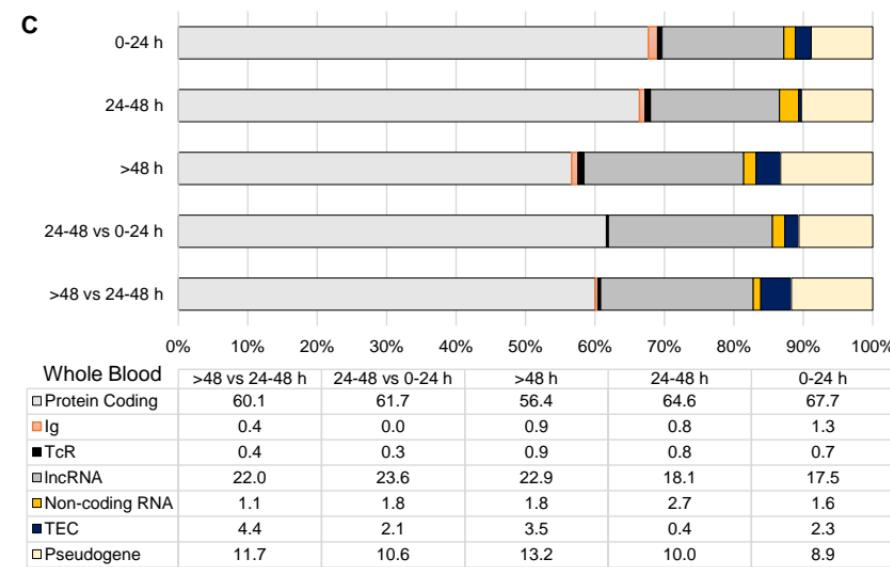
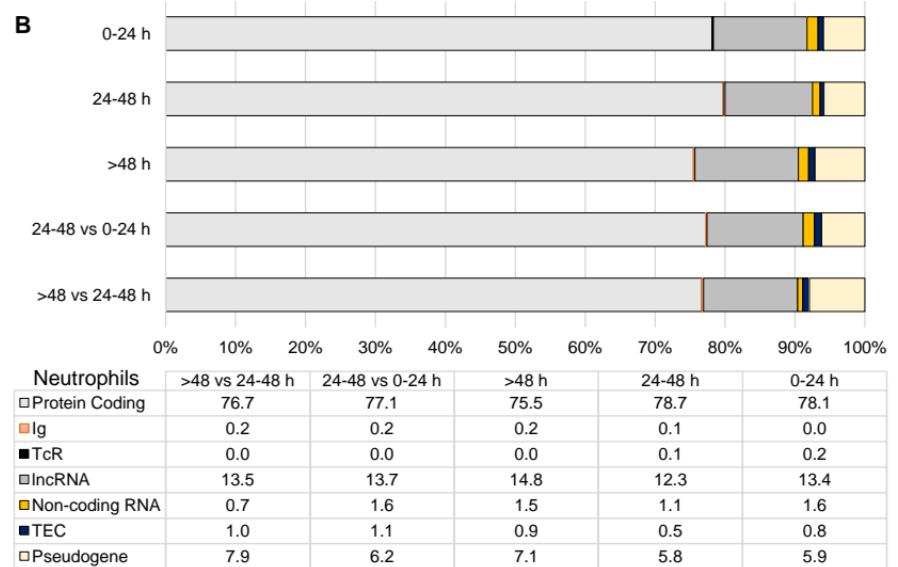
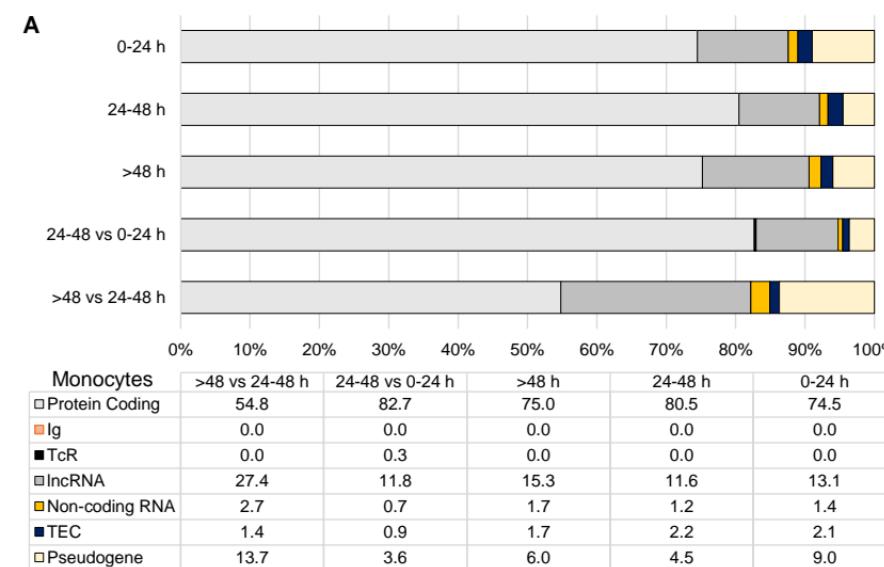
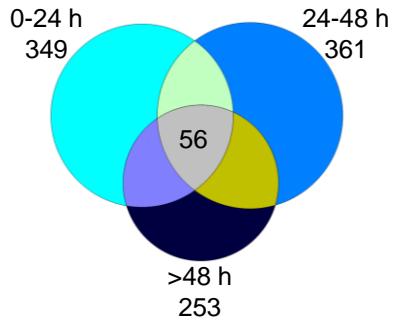


