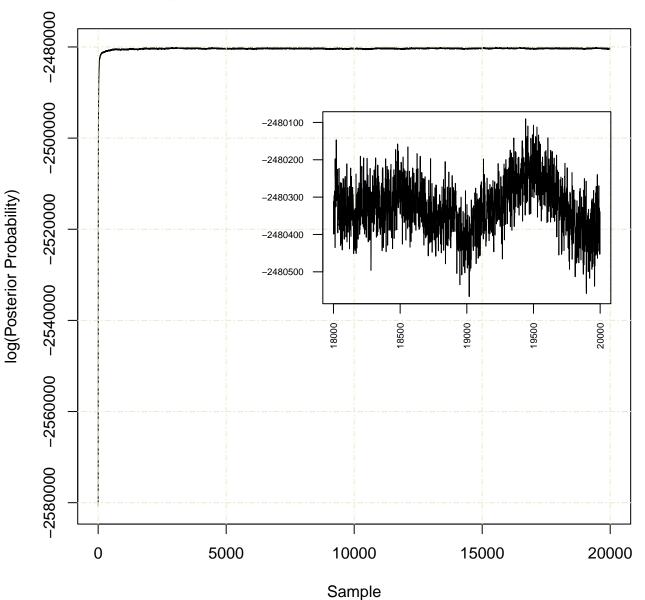
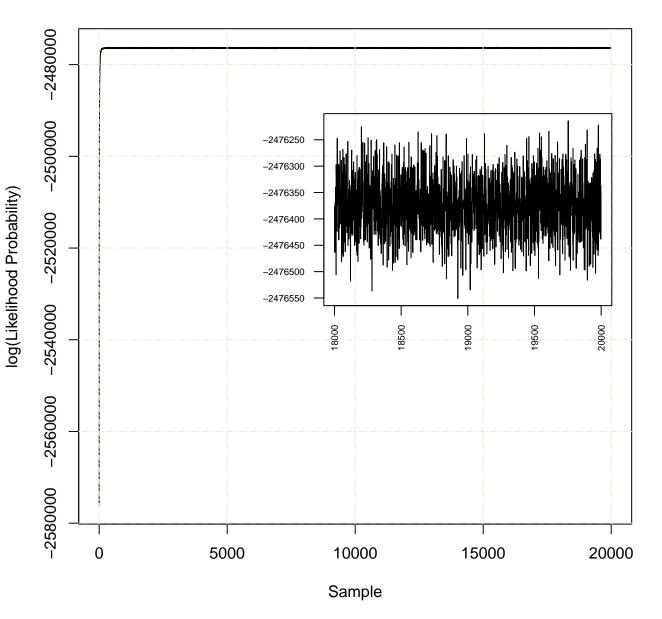
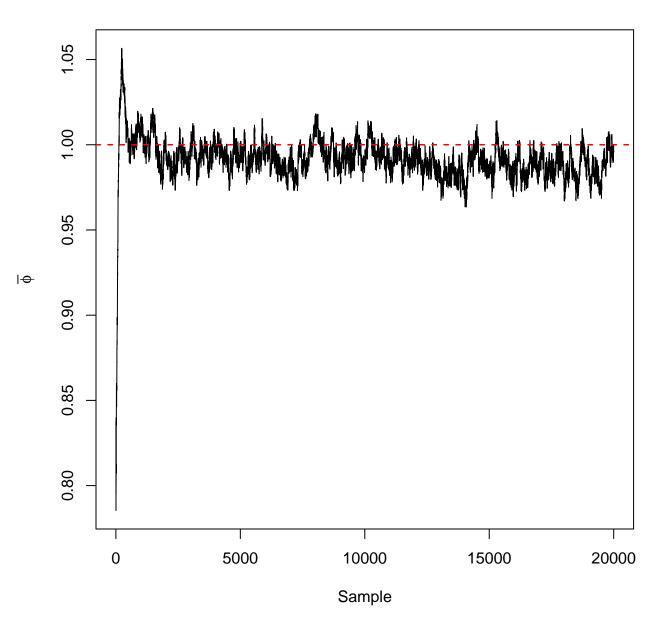
#### log(Posterior Probability): -2480326.01448449



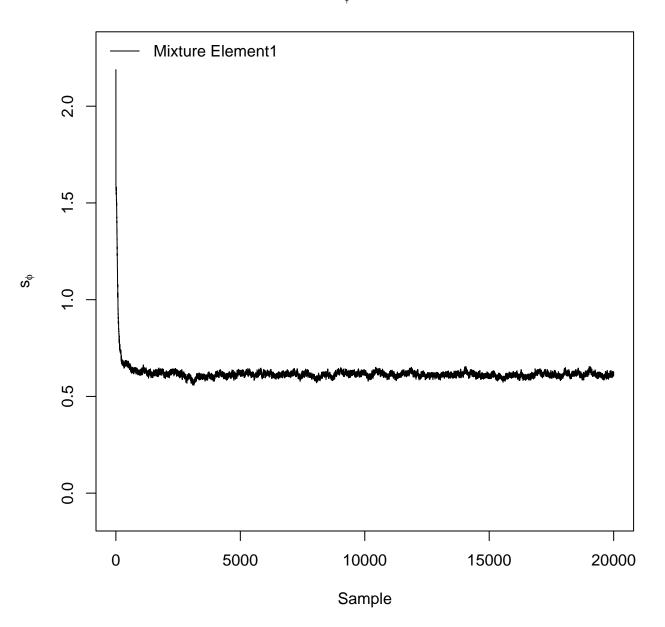
#### log(Likelihood Probability): -2476374.54427805



