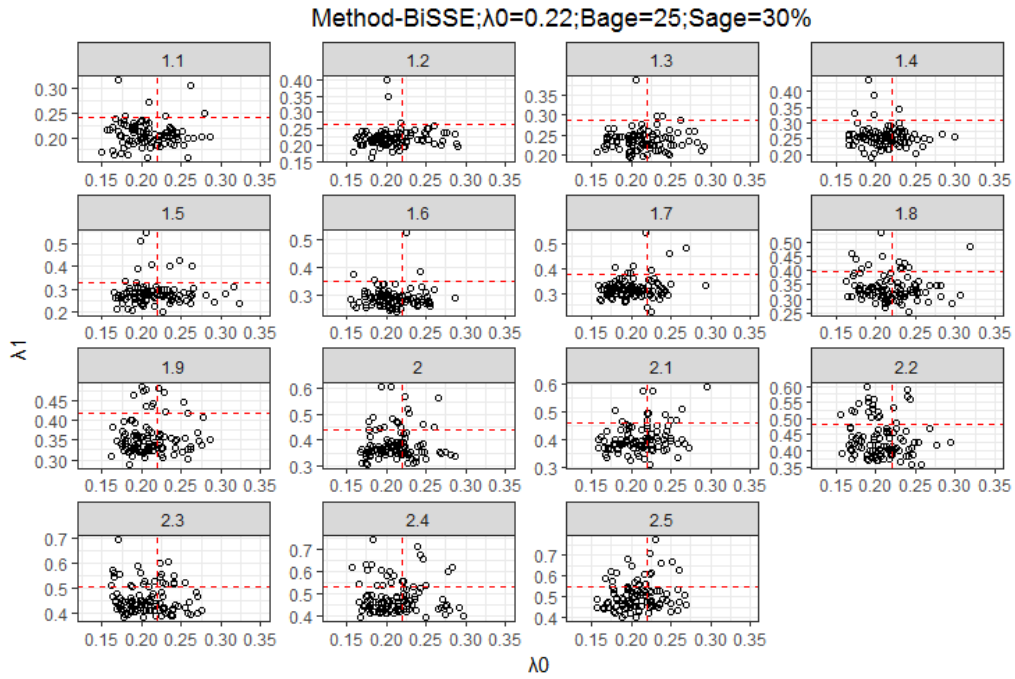


**Figure S2A:** BiSSE- $\lambda_0=0.22$ ;  $B_{age}=25$ ;  $S_{age}=20\%$



**Figure S2B:** BiSSE- $\lambda_0=0.22$ ;  $B_{age}=25$ ;  $S_{age}=30\%$

