| Patient | Gender | Age | Axl | IGFBP-1 | PD-L1 | PGE2 | Tumor load |
|---------|--------|-----|-----|---------|-------|-------|------------|
| 1       | male   | 36  | 406.2 | 295.6 | 8.8   | 161.6 | high       |
| 2       | male   | 34  | 516.3 | 726.8 | 10.2  | 63.9  | high       |
| 3       | male   | 32  | 304.9 | 169.1 | 11.2  | 92.4  | high       |
| 4       | male   | 23  | 532.9 | 231.6 | 10.9  | 167.0 | high       |
| 5       | female | 39  | 363.3 | 818.6 | 8.2   | 34.7  | high       |
| 6       | male   | 20  | 393.7 | 261.4 | 12.9  | 139.6 | high       |
| 7       | male   | 48  | 392.7 | 479.6 | 13.2  | 249.7 | high       |
| 8       | female | 22  | 549.4 | 818.6 | 18.1  | 81.9  | high       |
| 9       | male   | 24  | 587.5 | 402.6 | 4.3   | 133.0 | high       |
| 10      | male   | 70  | 425.1 | 704.0 | 20.2  | 105.1 | high       |
| 11      | male   | 19  | 530.1 | 255.0 | 8.7   | 149.9 | high       |
| 12      | female | 32  | 367.8 | 588.1 | 2.9   | 233.8 | high       |
| 13      | male   | 23  | 415.3 | 59.3  | 6.8   | 75.5  | high       |
| 14      | female | 32  | 396.4 | 343.2 | 7.0   | 413.2 | high       |
| 15      | female | 41  | 508.6 | 267.6 | 6.9   | 74.9  | high       |
| 16      | male   | 45  | 319.1 | 255.1 | 7.2   | 155.1 | high       |
| 17      | female | 23  | 440.6 | 103.2 | 6.0   | 96.3  | high       |
| 18      | female | 19  | 408.6 | 314.5 | 8.5   | 522.6 | high       |
| 19      | male   | 29  | 306.1 | 10.7  | 6.8   | 73.3  | high       |
| 20      | female | 21  | 235.9 | 109.5 | 3.5   | 83.8  | high       |
| 21      | male   | 20  | 442.9 | 649.6 | 10.5  | 162.0 | high       |
| 22      | male   | 24  | 330.4 | 751.3 | 8.2   | 167.7 | high       |
| 23      | female | 50  | 399.1 | 818.6 | 11.7  | 47.1  | high       |
| 24      | male   | 17  | 321.6 | 249.2 | 11.6  | 50.4  | high       |
| 25      | female | 51  | 280.1 | 139.7 | 6.8   | 17.6  | high       |
| 26      | female | 22  | 251.5 | 669.5 | 9.3   | 142.1 | high       |
| 27      | male   | 20  | 492.3 | 527.3 | 0.0   | 251.3 | high       |
| 28      | male   | 47  | 354.2 | 430.3 | 9.3   | 84.5  | high       |
| 29      | male   | 21  | 434.4 | 93.7  | 9.1   | 211.1 | high       |
| 30      | male   | 17  | 307.3 | 112.5 | 8.8   | 69.9  | high       |
| 31      | male   | 27  | 344.8 | 818.6 | 6.7   | 244.4 | high       |
| 32      | male   | 22  | 421.7 | 256.1 | 7.5   | 160.3 | high       |
| 33      | male   | 33  | 369.7 | 360.7 | 7.8   | 34.6  | medium     |
| 34      | male   | 31  | 251.2 | 165.6 | 6.8   | 72.3  | medium     |
| 35      | female | 33  | 332.2 | 232.3 | 13.5  | 420.6 | medium     |
| 36      | female | 31  | 313.2 | 413.9 | 6.1   | 288.4 | medium     |
| 37      | male   | 64  | 268.3 | 357.9 | 8.9   | 143.6 | medium     |
| 38      | male   | 18  | 204.4 | 2.9   | 5.5   | 84.5  | medium     |
| 39      | male   | 31  | 327.0 | 30.4  | 8.4   | 866.7 | medium     |
| 40      | female | 59  | 381.0 | 117.4 | 8.5   | 54.4  | medium     |
| 41      | female | 33  | 301.9 | 152.9 | 5.4   | 163.3 | medium     |
