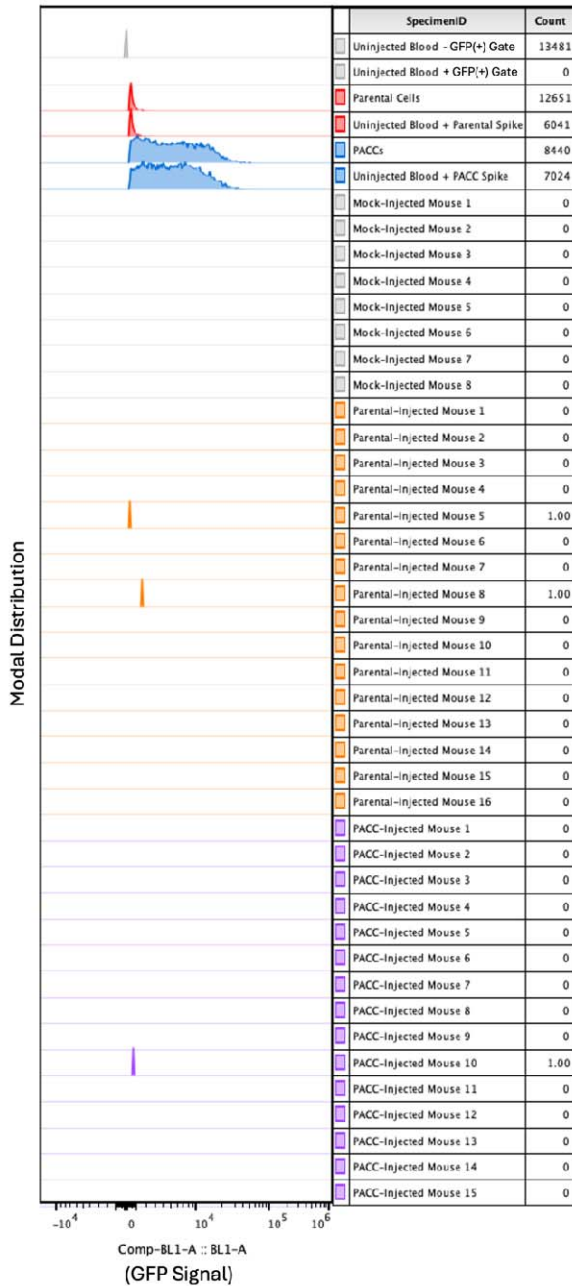
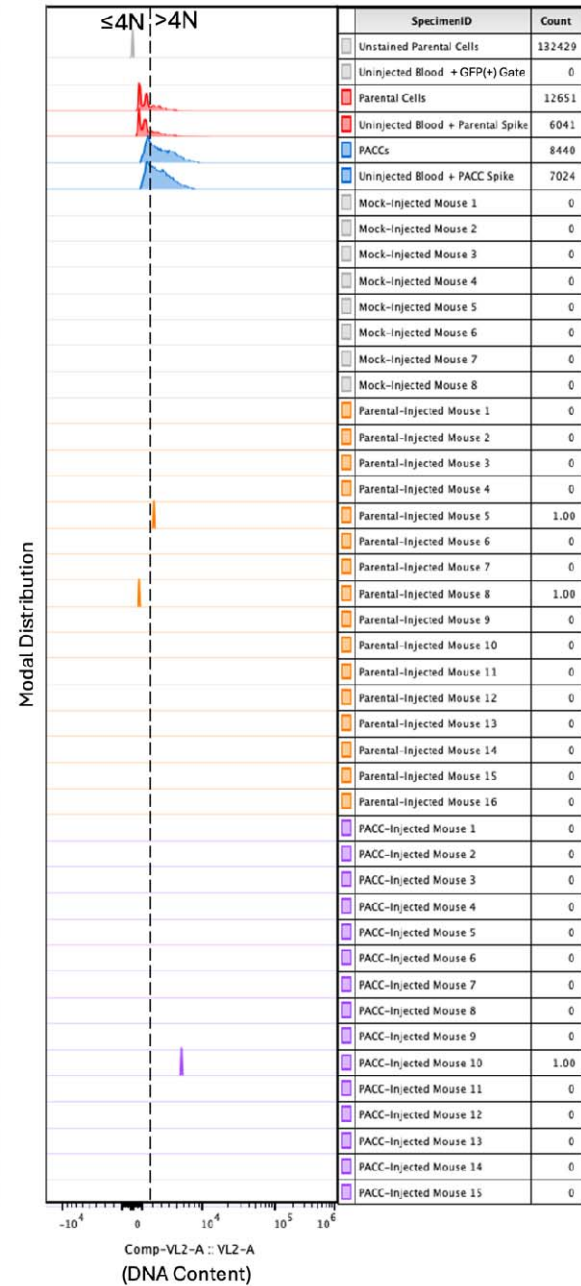