## Sup. Figure 1



## Sup. Figure 2

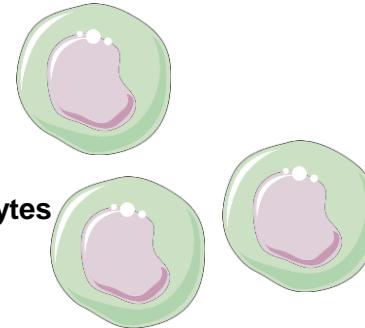
**A**



**B**

	0-24 h	24-48 h	>48 h	Common regulators
15-LOX	*			group
ACKR3	*			G-protein coupled R.
BTNL2		↓		transmembrane R.
CSF2	↓	**	↓	cytokine
dexamethasone	↓	**	↓	chemical drug
ERG	↓	↓		transcription reg.
ERK		↓		group
filgrastim	**	↓		biologic drug
IKZF1	↑	**	↑	transcription reg.
lipopolysaccharide		↓	**	chemical drug
Msx3			*	transcription reg.
OGA	*			enzyme
PCYT2		↑		enzyme
PGR	**	↓		ligand-dependent N.R.
PLA2R1		↓		transmembrane R.
progesterone	*			chemical - endogenous
RhoX5			*	transcription reg.
TNF	**	**	↓	cytokine
U18666A				chemical reagent
WAC				other

Monocytes



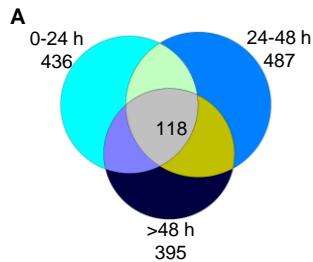
**C**

Unique regulators	0-24 h	24-48 h	>48 h	
ACACA	*	enzyme	(13S)-hydroperoxyoctadecadienoic acid	chemical toxicant
ACACB		enzyme	ACSL1	other
BMS-690514	↑	chemical drug	Alocasia cucullata root extract	transcription reg.
bongkrekic acid		chemical toxicant	BLOC1S6	peptidase
caffeine		chemical drug	cardiotoxin	transmembrane R.
CHCHD5		other	cisplatin	other
DGAT2		enzyme	desmopressin	chemical drug
DUB		group	ETV6-RUNX1	fusion gene/product
elaidic acid	↓	chemical – endo. mammalian	lipid A	chemical toxicant
ezetimibe		chemical drug	LPCAT3	enzyme
INSIG2	*	other	LY-2510924	biologic drug
LSS		enzyme	mir-22	microRNA
MAPK7	↓	kinase	penfluridol	chemical drug
MED13		transcription reg.	PSMD4	other
mir-122	↑	microRNA	rhein	chemical – endo. non-mammalian
MTPN	↑	transcription reg.	STX6	transporter
PPARGC1B	↑	transcription reg.	TCR	complex
rosuvastatin		chemical drug	TNFRSF10A	transmembrane receptor
SCAP	**	other	TRIM33	transcription reg.
SREBF2	**	transcription reg.	U0126	chemical - kinase inhibitor

