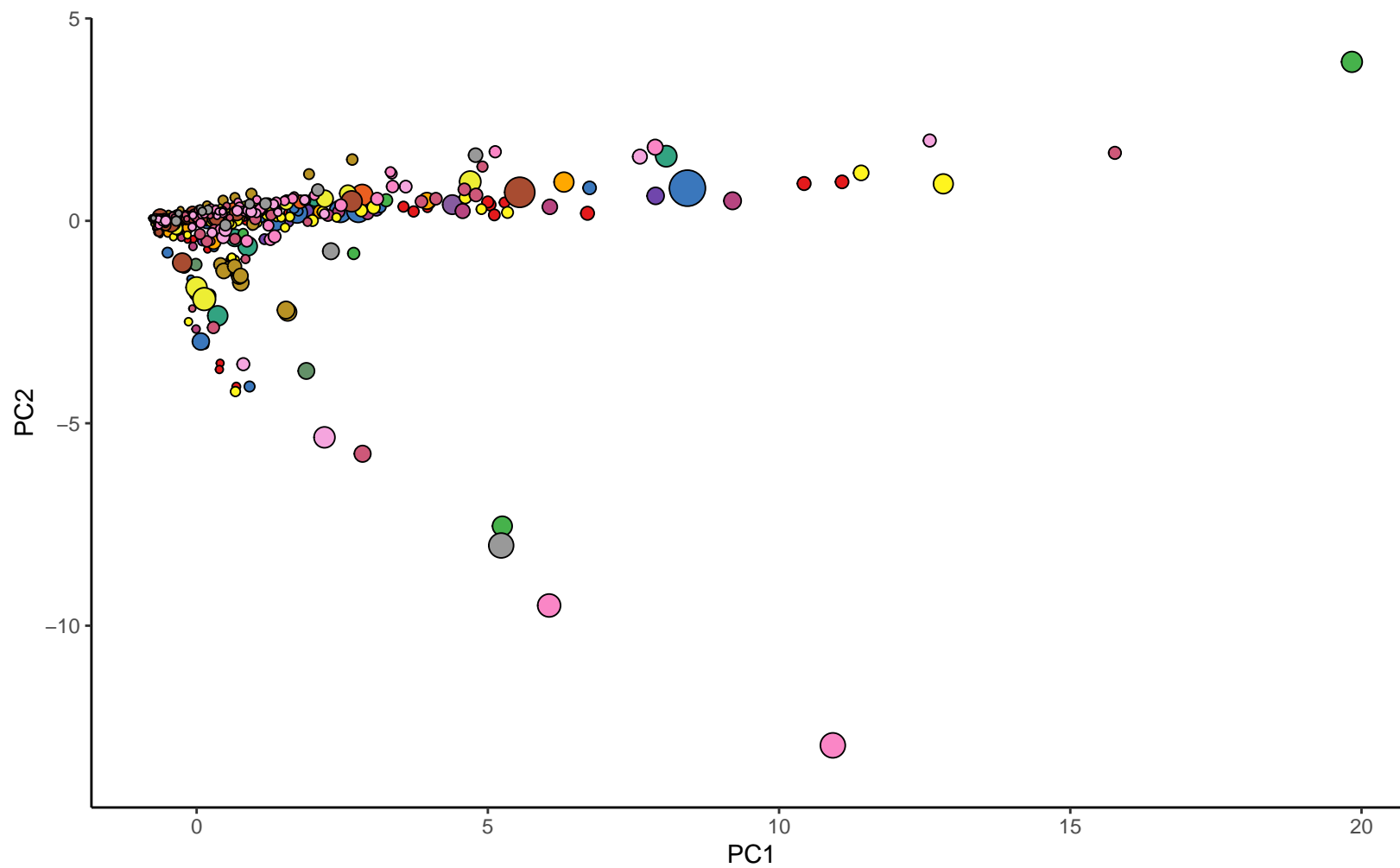
• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