A. Time-Matched Subcutaneous Tumor: Blood CTCs



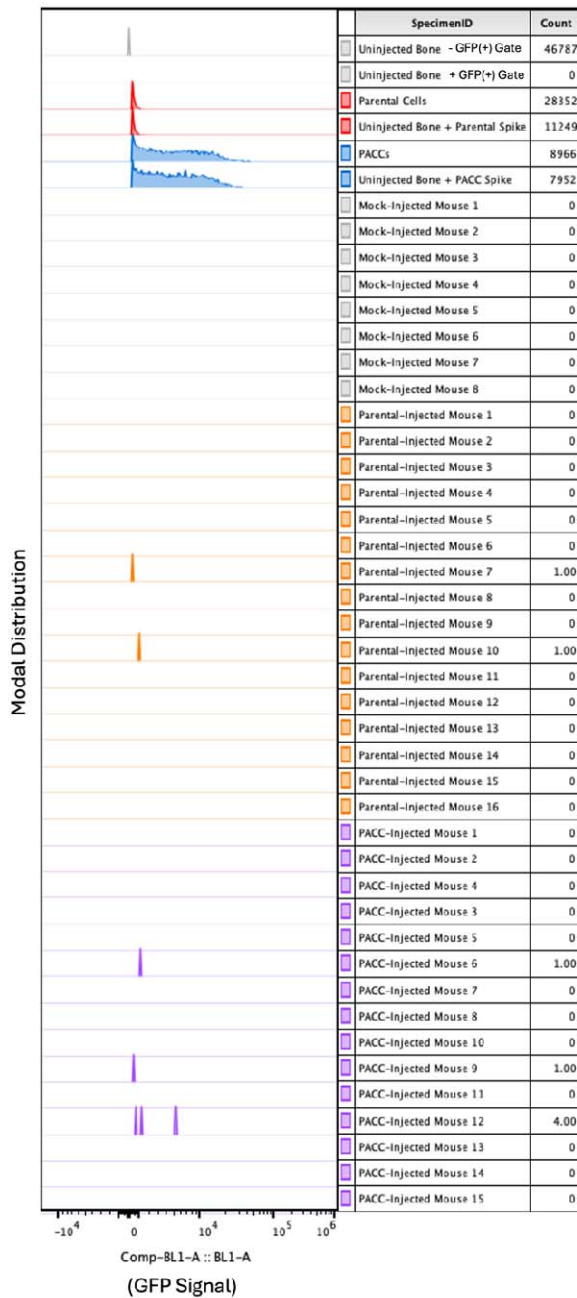
B. Time-Matched Subcutaneous Tumor: Blood CTCs



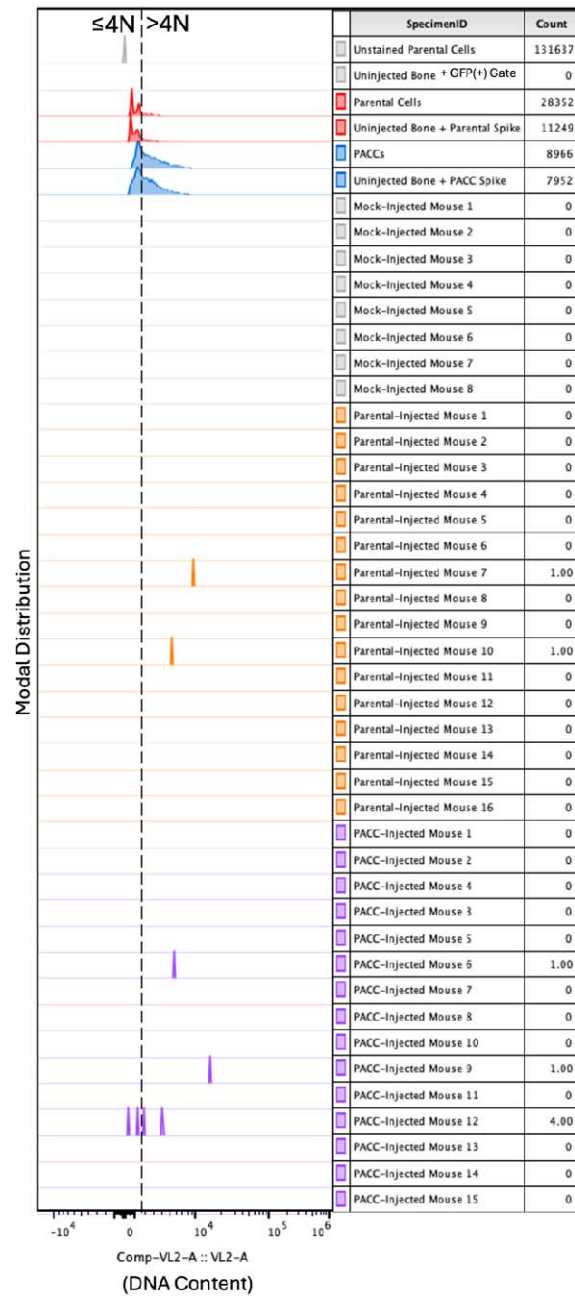
242 **Supplemental Figure S1:**

243 Time-matched, subcutaneous injection of PC3-GFP-Luc parental population vs.
 244 PACC-enriched population: A) Raw cytometric data reporting GFP+ signal across all
 245 blood samples. B) Raw cytometric data reporting DNA content of GFP+ cells across all
 246 blood samples.

