**Supplementary Table 1.** **Ovarian cancer cell line origin, *in vivo* growth and classifications.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Cell line** | **OvCa Histotype** | **Specimen site** | **Growth *in vivo* in mice** | **Commercial availability** | **References** |
| FU-OV-1 | HGSOC a, d, e | Ovary tumor tissue | Unknown | DSMZ | Emoto et al. (1999)^ |
| JHOS-2 | HGSOC a, d, e | Ovary tumor tissue | Unknown | RIKEN BRC | Yamada et al. (1999)^ |
| JHOS-4 | HGSOC a, d, e | Metastatic site: Peritoneum | Unknown | RIKEN BRC | Unpublished data, originated by Ishikawa H and Yasuda M. |
| OV167 | HGSOC e | Primary tumor | Unknown | No | Conover et al. (1998)^ |
| PEO6 | HGSOC e | Ascites | Unknown | ECACC | Langdon et al. (1988)^ |
| SNU-119 | HGSOC a, d | Ascites | No: SC or IP | KCLB | Yuan et al. (1997)^, Mitra et al. (2015)# |
| SNU-8 | HGSOC a, d | Ascites | Unknown | KCLB | Yuan et al. (1997)^ |
| EFO-27 \* | EnOC a, d | Omentum; solid omental metastasis | Unknown | DSMZ | Simon et al. (1983)^; Kunzmann and Hölzel (1987)^ |
| OVK18 | EnOC a, d, e | Ascites | Yes: SC and IP, forms ascites | RIKEN BRC | Uehara et al. (1984)^; De Haven Brandon et al. (2020)# |
| JHOC-5 | OCCC a, b, d | Pelvis | Yes: SC and IP, forms ascites | RIKEN BRC | Yamada et al. (1999)^; De Haven Brandon et al. (2020)# |
| OV207 | OCCC e | Primary tumor | Unknown | No | Conover et al. (1998)^ |
| OVHS1 | OCCC | Unspecified | Yes: SC | No | Ohta et al. (1998)^; Shafren et al. (2005) |
| RMG-II | OCCC b | Ascites | Yes: SC | JCRB | Nozawa et al. (1991)^; Sasano et al. (2015)# |
| VOA1312\_CL | LGSOC | Ascites | Unknown | No | Anglesio et al. (2013)^ |
| VOA1056\_CL | LGSOC | Primary tumor | Unknown | No | Anglesio et al. (2013)^ |
| CAISMOV24 | LGSOC | Ascites | Unknown | No | da Silva et al. (2017)^ |
| COV644 | MOC c, d | Primary tumor | Unknown | ECACC | van den Berg-Bakker et al. (1993)^ |
| HTOG | GCT | Granulosa-theca cell tumor | Unknown | No | Ishiwata et al. (1984)^ |
| BIN67 | SCCOHT | Solid primary tumor | Yes: IP | No | Gamwell et al. (2013)^, # |
| SCCOHT1 | SCCOHT | Solid primary tumor | Yes: SC | No | Otte et al. (2012)^, # |

Note: Cell lines identified with <50 publications *via* PUBMED on 10/12/2021.

OvCa (Ovarian Cancer), JCRB (Japanese Cancer Research Resources Bank), KCLB (Korean Cell Line Bank), ECACC (European Collection of Authenticated Cell Cultures), RIKEN BRC (RIKEN BioResource Center Cell Bank), DSMZ (Leibniz Institute, German Collection of Microorganisms and Cell Cultures)

SC (subcutaneous), IP (intraperitoneal), IB (intrabursal) \* originally classified HGSOC

Recent classification of histotypes: a. Domcke et al. (2013), b. Anglesio et al. (2013), c. Beauford et al. (2015), d. Barnes et al. (2021), e. Papp et al. (2018)

^ original subtype reference, # *in vivo* tumor growth in mice reference

EnOC (Endometrioid Ovarian Cancer), OCCC (Ovarian Clear Cell Carcinoma), LGSOC (Low Grade Serous Ovarian Cancer), MOC (Mucinous Ovarian Cancer, HGSOC (High Grade Serous Ovarian Cancer), GCT (Granulosa Cell Tumor), SCCOHT (Small Cell Carcinoma of the Ovary, Hypercalcemic Type)