Year ○ 2017 ○ 2018 ○ 2019 ○ 2020 ○ 2021 ○ 2022

Cell Type Fidelity

762 cell types from 18 studies

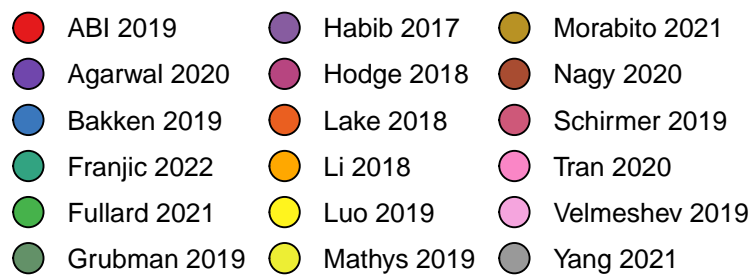
8,723 protein coding genes



Nuclei

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

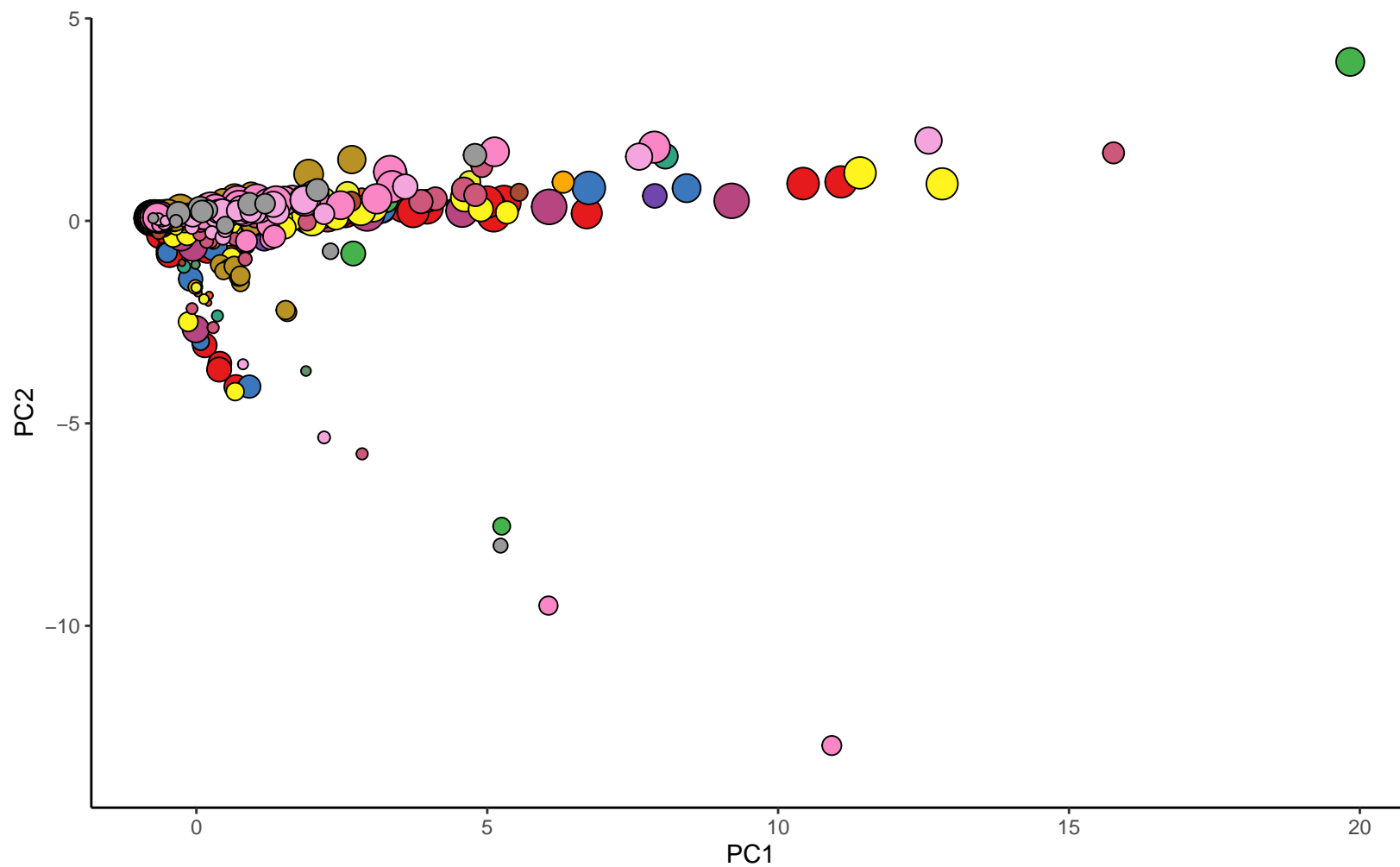