A. Time-Matched Subcutaneous Tumor: Bone DTCs



B. Time-Matched Subcutaneous Tumor: Bone DTCs

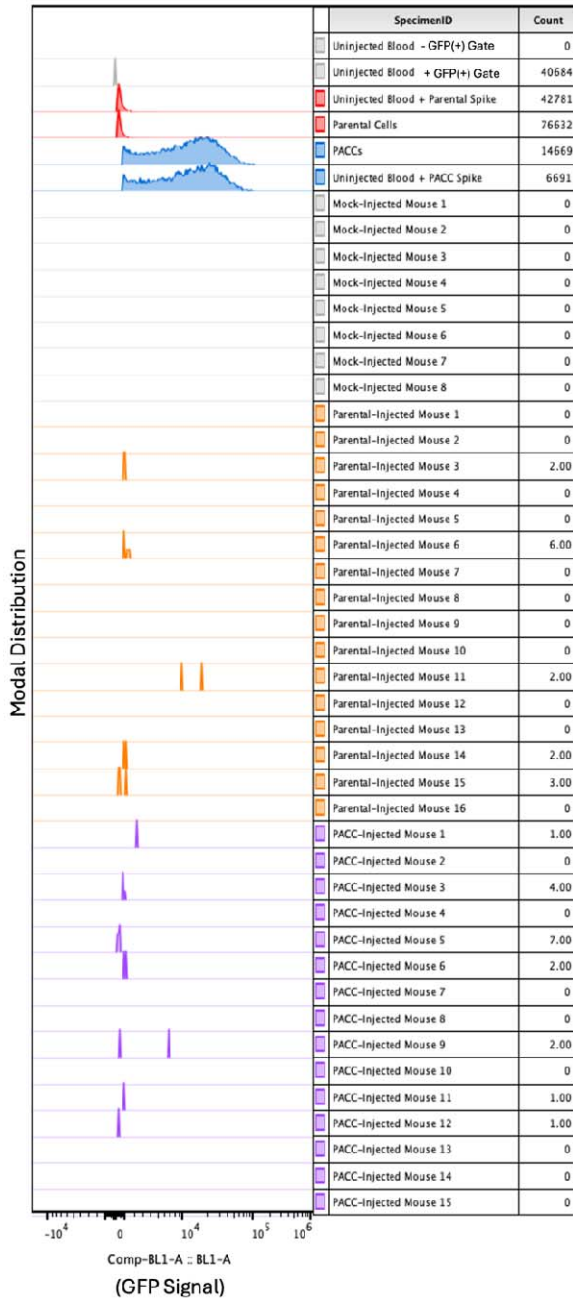


247 **Supplemental Figure S2:**

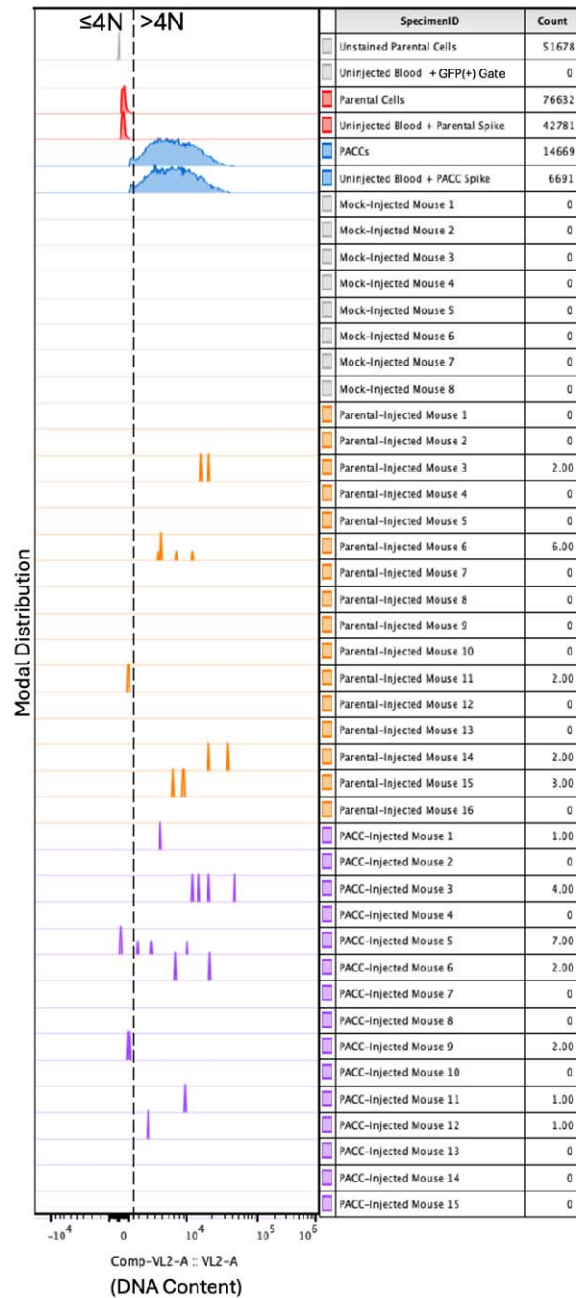
248 Time-matched, subcutaneous injection of PC3-GFP-Luc parental population vs.
 249 PACC-enriched population: A) Raw cytometric data reporting GFP+ signal across all
 250 bone marrow samples. B) Raw cytometric data reporting DNA content of GFP+ cells
 251 across all bone marrow samples.