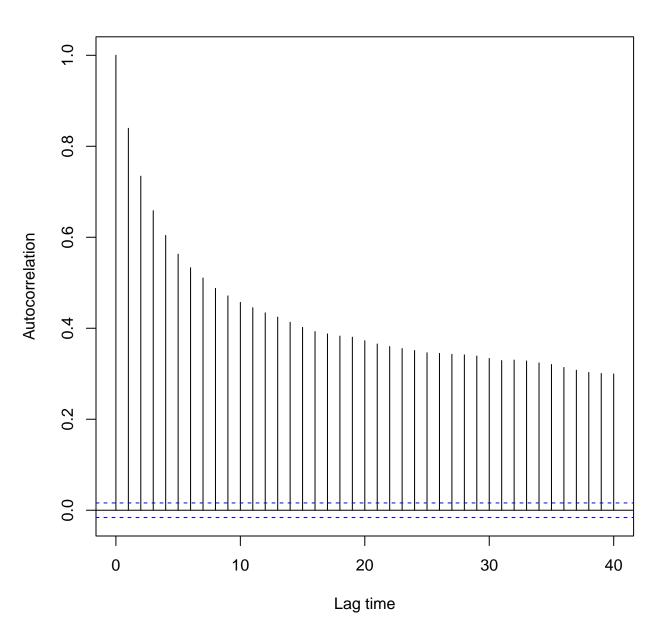
# Trace of the Expected value of $\phi$



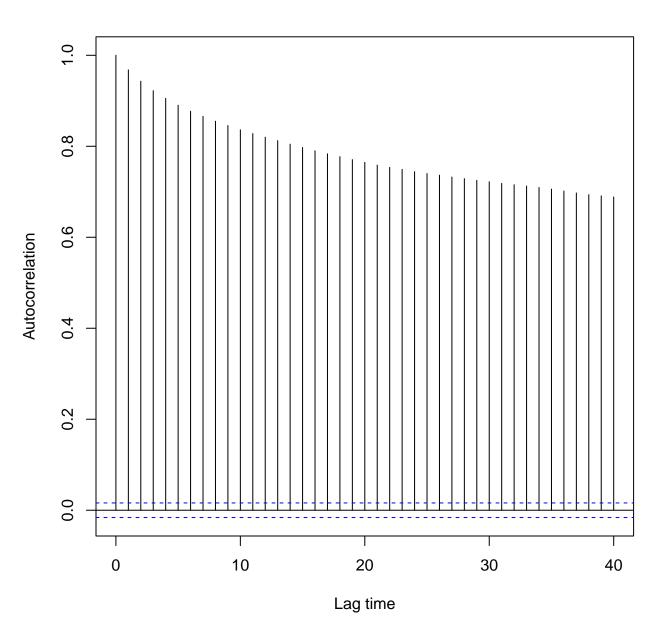
 $s_{\boldsymbol{\varphi}} Trace$ 



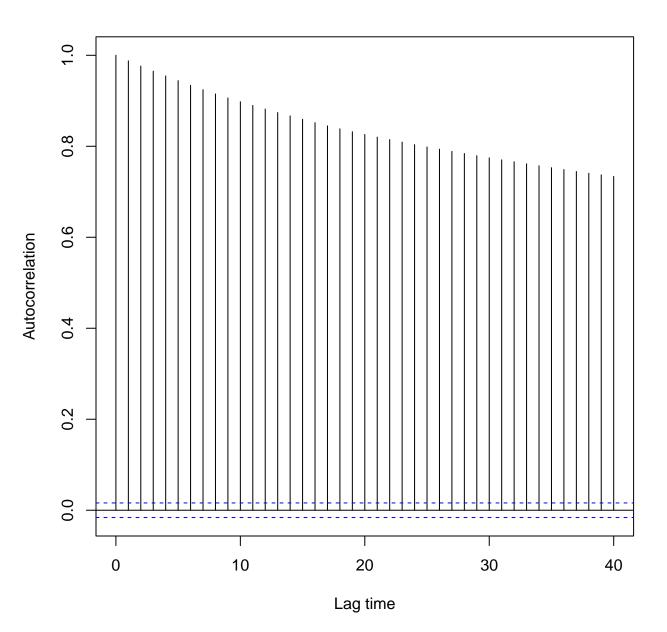
### **Selection A GCA Mixture: 1**



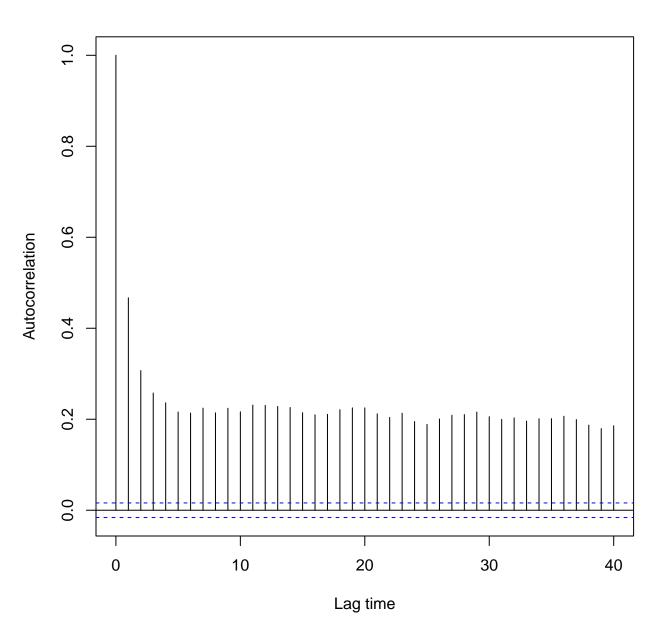
#### **Selection A GCC Mixture: 1**



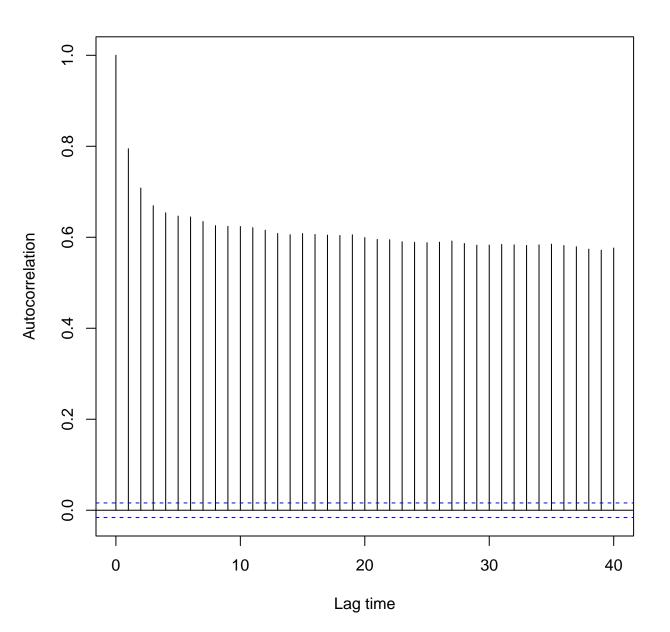
### **Selection A GCG Mixture: 1**



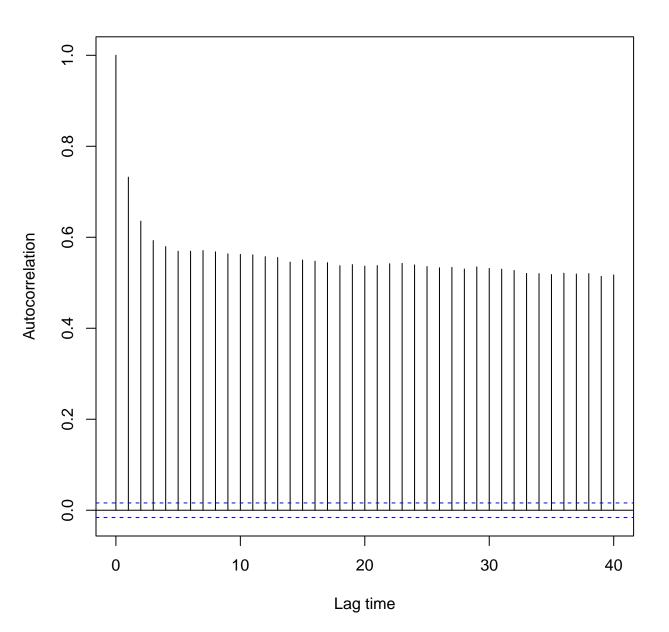
### **Selection C TGC Mixture: 1**



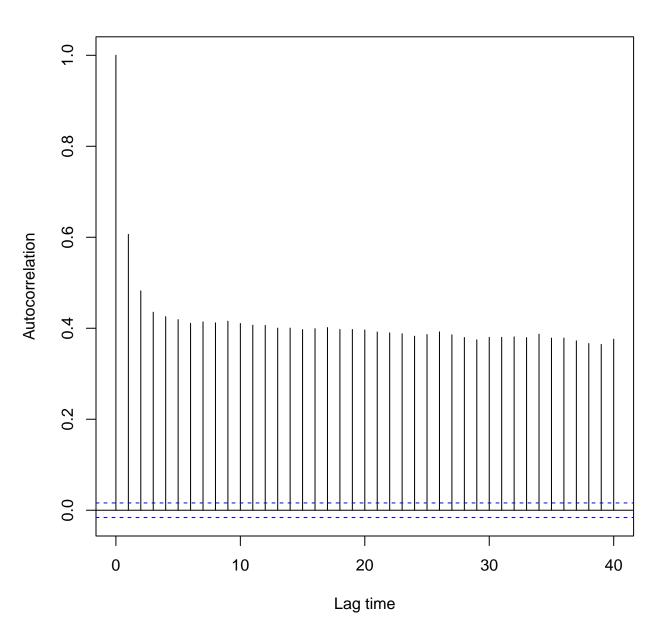
### **Selection D GAC Mixture: 1**



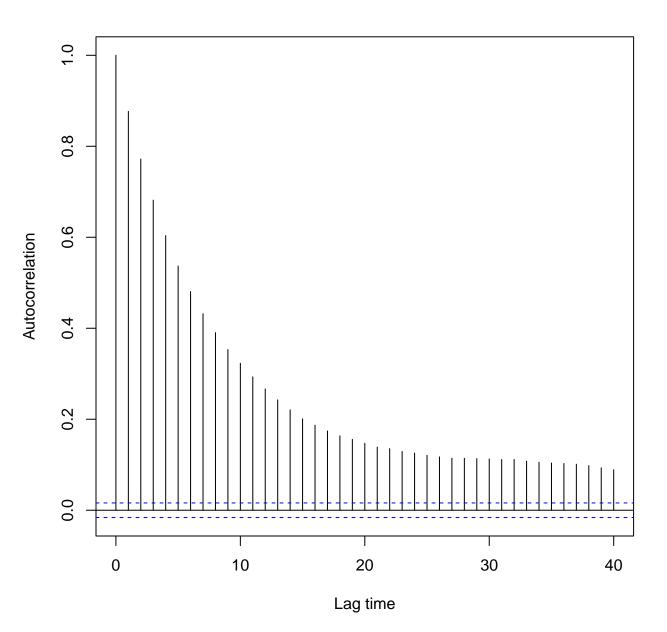
# **Selection E GAA Mixture: 1**



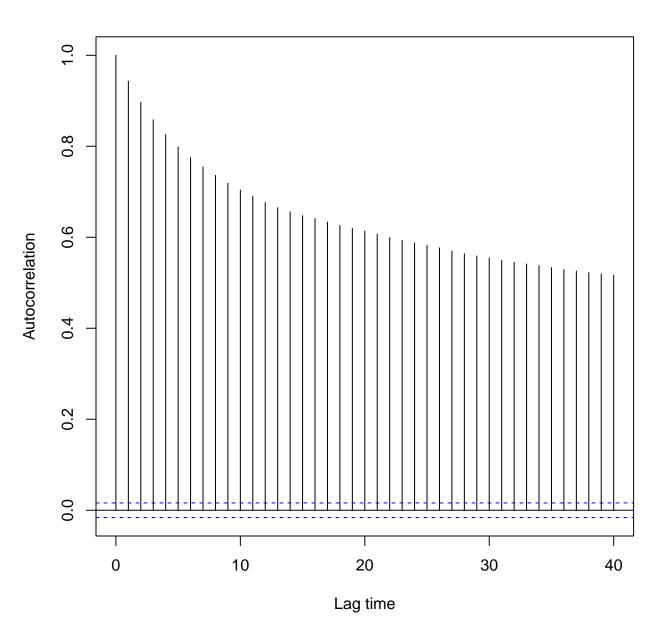
### **Selection F TTC Mixture: 1**



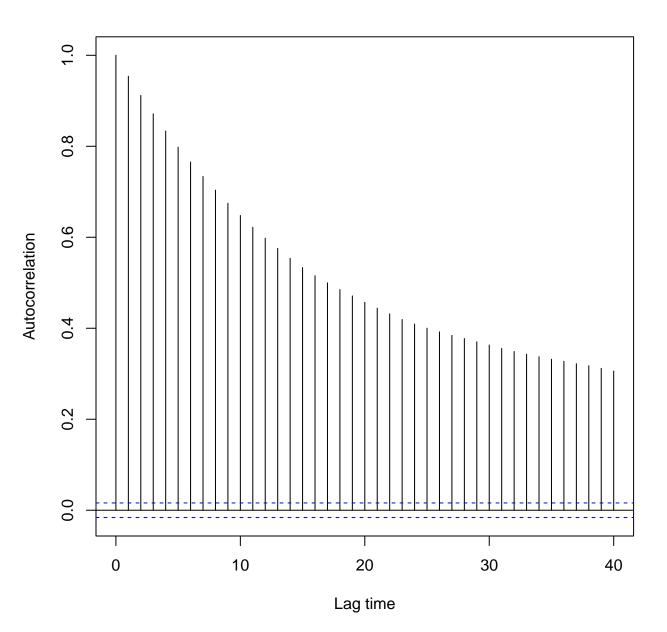
### **Selection G GGA Mixture: 1**



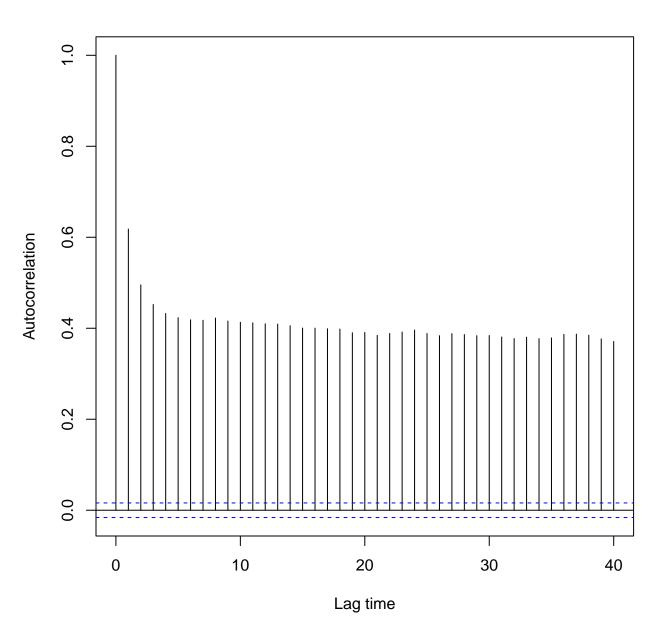
