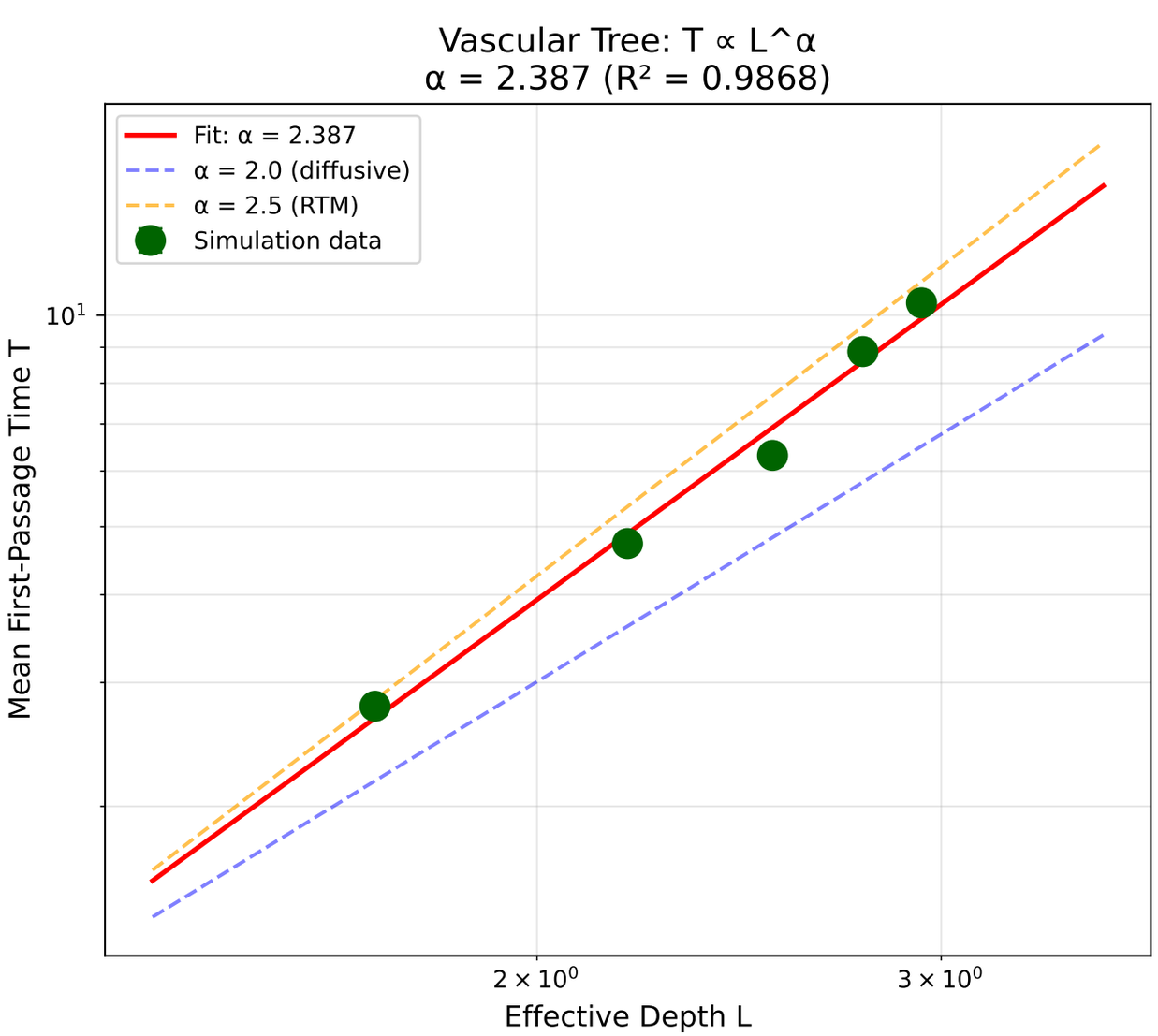
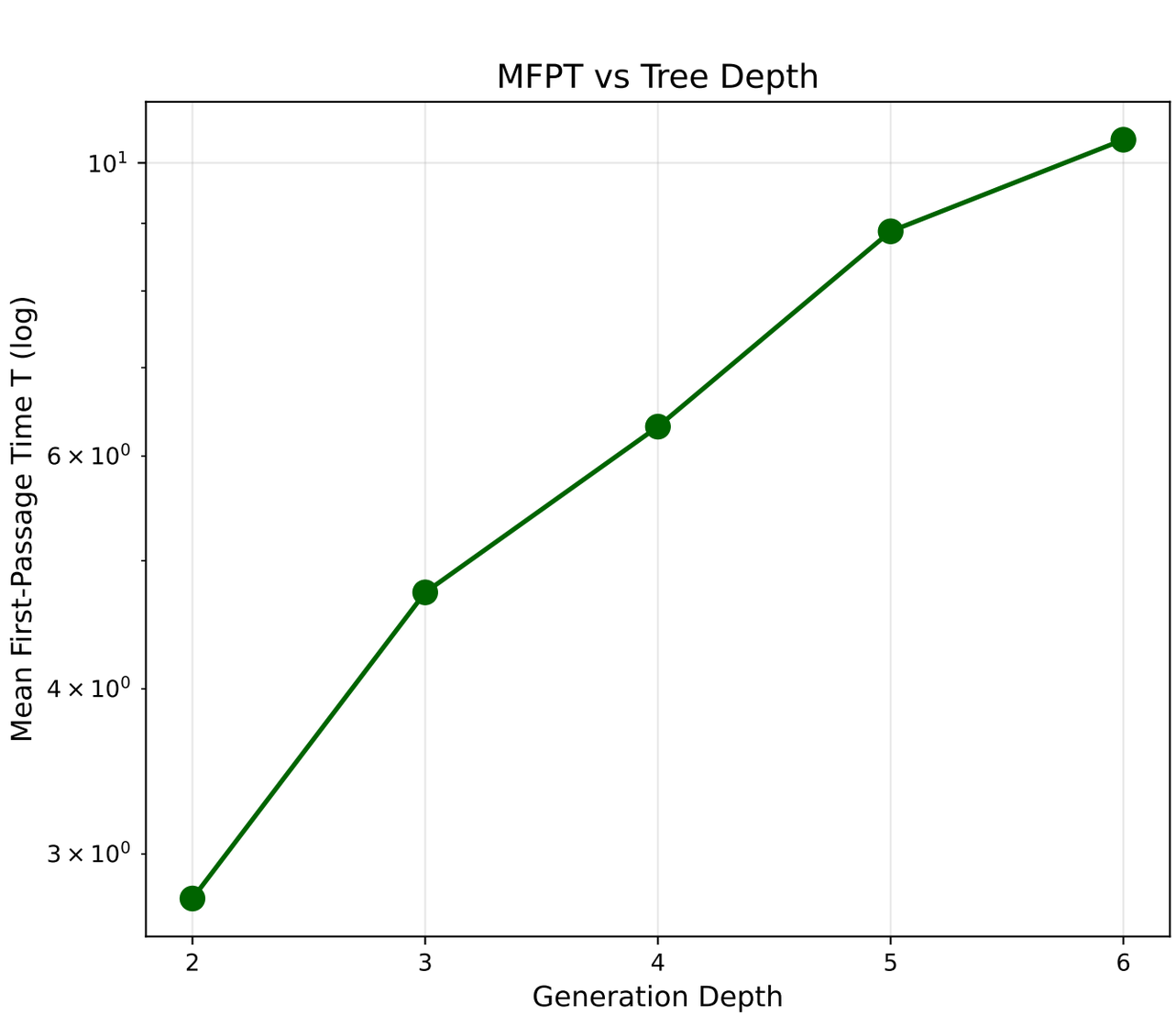
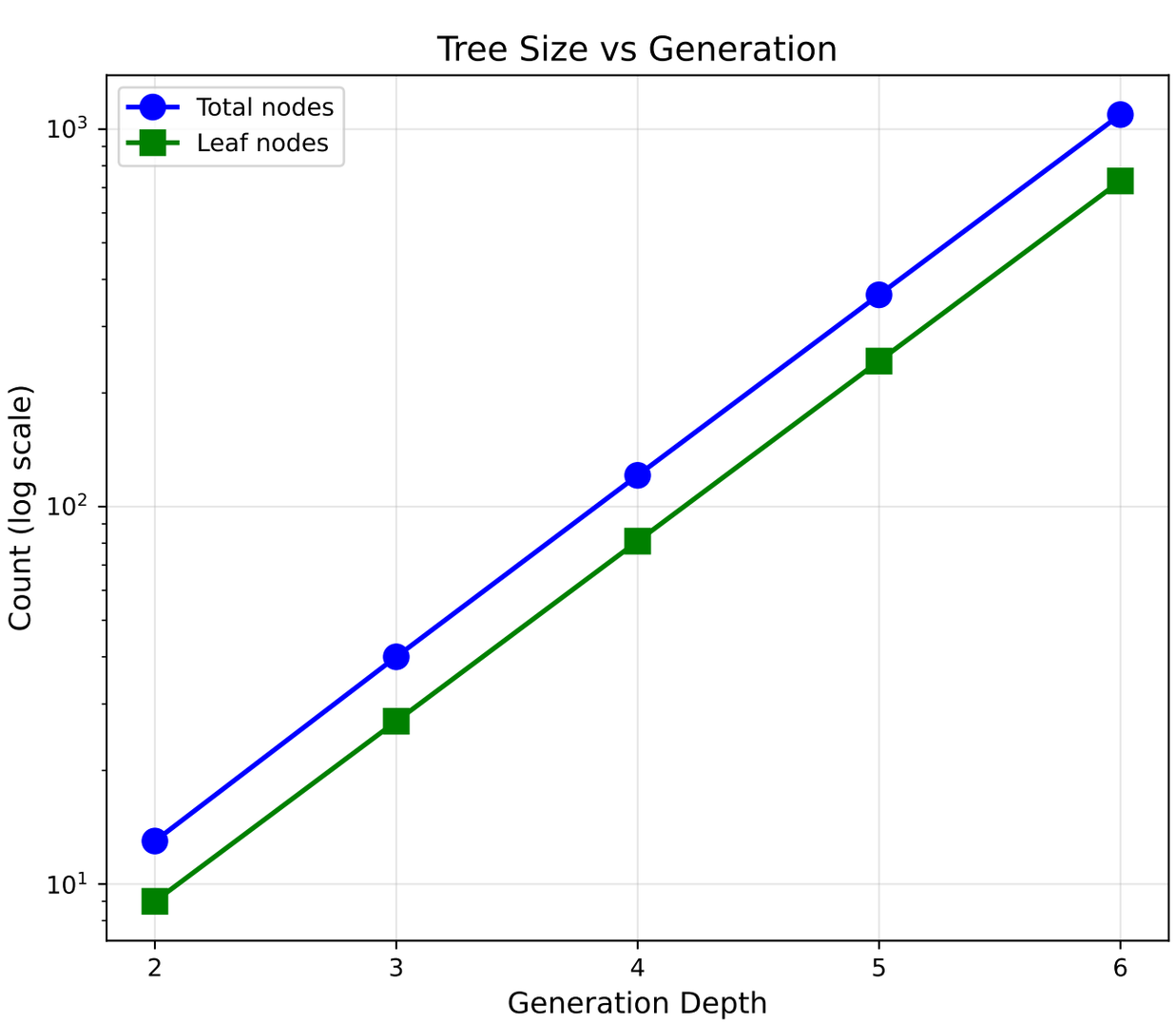