252
 253

A. Size-Matched Subcutaneous Tumor: Blood CTCs



B. Size-Matched Subcutaneous Tumor: Blood CTCs

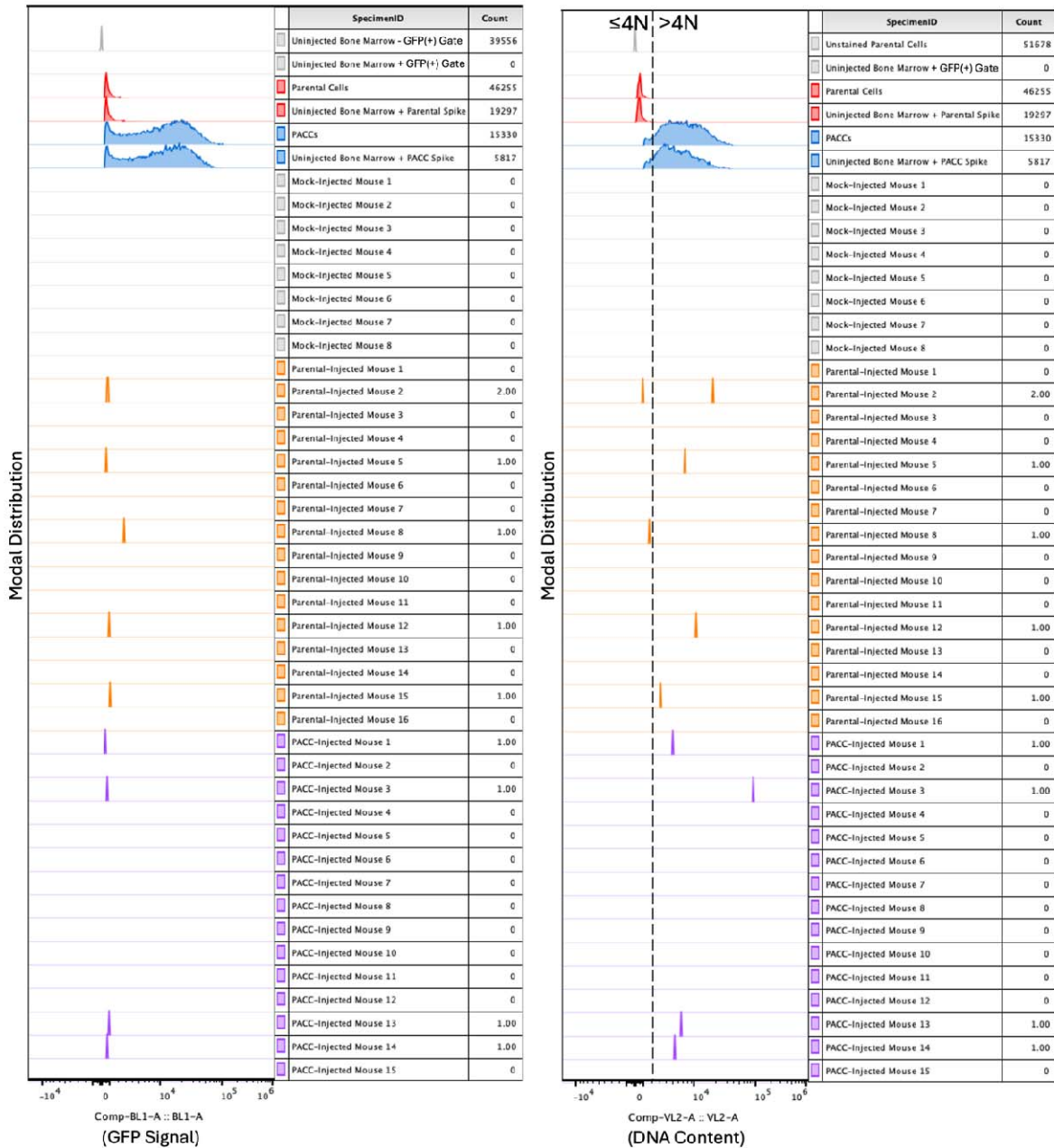


293 **Supplemental Figure S3:**

294 Size-matched, subcutaneous injection of PC3-GFP-Luc parental population vs.
 295 PACC-enriched population: A) Raw cytometric data reporting GFP+ signal across all
 296 blood samples. B) Raw cytometric data reporting DNA content of GFP+ cells across all
 297 blood samples.