| 42      | female | 54  | 517.6 | 388.2 | 12.2  | 190.5 | medium     |
| 43      | male   | 27  | 319.1 | 510.9 | 2.7   | 282.8 | medium     |
| 44      | male   | 19  | 539.2 | 818.6 | 11.2  | 126.7 | medium     |
| 45      | male   | 23  | 353.3 | 368.1 | 8.9   | 963.9 | medium     |
| 46      | male   | 33  | 237.6 | 135.6 | 7.9   | 152.5 | medium     |
| 47      | male   | 42  | 589.8 | 187.4 | 8.0   | 118.7 | medium     |
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 48 | male | 41 | 281.6 | 217.0 | 3.9 | 589.4 | medium |
| 49 | female | 25 | 176.5 | 818.6 | 9.2 | 366.2 | medium |
| 50 | male | 44 | 317.0 | 163.9 | 13.7 | 196.4 | medium |
| 51 | male | 35 | 447.8 | 66.2 | 5.3 | 61.3 | medium |
| 52 | female | 48 | 217.9 | 791.6 | 6.0 | 142.2 | medium |
| 53 | female | 40 | 204.5 | 317.3 | 2.9 | 228.1 | medium |
| 54 | male | 52 | 341.2 | 103.7 | 15.4 | 89.1 | medium |
| 55 | female | 21 | 331.9 | 93.6 | 6.9 | 339.6 | medium |
| 56 | female | 40 | 210.4 | 324.3 | 7.7 | 74.9 | medium |
| 57 | male | 34 | 439.5 | 42.8 | 11.1 | 270.7 | no |
| 58 | female | 30 | 286.3 | 89.0 | 10.3 | 248.1 | no |
| 59 | male | 37 | 290.3 | 277.4 | 10.5 | 135.3 | no |
| 60 | male | 56 | 203.4 | 494.0 | 7.5 | 441.6 | no |
| 61 | female | 58 | 249.6 | 417.6 | 9.3 | 283.9 | no |
| 62 | female | 39 | 189.5 | 82.4 | 4.4 | 131.8 | no |
| 63 | female | 44 | 354.5 | 356.7 | 13.8 | 448.5 | no |
| 64 | female | 31 | 222.3 | 123.2 | 5.1 | 349.1 | no |
| 65 | male | 40 | 382.0 | 110.8 | 8.3 | 41.1 | no |
| 66 | male | 33 | 466.5 | 724.8 | 2.8 | 343.1 | no |
| 67 | male | 25 | 519.1 | 584.6 | 11.3 | 169.3 | no |
| 68 | male | 28 | 282.5 | 818.6 | 6.4 | 253.6 | no |
| 69 | female | 61 | 491.0 | 99.9 | 7.2 | 88.6 | no |
| 70 | female | 48 | 189.1 | 818.6 | 7.2 | 73.2 | no |
| 71 | female | 51 | 265.5 | 49.4 | 9.8 | 305.7 | no |
| 72 | male | 58 | 359.3 | 40.6 | 6.9 | 22.7 | no |
| 73 | female | 39 | 324.9 | 569.5 | 4.3 | 323.0 | no |
| 74 | female | 40 | 217.5 | 92.4 | 5.2 | 579.3 | no |
| 75 | male | 44 | 294.8 | 31.9 | 5.5 | 169.2 | no |
| 76 | male | 50 | 262.5 | 594.0 | 6.4 | 67.1 | no |
| 77 | female | 36 | 307.1 | 703.0 | 11.6 | 345.2 | no |
| 78 | female | 66 | 176.9 | 218.6 | 4.1 | 66.0 | no |
| 79 | female | 25 | 167.9 | 562.4 | 9.3 | 437.0 | no |
| 80 | female | 45 | 320.8 | 657.4 | 6.8 | 26.9 | no |
| 81 | female | 35 | 290.5 | 235.7 | 9.2 | 122.6 | no |
| 82 | female | 42 | 316.8 | 818.6 | 9.8 | 389.1 | no |
| 83 | male | 25 | 285.6 | 382.2 | 8.1 | 236.6 | no |
| 84 | female | 55 | 277.3 | 731.3 | 7.1 | 158.8 | no |
| 85 | female | 24 | 295.8 | 160.6 | 10.0 | 220.8 | no |
| 86 | female | 52 | 324.7 | 692.0 | 7.6 | 141.3 | no |
| 87 | female | 55 | 437.1 | 492.1 | 10.8 | 60.5 | no |
| 88 | female | 26 | 386.8 | 545.9 | 9.1 | 416.2 | no |
| 89 | female | 26 | 235.6 | 225.6 | 17.0 | 152.4 | no |
| 90 | female | 41 | 244.2 | 402.5 | 13.2 | 248.2 | no |
| 91 | female | 50 | 214.0 | 332.9 | 21.8 | 65.0 | no |
| 92 | female | 41 | 175.1 | 747.0 | 14.0 | 141.1 | no |
| 93 | male | 48 | 328.8 | 220.6 | 11.5 | 67.7 | no |
| 94 | male | 27 | 400.4 | 210.1 | 18.9 | 174.3 | no |