Study



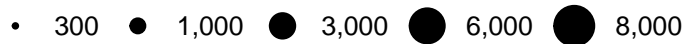
Cell Type Fidelity

762 cell types from 18 studies

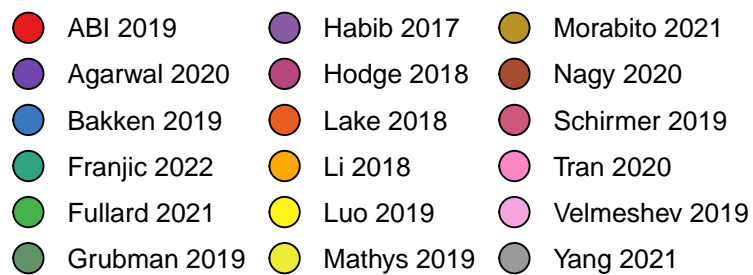
8,723 protein coding genes



Median # Unique Genes



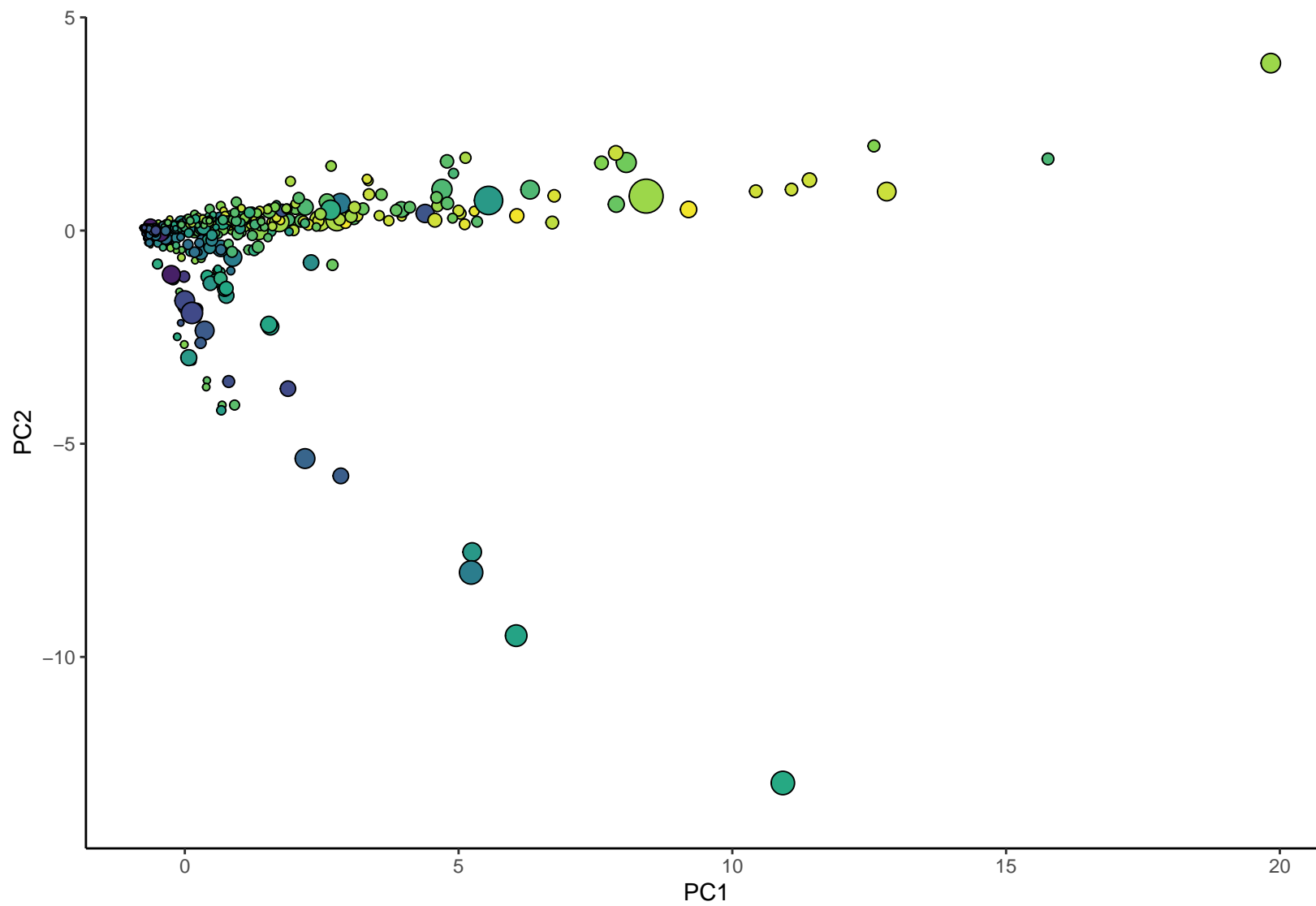
Study