Method-BiSSE; $\lambda_0=0.22$ ;  $B_{age}=25$ ;  $S_{age}=40\%$

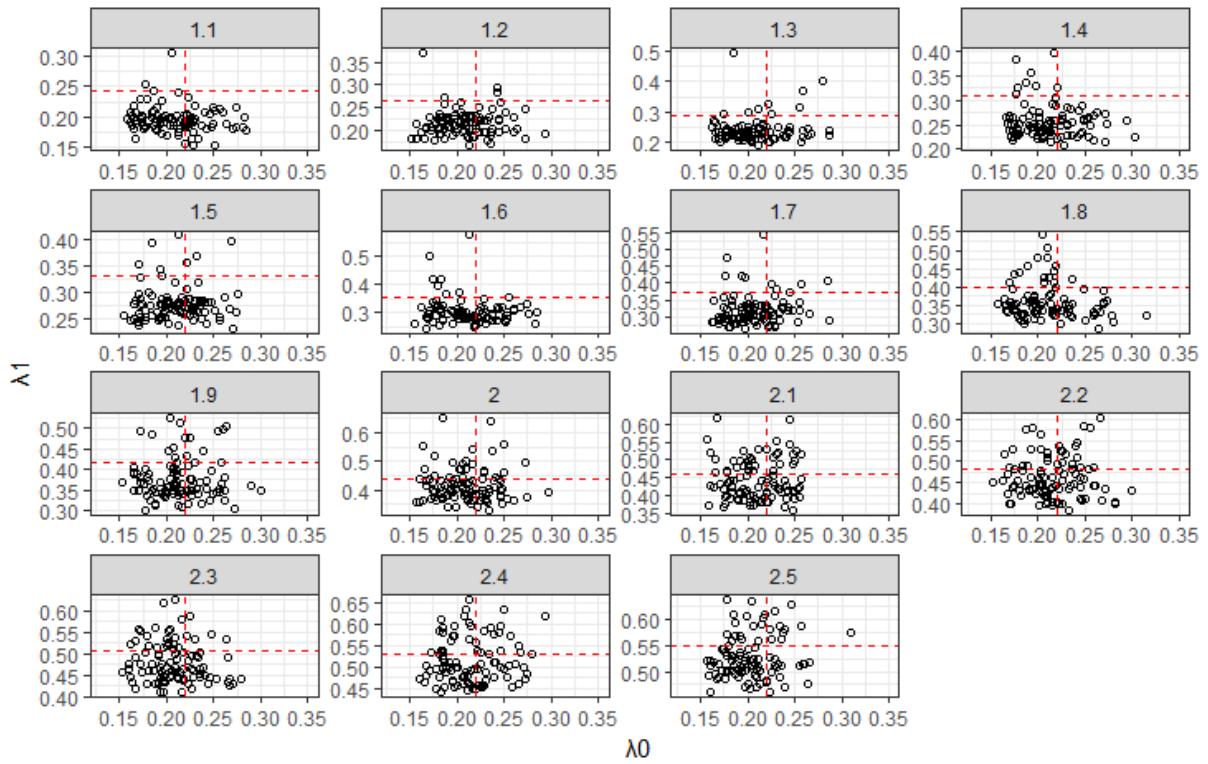


Figure S2C: BiSSE- $\lambda_0=0.22$ ;  $B_{age}=25$ ;  $S_{age}=40\%$