A. Size-Matched Subcutaneous Tumor: Bone DTCs

B. Size-Matched Subcutaneous Tumor: Bone DTCs

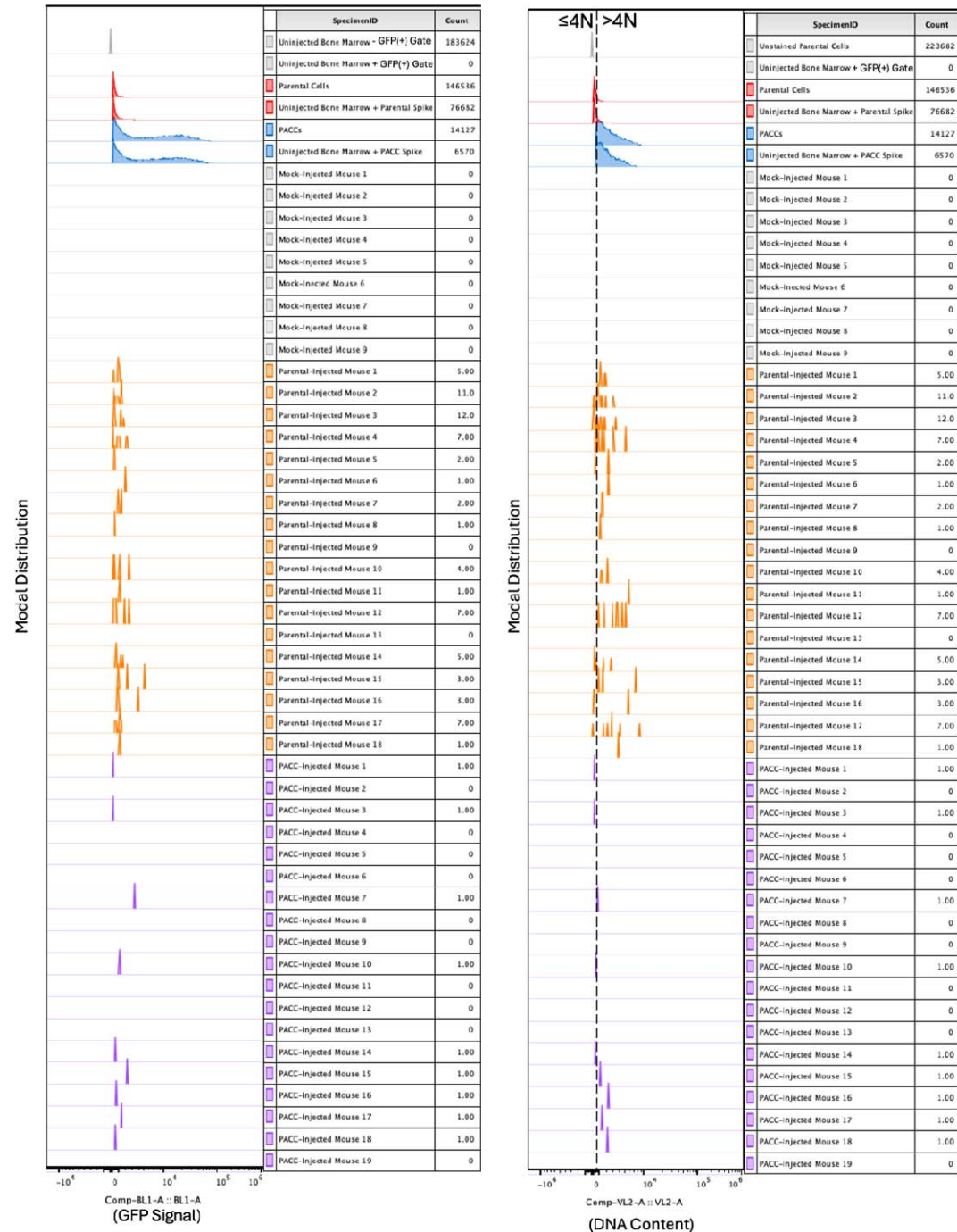


298 **Supplemental Figure S4:**

299 Size-matched, subcutaneous injection of PC3-GFP-Luc parental population vs.
 300 PACC-enriched population: A) Raw cytometric data reporting GFP+ signal across all
 301 bone marrow samples. B) Raw cytometric data reporting DNA content of GFP+ cells
 302 across all bone marrow samples.
 303