Cell Type Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Nuclei

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

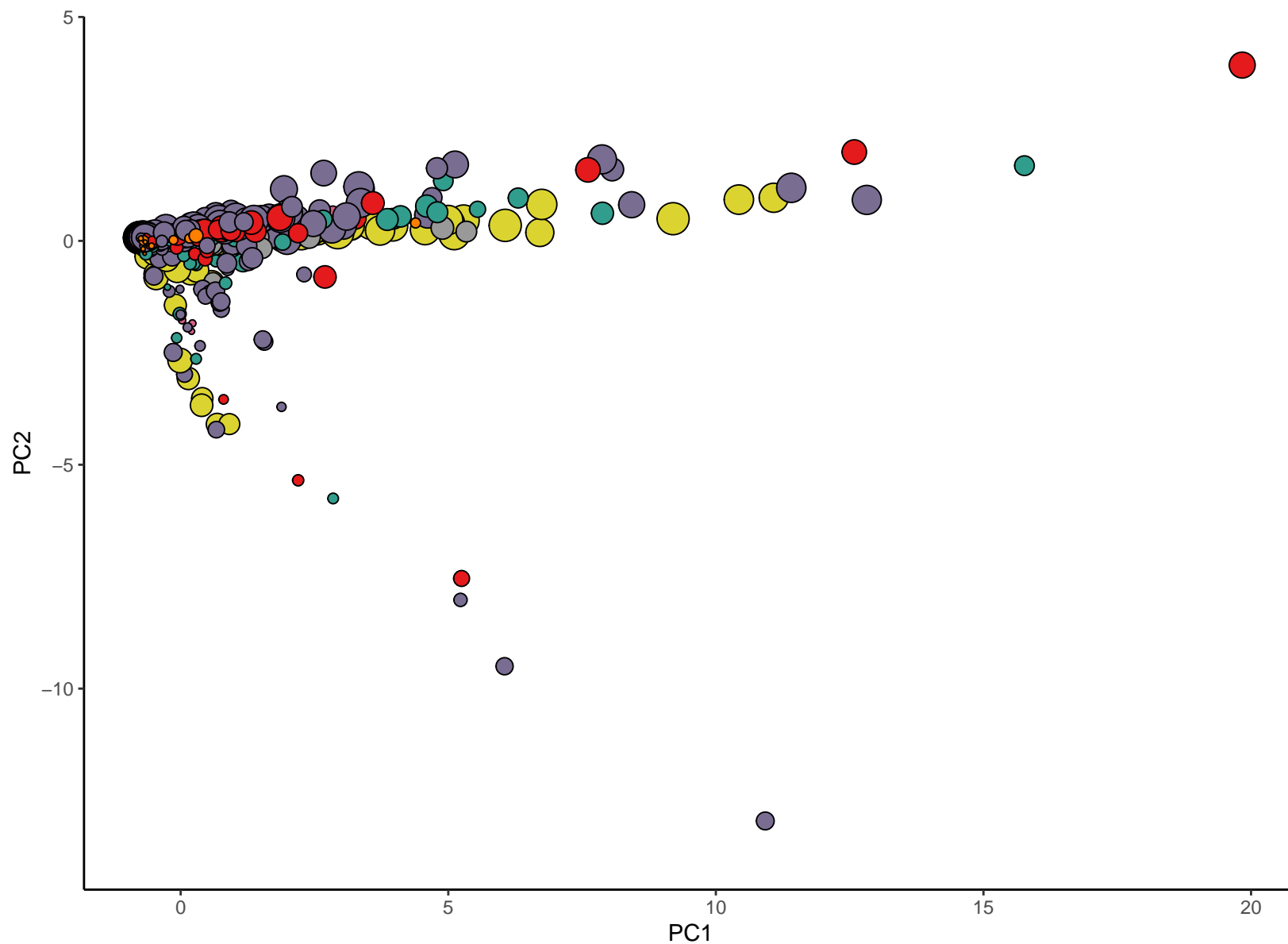
Median # Unique Genes



Cell Type Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Median # Unique Genes