Method-BiSSE; $\lambda_0=0.22$ ;  $B_{age}=25$ ;  $S_{age}=50\%$

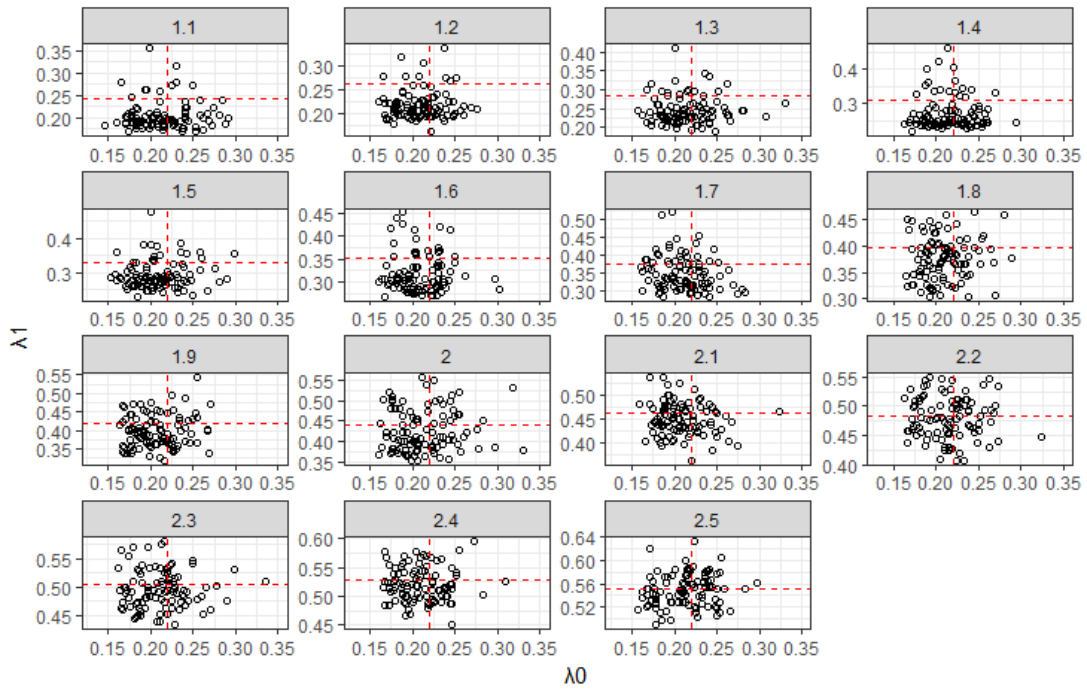
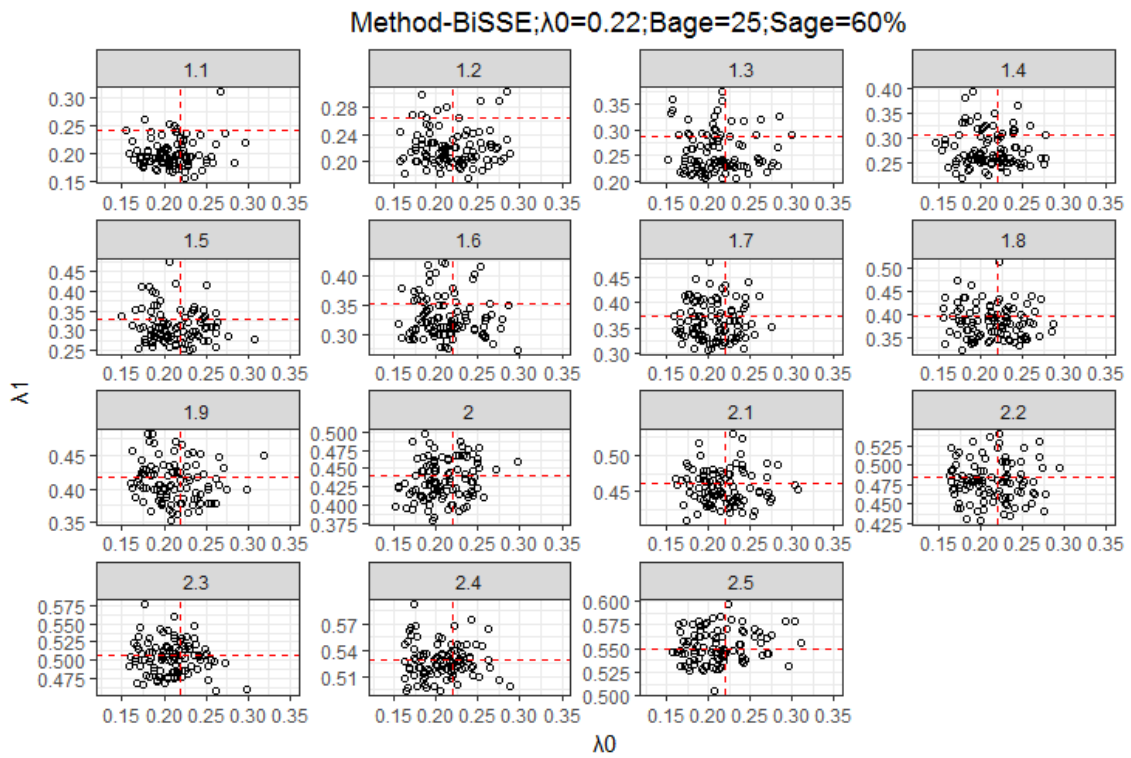
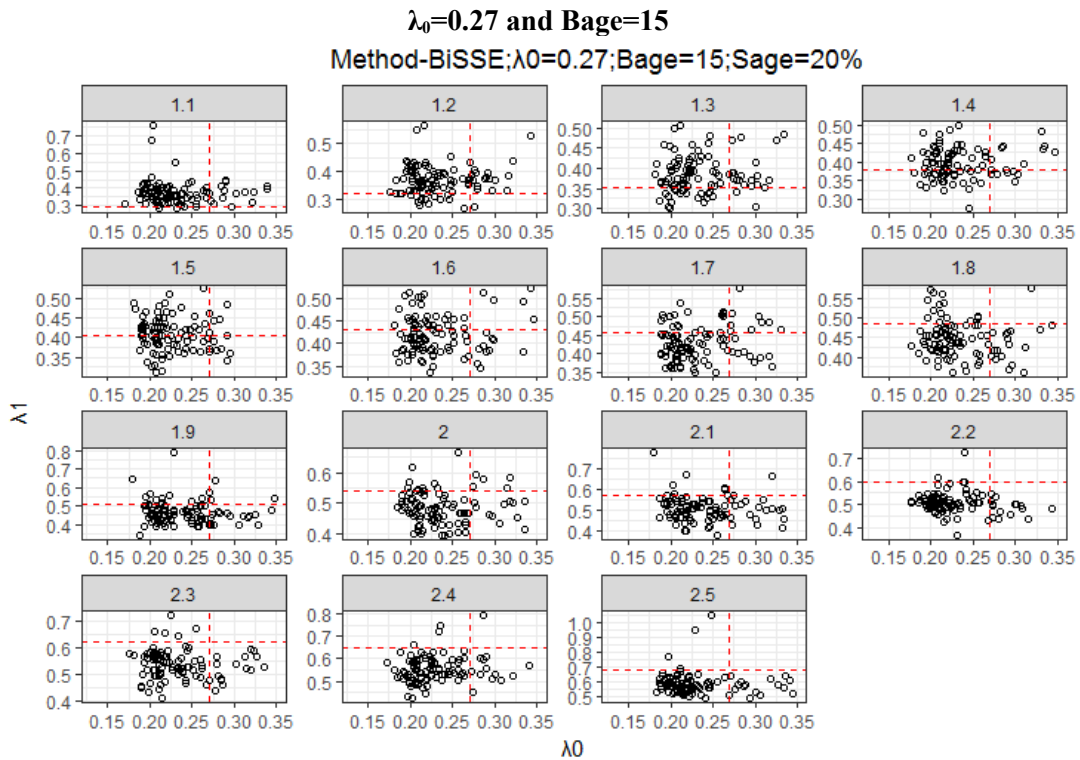