| 95 | female | 60 | 289.5 | 333.1 | 14.6 | 83.6 | no |
|    | Gender | Age | Serum concentration in pg/ml | Tumor Volume |
|----|--------|-----|-------------------------------|--------------|
| 96 | female | 53  | 296.4                        | 528.6        | 19.5 | 98.9 |  no |
| 97 | female | 47  | 148.4                        | 98.1         | 10.6 | 76.2 |  no |
| 98 | female | 46  | 175.8                        | 416.2        | 13.5 | 34.7 |  no |
| 99 | female | 40  | 288.4                        | 354.3        | 8.3  | 31.7 |  no |
|100 | female | 57  | 195.5                        | 147.1        | 17.5 | 114.8 | no |
|101 | male   | 47  | 346.1                        | 577.6        | 19.1 | 149.1 | mpnst |
|102 | male   | 29  | 257.1                        | 619.4        | 18.7 | 94.9 |  mpnst |
|103 | male   | 24  | 216.9                        | 136.9        | 15.7 | 227.5 | mpnst |
|104 | female | 47  | 88.2                         | 753.7        | 9.5  | 26.4 |  mpnst |
|105 | female | 47  | 467.4                        | 806.9        | 21.3 | 119.3 | mpnst |
|106 | female | 22  | 294.3                        | 299.3        | 17.1 | 47.5 |  mpnst |
|107 | male   | 31  | 189.8                        | 152.4        | 17.3 | 213.5 | mpnst |
|108 | male   | 38  | 238.2                        | 721.9        | 12.3 | 95.3 |  mpnst |
|109 | male   | 47  | 311.4                        | 595.5        | 13.3 | 178.4 | mpnst |
|110 | female | 41  | 188.9                        | 161.5        | 13.3 | 297.6 | mpnst |
|111 | female | 55  | 133.7                        | 806.9        | 8.5  | 142.0 | mpnst |
|112 | female | 50  | 217.5                        | 8.7          | 9.8  | 556.6 | mpnst |
|113 | female | 55  | 299.9                        | 193.8        | 13.9 | 64.8 |  mpnst |
|114 | female | 25  | 324.5                        | 167.7        | 11.5 | 301.9 | mpnst |
|115 | male   | 45  | 255.3                        | 806.9        | 17.9 | 242.7 | mpnst |
|116 | male   | 43  | 241.7                        | 108.2        | 14.1 | 34.2 |  mpnst |
|117 | male   | 68  | 319.5                        | 806.9        | 15.4 | 75.0 |  mpnst |
|118 | female | 50  | 247.1                        | 84.3         | 13.8 | 99.1 |  mpnst |
|119 | male   | 36  | 296.9                        | 133.2        | 15.3 | 282.7 | mpnst |
|120 | female | 34  | 108.8                        | 228.2        | 16.7 | 26.6 |  mpnst |
|121 | male   | 29  | 181.4                        | 281.0        | 11.4 | 102.3 | mpnst |
|122 | male   | 49  | 75.5                         | 796.6        | 10.0 | 41.7 |  mpnst |
|123 | female | 47  | 466.7                        | 806.9        | 25.4 | 32.3 |  mpnst |
|124 | female | 34  | 270.7                        | 143.6        | 13.0 | 140.9 | mpnst |
|125 | female | 32  | 226.9                        | 806.9        | 14.0 | 131.3 | mpnst |

*Serum concentration in pg/ml*

*Tumor Volume*
- no: <10 ml
- medium: 50 - 300 ml
- high: > 500 ml

**Supplement Table 1:** Raw data of the cohort of 125 NF1 patients.