Activation z-score

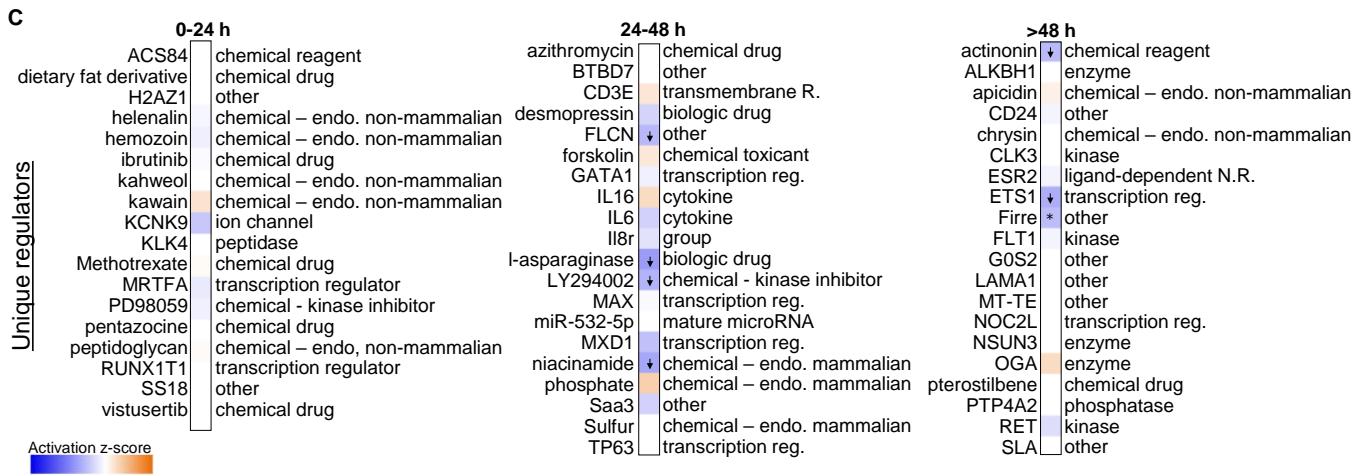
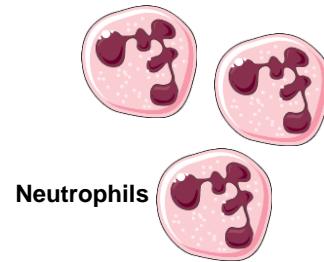
-5.8 4.6