Figure S2D: BiSSE- $\lambda_0=0.22$ ;  $B_{age}=25$ ;  $S_{age}=50\%$



**Figure S2E: BiSSE- $\lambda_0=0.22$ ;  $B_{age}=25$ ;  $S_{age}=60\%$**



**Figure S2F: BiSSE- $\lambda_0=0.27$ ;  $B_{age}=15$ ;  $S_{age}=20\%$**

Method-BiSSE;  $\lambda_0=0.27$ ;  $B_{age}=15$ ;  $S_{age}=30\%$

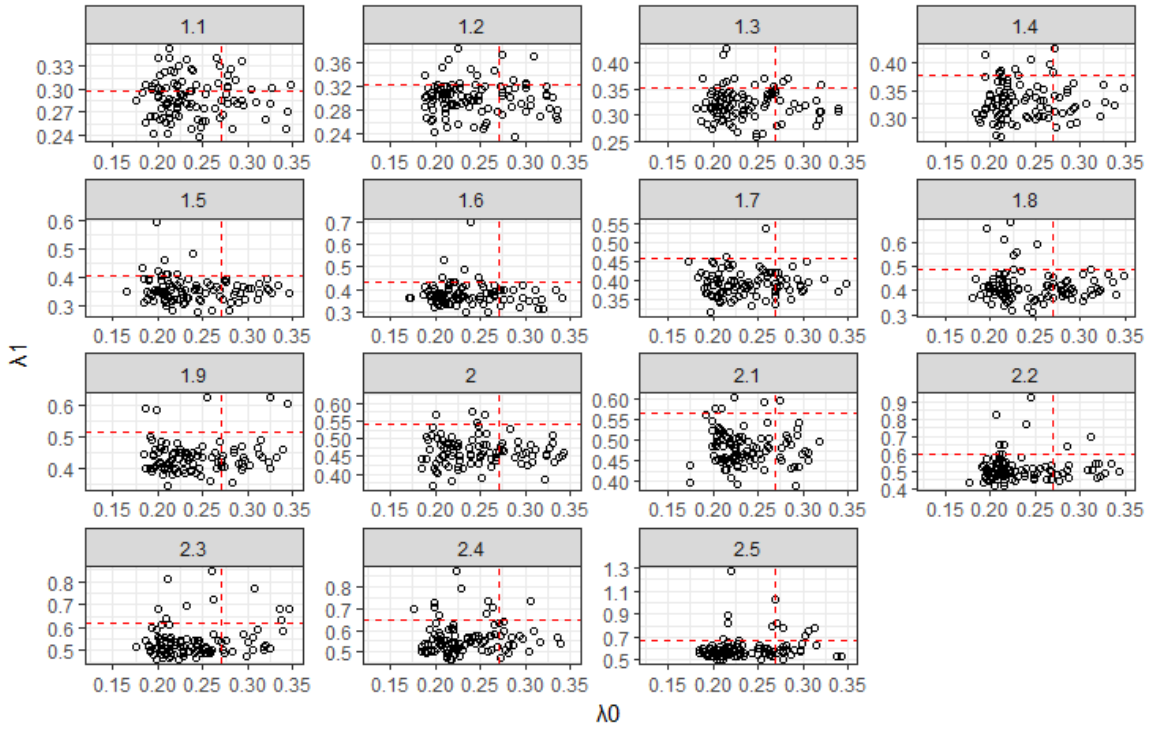


