**Supplementary Information**

This document contains the diagnostic plots and tables of parameter values for the SLD time-series analysis conducted using the model described in the main paper.

**Erlotinib – Forwards Alignment**



Figure S1. Panel A shows the observed SLD values against the individual fitted. Panel B shows the individual standardised residuals over time.

Table S1. Provides estimated mean and standard deviation (S.D.) values together with approximate 95% confidence intervals for the parameter distributions of the model described in the main paper. Estimate of the within group standard error (S.E.) of the residuals with 95% CI is also provided.

|  |  |  |  |
| --- | --- | --- | --- |
| log(A) | log(B) | log(C) | Residual |
| Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | S.E.(95% C.I.) |
| 2.79(2.72, 2.85) | 0.62 (0.57, 0.67)  | -5.04(-5.22, -4.85) | 1.09 (0.94, 1.26) | -5.60 (-5.72,-5.48) | 0.89(0.80, 0.97) | 2.35(2.22, 2.49) |

**Erlotinib – Reverse Alignment**



Figure S2. Panel A shows the observed SLD values against the individual fitted. Panel B shows the individual standardised residuals over time.

Table S2. Provides estimated mean and standard deviation (S.D.) values together with approximate 95% confidence intervals for the parameter distributions of the model described in the main paper. Estimate of the within group standard error (S.E.) of the residuals with 95% CI is also provided.

|  |  |  |  |
| --- | --- | --- | --- |
| log(A) | log(B) | log(C) | Residual |
| Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | S.E.(95% C.I.) |
| 2.80 (2.72, 2.87) | 0.71 (0.66, 0.77) | -4.83(-4.94, -4.72) | 0.50 (0.42, 0.60) | -5.74 (-5.87, -5.61) | 0.91 (0.83, 1.00) | 2.75 (2.56, 2.95) |

**Docetaxel – Forwards Alignment**



Figure S3. Panel A shows the observed SLD values against the individual fitted. Panel B shows the individual standardised residuals over time.

Table S3. Provides estimated mean and standard deviation (S.D.) values together with approximate 95% confidence intervals for the parameter distributions of the model described in the main paper. Estimate of the within group standard error (S.E.) of the residuals with 95% CI is also provided.

|  |  |  |  |
| --- | --- | --- | --- |
| log(A) | log(B) | log(C) | Residual |
| Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | S.D.(95% C.I.) |
| 2.09(2.03, 2.15) | 0.59(0.55, 0.64) | -5.27(-5.38, -5.16) | 0.59 (0.50, 0.69) | -5.97 (-6.07, -5.86) | 0.80 (0.72, 0.89) | 1.06(1.00, 1.11) |

**Docetaxel – Reverse Alignment**



Figure S4. Panel A shows the observed SLD values against the individual fitted. Panel B shows the individual standardised residuals over time.

Table S4. Provides estimated mean and standard deviation (S.D.) values together with approximate 95% confidence intervals for the parameter distributions of the model described in the main paper. Estimate of the within group standard error (S.E.) of the residuals with 95% CI is also provided.

|  |  |  |  |
| --- | --- | --- | --- |
| log(A) | log(B) | log(C) | Residual |
| Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | S.D.(95% C.I.) |
| 2.04 (1.98, 2.11) | 0.67 (0.62, 0.72) | -5.17(-5.26, -5.08) | 0.47 (0.40, 0.56) | -5.95 (-6.04, -5.87) | 0.55 (0.50, 0.61) | 1.06 (1.02, 1.12) |

**Paclitaxel/Carboplatin – Forwards Alignment**



Figure S5. Panel A shows the observed SLD values against the individual fitted. Panel B shows the individual standardised residuals over time.

Table S5. Provides estimated mean and standard deviation (S.D.) values together with approximate 95% confidence intervals for the parameter distributions of the model described in the main paper. Estimate of the within group standard error (S.E.) of the residuals with 95% CI is also provided.

|  |  |  |  |
| --- | --- | --- | --- |
| log(A) | log(B) | log(C) | Residual |
| Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | S.D.(95% C.I.) |
| 2.40 (2.34, 2.47) | 0.68(0.63, 0.73) | -4.51 (-4.61, -4.42) | 0.85 (0.78, 0.93) | -6.27 (-6.36, -6.18) | 0.76 (0.69, 0.84) | 1.21 (1.16, 1.26) |

**Paclitaxel/Carboplatin – Reverse Alignment**



Figure S6. Panel A shows the observed SLD values against the individual fitted. Panel B shows the individual standardised residuals over time.

Table S6. Provides estimated mean and standard deviation (S.D.) values together with approximate 95% confidence intervals for the parameter distributions of the model described in the main paper. Estimate of the within group standard error (S.E.) of the residuals with 95% CI is also provided.

|  |  |  |  |
| --- | --- | --- | --- |
| log(A) | log(B) | log(C) | Residual |
| Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | Mean(95% C.I.) | S.D.(95% C.I.) | S.D.(95% C.I.) |
| 1.94(1.86, 2.02) | 0.79 (0.73, 0.86) | -4.65 (-4.76,-4.54) | 0.51(0.40, 0.65) | -5.33 (-5.41, -5.26) | 0.67 (0.62, 0.73) | 2.07 (1.99, 2.16) |