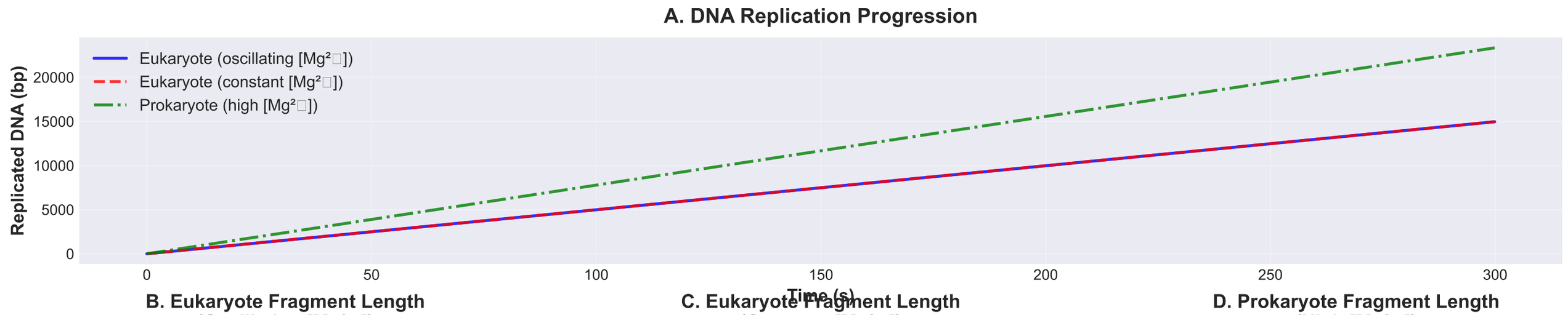
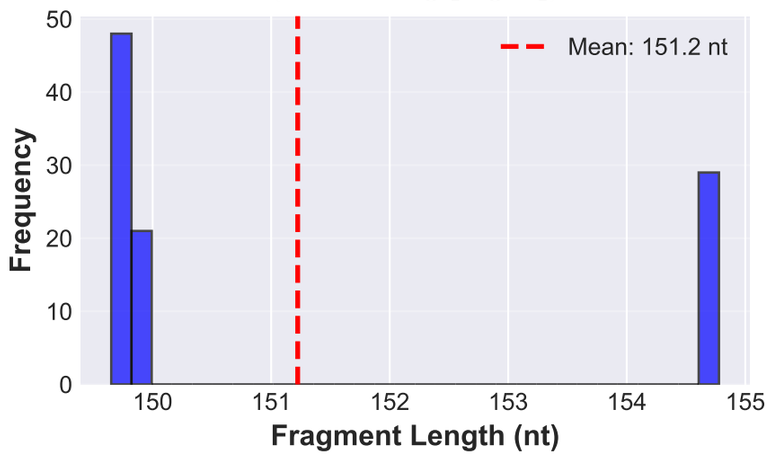
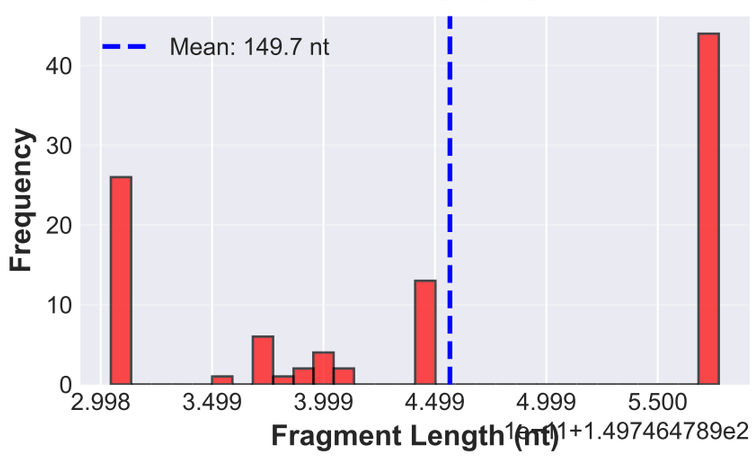