• 300 • 1,000 • 3,000 • 6,000 • 8,000

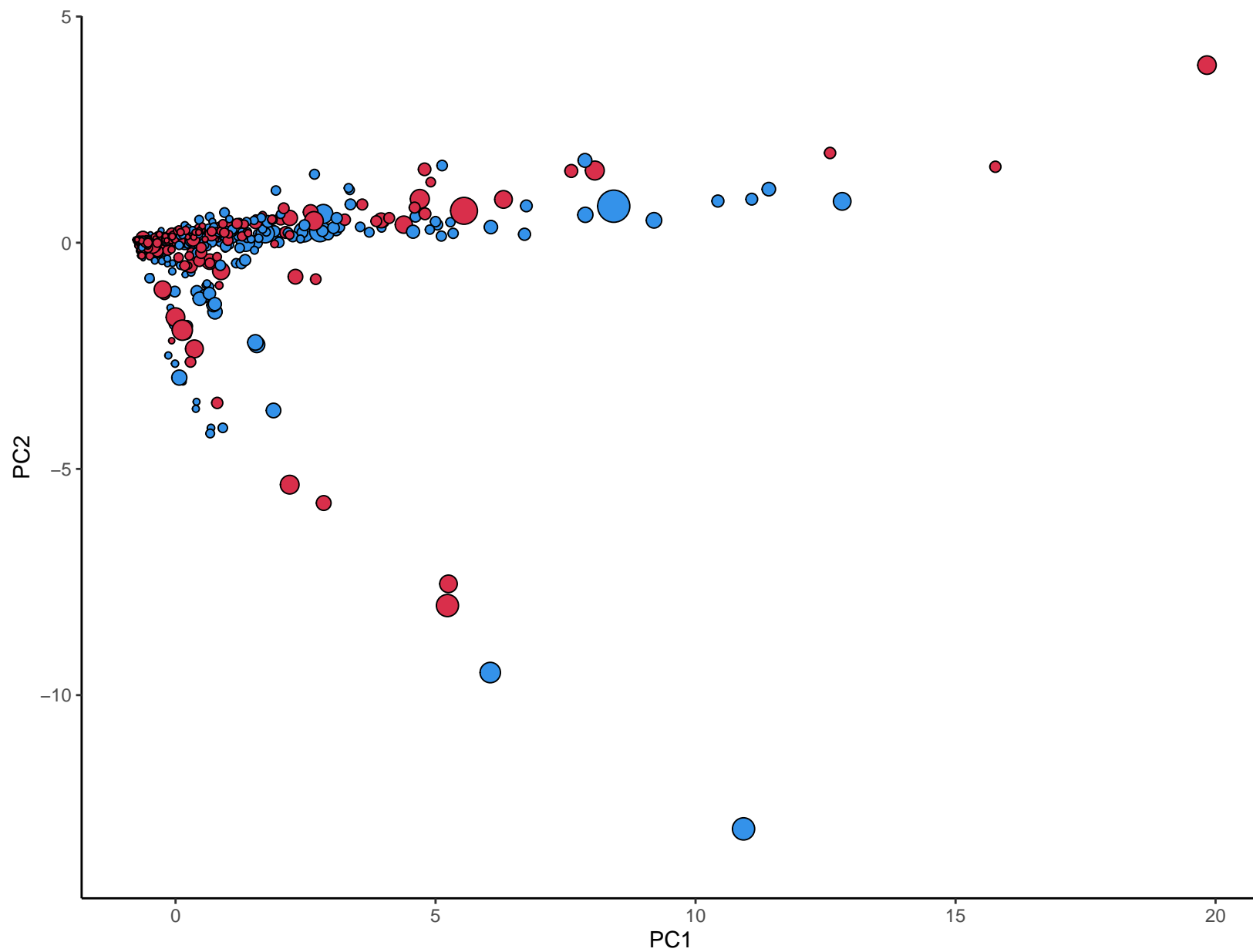
Platform

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

Cell Type Fidelity

762 cell types from 18 studies

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Nuclei

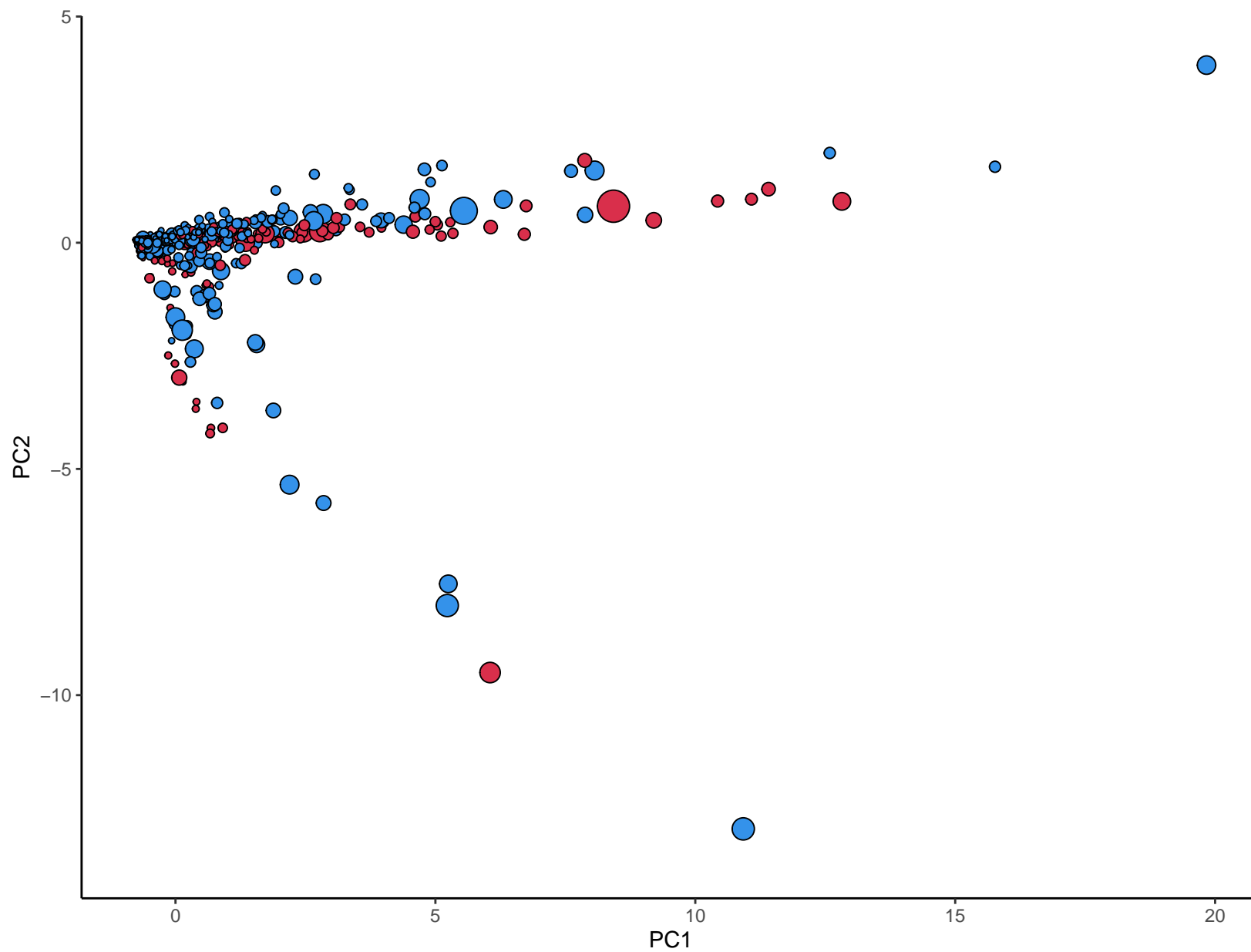
• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