A. Caudal Artery Injections: Bone Marrow DTCs

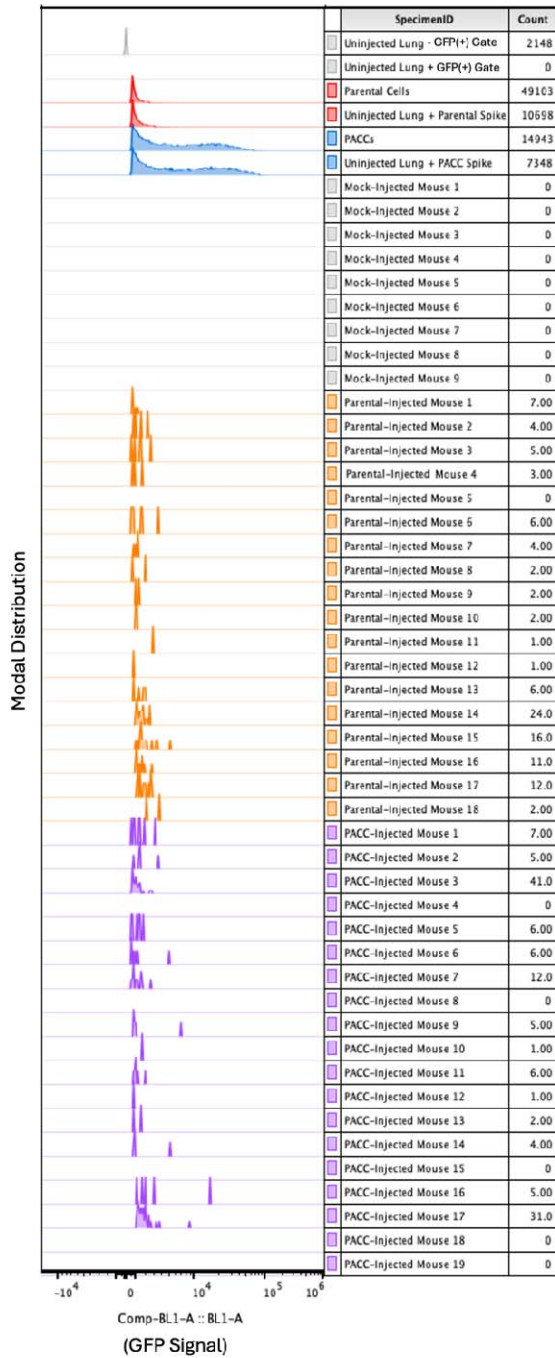
B. Caudal Artery Injections: Bone Marrow DTCs



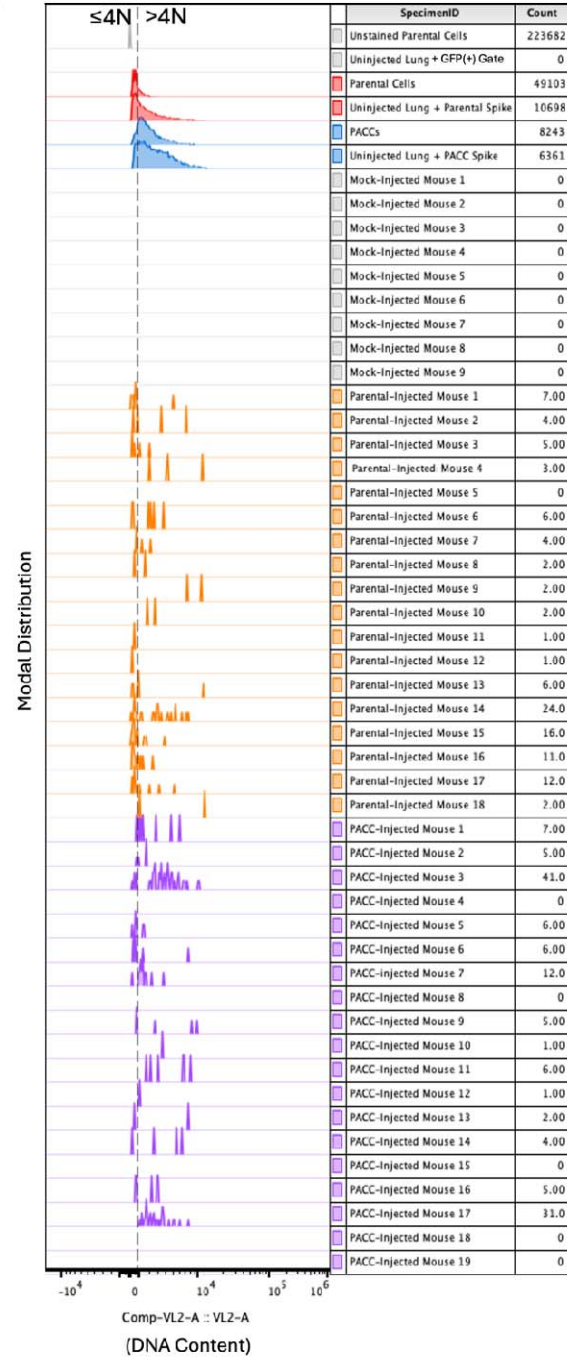
314 **Supplemental Figure S5:**

315 Caudal Artery injection of PC3-GFP-Luc parental population vs. PACC-enriched
 316 population: A) Raw cytometric data reporting GFP+ signal across all bone marrow
 317 samples. B) Raw cytometric data reporting DNA content of GFP+ cells across all bone
 318 marrow samples.