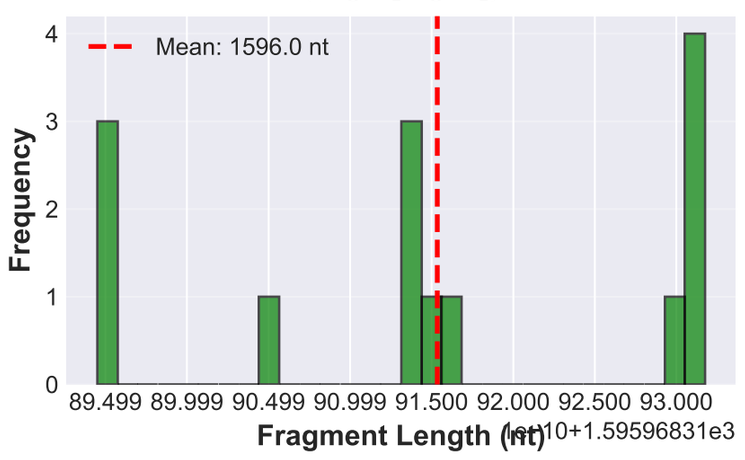
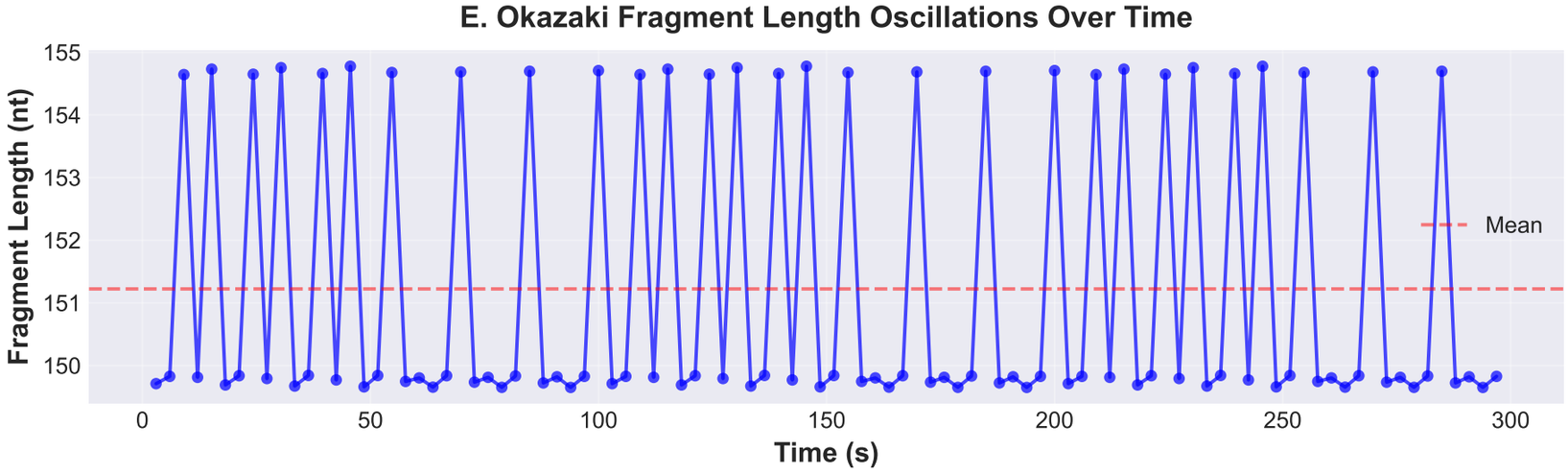
Okazaki Fragment Length: Charge-Dependent Replication Dynamics