Figure S2G: BiSSE- $\lambda_0=0.27$ ;  $B_{age}=15$ ;  $S_{age}=30\%$

Method-BiSSE;  $\lambda_0=0.27$ ;  $B_{age}=15$ ;  $S_{age}=40\%$

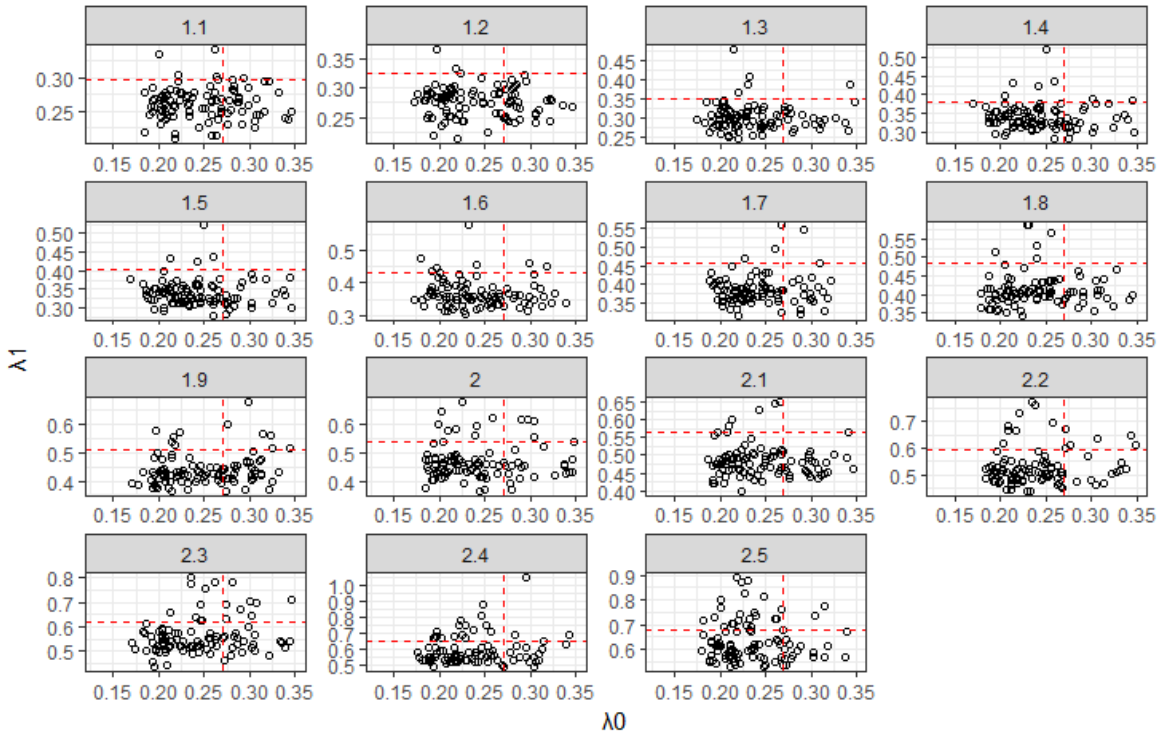


Figure S2H: BiSSE- $\lambda_0=0.27$ ;  $B_{age}=15$ ;  $S_{age}=40\%$

Method-BiSSE; $\lambda_0=0.27$ ;B<sub>age</sub>=15;S<sub>age</sub>=50%