# Sup. Figure 3

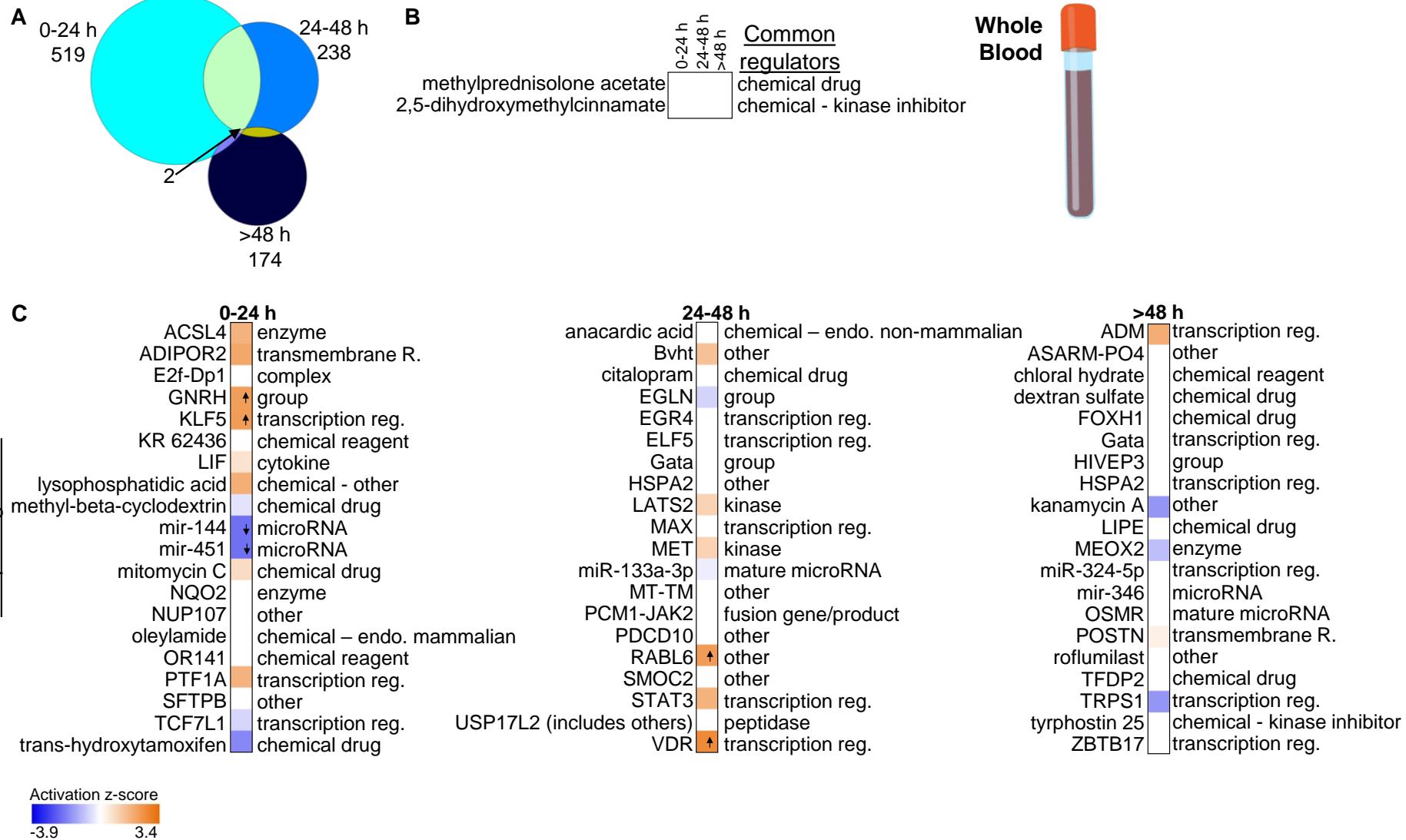


**B**

	0-24 h	24-48 h	>48 h	Common regulators
calcitriol			+	chemical drug
CIP2A		+	+	other
ciprofloxacin	*			chemical drug
CSF3	*			cytokine
dexamethasone	*	**		chemical drug
ESR1	*	*	*	ligand-dependent N.R.
filgrastim	**	**	**	biologic drug
FOXO3		+		transcription reg.
FOXO4		+		transcription reg.
interferon beta-1a	*	*	*	biologic drug
LARP1	**	**	**	translation reg.
MRTFB		+		transcription reg.
MYCN	+	+	+	transcription reg.
NUPR1		**	*	transcription reg.
OSM	**	**		cytokine
RPS15	*	*		other
RRP1B		*		transcription reg.
torin1		*	*	chemical reagent
TP53	*	*	*	transcription reg.
YAP1	*	*	*	transcription reg.

