Table S3. Association of hematologic and non-hematologic toxicities with GST and ABCB1 gene polymorphisms in 112 women with ovarian carcinoma

| Polymorphisms | Anemia | Leukopenia | Neutropenia | Thrombocytopenia | Neurotoxicity |
|---------------|--------|------------|-------------|-----------------|--------------|
|               | G0-G2  | G3-G4      | G0-G2       | G3-G4           | G0-G1        | G2-G3        |
|               | n (%)  | n (%)      | n (%)       | n (%)           | n (%)        | n (%)        |
| **GSTM1***    |        |            |             |                 |              |              |
| Null          | 41 (89.1) | 5 (10.9)  | 0.79        | 39 (84.8)       | 15 (32.6)    | 0.98         | 29 (63.0)    | 17 (37.0)    | 0.24 |
| Present       | 56 (87.5) | 8 (12.5)   |             | 49 (76.6)       | 15 (23.4)    | 0.29         | 43 (67.2)    | 21 (32.8)    |      |
| **GSTT1***    |        |            |             |                 |              |              |
| Null          | 25 (83.3) | 5 (16.7)   | 0.33        | 23 (76.7)       | 7 (23.3)     | 0.59         | 20 (66.7)    | 10 (33.3)    | 0.93 |
| Present       | 72 (90.0) | 8 (10.0)   |             | 65 (81.3)       | 15 (18.8)    |             | 54 (67.5)    | 26 (32.5)    |      |
| **GSTPI c.313A>G** |        |            |             |                 |              |              |
| AA            | 39 (79.6) | 10 (20.4)  | 0.04        | 39 (79.6)       | 10 (20.4)    |             | 26 (53.1)    | 23 (46.9)    |      |
| AG            | 42 (95.5) | 2 (4.5)    |             | 37 (84.1)       | 15 (15.9)    | 0.62         | 33 (75.0)    | 11 (25.0)    |     <0.01 |
| GG            | 18 (96.7) | 1 (5.3)    |             | 14 (73.7)       | 5 (26.3)     |             | 17 (89.5)    | 2 (10.5)     |      |
| Dominant      |         |            |             |                 |              |              |
| AA            | 60 (95.2) | 3 (4.8)    |             | 51 (81.0)       | 12 (19.0)    | 1            | 50 (79.4)    | 10 (20.6)    |     <0.01 |
| AG+GG         | 39 (79.6) | 10 (20.4)  |             | 39 (79.6)       | 10 (20.4)    |             | 26 (53.1)    | 23 (46.9)    | 37 (75.5)    | 12 (24.5) |
| Recessive     |         |            |             |                 |              |              |
| AA+AG         | 81 (87.1) | 12 (12.9)  | 0.46        | 76 (81.7)       | 17 (18.3)    | 0.52         | 59 (63.4)    | 34 (36.6)    |     0.03 |
| GG            | 18 (94.7) | 1 (5.3)    |             | 14 (73.7)       | 5 (26.3)     |             | 17 (89.5)    | 2 (10.5)     |      |
| **ABCB1 c.1236 C>T** |        |            |             |                 |              |              |
| CC            | 36 (94.7) | 2 (5.3)    |             | 30 (89.9)       | 8 (21.1)     |             | 26 (68.4)    | 12 (31.6)    | 28 (73.7)    | 10 (26.3) |
| CT            | 50 (87.7) | 7 (12.3)   | 0.14        | 45 (78.9)       | 12 (21.1)    | 0.67         | 43 (75.4)    | 14 (24.6)    |     0.03 |
| TT            | 13 (76.5) | 4 (23.5)   |             | 15(88.2)        | 2 (11.8)     |             | 7 (41.2)     | 10 (58.8)    |      8 (47.1) | 9 (52.9) |
| Dominant      |         |            |             |                 |              |              |
| CC            | 63 (85.1) | 11 (14.9)  | 0.21        | 60 (81.1)       | 14 (18.9)    | 0.80         | 50 (67.6)    | 24 (32.4)    | 1        49 (66.2) | 25 (33.8) |
| CT+TT         | 36 (94.7) | 2 (5.3)    |             | 30 (78.9)       | 8 (21.1)     |             | 26 (60.4)    | 12 (31.6)    | 28 (73.7)    | 10 (26.3) |
| Recessive     |         |            |             |                 |              |              |
| CC+CT         | 86 (90.5) | 9 (9.5)    | 0.11        | 75 (78.9)       | 20 (21.1)    | 0.51         | 69 (72.6)    | 26 (27.4)    |     0.01 |
| TT            | 13 (76.5) | 4 (23.5)   |             | 15 (88.2)       | 2 (11.8)     |             | 7 (41.2)     | 10 (58.8)    | 8 (47.1)     | 9 (52.9) |
| ABCB1 c.3435 C>T |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                | CC    | CT    | TT    | Dominant | CC    | CT    | TT    | Recessive | CC    | CT    | TT    | Dominant |
|                | 35 (94.6) | 52 (86.7) | 12 (80.0) | 64 (85.3) | 64 (85.3) | 35 (94.6) | 87 (89.7) | 87 (89.7) | 12 (80.0) | 12 (80.0) |       |
|                | 2 (5.4)  | 8 (13.3) | 3 (20.0) | 11 (14.7) | 11 (14.7) | 2 (5.4)  | 10 (10.3) | 10 (10.3) | 3 (20.0)  | 3 (20.0)  |       |
|                | 36 (97.3) | 52 (86.7) | 13 (86.7) | 65 (86.7) | 65 (86.7) | 36 (97.3) | 88 (90.7) | 88 (90.7) | 13 (86.7) | 13 (86.7) |       |
|                | 1 (2.7)  | 8 (13.3) | 2 (13.3) | 10 (13.3) | 10 (13.3) | 1 (2.7)  | 9 (9.3)  | 9 (9.3)  | 2 (13.3) | 2 (13.3) |       |
|                | 0.21    | 0.09   | 0.64   | 0.21    | 0.21    | 0.09    | 0.64   | 0.64   | 0.64    | 0.64    |       |
|                | 30 (81.1) | 47 (78.3) | 13 (86.7) | 30 (81.1) | 30 (81.1) | 30 (81.1) | 77 (79.4) | 77 (79.4) | 13 (86.7) | 13 (86.7) |       |
|                | 7 (18.9) | 13 (21.7) | 2 (13.3) | 7 (18.9) | 7 (18.9) | 7 (18.9) | 20 (20.6) | 20 (20.6) | 2 (13.3) | 2 (13.3) |       |
|                | 0.76    | 0.09   | 0.73   | 0.76    | 0.76    | 0.76    | 0.73   | 0.73   | 0.73    | 0.73    |       |
|                | 27 (73.0) | 42 (70.0) | 7 (46.7) | 49 (65.3) | 49 (65.3) | 49 (65.3) | 69 (71.1) | 69 (71.1) | 7 (46.7) | 7 (46.7) |       |
|                | 10 (27.0) | 18 (30.0) | 8 (53.3) | 26 (34.7) | 26 (34.7) | 26 (34.7) | 28 (32.1) | 28 (32.1) | 8 (53.3) | 8 (53.3) |       |
|                | 0.16    | 0.09   | 0.07   | 0.52    | 0.52    | 0.52    | 0.07   | 0.07   | 0.07    | 0.07    |       |
|                | 29 (78.4) | 42 (37.5) | 6 (40.0) | 48 (64.0) | 48 (64.0) | 48 (64.0) | 71 (73.2) | 71 (73.2) | 6 (40.0) | 6 (40.0) |       |
|                | 8 (21.6)  | 18 (30.0) | 9 (60.0) | 27 (36.0) | 27 (36.0) | 27 (36.0) | 26 (26.8) | 26 (26.8) | 9 (60.0) | 9 (60.0) |       |