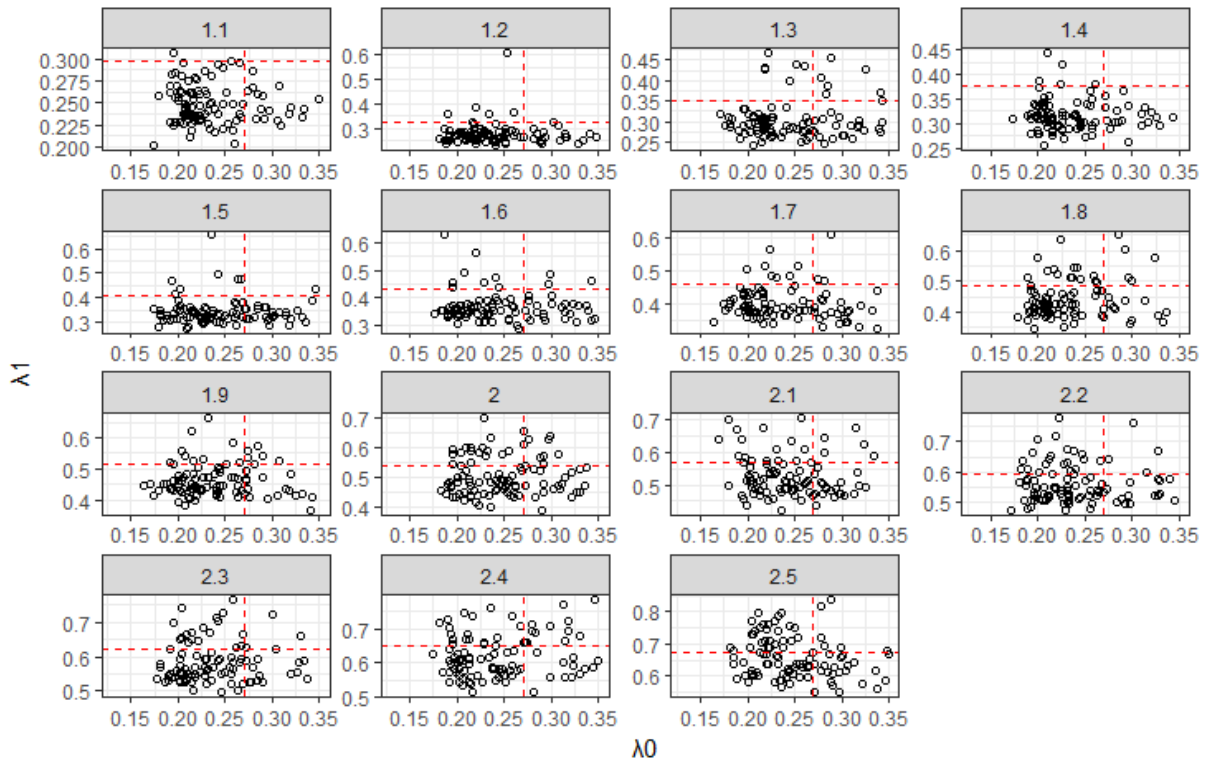


Figure S2I: BiSSE- $\lambda_0=0.27$ ; B<sub>age</sub>=15; S<sub>age</sub>=50%

Method-BiSSE; $\lambda_0=0.27$ ;B<sub>age</sub>=15;S<sub>age</sub>=60%

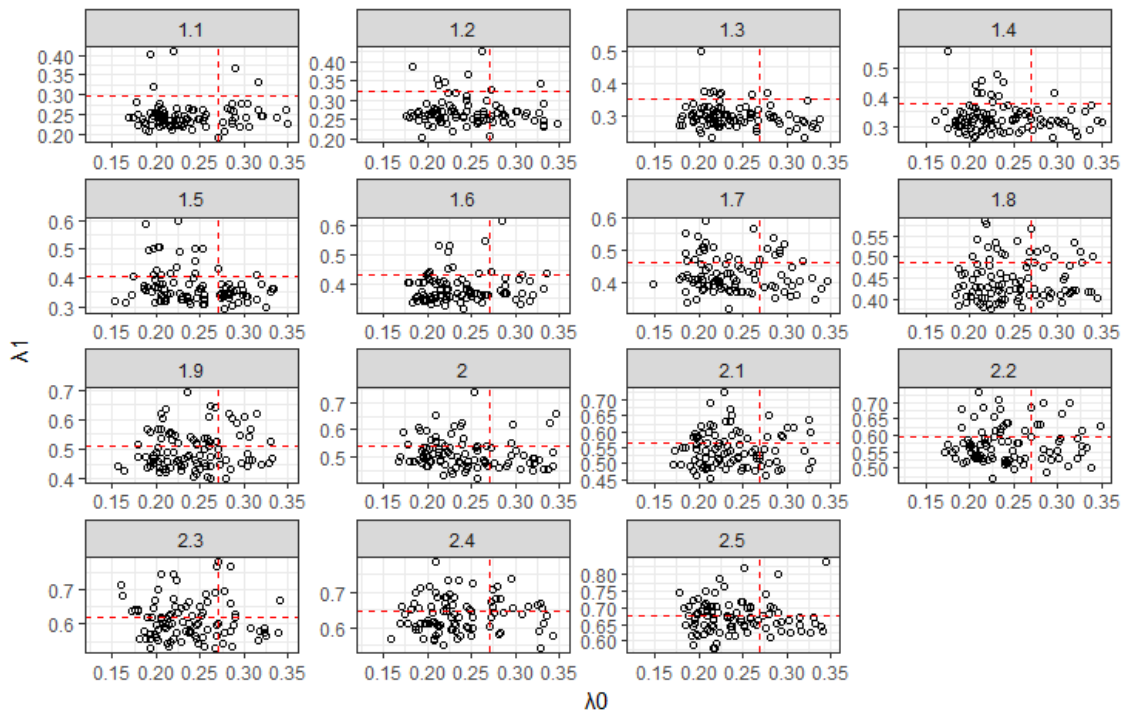
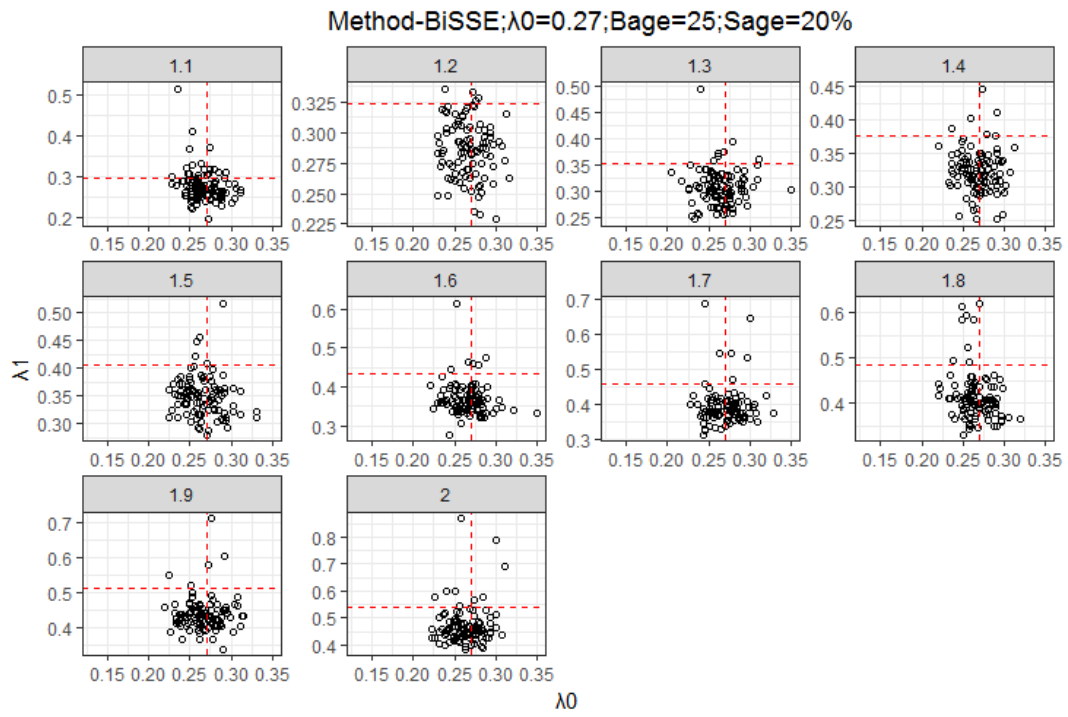
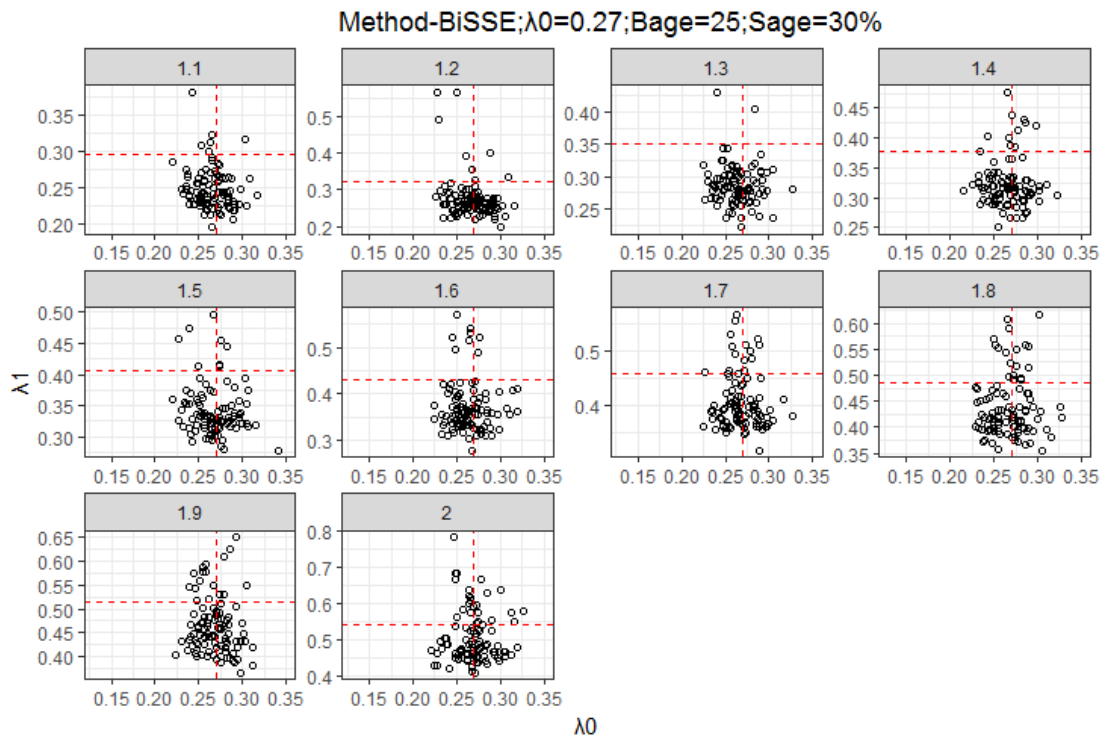