### **Selection G GGC Mixture: 1**



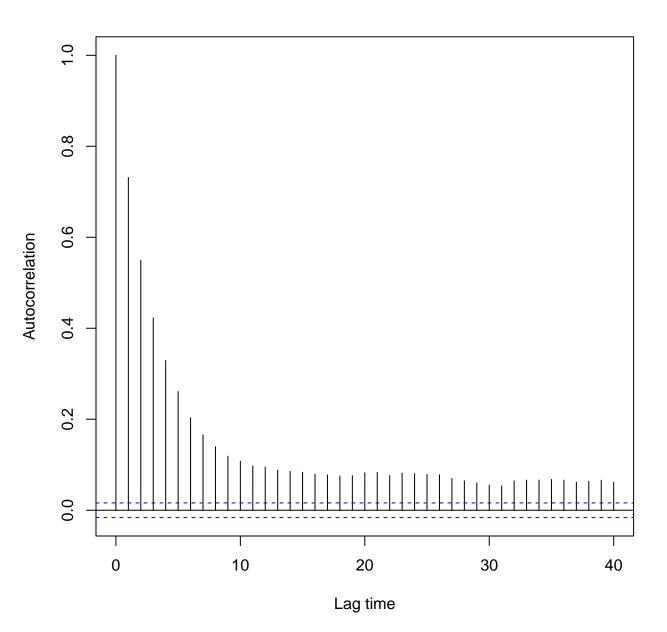
### **Selection G GGG Mixture: 1**



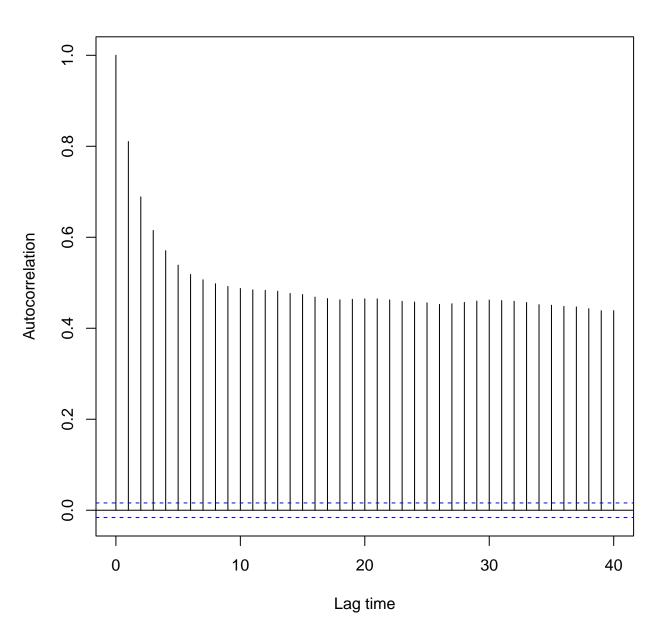
# **Selection H CAC Mixture: 1**



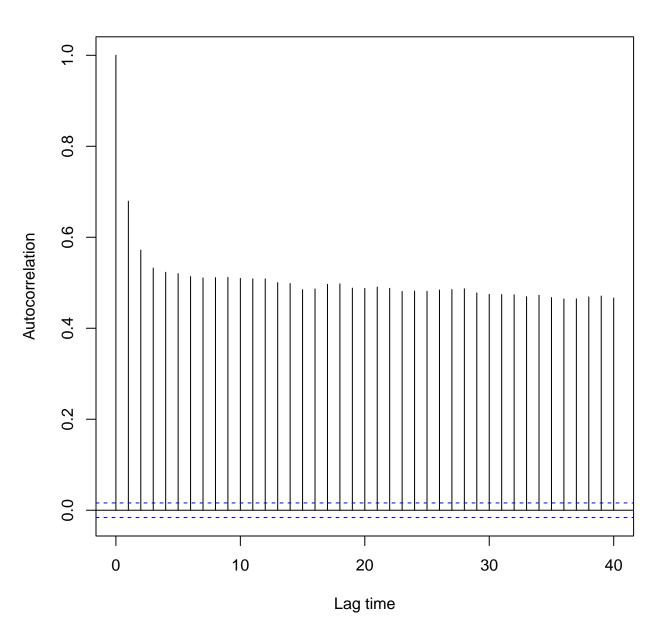
### **Selection I ATA Mixture: 1**



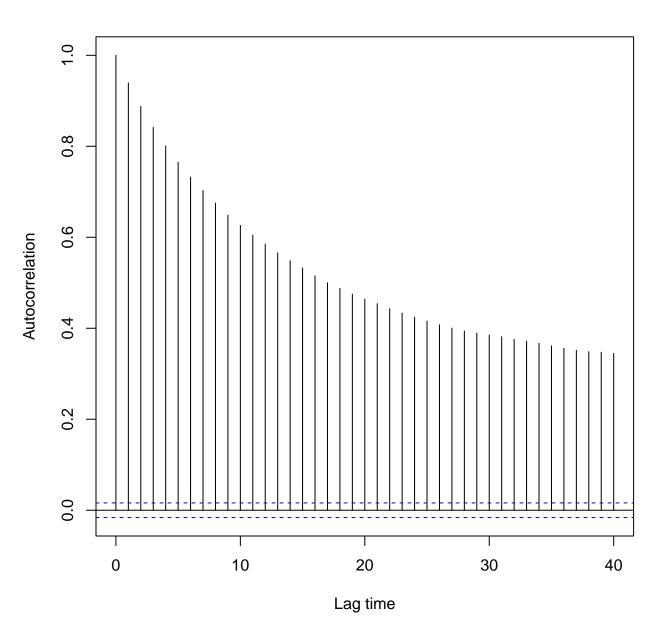
### **Selection I ATC Mixture: 1**



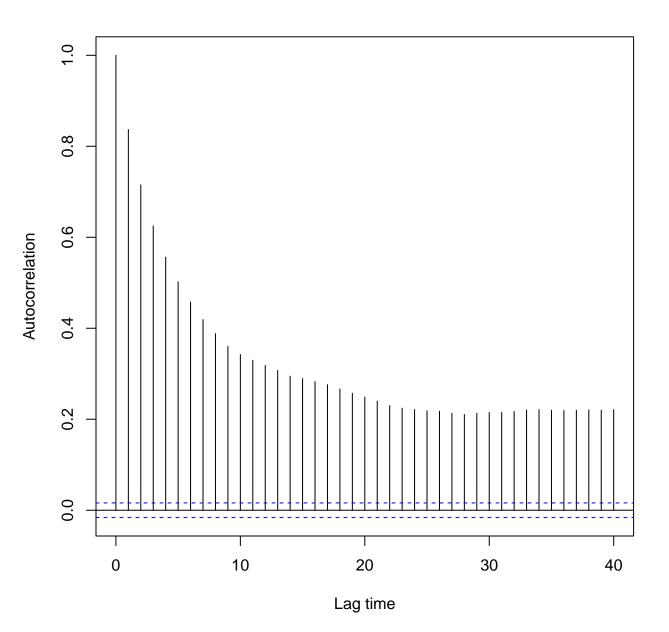
### **Selection K AAA Mixture: 1**



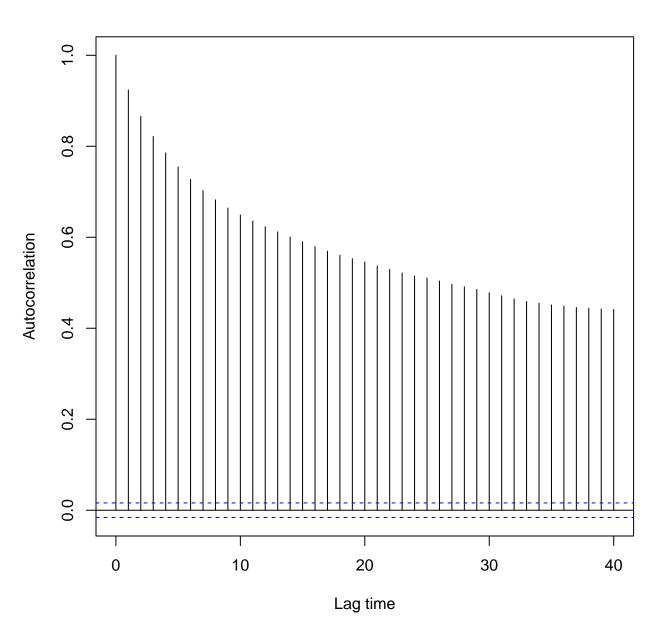
#### **Selection L CTA Mixture: 1**



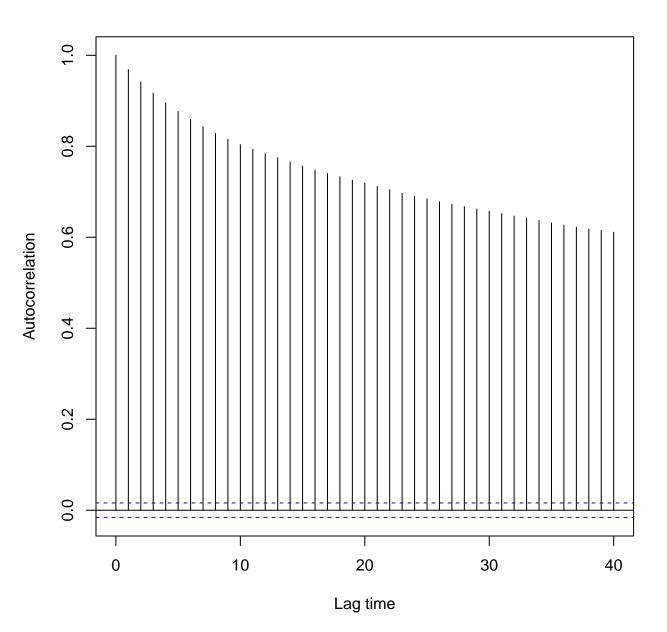
# **Selection L CTC Mixture: 1**



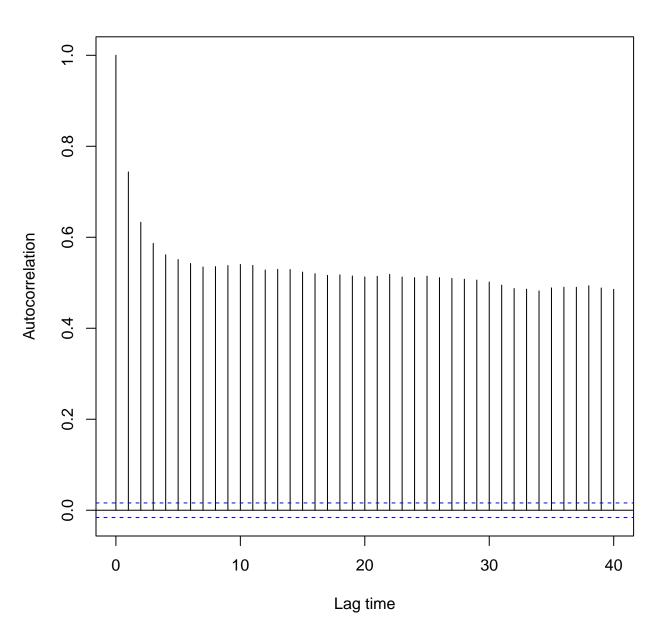
# **Selection L CTT Mixture: 1**



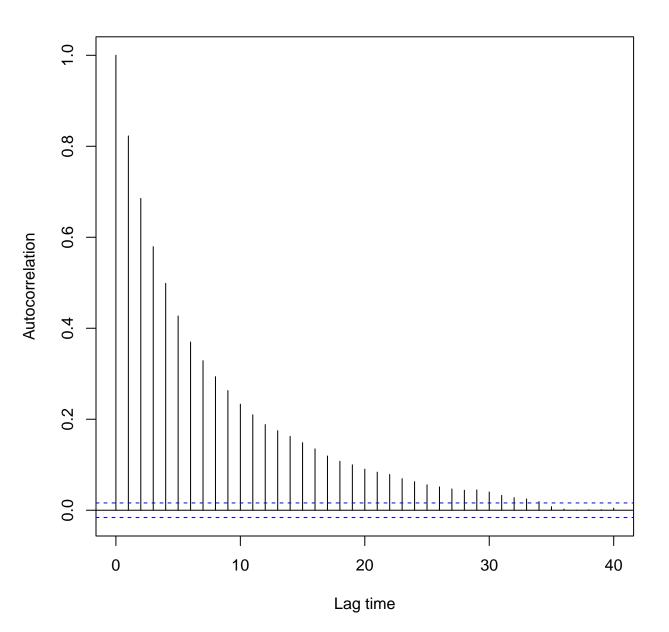
### **Selection L TTA Mixture: 1**



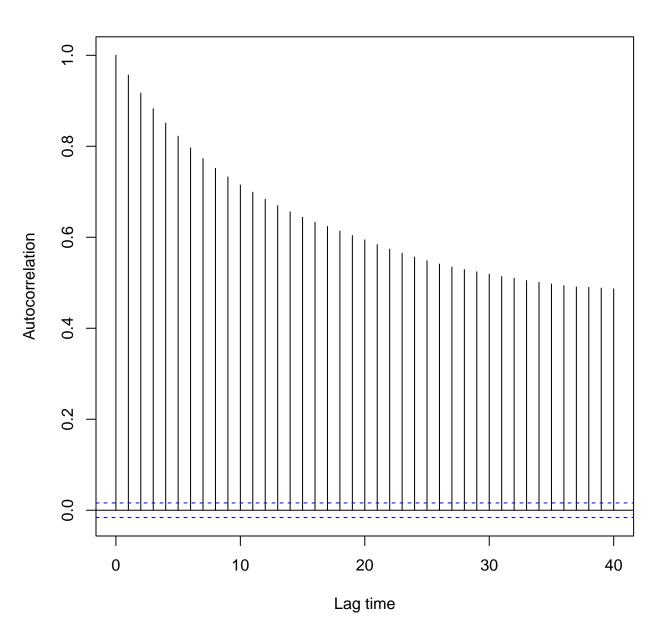
### **Selection N AAC Mixture: 1**



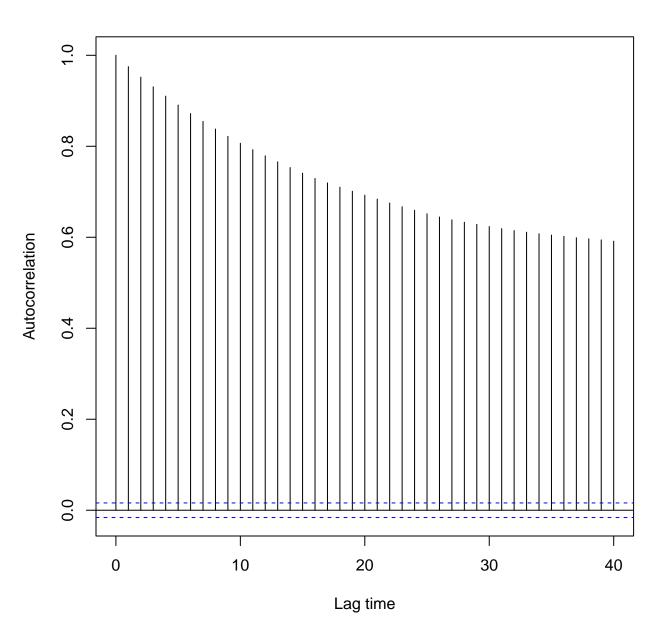