**Supplementary Table 2.** **Ovarian cancer cell lines with multiple histotype classifications.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Cell line** | **OvCa Histotype** | **Specimen site** | **Growth *in vivo* in mice** | **Commercial availability** | **References** |
| 59M | EnOC with clear cell component c (HGSOC a; LGSOC d) | Ascites | Unknown | ECACC | Wilson et al. (1996)^ |
| EFO-21 | HGSOC (possibly HGSOC a; OCCC c, d) | Ascites | Yes: SC | DSMZ | Simon et al. (1983)^; Huang et al. (2013)# |
| ES-2 | OCCC e (EnOC b,c; LGSOC d) | Tumor tissue | Yes: SC | ATCC | Lau et al. (1989)^; Kashiyama et al. (2014) # |
| HEY A8 | HGSOC e (unlikely HGSOC a,b; LGSOC d) | Peritoneal deposit; ascites | Yes: SC and IP, forms ascites | ATCC | Buick et al. (1985)^; Hernandez et al. (2016)# |
| IGROV1 | Mixed: EnOC, HGSOC, OCCC, undifferentiated components (hyper mutated a; OCCC d) | Tumor tissue | Yes: SC, IP | MERCK Millipore | Bénard et al. (1985)^; Hernandez et al. (2016)#; De Haven Brandon et al. (2020)# |
| JHOM-1 | MOC e (HGSOC a; LGSOC d) | NS | Unknown | RIKEN BRC | Unpublished data, originated by Ishikawa H and Yasuda M. |
| JHOM-2B | MOC d (HGSOC a) | NS | Unknown | RIKEN BRC | Unpublished data, originated by Ishikawa H and Yasuda M. |
| OAW42 | HGSOC e (unlikely HGSOC a; OCCC d) | Ascites | Unknown | ECACC | Wilson et al. (1996)^ |
| OV56 | HGSOC (unlikely HGSOC a; OCCC/EnOC c; LGSOC/OCCC d) | Ascites | Unknown | ECACC | Boocock et al. (1995)^ |
| OV-90 | HGSOC e (MOC d) | Ascites | Yes: IP, IB, No: SC | ATCC | Lounis et al. (1998)^; Hernandez et al. (2016)# |
| OVCAR-5\* | Unclassified e | Ascites | Yes: SC and IP | MERCK Millipore | Hamilton et al. (1984)^; Blayney et al. (2016)^; Hernandez et al. (2016)# |
| OVCAR-8 | HGSOC (possibly HGSOC a; HGSOC/EnOC b; LGSOC d) | NS | Yes: SC, IP and IB | No | Schilder et al. (1990); Hernandez et al. (2016)# |
| SK-OV-3 | HGSOC b (unlikely HGSOC a; OCCC/EnOC c; OCCC d) | Ascites | Yes: SC and IP, forms ascites | ATCC; ECACC | Buick et al. (1985) ^; Hernandez et al. (2016)#, De Haven Brandon et al. (2020)# |
| TYK-nu | HGSOC a (LGSOC d) | Ovary | Unknown | JCRB | Yoshiya (1986)^ |

Note: OvCa (Ovarian Cancer), Not specified (NS), ATCC (American Type Culture Collection), JCRB (Japanese Cancer Research Resources Bank), ECACC (European Collection of Authenticated Cell Cultures), RIKEN BRC (RIKEN BioResource Center Cell Bank), DSMZ (Leibniz Institute, German Collection of Microorganisms and Cell Cultures)

SC (subcutaneous), IP (intraperitoneal), IB (intrabursal), \* originally classified HGSOC

Recent classification of histotypes: a. Domcke et al. (2013), b. Anglesio et al. (2013), c. Beauford et al. (2015), d. Barnes et al. (2021), e. Papp et al. (2018)

^ original subtype reference, # *in vivo* tumor growth in mice reference

EnOC (Endometrioid Ovarian Cancer), OCCC (Ovarian Clear Cell Carcinoma), LGSOC (Low Grade Serous Ovarian Cancer), MOC (Mucinous Ovarian Cancer, HGSOC (High Grade Serous Ovarian Cancer).

**Supplementary Table 3.** **Immortalized cell lines of normal fallopian tube and ovarian origin.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Cell line** | **Cell type** | **Transformation method** | **References** |
| FT33-TAg cells | FTSEC | Fallopian tube transformed with Ras or MYC | Karst et al. (2011) |
| OSE(tsT) | OSE | Ovary transformed with temperature sensitive SV40 large T antigen | Kalli et al. (2004) |
| 1431-E6/E7 | OSE | Ovary transformed by overexpressing HPV-E6/E7 | Shin et al. (2018) |
| 1431-SV40 | OSE | Ovary transformed with SV40 T antigen | Shin et al. (2018) |
| 0160 SV40 | OSE | Ovary transformed with SV40 T antigen | Shin et al. (2018) |
| 8695 SV40 | OSE | Ovary transformed with SV40 T antigen | Shin et al. (2018) |
| 4138 SV40 | OSE | Ovary transformed with SV40 T antigen | Shin et al. (2018) |
| HGrC1 | NLGC | Transformed with Human papillomavirus type 16 (HPV16) protein 6/E7, cyclinD1, mutant CDK4 and hTERT | Bayasula et al. (2012) |
| HO-23 | LGC | Luteinized granulosa cells (LGC) transformed SV40 DNA, Ha-ras oncogene, and a temperature sensitive (ts) mutant of the tumor suppressor gene p53 (p53val135) | Hosokawa et al. (1998) |
| HGL5 | LGC | Luteinized granulosa cells (LGC) transformed with SV40 | Rainey et al. (1994) |
| GC1a | GC | Developing follicles transformed with SV40 | Okamura et al. (2003) |
| HGP53 | GC | Pre-ovulatory human granulosa cells transformed with mutated p53 (p53val135) and Ha-ras genes | Tajima et al. (2002) |

Note: FTSEC (fallopian tube secretory epithelial cells), OSE (ovarian surface epithelium), GC (granulosa cells), NLGC (non-luteinized granulosa cells), LGC (luteinized granulosa cells), SV40 (simian virus 40)

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