Figure S2J: BiSSE- $\lambda_0=0.27$ ; B<sub>age</sub>=15; S<sub>age</sub>=60%  
 $\lambda_0=0.27$  and B<sub>age</sub>=25





**Figure S2K:** BiSSE- $\lambda_0=0.27$ ;  $B_{age}=25$ ;  $S_{age}=20\%$



**Figure S2L:** BiSSE- $\lambda_0=0.27$ ;  $B_{age}=25$ ;  $S_{age}=30\%$

Method-BiSSE; $\lambda_0=0.27$ ;  $B_{age}=25$ ;  $S_{age}=40\%$

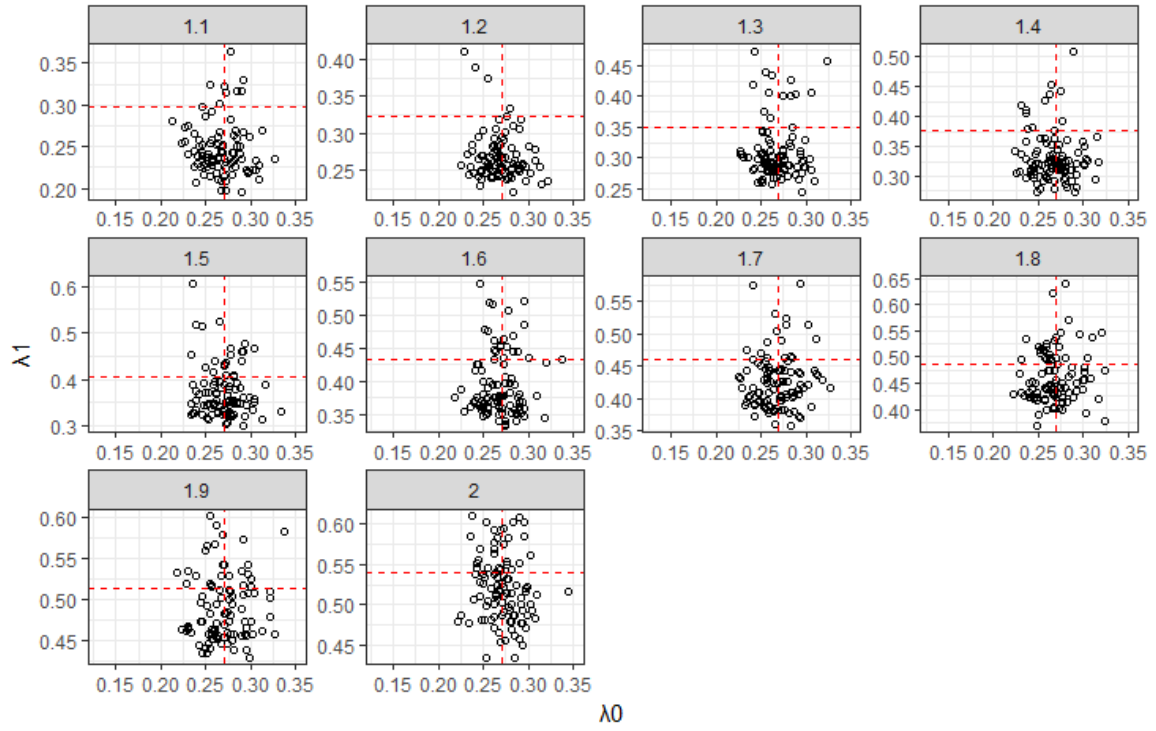