# **Selection P CCA Mixture: 1**



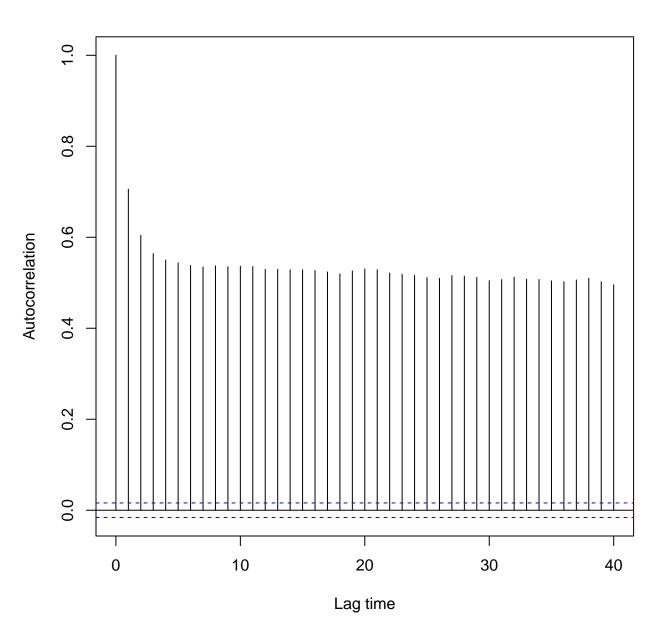
# **Selection P CCC Mixture: 1**



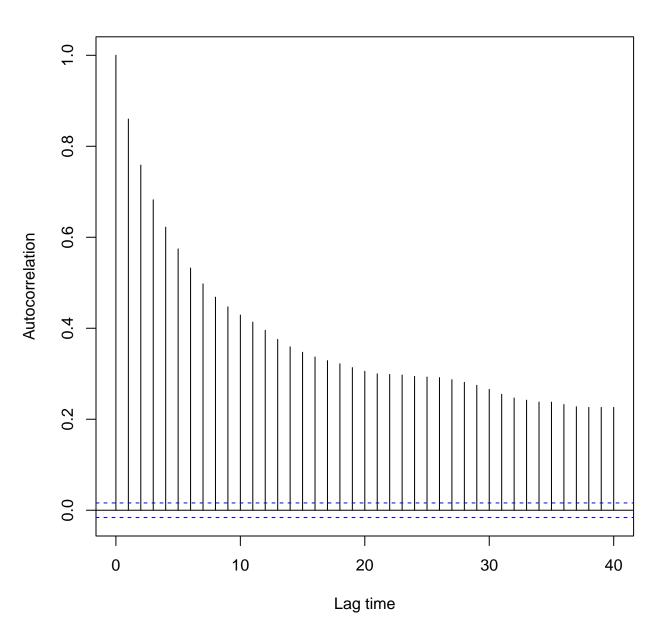
### **Selection P CCG Mixture: 1**



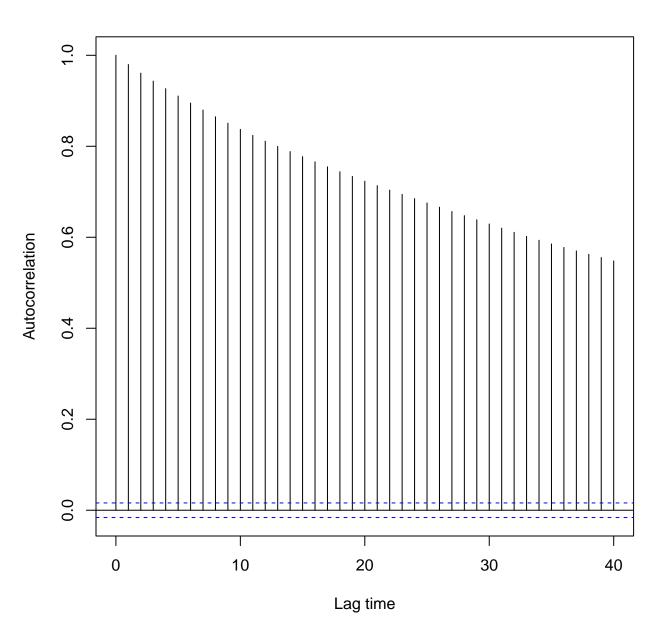
### **Selection Q CAA Mixture: 1**



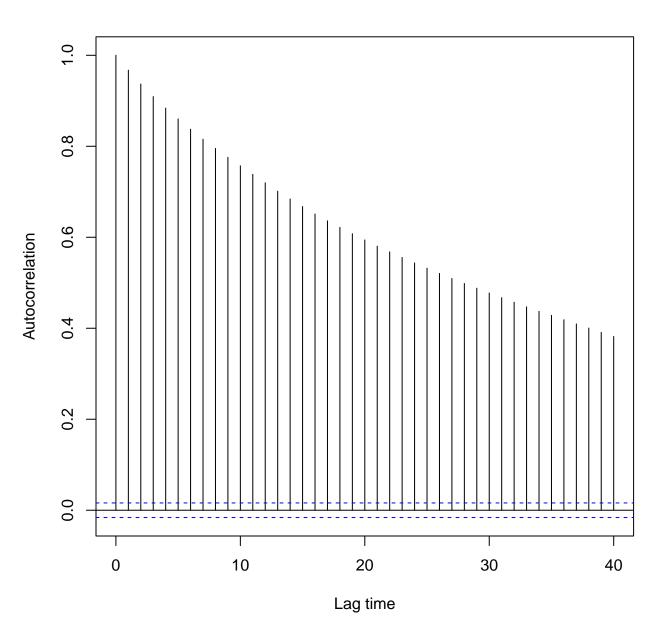
### **Selection R AGA Mixture: 1**



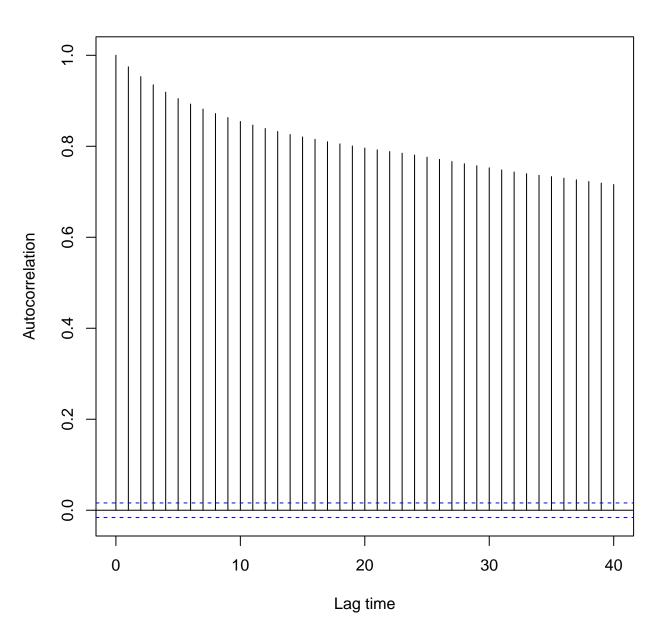
#### **Selection R AGG Mixture: 1**



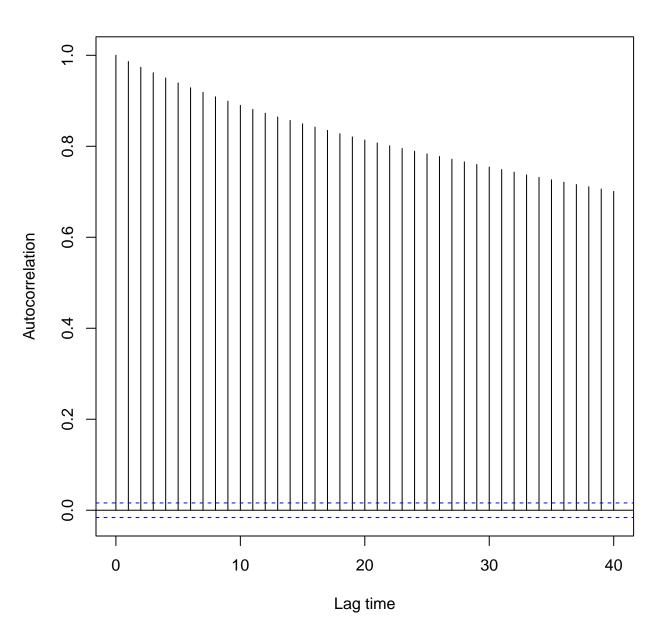
### **Selection R CGA Mixture: 1**



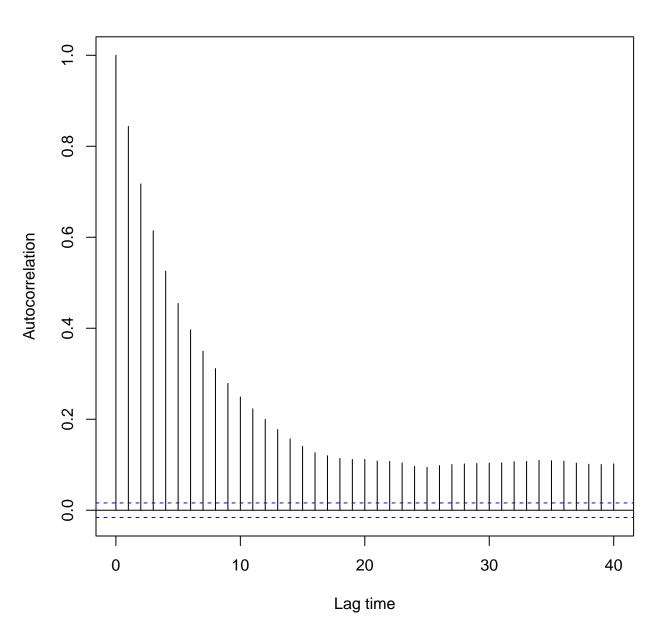
#### **Selection R CGC Mixture: 1**



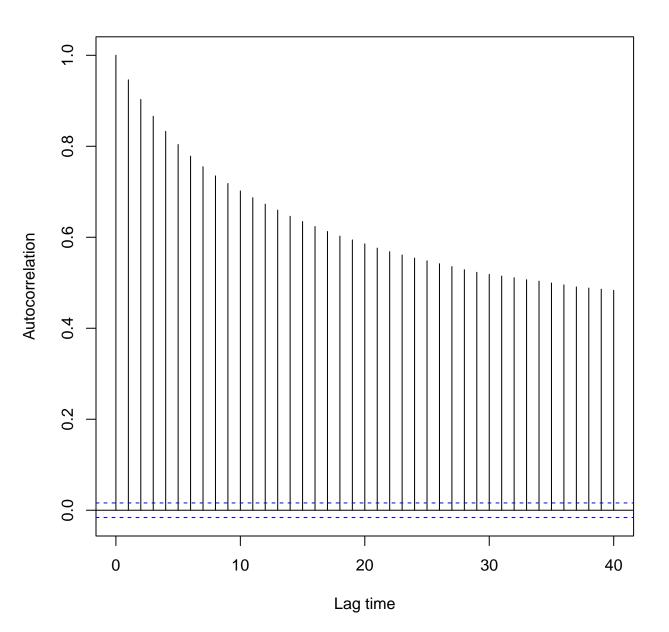
### **Selection R CGG Mixture: 1**



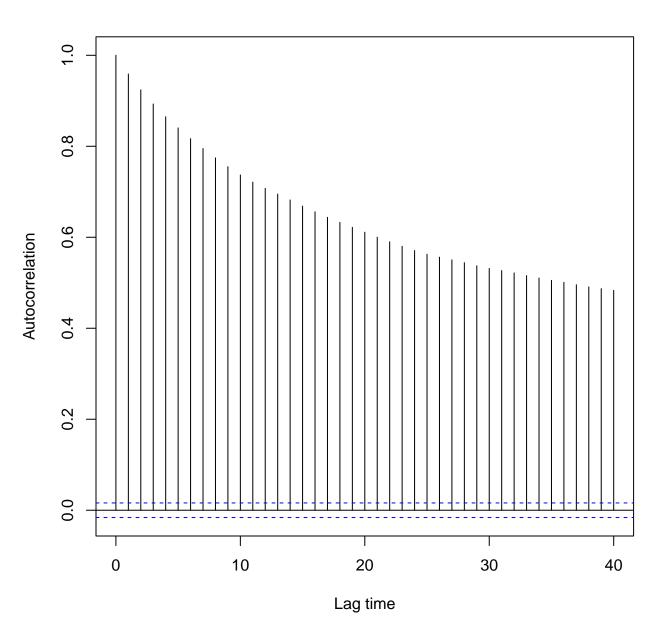
### **Selection S TCA Mixture: 1**



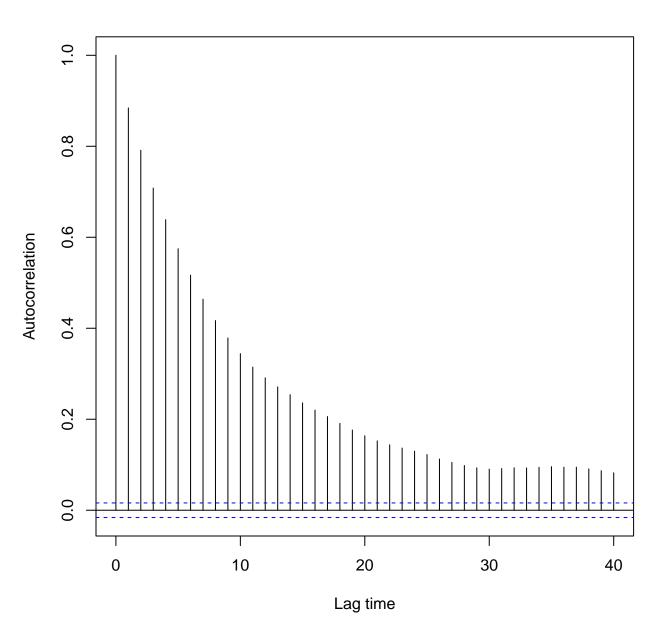
# **Selection S TCC Mixture: 1**



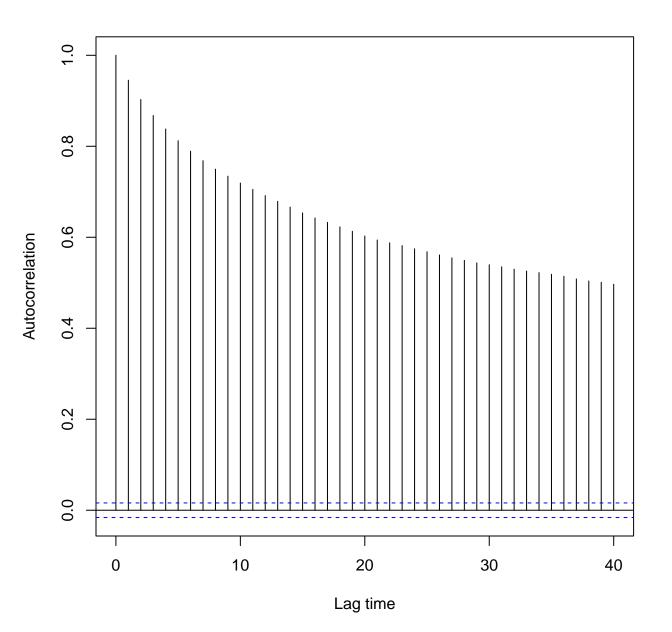
