Lung adenocarcinoma		Normal	Primary tumour	Brain metastasis	Brain metastasis with chemotherapy
chemotherapy		No	No	No	Yes
Intertumoural	DEGs	Enrichment analysis (BP, CC, MF, KEGG) Survival analysis			
heterogeneity					
	GSVA	Control	Angiogenesis etc.	Epithelial	Oxidative
	(Table S3)	group		mesenchymal transition etc.	phosphorylation etc.
Intratumoural	DEGs	None	Enrichment analysis in subgroups		
heterogeneity	GSVA	None	Gene sets analysis in subgroups		
	Monocle	None	Single cell trajectories between subgroups		

## Supplementary Table 1. Comparison methods between primary tumours and brain metastases.