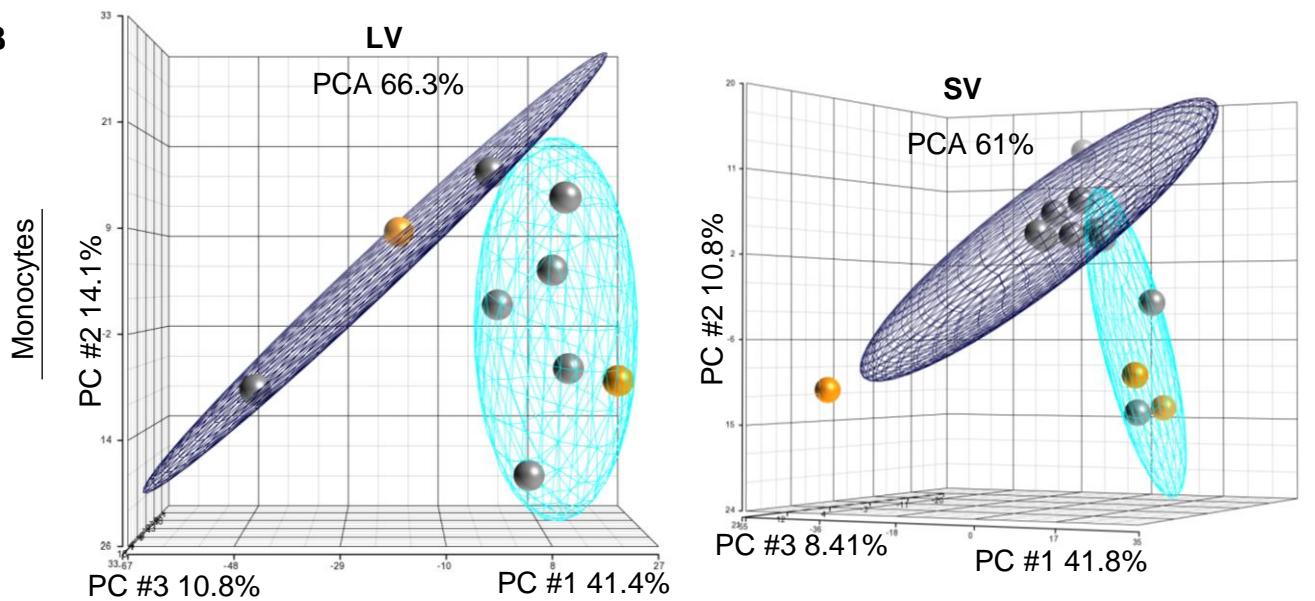
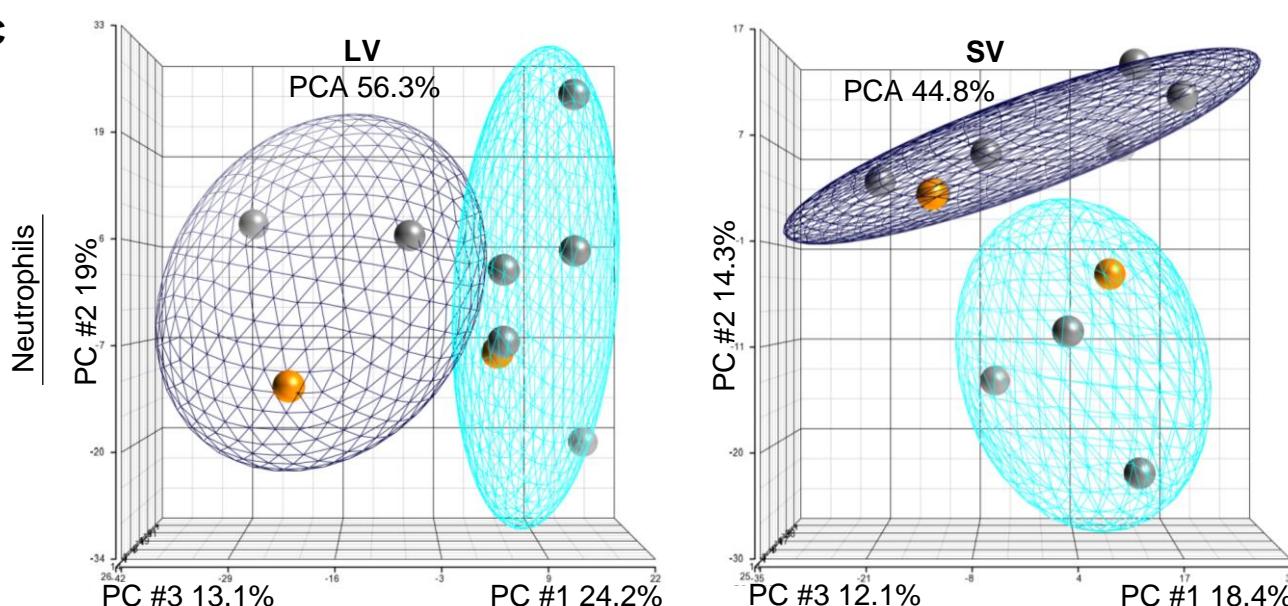