#### **Selection S TCG Mixture: 1**



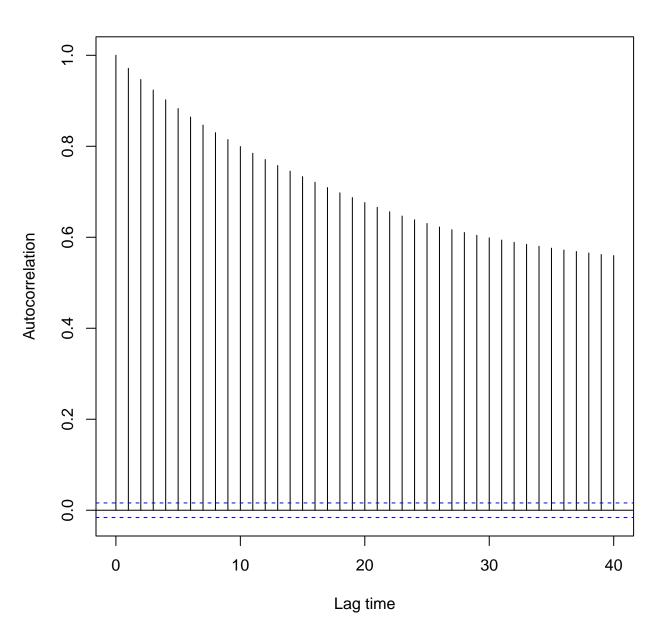
# **Selection T ACA Mixture: 1**



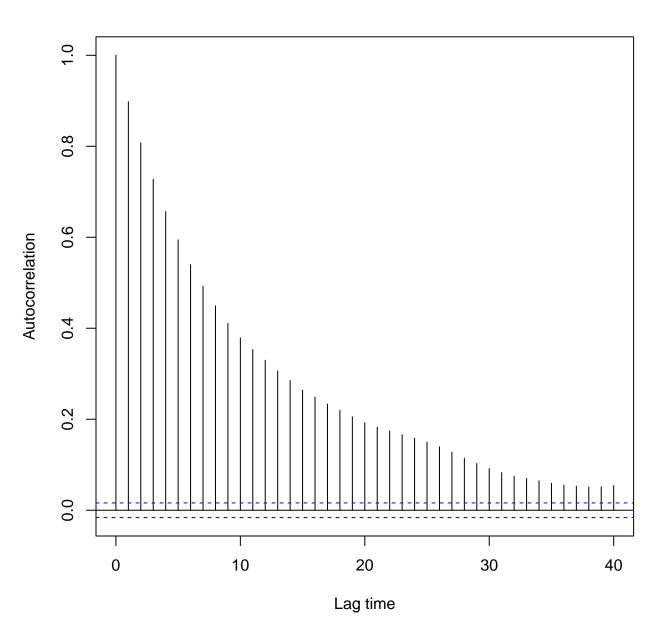
# **Selection T ACC Mixture: 1**



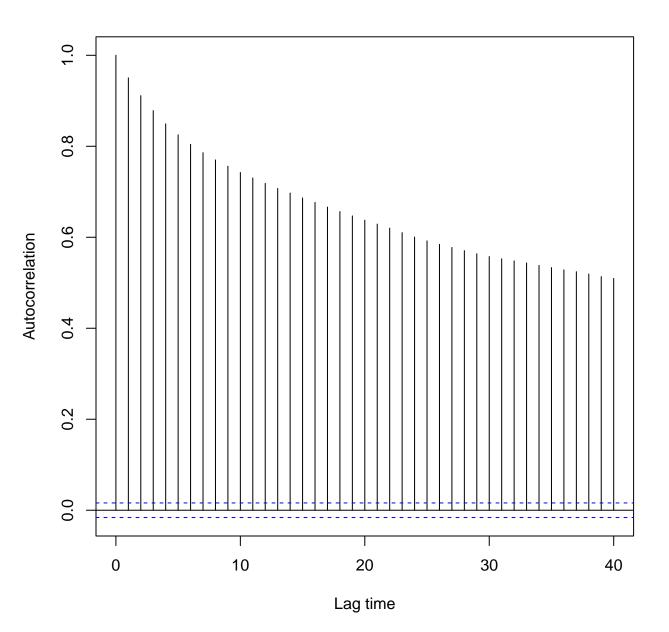
# **Selection T ACG Mixture: 1**



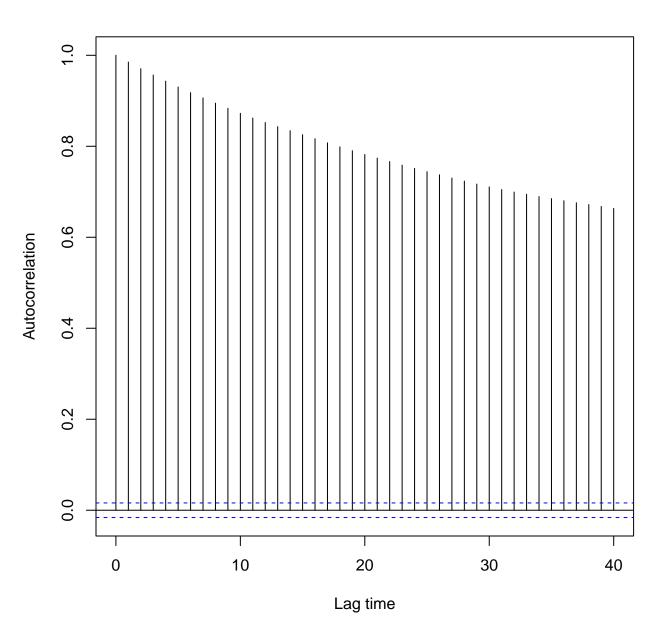
# **Selection V GTA Mixture: 1**



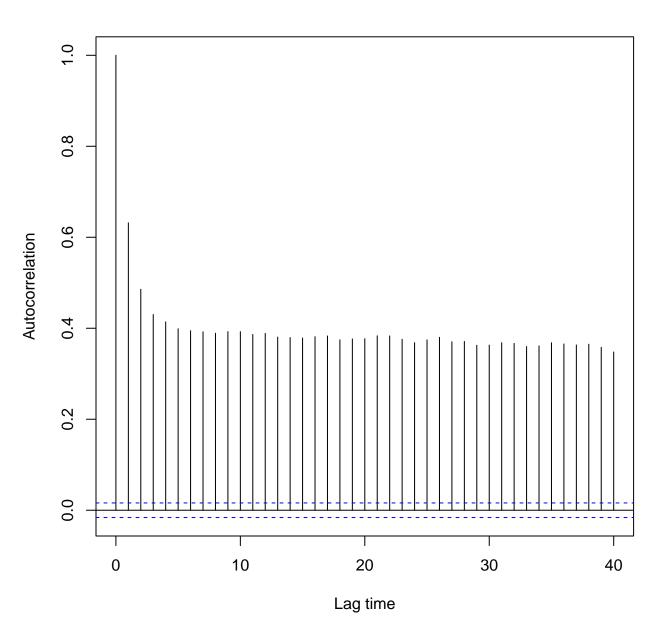
# **Selection V GTC Mixture: 1**



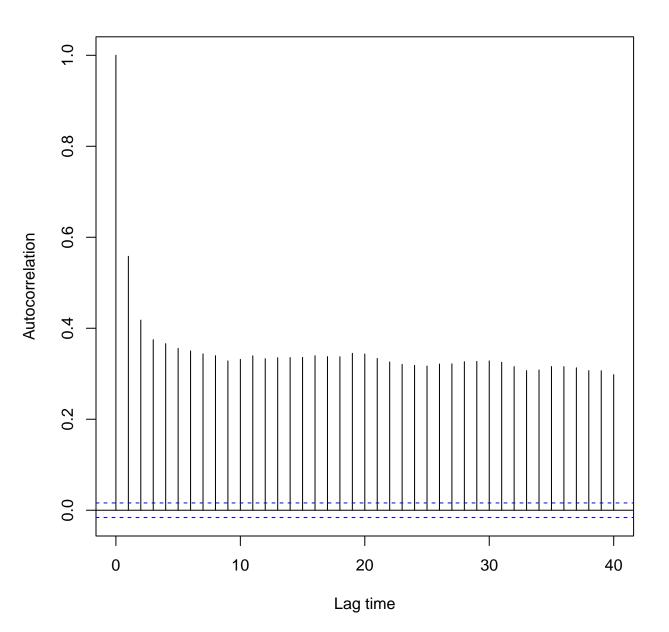
### **Selection V GTG Mixture: 1**



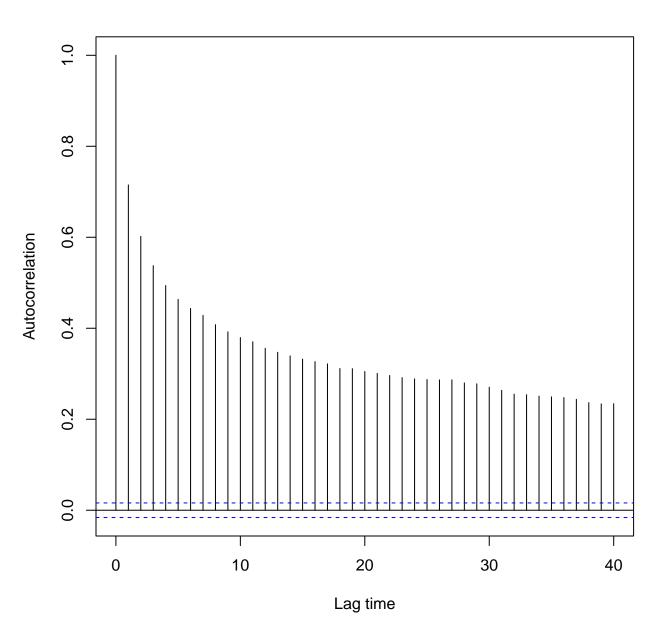
# **Selection Y TAC Mixture: 1**



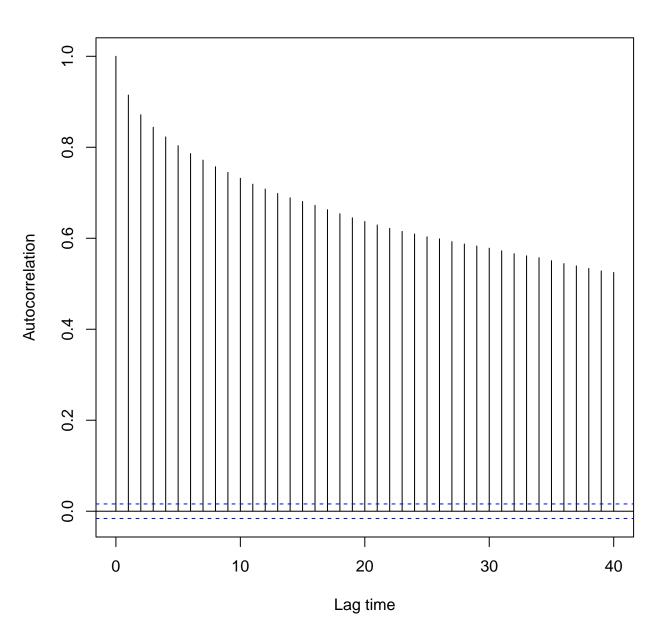
# **Selection Z AGC Mixture: 1**



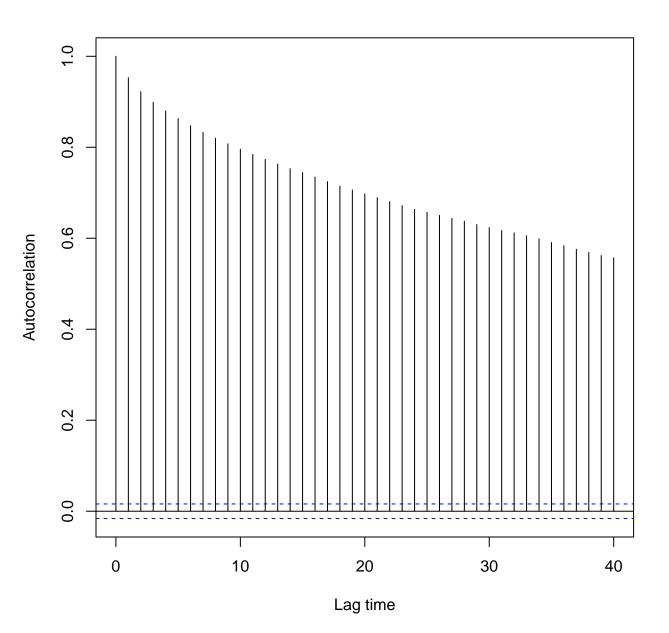
# **Mutation A GCA Mixture: 1**



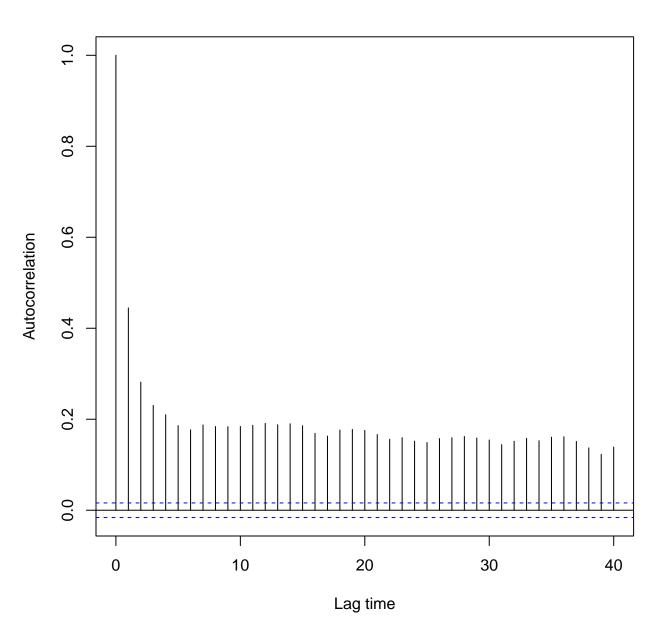
# **Mutation A GCC Mixture: 1**



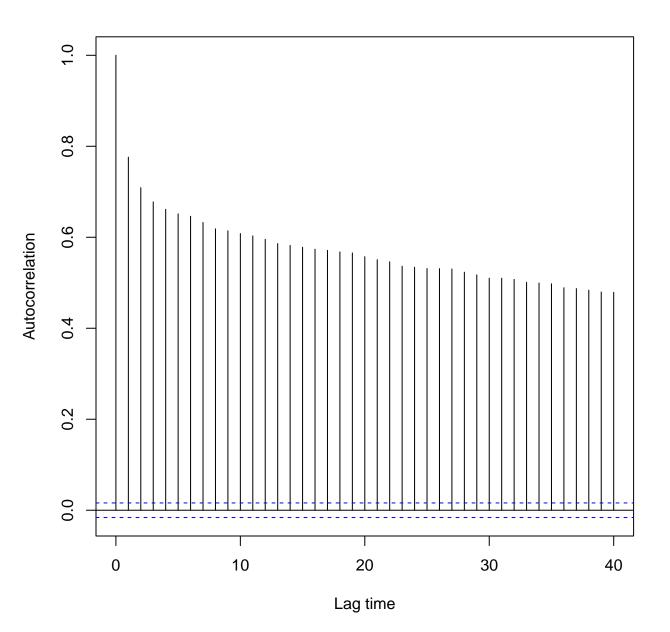
# **Mutation A GCG Mixture: 1**



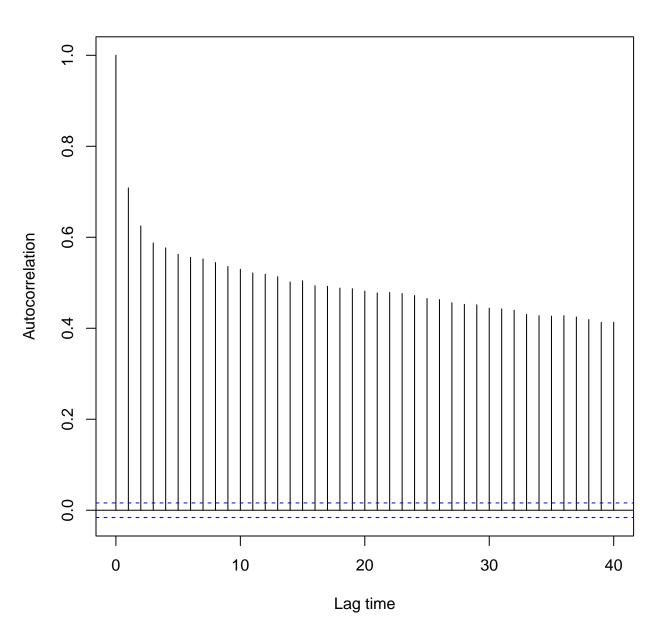