A. Caudal Artery Injections: Lung DTCs



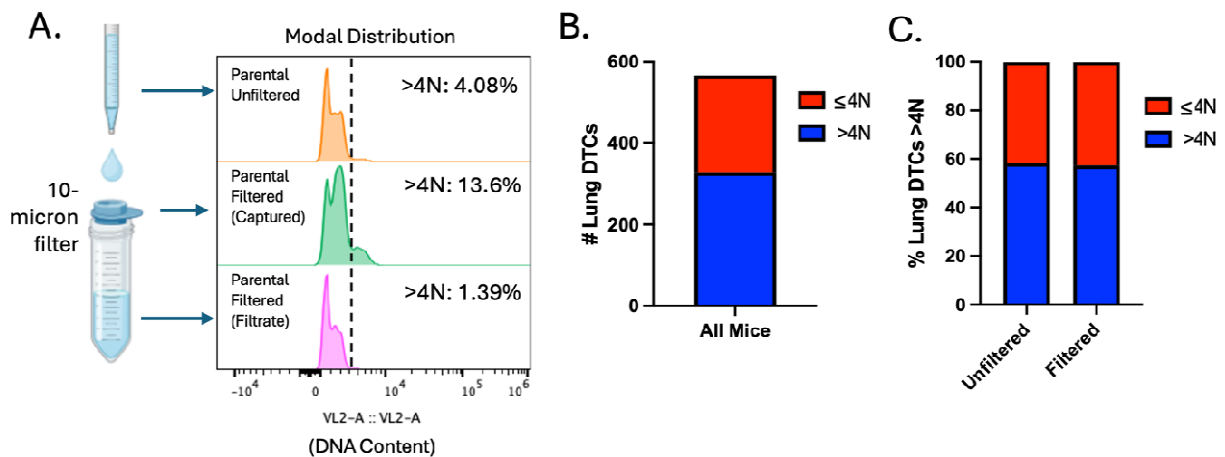
B. Caudal Artery Injections: Lung DTCs



320 **Supplemental Figure S6:**

321 Caudal Artery injection of PC3-GFP-Luc parental population vs. PACC-enriched
 322 population: A) Raw cytometric data reporting GFP+ signal across all lung tissue
 323 samples. B) Raw cytometric data reporting DNA content of GFP+ cells across all lung
 324 tissue samples.

347 **Supplemental Figure S7:**

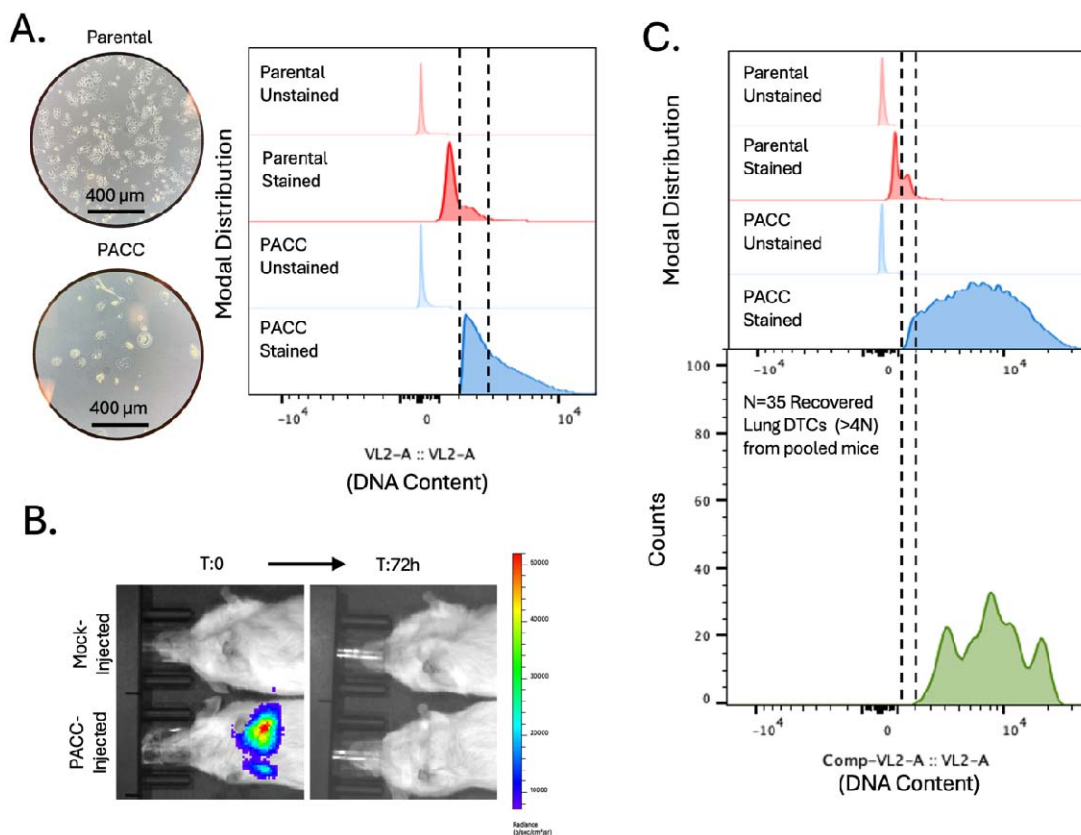


348 Tail Vein injection of PC3-GFP-Luc parental population vs. PACC-depleted
349 parental population: A) Flow-cytometric ploidy analysis of injected cells per injection
350 group. B) Proportion of lung DTCs with >4N DNA content across all experimental mice.
351 C) Comparative proportions of lung DTCs with >4N DNA content between two injection
352 groups.