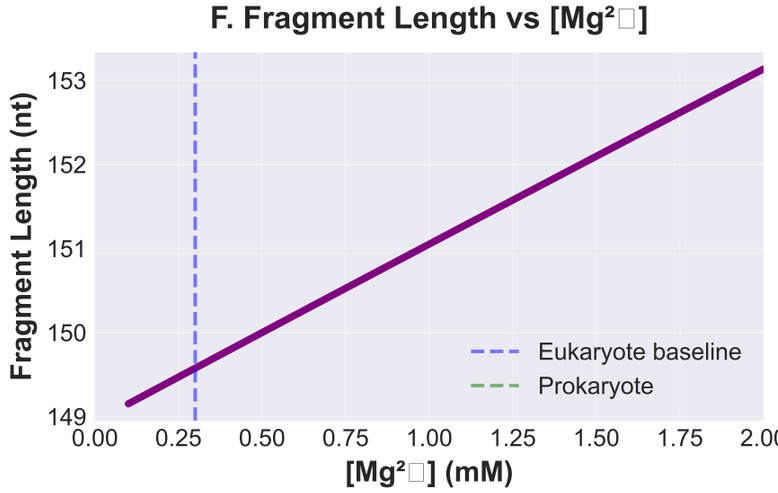


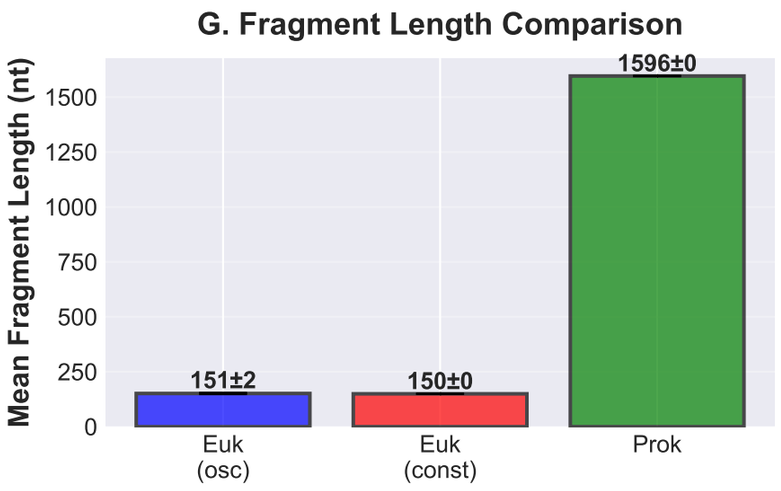


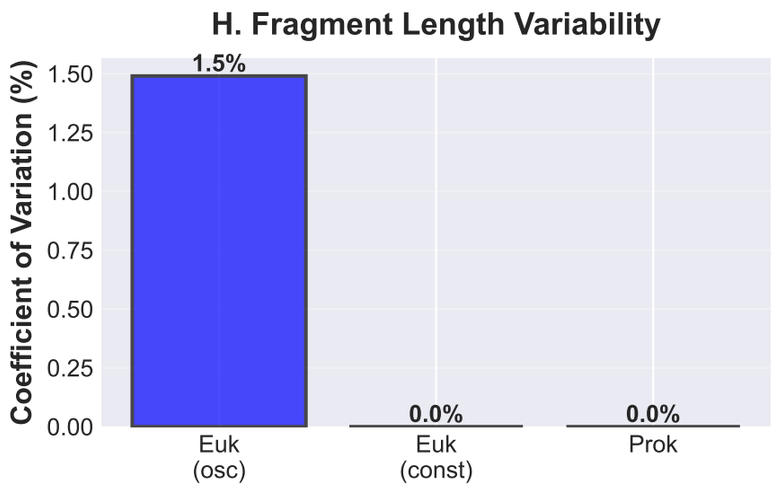










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OKAZAKI FRAGMENT STATISTICS

Eukaryote (Oscillating):
• Mean: 151.2 nt
• Std: 2.3 nt
• Range: 149.7-154.8 nt
• CV: 1.5%

Eukaryote (Constant):
• Mean: 149.7 nt
• Std: 0.0 nt
• Range: 149.7-149.7 nt
• CV: 0.0%

Prokaryote:
• Mean: 1596.0 nt
• Std: 0.0 nt
• Range: 1596.0-1596.0 nt
• CV: 0.0%

Ratios:
• Prok/Euk: 10.6×
• Predicted: ~10× (literature)

Oscillation Effect:
• Amplitude: 2.6 nt
• Period: ~5 s (ATP cycle)
```