FACS Y N

Cell Type Fidelity

762 cell types from 18 studies

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Nuclei

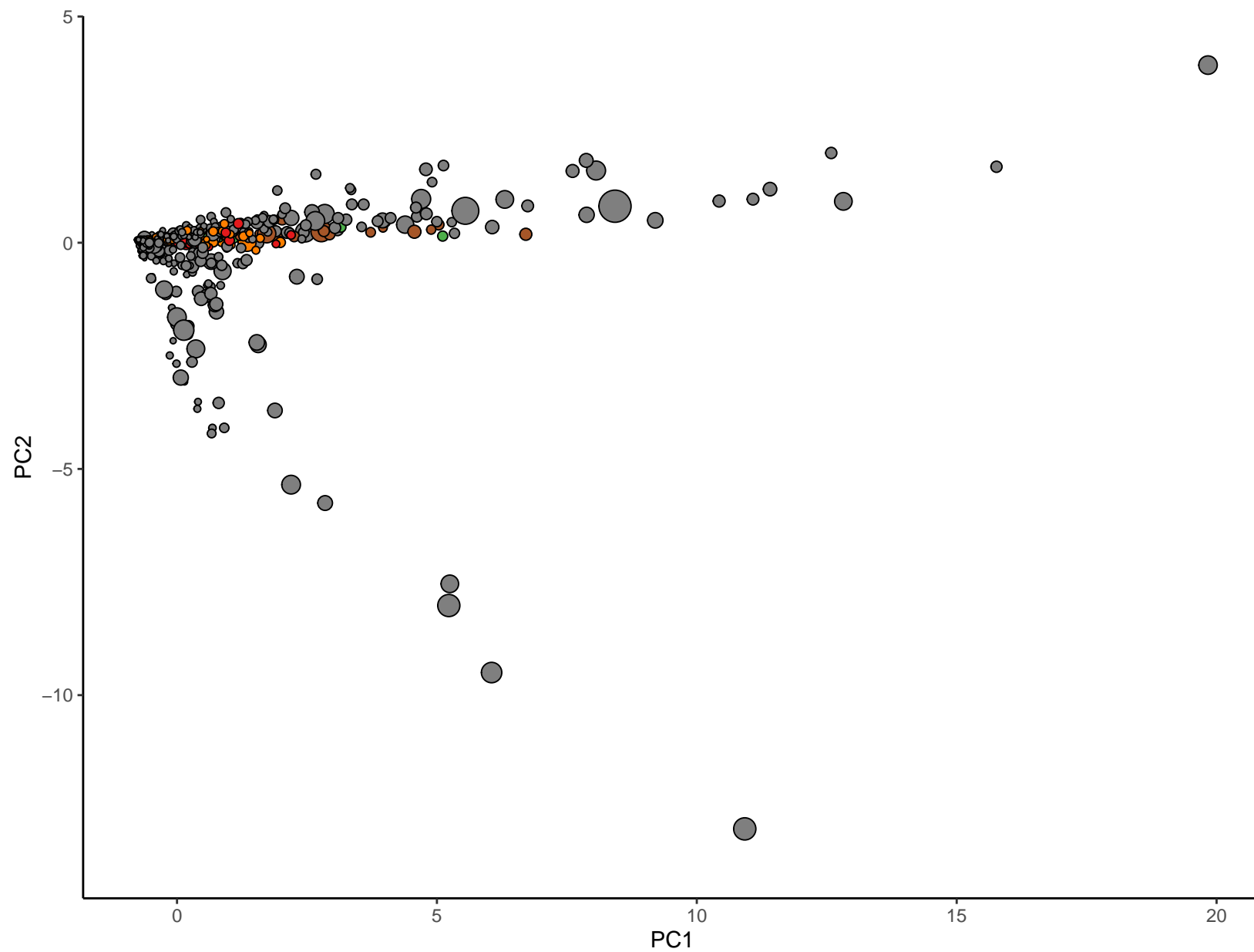
• 1 • 100 • 500 • 1,000 • 5,000 • 12,000