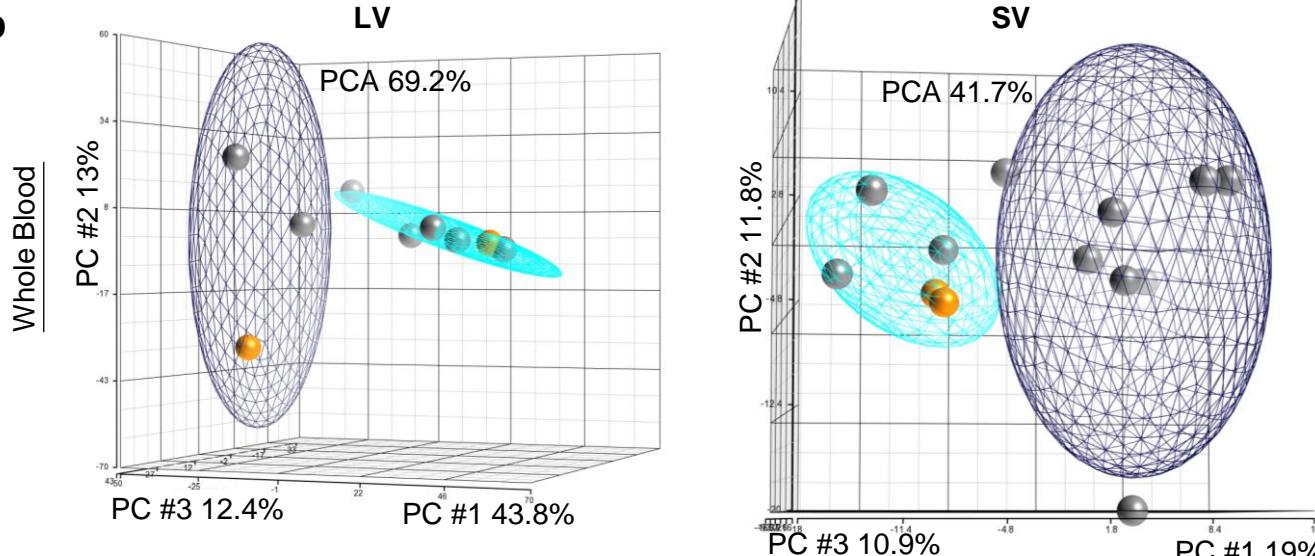