# **Mutation C TGC Mixture: 1**



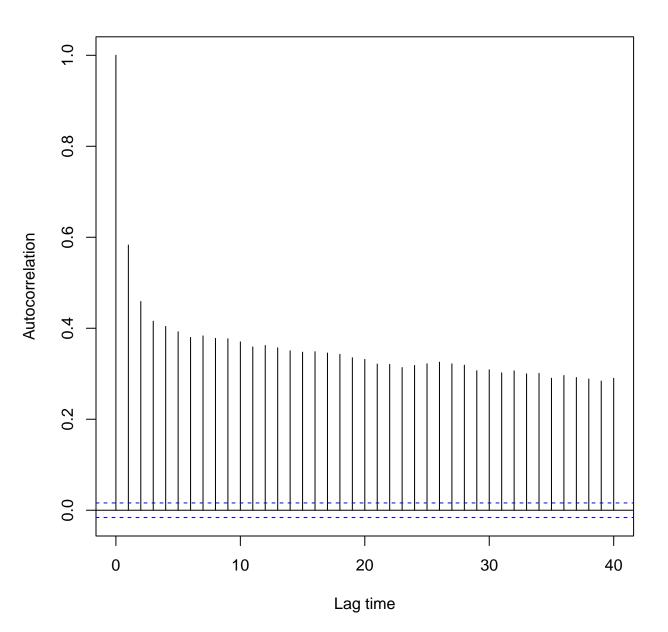
# **Mutation D GAC Mixture: 1**



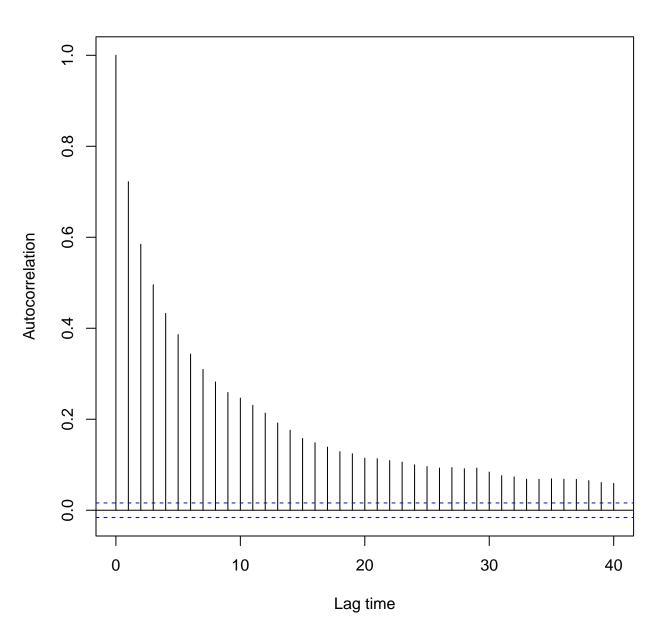
# **Mutation E GAA Mixture: 1**



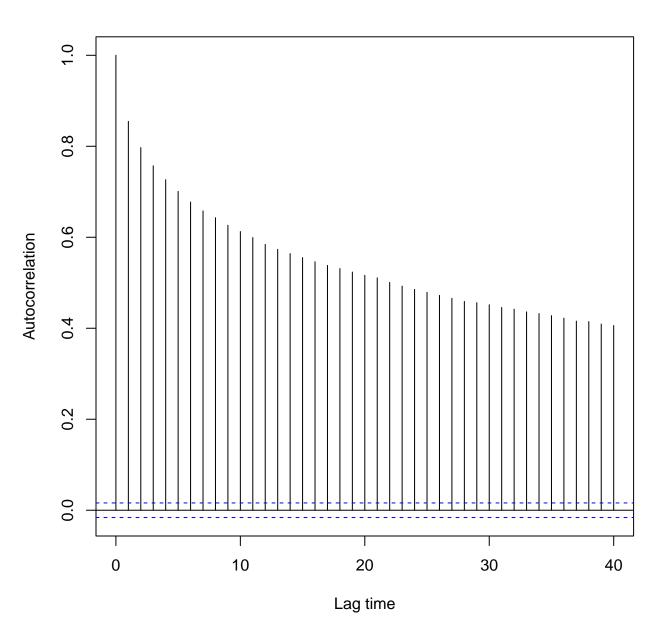
# **Mutation F TTC Mixture: 1**



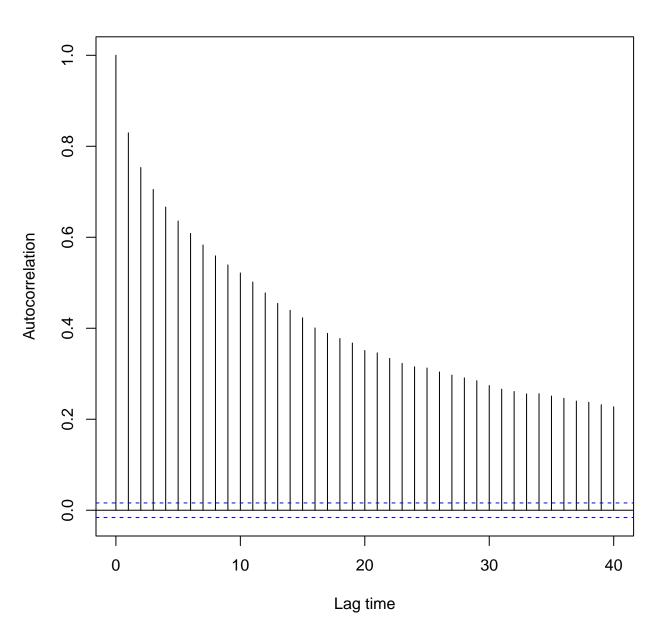
# **Mutation G GGA Mixture: 1**



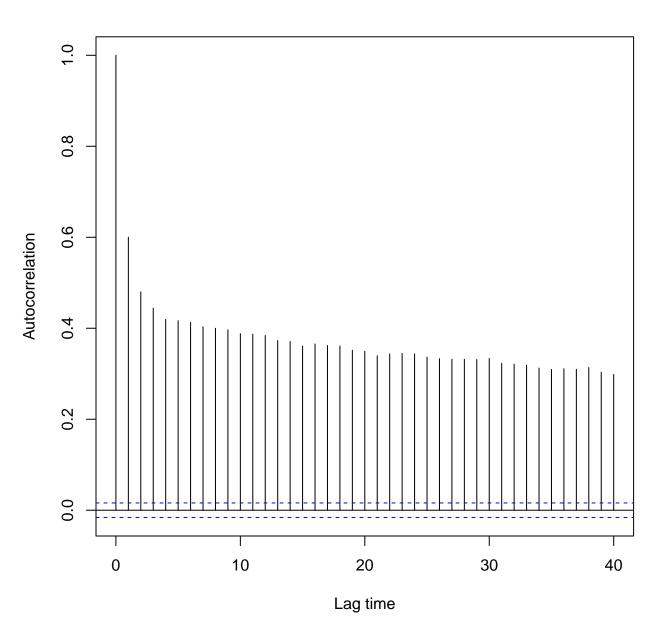
# **Mutation G GGC Mixture: 1**



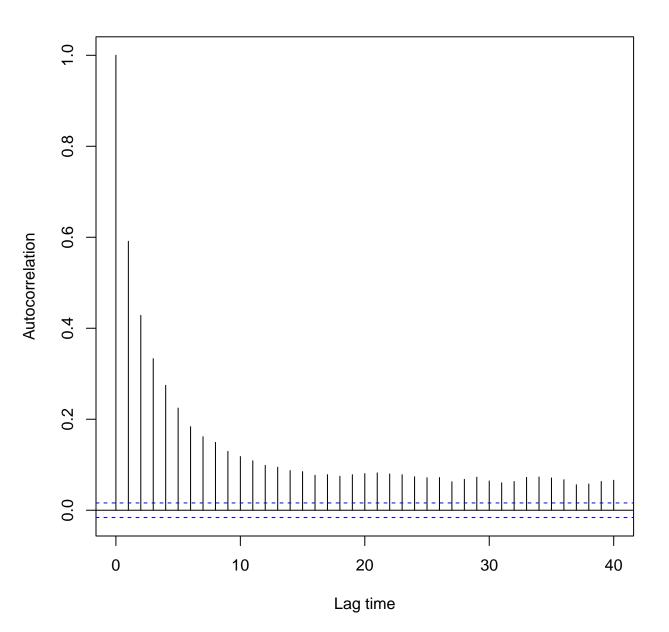
# **Mutation G GGG Mixture: 1**



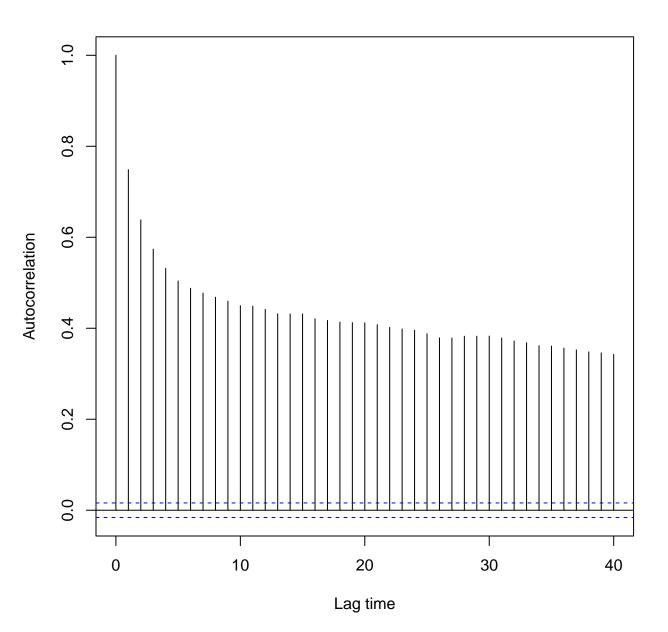
# **Mutation H CAC Mixture: 1**



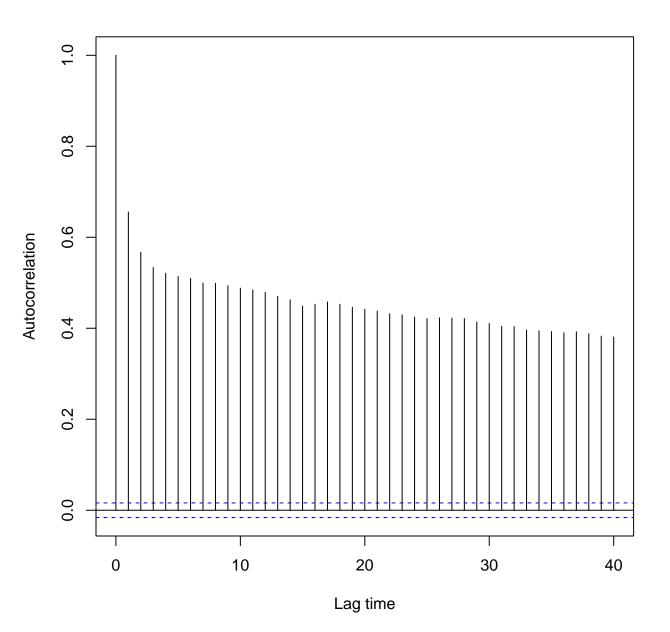
# **Mutation I ATA Mixture: 1**



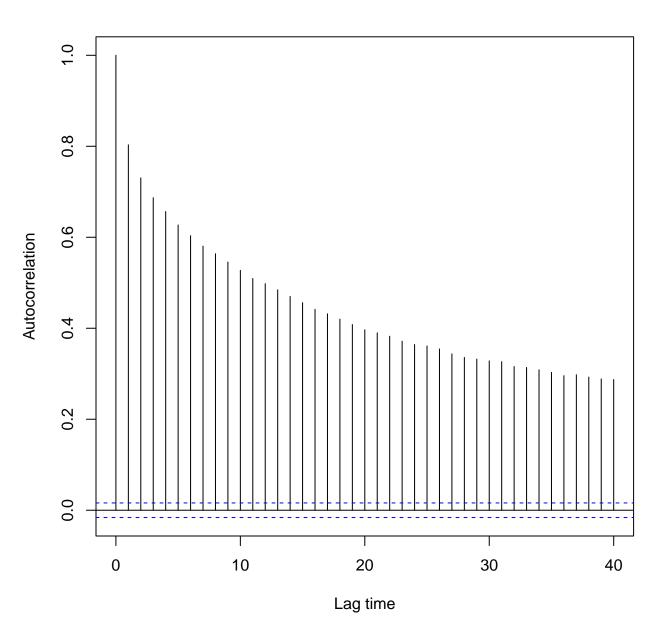
# **Mutation I ATC Mixture: 1**



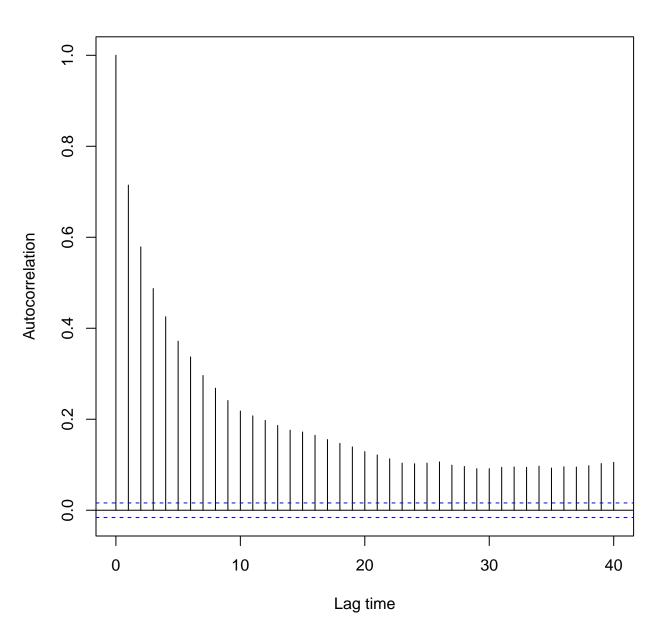
### **Mutation K AAA Mixture: 1**



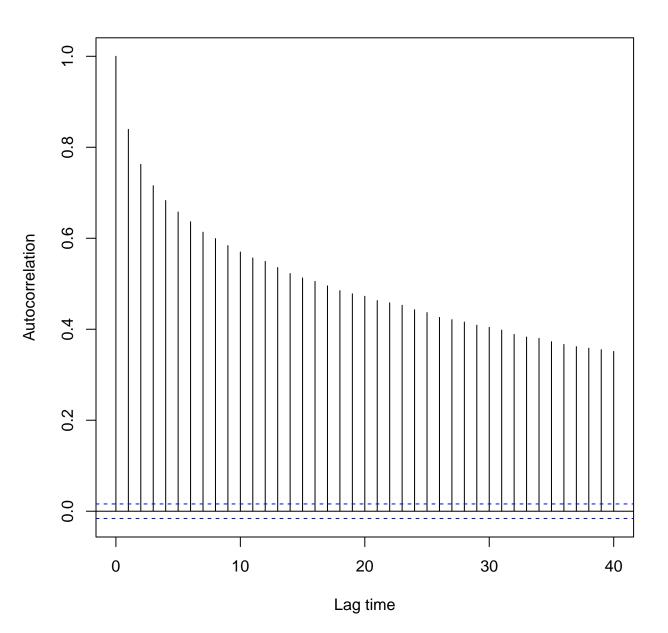