Figure S2M: BiSSE- $\lambda_0=0.27$ ;  $B_{age}=25$ ;  $S_{age}=40\%$

Method-BiSSE; $\lambda_0=0.27$ ;  $B_{age}=25$ ;  $S_{age}=50\%$

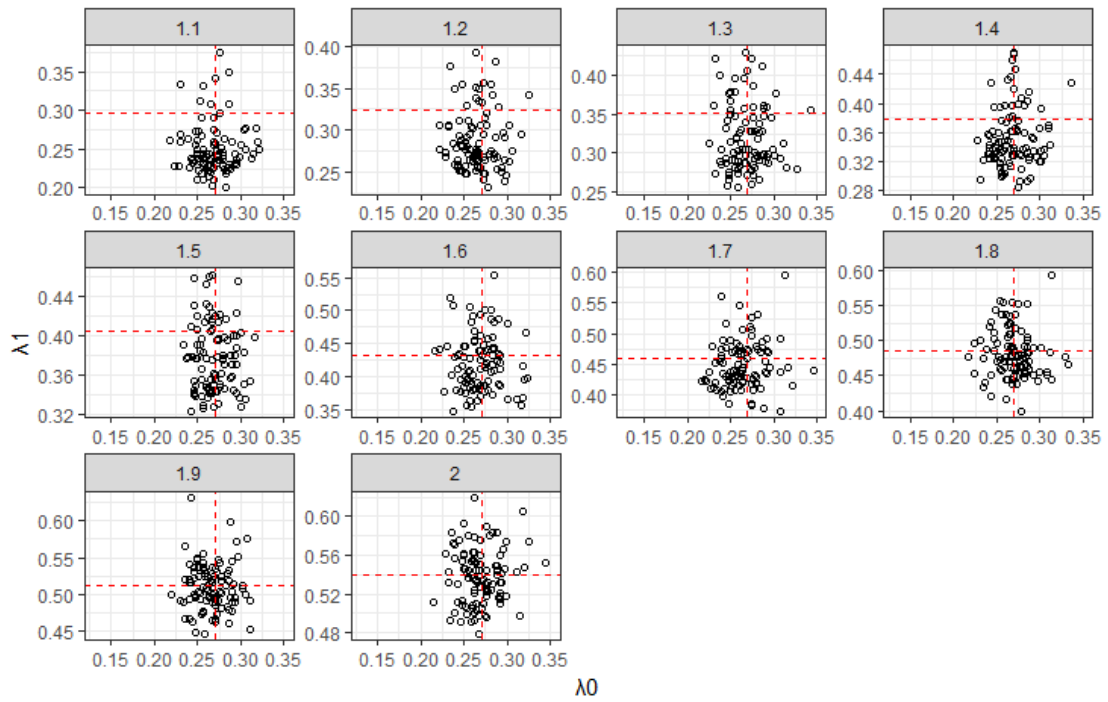


Figure S2N: BiSSE- $\lambda_0=0.27$ ;  $B_{age}=25$ ;  $S_{age}=50\%$

Method-BiSSE;  $\lambda_0=0.27$ ;  $B_{age}=25$ ;  $S_{age}=60\%$

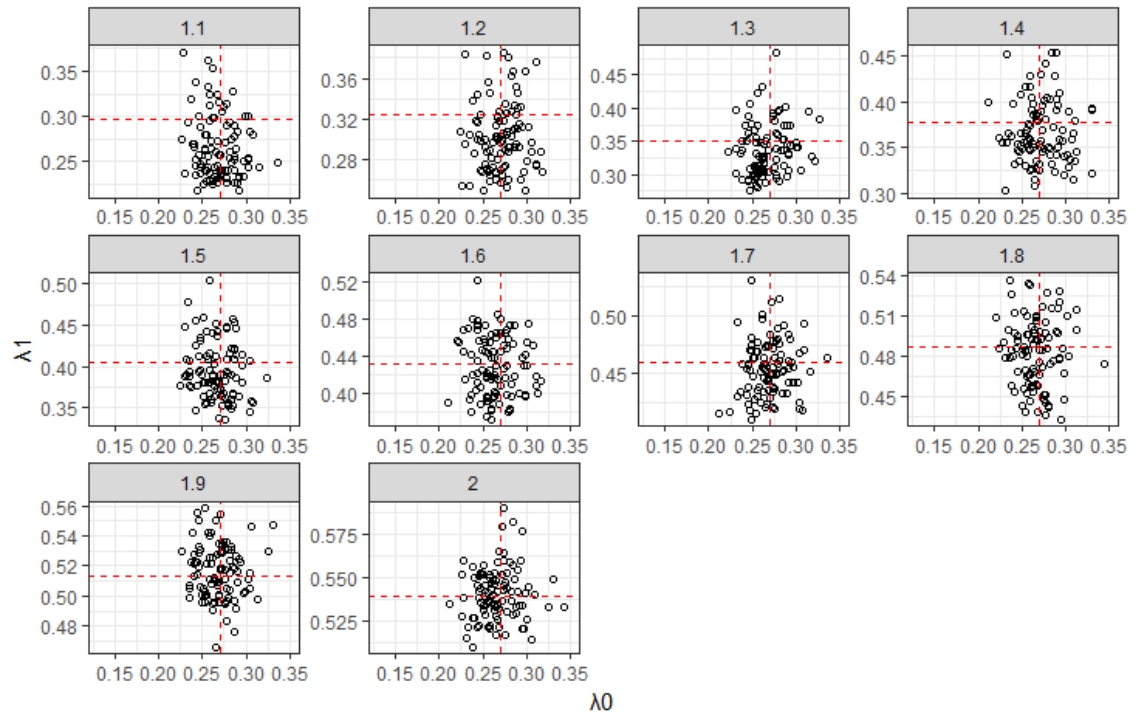


Figure S2O: BiSSE- $\lambda_0=0.27$ ;  $B_{age}=25$ ;  $S_{age}=60\%$