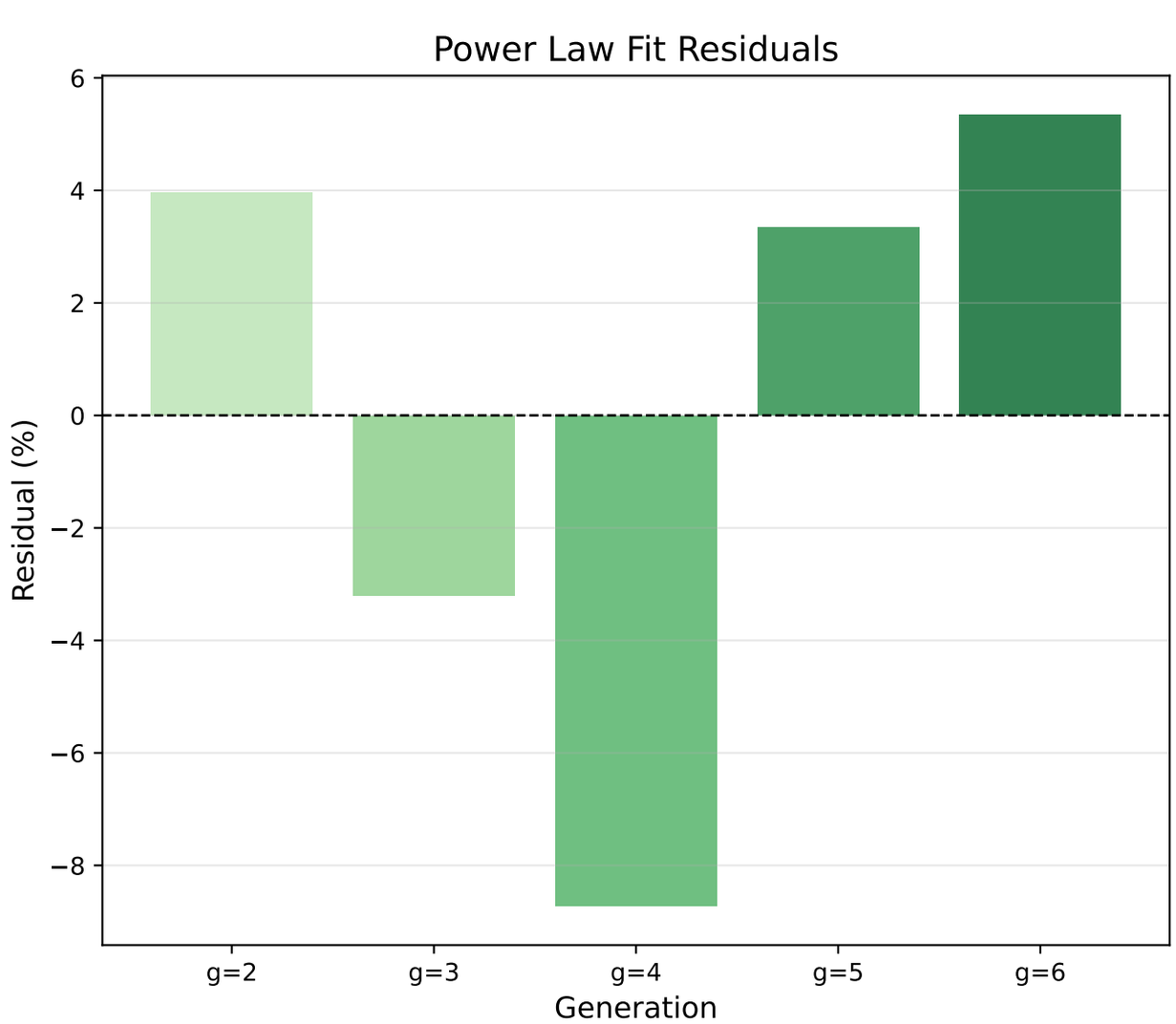

Vascular Tree: T ∝ L^α
α = 2.387 (R² = 0.9868)
Fit: α = 2.387
α = 2.0 (diffusive)
α = 2.5 (RTM)
Simulation data
Mean First-Passage Time T
Effective Depth L


MFPT vs Tree Depth
Mean First-Passage Time T (log)
Generation Depth


Tree Size vs Generation
Total nodes
Leaf nodes
Count (log scale)
Generation Depth


Power Law Fit Residuals
Residual (%)
g=2
g=3
g=4
g=5
g=6
Generation