Table S10. Parameters describing the disease progress plotted against the maturation progress according to the sigmoidal equation type y= 100 / (1 + e-((x-x0)/b)). Independent variable: DOY. b= slope factor of the curve, x0= inflection point of the curve, R2= coefficient of determination, *P*= significance.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year** | **Treatment** | **b** | **x0** | **R2** | ***P*-value** |
| **2013** | **SMPH ST 1** | 0.7 | 14.7 | 0.9855 | 0.0073 |
| **SMPH ST 2** | 0.7 | 14.6 | 0.9849 | 0.0076 |
| **SMPH ST 3** | 0.8 | 15.2 | 0.9897 | 0.0052 |
| **SMPH ST 4** | 0.6 | 15.1 | 0.9902 | 0.0049 |
| **VSP** | 2.0 | 18.6 | 0.9372 | 0.0319 |
| **SMPH MT 1** | 1.9 | 22.9 | 0.9661 | 0.0171 |
| **SMPH MT 2** | 1.7 | 24.3 | 0.9938 | 0.0031 |
| **2014** | **SMPH ST 1** | 3.6 | 27.5 | 0.9871 | 0.0006 |
| **SMPH ST 2** | 3.5 | 26.5 | 0.9590 | 0.0036 |
| **SMPH ST 3** | 4.0 | 29.6 | 0.9865 | 0.0007 |
| **SMPH ST 4** | 3.7 | 29.2 | 0.9411 | 0.0062 |
| **VSP** | 5.2 | 26.4 | 0.9545 | 0.0042 |
| **SMPH MT 1** | 8.0 | 48.5 | 0.6596 | 0.0949 |
| **SMPH MT 2** | 11.8 | 58.5 | 0.8226 | 0.0336 |
| **2015** | **SMPH ST 1** | 2.1 | 21.7 | 0.9890 | 0.0005 |
| **SMPH ST 2** | 0.4 | 15.6 | 0.9503 | 0.0048 |
| **SMPH ST 3** | 2.2 | 21.1 | 0.0941 | 0.0009 |
| **SMPH ST 4** | 1.2 | 18.1 | 0.9987 | <0.0001 |
| **VSP** | 1.8 | 18.8 | 0.9903 | 0.0004 |
| **SMPH MT 1** | 1.0 | 19.5 | 0.9991 | <0.0001 |
| **SMPH MT 2** | 1.1 | 21.1 | 0.9960 | <0.0001 |
| **2016** | **SMPH ST 1** | 1.6 | 25.4 | 0.9895 | 0.0005 |
| **SMPH ST 2** | 1.4 | 26.0 | 0.9019 | 0.0134 |
| **SMPH ST 3** | 0.6 | 23.1 | 0.9463 | 0.0054 |
| **SMPH ST 4** | 1.3 | 24.5 | 0.9776 | 0.0014 |
| **VSP** | 1.3 | 23.1 | 0.9964 | <0.0001 |
| **SMPH MT 1** | 5.3 | 39.4 | 0.8476 | 0.0265 |
| **SMPH MT 2** | 8.2 | 40.1 | 0.9302 | 0.0080 |
| **2017** | **SMPH ST 1** | 1.8 | 21.9 | 0.9710 | 0.0146 |
| **SMPH ST 2** | 3.6 | 26.8 | 0.8114 | 0.0992 |
| **SMPH ST 3** | 1.5 | 21.5 | 0.9708 | 0.0147 |
| **SMPH ST 4** | 1.3 | 20.3 | 0.9787 | 0.0107 |
| **VSP** | 0.7 | 20.7 | 0.9562 | 0.0221 |
| **SMPH MT 1** | 2.4 | 25.7 | 0.9708 | 0.0147 |
| **SMPH MT 2** | 3.0 | 27.5 | 0.9608 | 0.0198 |
| **2018** | **SMPH ST 1** | 2.0 | 28.9 | 0.8546 | 0.0246 |
| **SMPH ST 2** | 2.4 | 29.2 | 0.7595 | 0.0542 |
| **SMPH ST 3** | 2.6 | 33.0 | 0.7891 | 0.0440 |
| **SMPH ST 4** | 3.0 | 35.6 | 0.8864 | 0.0169 |
| **VSP** | 2.1 | 27.1 | 0.9203 | 0.0098 |
| **SMPH MT 1** | 1.3 | 30.0 | 0.7261 | 0.0667 |
| **SMPH MT 2** | 3.0 | 44.3 | 0.8291 | 0.0317 |