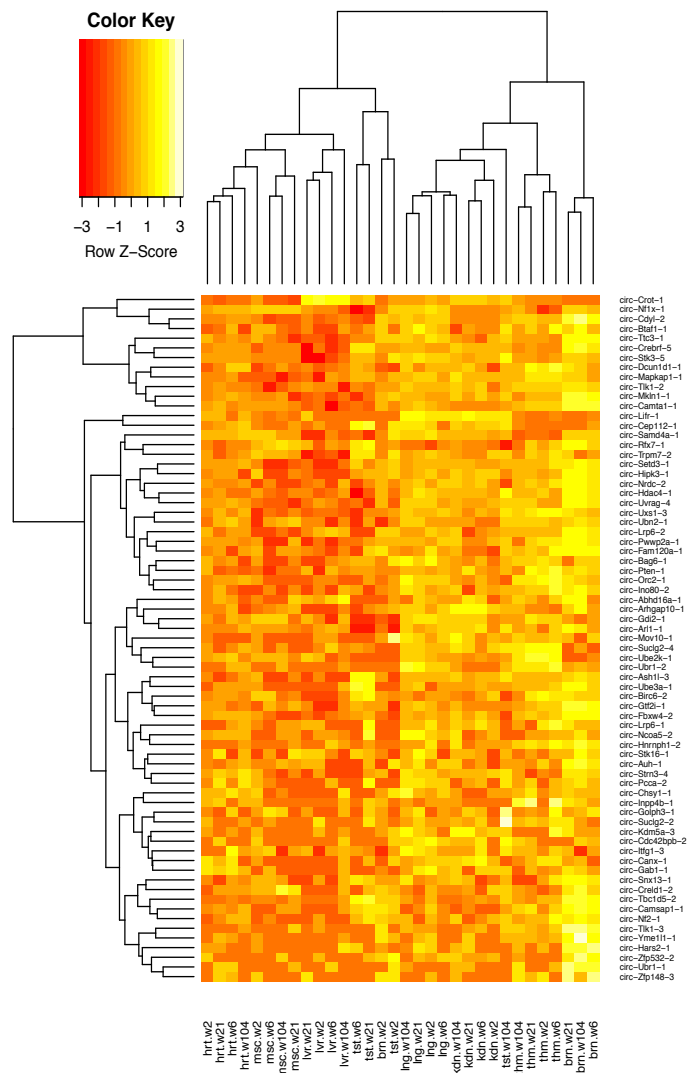


**Circular RNAs are temporospatially regulated throughout development and ageing in the rat**

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**Supplementary Figure 1.** Hierarchical and heatmap clustering of the shared circRNAs at different developmental stages.

Organ	Week 2		Week 6		Week 21		Week 104	
	Female*	Male	Female	Male	Female	Male	Female	Male
Brain	1	0	2	2	2	3	2	2
Heart	1	1	1	0	0	1	0	0
Kidney	1	0	0	0	3	2	0	2
Liver	0	0	0	0	0	0	0	0
Lung	1	0	2	1	1	2	1	0
Muscle	1	0	0	0	0	0	0	1
Thymus	1	2	1	4	3	0	0	0

**Supplementary Table 5. Number of circRNAs that were female-or male-dominant.**

\*Female: number of female-dominant circRNAs, DE circNRA between female and male: FC > 2 (Female/Male) with *p*-value <0.05. Male-dominant circNRA were detected as follows: FC > 2 (Female/Male) with *p*-value < 0.05.

Organ	Week 2		Week 6		Week 21		Week 104	
	R coefficient	P-value	R coefficient	P-value	R coefficient	P-value	R coefficient	P-value
Brain	0.02	0.33	0.091	0.000	0.064	0.0019	0.11	0.000
Heart	0.02	0.33	0.11	0.001	0.011	0.76	0.41	0.23
Kidney	0.01	0.67	0.11	0.00	0.83	0.00	0.065	0.024
Liver	0.09	0.03	0.02	0.58	0.16	0.00	0.02	0.6
Lung	0.06	0.01	0.06	0.01	0.06	0.01	0.05	0.06
Muscle	0.05	0.22	0.15	0.00	0.11	0.01	0.15	0.00
Testes	0.18	0.00	0.15	0.00	0.28	0.00	0.25	0.00
Thymus	0.13	0.00	0.16	0.00	0.06	0.01	0.04	0.1

**Supplementary Table 6. Correlations between circRNAs and their host genes in each stage.**