Unbiased Sampling ● Y ● N

Cell Type Fidelity

762 cell types from 18 studies

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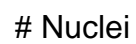


Nuclei

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

Subtype CGE FEZF2 MGE RORB NA

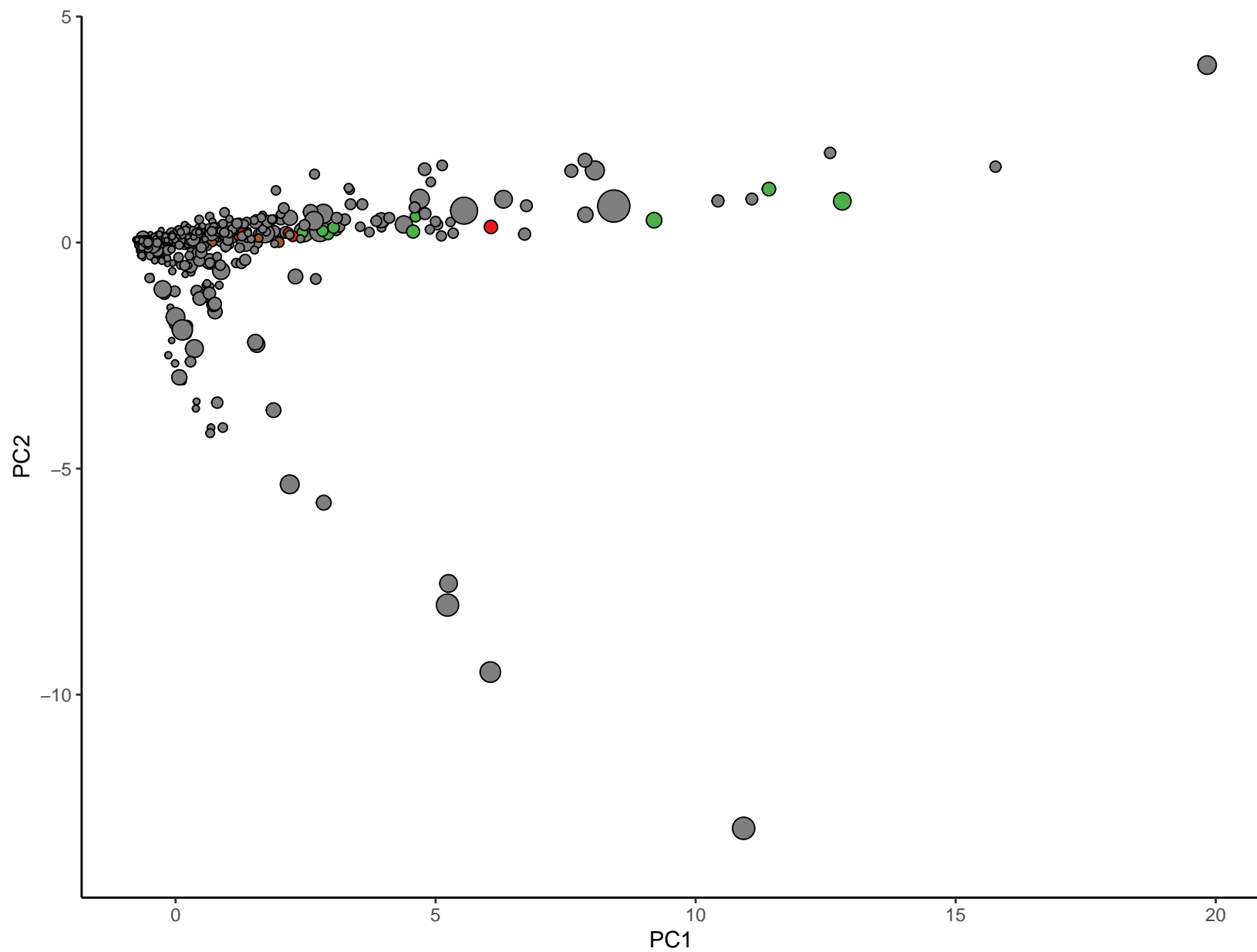
762 cell types from 18 studies
8,723 protein coding genes



