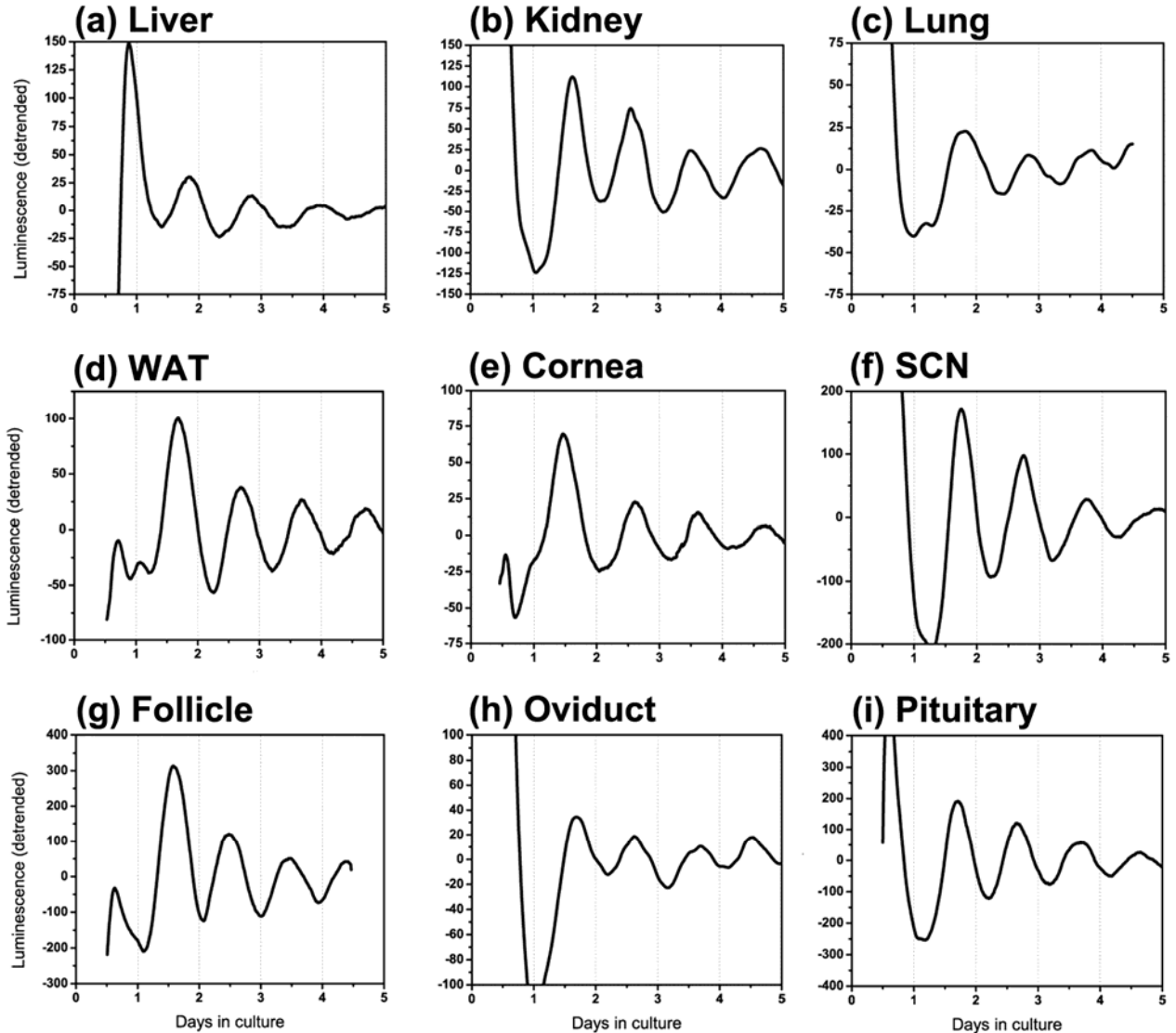


Supplemental Figure S1. Representative luminescence recordings of SCN and peripheral oscillators from cycling *per1-luciferase* rats. Representative traces of *per1-luc* expression in (A) liver, (B) kidney, (C) lung, (D) WAT, (E) cornea, (F) SCN, (G) ovarian follicle, (H) oviduct and (I) pituitary gland tissue.



Supplemental Figure S2. Effects of cyclo- β -dextran sugar-cage on *per1-luc* expression in SCN tissue explants. (a) The cyclo- β -dextran molecule that comprises the “sugar-cage” for water-soluble steroid hormones does not affect the period of *per1-luc* expression in SCN tissue. (b) High concentration E2+P4 (500 μ M) cause severe damping and lengthen the period of *per1-luc* expression in SCN. This damping effect is not due to cell death but rather dissociation of individual pacemakers, as a robust rhythm reappears after synchronization with forskolin (gray circle; 15 μ M for 20 min).

