

**JOINT FILING AGREEMENT**

Additional Reporting Person (a): Merck Serono SA  
 Address: Zone Industrielle  
 1267 Coinsins, Switzerland

Additional Reporting Person (b): Merck KGaA  
 Address: Frankfurter Str. 250  
 64293 Darmstadt, Germany

Designated Filer: Ares Trading SA  
 Issuer and CUSIP: Intrexon Corporation (46122T102)  
 Dated: January 7, 2019

**ARES TRADING SA**

By: /s/ Cédric Hyde  
 Name: Cédric Hyde  
 Title: CFO

**MERCK SERONO SA, COINSINS, SWITZERLAND, AN  
AFFILIATE OF MERCK KGAA, DARMSTADT, GERMANY**

By: /s/ Cédric Hyde  
 Name: Cédric Hyde  
 Title: CFO

**MERCK KGAA, DARMSTADT, GERMANY**

By: /s/ Rando Bruns  
 Name: Rando Bruns  
 Title: Head of Treasury

**ARES TRADING SA**

By: /s/ Luigia Bocola  
 Name: Luigia Bocola  
 Title: Finance Manager

**MERCK SERONO SA, COINSINS, SWITZERLAND, AN  
AFFILIATE OF MERCK KGAA, DARMSTADT, GERMANY**

By: /s/ Tearaboth Te  
 Name: Tearaboth Te  
 Title: Treasury Director

**MERCK KGAA, DARMSTADT, GERMANY**

By: /s/ Tim Nielsen  
 Name: Tim Nielsen  
 Title: Head of Capital Markets