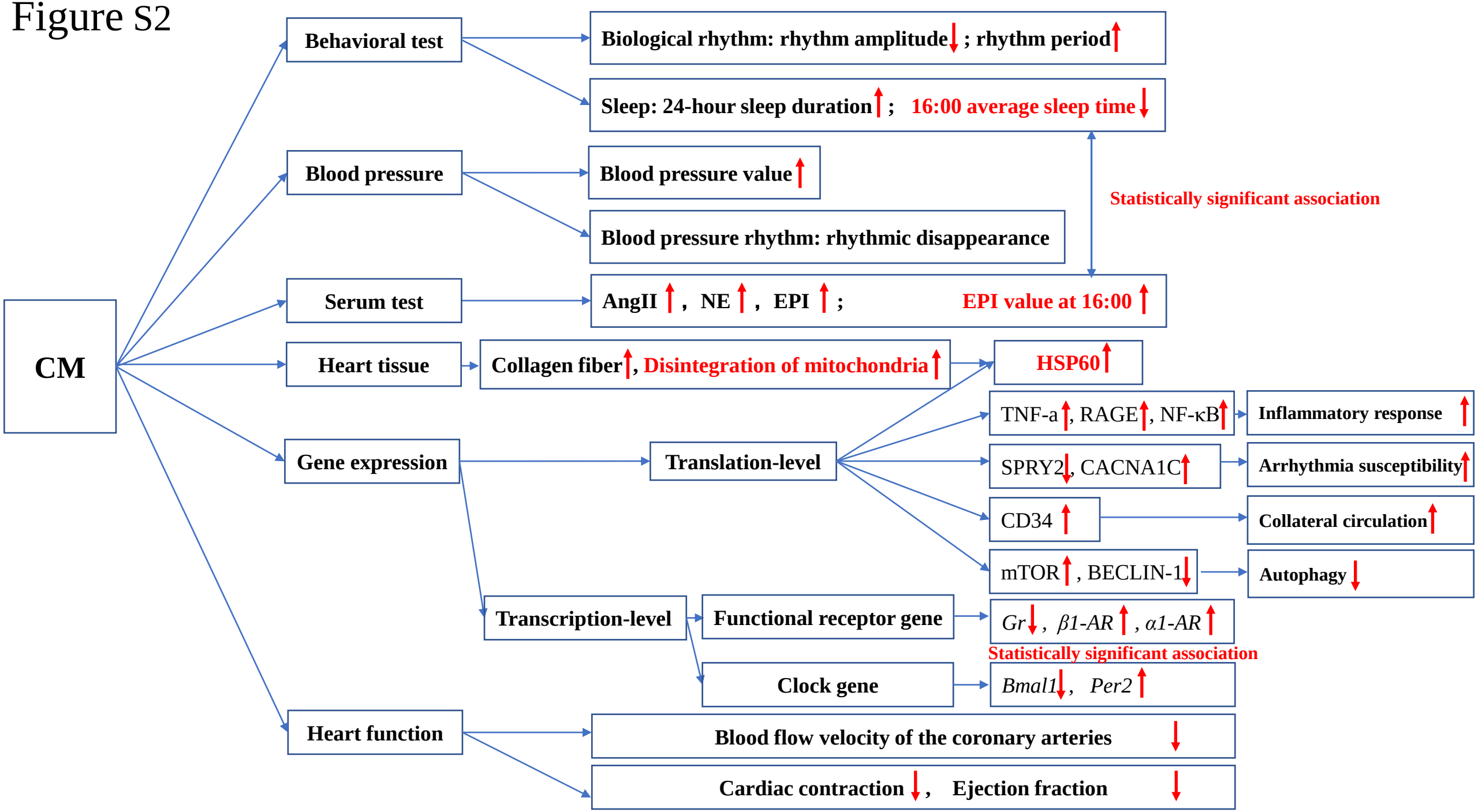
Figure S2


CM
Behavioral test
Biological rhythm: rhythm amplitude ↓ ; rhythm period ↑
Sleep: 24-hour sleep duration ↑ ; 16:00 average sleep time ↓
Blood pressure
Blood pressure value ↑
Blood pressure rhythm: rhythmic disappearance
Statistically significant association
Serum test
AngII ↑ , NE ↑ , EPI ↑ ; EPI value at 16:00 ↑
Heart tissue
Collagen fiber ↑, Disintegration of mitochondria ↑
HSP60 ↑
Gene expression
Translation-level
TNF-a ↑, RAGE ↑, NF-κB ↑
Inflammatory response ↑
SPRY2 ↓, CACNA1C ↑
Arrhythmia susceptibility ↑
CD34 ↑
Collateral circulation ↑
mTOR ↑ , BECLIN-1 ↓
Autophagy ↓
Transcription-level
Functional receptor gene
Gr ↓ , β1-AR ↑ , α1-AR ↑
Statistically significant association
Clock gene
Bmal1 ↓ , Per2 ↑
Heart function
Blood flow velocity of the coronary arteries ↓
Cardiac contraction ↓ , Ejection fraction ↓