**Table supplement 1. Clinical parameters of donor specimens analyzed by CyTOF**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Donor ID | Age (years) | Race | Cycle Day | Diagnosis | Cycle Phase | Progesterone (ng/ml) | Source |
| 1 | 22 | AA | 36 | PCOS | Secretory | 5.12 | NMCP |
| 2 | 30 | C | 10 | PCOS  | Proliferative | N/A | NMCP |
| 3 | 33 | C | 25 | No uterine pathology | Secretory | 6.82 | NMCP |
| 4 | 25 | C | 83 | PCOS  | Secretory | 3.89 | NMCP |
| 5 | 36 | C | 24 | Irregularcycles | Intervalendometrium | N/A | NMCP |
| 6 | 47 | AA | 15 | Irregularcycles | Prolierative | N/A | NMCP |
| 7 | 39 | C | 321 | Hirsutism, Amenorrhea | Secretory | 8.29 | NMCP |
| 8 | 50 | N/A | 15 | Endometriosis, Adenomysis, Leiomyoma | Secretory | 5.4366 | UCSF |
| 9 | 37 | C | 17 | Endometriosis, Adenomysis | Secretory | 6.9495 | UCSF |
| 10 | 29 | C | 15 | Endometriosis, Leiomyoma | N/A | 6.56 | UCSF |
| 11 | 28 | C | N/A | Infertility, Irregular cycles, PCOS | Proliferative | N/A | NMCP |
| 12 | 34 | C | 5 | Infertility, Irregular cycles  | Proliferative | 1.31 | NMCP |
| 13 | 31 | H | 1 | Irregular cycles | Proliferative | 2.36 | NMCP |

N/A: Not available