# **Mutation L CTA Mixture: 1**



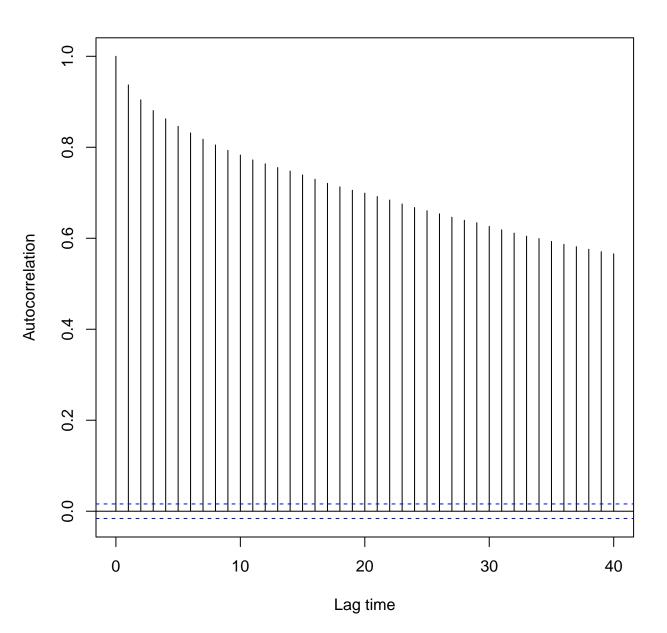
# **Mutation L CTC Mixture: 1**



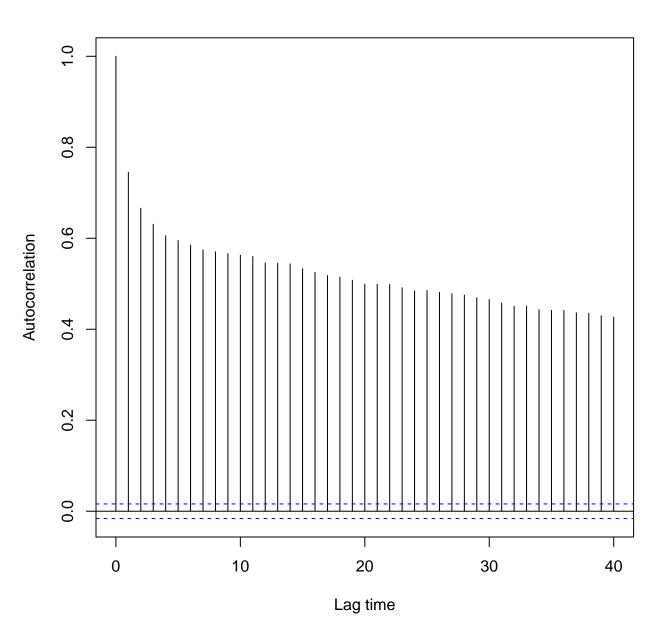
# **Mutation L CTT Mixture: 1**



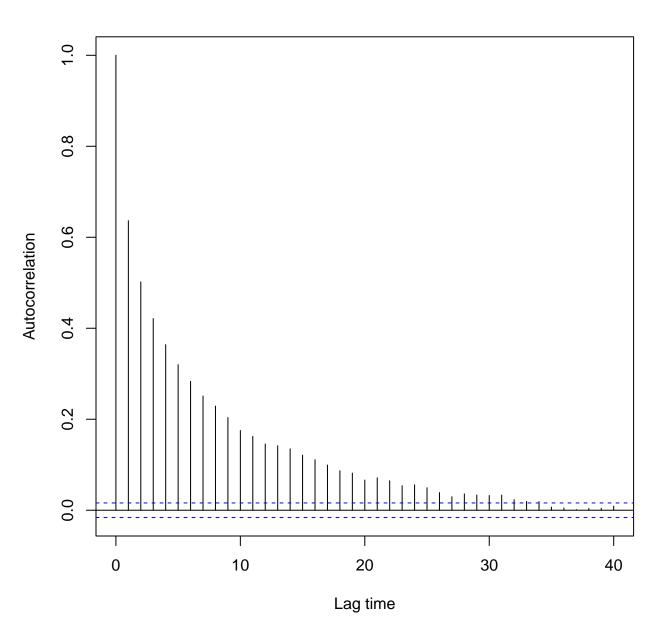
# **Mutation L TTA Mixture: 1**



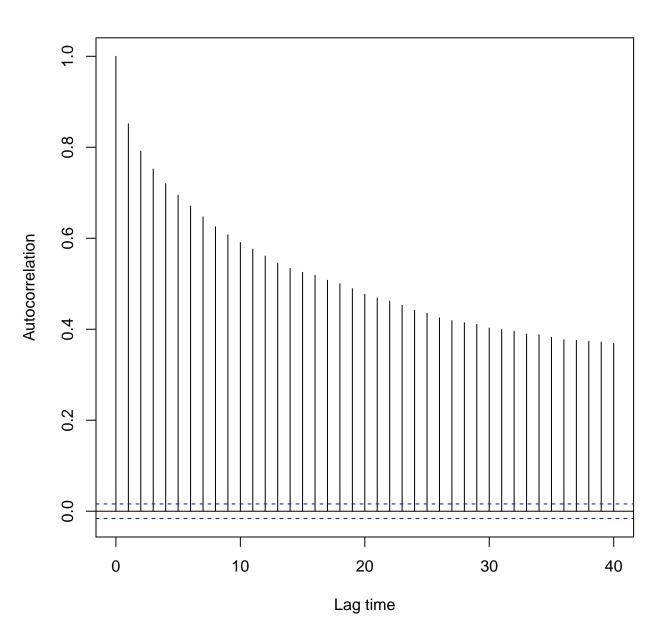
### **Mutation N AAC Mixture: 1**



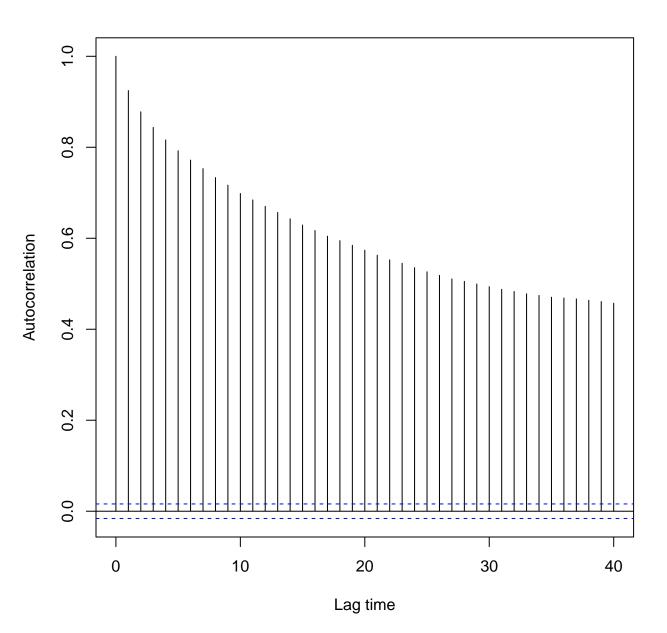
# **Mutation P CCA Mixture: 1**



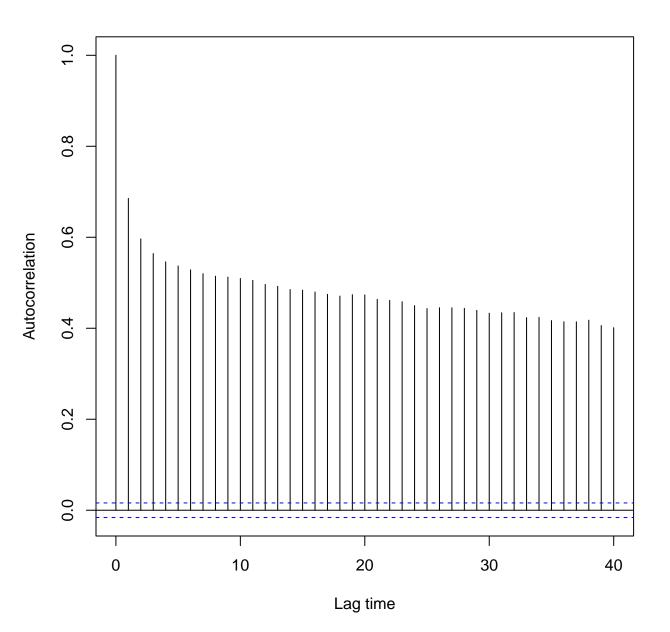
# **Mutation P CCC Mixture: 1**



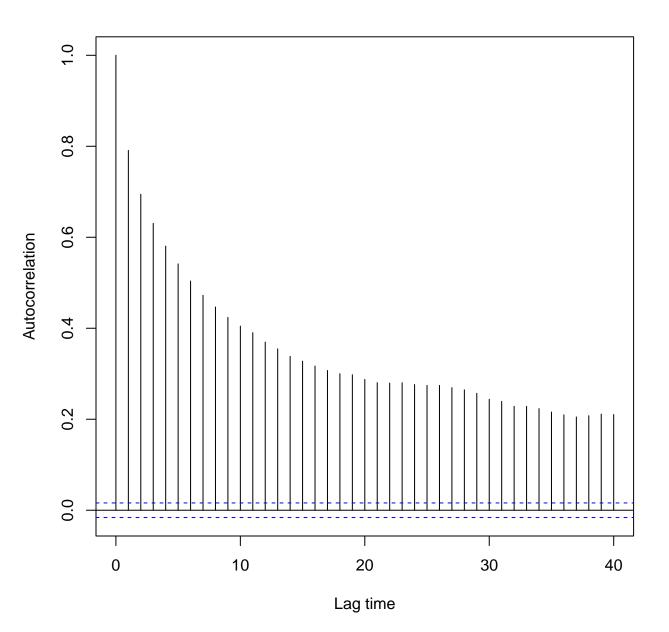
# **Mutation P CCG Mixture: 1**



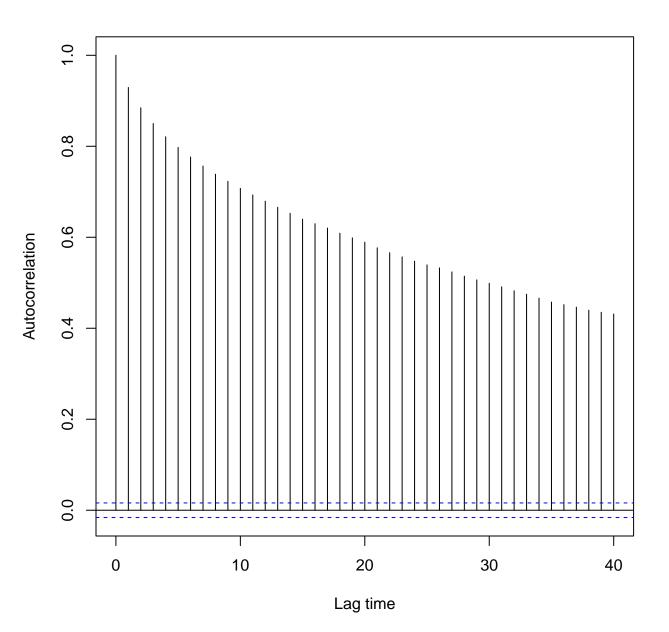
# **Mutation Q CAA Mixture: 1**



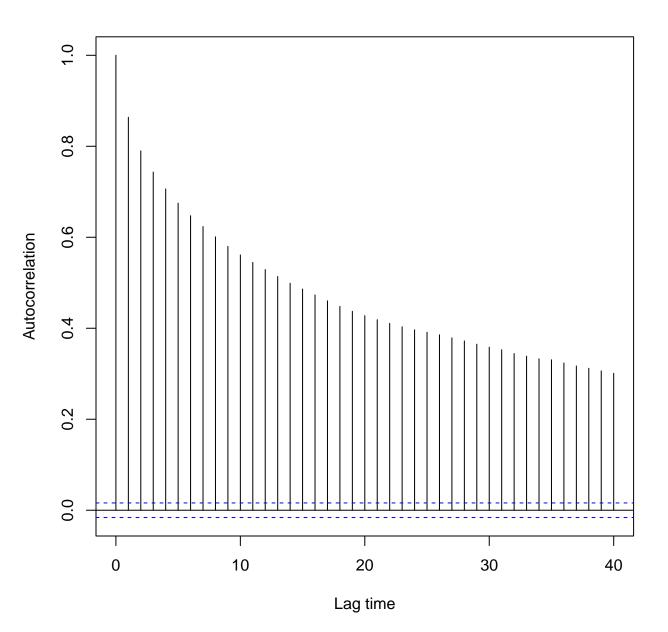
# **Mutation R AGA Mixture: 1**



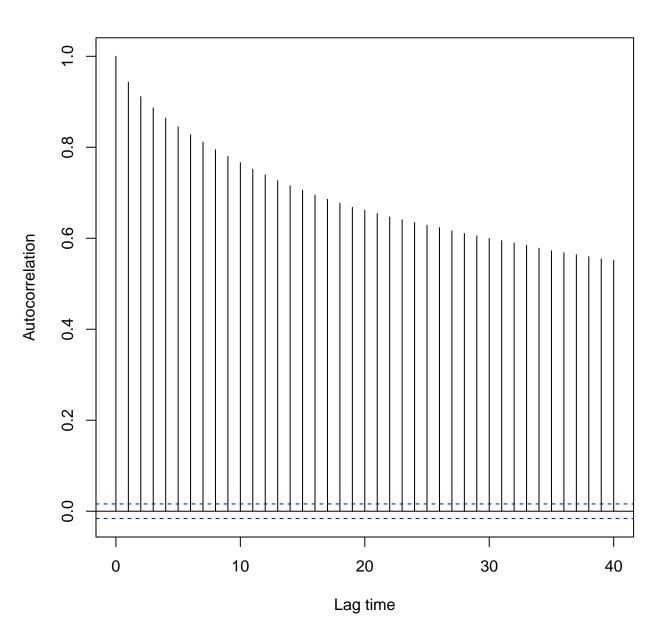
### **Mutation R AGG Mixture: 1**



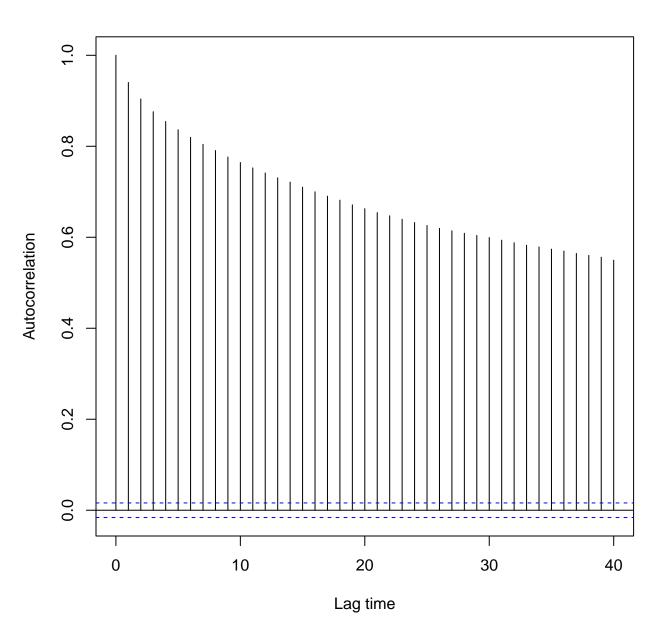
