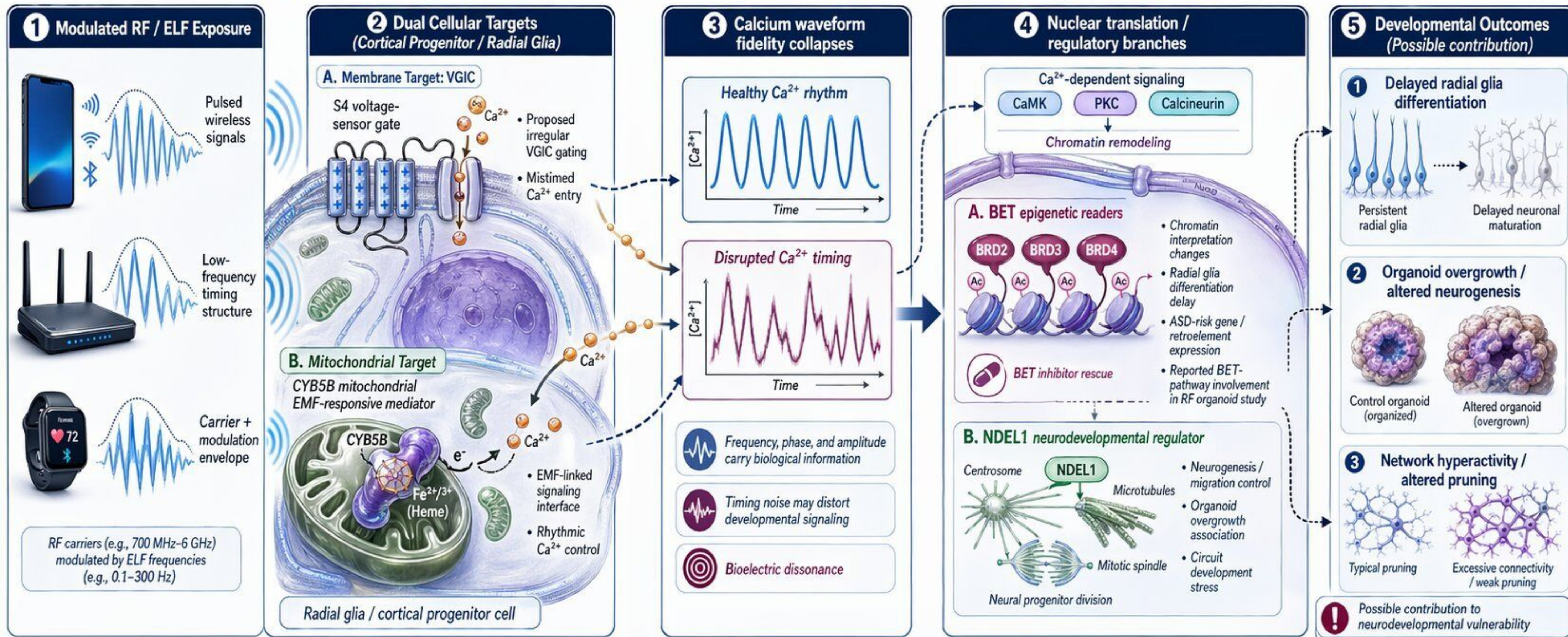


Proposed Bioelectric Dissonance Pathway

Proposed mechanistic integration

RF/ELF pulse structure → S4 voltage-sensor stress + CYB5B mitochondrial sensing → calcium timing disruption → BET/NDEL1 pathway effects → altered neurodevelopment



LEGEND (Line meanings)

- Solid arrow = direct experimental finding
- - - → Dashed arrow = proposed mechanistic bridge
- → Dotted arrow = downstream interpretation

EVIDENCE NOTES (Selected)

- RF/ELF-BET pathway effects reported in human cortical organoids (Eubanks et al., 2021; Toxicological Sciences).
- CYB5B as an EMF-responsive mitochondrial mediator (Levy, 2012; Front. Public Health).
- Roles for S4/VGIC timing, Ca²⁺ oscillations, and NDEL1 in neurodevelopment well established in the literature.



PATHWAY SUMMARY (Not proven; proposed integration)