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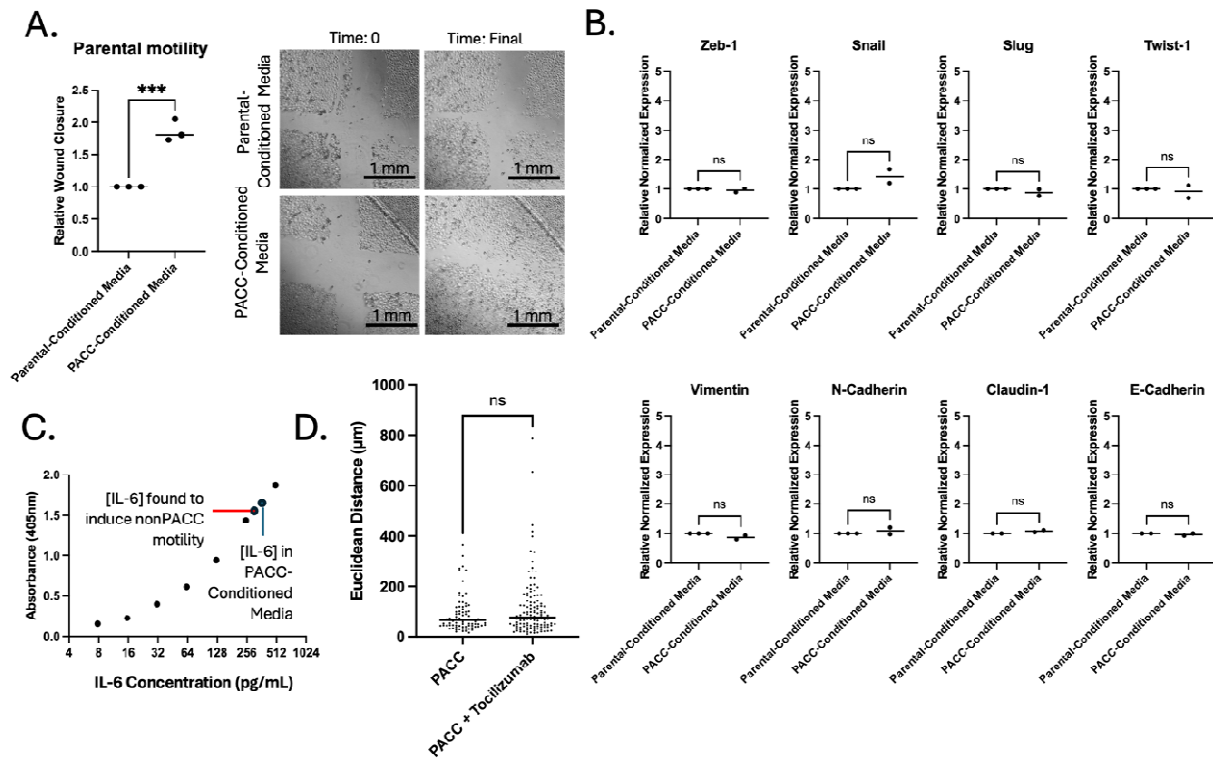
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368 **Supplemental Figure S8:**

369 Tail Vein injection of PC3-GFP-Luc parental population vs. PACC-enriched
370 population: A) Light microscopy photos and flow-cytometric ploidy analysis of injected
371 cells per injection group. B) Representative BLI images capturing the cellular distribution
372 and signal intensity immediately following tail vein injection and 3 days following tail vein
373 injection. C) Raw cytometric data reporting the presence of >4N Lung DTCs in a pooled
374 sample 21 days following PACC injection.



584 **Supplemental Figure S9:**

585 PACCs have a pro-metastatic secretory profile: A) Wound-healing assay to

586 measure the differential motility of a PC3-Luc population exposed to parental-

587 conditioned media vs. PACC-conditioned media, where each reported biological

588 replicate is an average of two technical replicates. B) RNA expression of a panel of

589 EMT markers by RTqPCR in a PC3-Luc parental population exposed to parental-

590 conditioned media vs. PACC-conditioned media, where each biological replicate reported

591 is an average of three technical replicates. C) Elisa assay to measure the concentration

592 of IL6 in PACC conditioned media. D) Single cell tracking to measure the effects of

593 addition of Tocilizumab on the motility of a PACCs.

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