# **Mutation R CGA Mixture: 1**



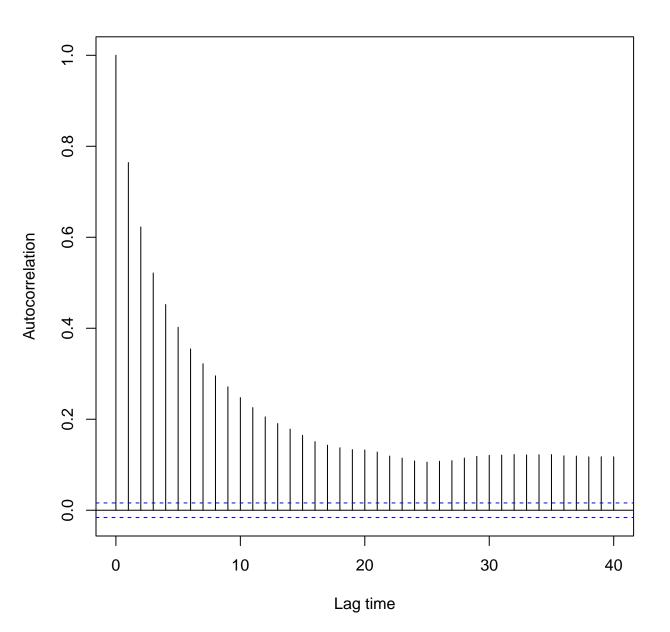
# **Mutation R CGC Mixture: 1**



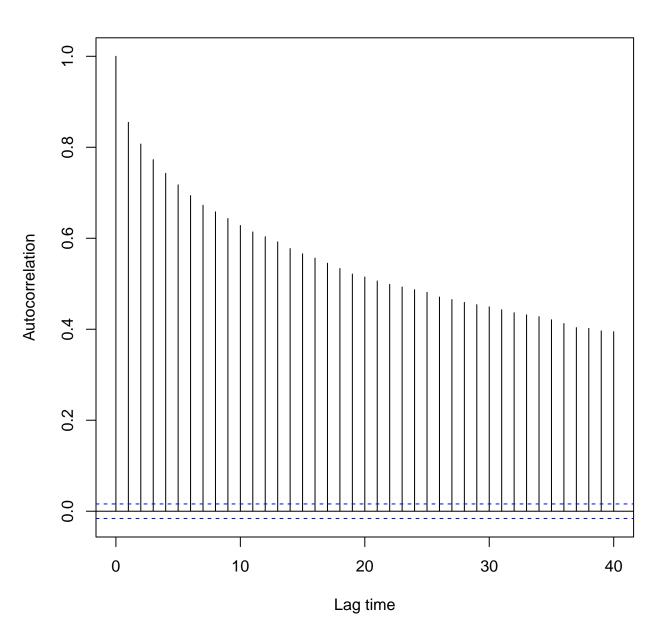
### **Mutation R CGG Mixture: 1**



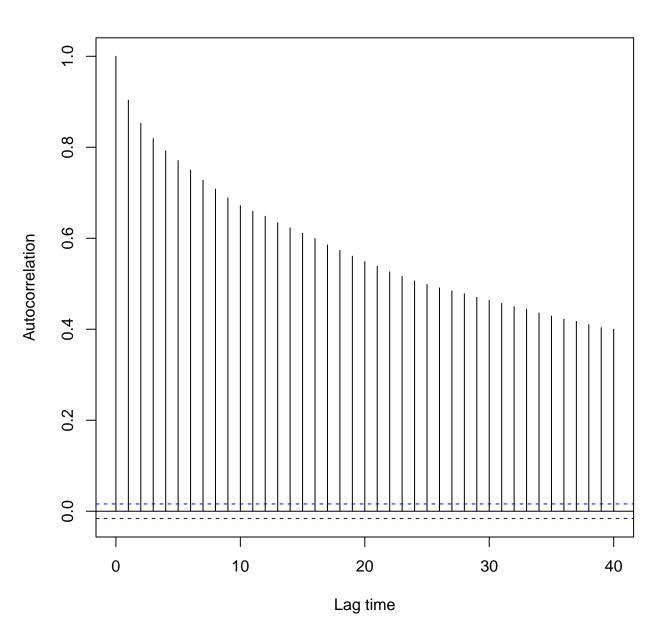
# **Mutation S TCA Mixture: 1**



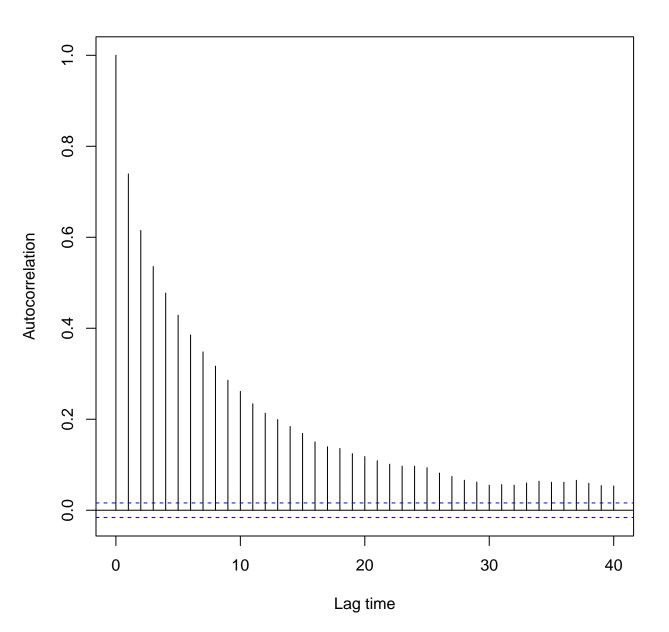
# **Mutation S TCC Mixture: 1**



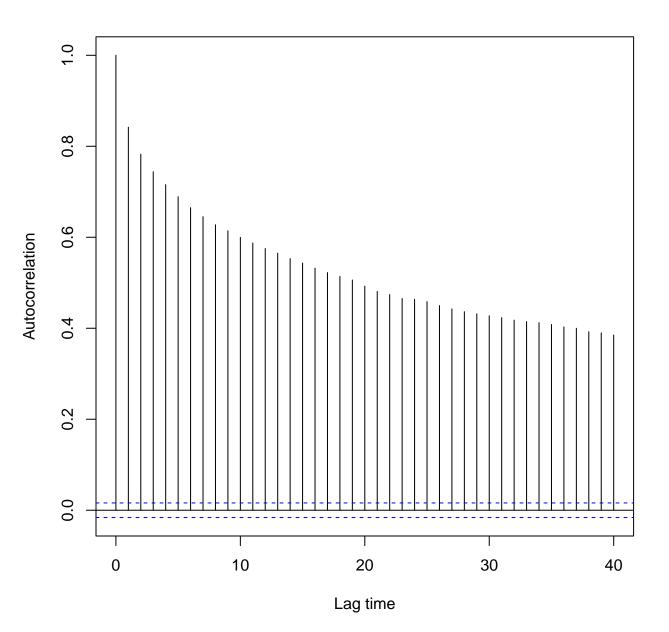
# **Mutation S TCG Mixture: 1**



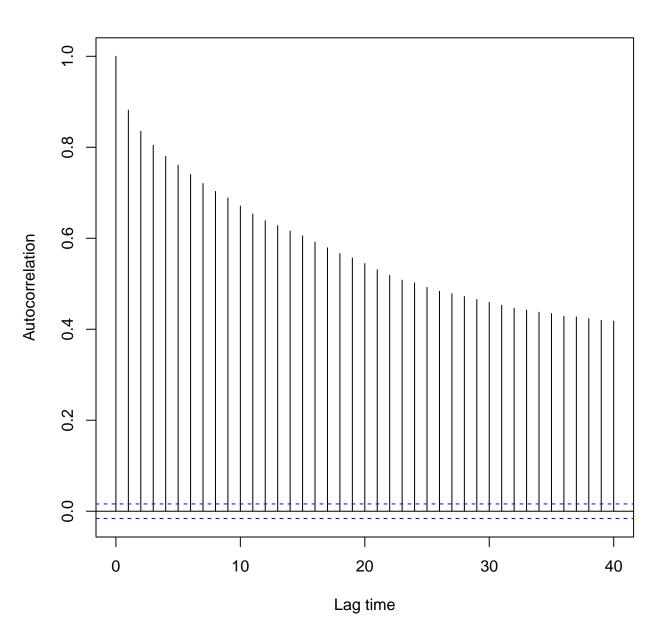
# **Mutation T ACA Mixture: 1**



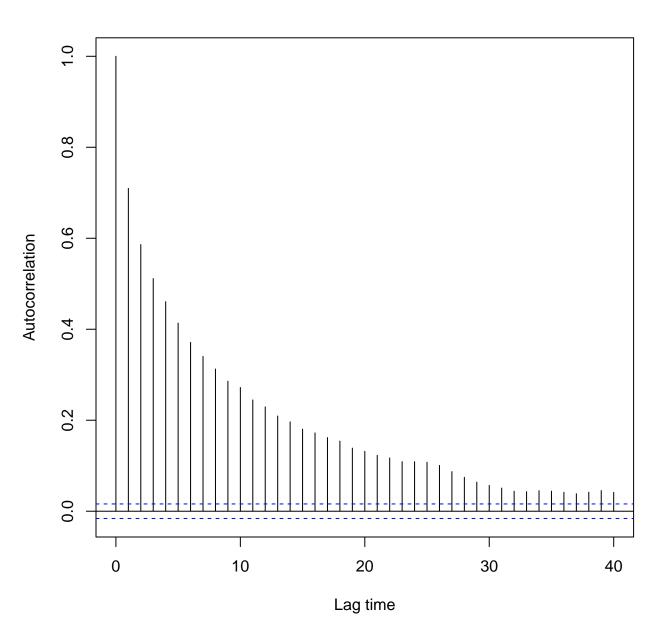
# **Mutation T ACC Mixture: 1**



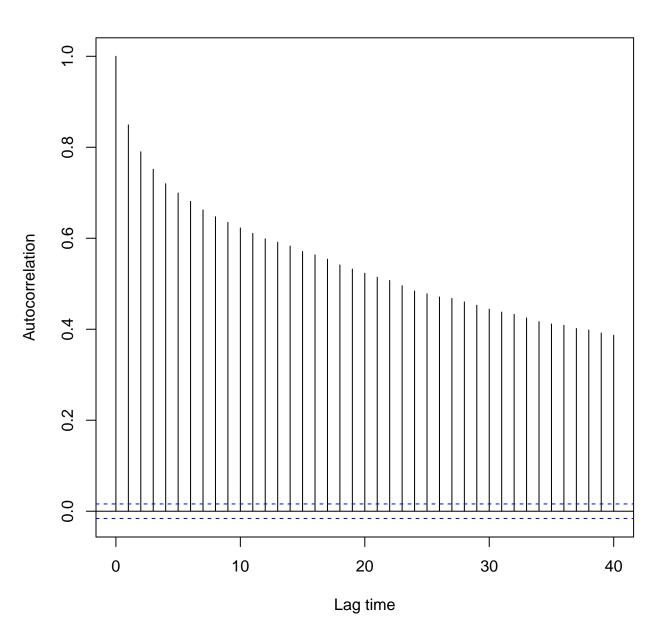
# **Mutation T ACG Mixture: 1**



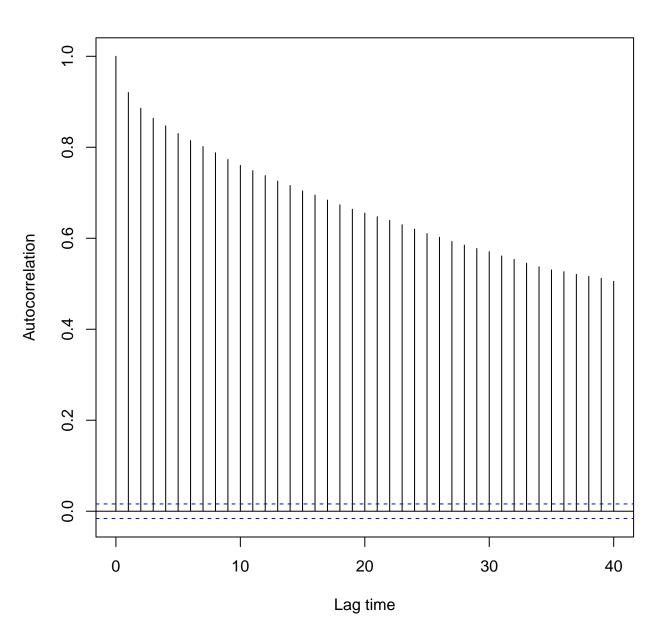
# **Mutation V GTA Mixture: 1**



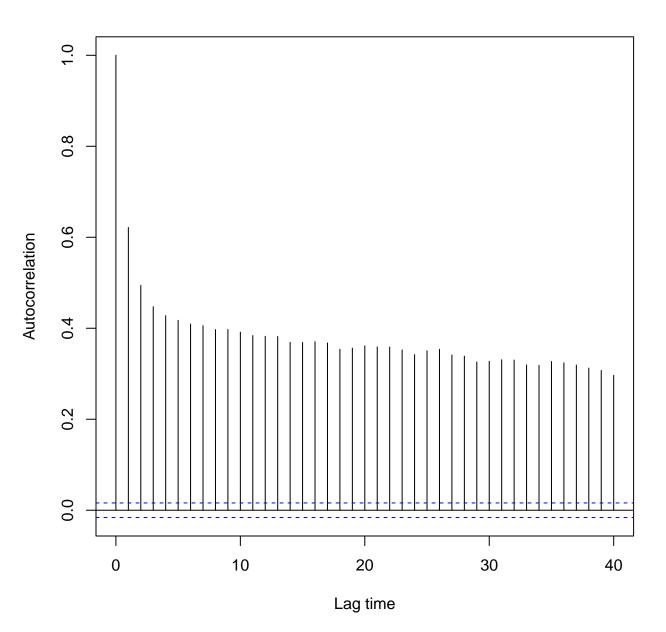
# **Mutation V GTC Mixture: 1**



# **Mutation V GTG Mixture: 1**



# **Mutation Y TAC Mixture: 1**



# **Mutation Z AGC Mixture: 1**