| ABCB1 c.2677 G>T/A |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   | GG    | GT/GA | TT/TA/AA | Dominant | GG    | GT/GA | TT/TA/AA | Recessive | GG    | GT/GA | TT/TA/AA | Dominant |
|                   | 39 (97.5) | 46 (83.6) | 14 (82.4) | 60 (83.3) | 60 (83.3) | 39 (97.5) | 46 (83.6) | 39 (97.5) | 46 (83.6) | 14 (82.4) | 60 (83.3) |
|                   | 1 (2.5)  | 9 (16.4) | 3 (17.6) | 12 (16.7) | 12 (16.7) | 1 (2.5)  | 9 (16.4) | 1 (2.5)  | 9 (16.4) | 3 (17.6) | 12 (16.7) |
|                   | 38 (95.0) | 48 (87.3) | 15 (88.2) | 63 (87.5) | 63 (87.5) | 38 (95.0) | 48 (87.3) | 38 (95.0) | 48 (87.3) | 15 (88.2) | 63 (87.5) |
|                   | 2 (5.0)  | 7 (12.7) | 2 (11.8) | 9 (12.5) | 9 (12.5) | 2 (5.0)  | 7 (12.7) | 2 (5.0)  | 7 (12.7) | 2 (11.8) | 9 (12.5) |
|                   | 33 (82.5) | 43 (78.2) | 14 (82.4) | 57 (79.2) | 57 (79.2) | 33 (82.5) | 43 (78.2) | 33 (82.5) | 43 (78.2) | 14 (82.4) | 57 (79.2) |
|                   | 7 (17.5) | 12 (21.8) | 3 (17.6) | 15 (20.8) | 15 (20.8) | 7 (17.5) | 12 (21.8) | 7 (17.5) | 12 (21.8) | 3 (17.6) | 15 (20.8) |
|                   | 0.44    | 0.85   | 0.43   | 0.81   | 0.81   | 0.44    | 0.85   | 0.43   | 0.81   | 0.43    | 0.81    |
|                   | 28 (70.0) | 39 (70.9) | 9 (52.9) | 48 (66.7) | 48 (66.7) | 28 (70.0) | 39 (70.9) | 9 (52.9) | 48 (66.7) | 9 (52.9) | 48 (66.7) |
|                   | 12 (30.0) | 16 (29.1) | 8 (47.1) | 24 (33.3) | 24 (33.3) | 12 (30.0) | 16 (29.1) | 8 (47.1) | 24 (33.3) | 8 (47.1) | 24 (33.3) |
|                   | 0.36    | 0.36   | 0.36   | 0.83   | 0.83   | 0.36    | 0.36   | 0.36   | 0.83   | 0.36    | 0.83    |
|                   | 30 (75.0) | 37 (67.3) | 10 (58.8) | 47 (65.3) | 47 (65.3) | 30 (75.0) | 37 (67.3) | 10 (58.8) | 47 (65.3) | 10 (58.8) | 47 (65.3) |
|                   | 10 (25.0) | 18 (32.7) | 7 (41.2) | 25 (34.7) | 25 (34.7) | 10 (25.0) | 18 (32.7) | 7 (41.2) | 25 (34.7) | 7 (41.2) | 25 (34.7) |

| (G0-G4): grade; *The number of women evaluated (n = 110) differs from the total (n = 112), due to an insufficient amount of DNA to perform the genotyping by the multiplex polymerase chain reaction (PCR) method; (n): number of patients; (G0-G4): grade; statistically significant differences are in bold, p values were calculated using the Chi square/Fisher exact test. |