Cell Type Fidelity

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Nuclei

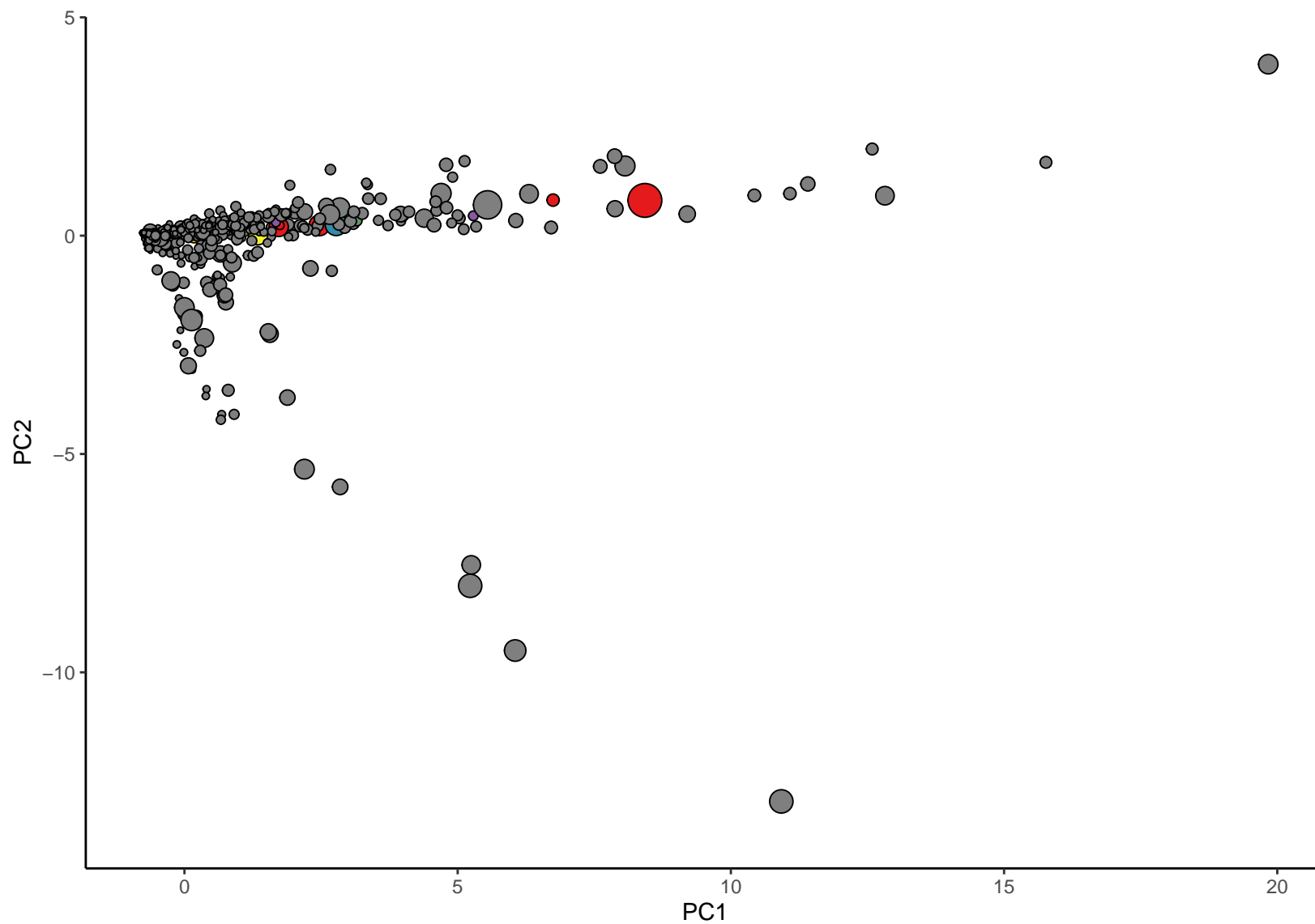


Hodge 2018 Subtype ● Exc Deep layers ● Exc Superficial layers ● GABAergic ADARB2 ● GABAergic LHX6 ● NA

Cell Type Fidelity

762 cell types from 18 studies

8,723 protein coding genes



Nuclei