**Sup. Figure 4**



Sup. Figure 5 A

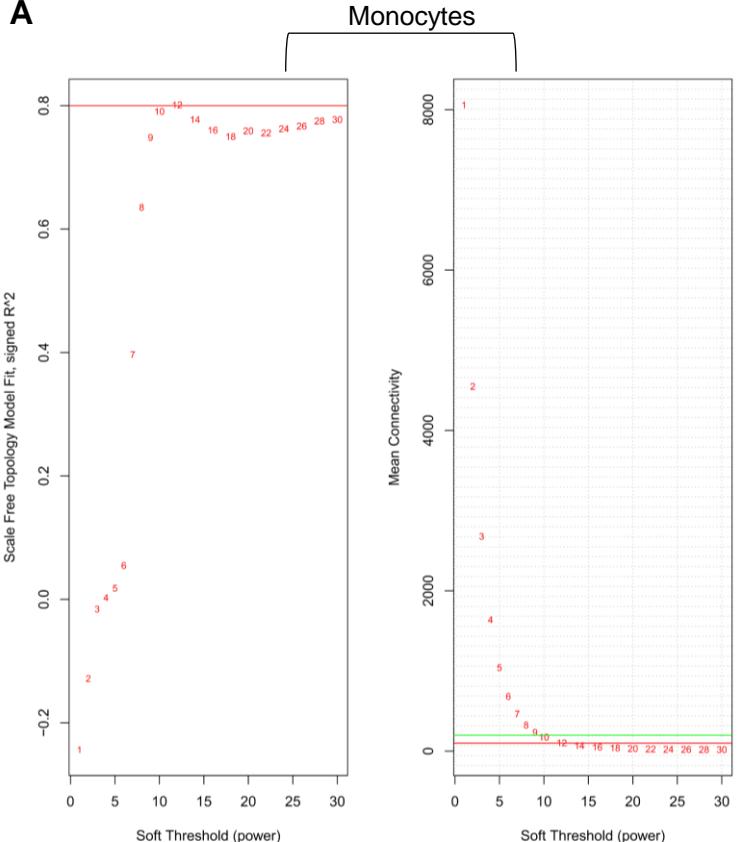
Subject	Sex	IS cause	Age	At Onset	Time since event (h)
tPA1 (MON, WB)	Male	SV	67		6.4
tPA2 (MON, NEU, WB)	Male	SV	84		13
tPA3 (MON, NEU, WB)	Male	LV	76		20.4
tPA4 (MON, NEU)	Male	SV	43		25.5
tPA5 (MON, WB)	Female	LV	62		58.3

**B****C****D**

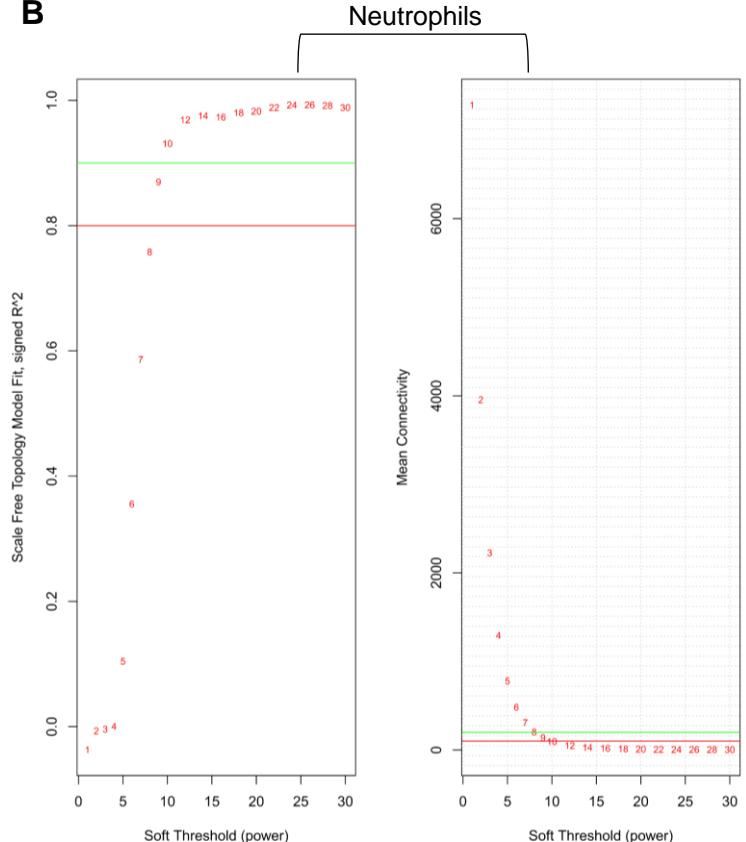
0-24 h    >24 h    tPA    No tPA

**Sup. Figure 6**

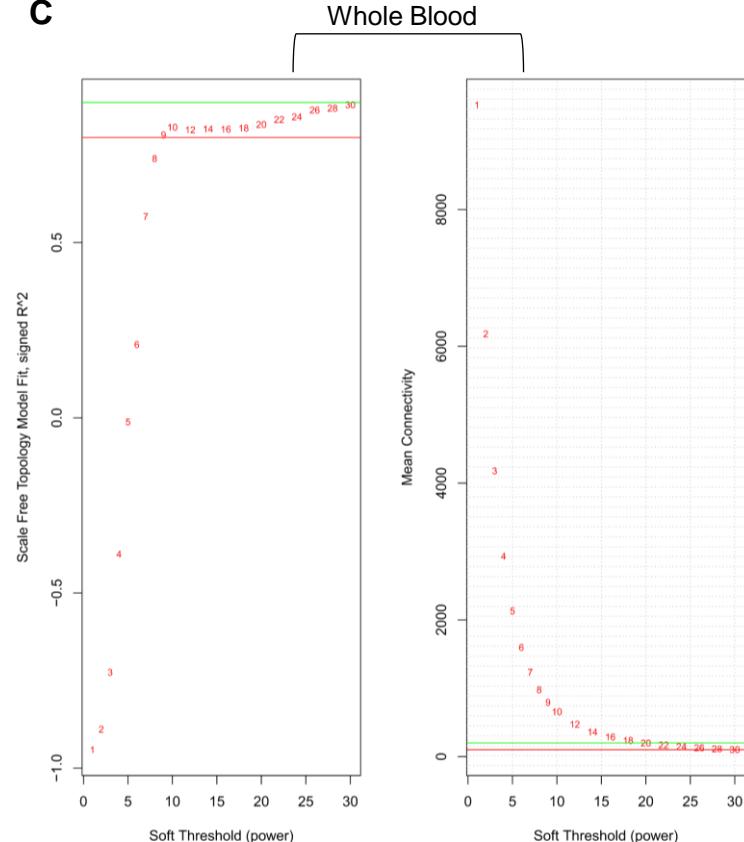
**A**



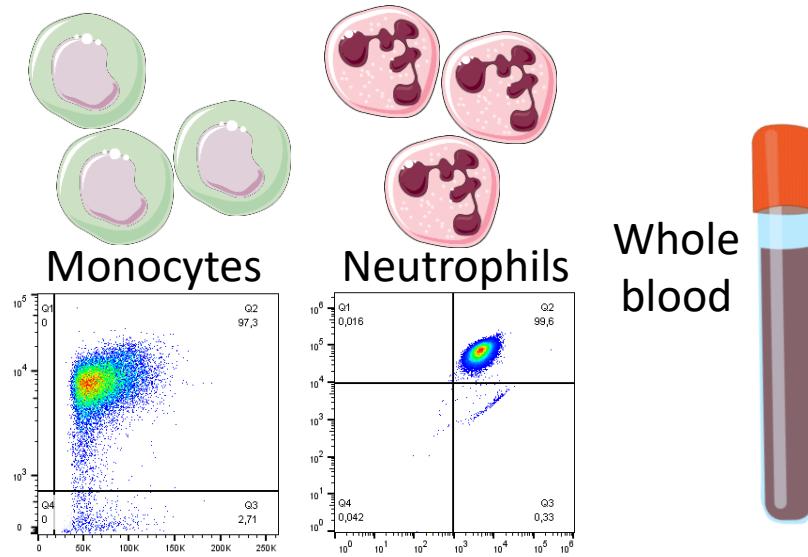
**B**



**C**



Sup. Figure 7



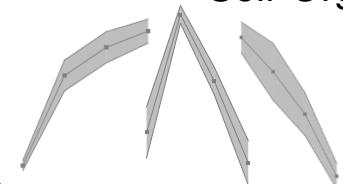
### Transcriptome dynamics

#### Differential expression

Time points

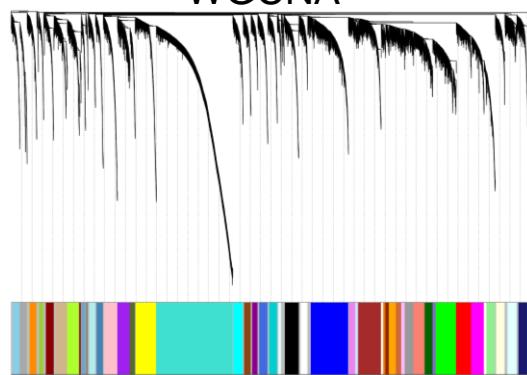
- TP0 (VRFCs)
- TP1 (0-24 h)
- TP2 (24-48 h)
- TP3 (>48 h)

Self-Organizing Maps



#### Co-expression networks

Time (continuous, h)  
WGCNA



Key genes and pathways associated with  
time after ischemic stroke