

Supplementary Table 1. List of human pleural mesothelioma cell lines with characterised histological and genetic background.

| Cell line | Origin | Histology/Morphology | Genetic alterations | Ref |
|------------|------------------------------------|--------------------------------------|--|---------|
| MM1 | tumour tissue/ pleural effusion | sarcomatoid | loss of <i>CDKN2A</i> (7/9); <i>BAP1</i> point mutation (4/9); <i>NF2</i> loss of function (7/9); kataegis (4/9); chromoplexy (8/9) | [49] |
| MM2 | tumour tissue | desmoplastic | | |
| MM3 | tumour tissue | epithelioid | | |
| MM4 | tumour tissue | biphasic | | |
| MM5 | tumour tissue | biphasic | | |
| MM7 | tumour tissue | epithelioid | | |
| MM8 | tumour tissue | epithelioid | | |
| MM9 | tumour tissue | sarcomatoid | | |
| MM10 | tumour tissue | epithelioid | | |
| MPM 1 | tumour tissue | epithelioid | | |
| MPM 2 | tumour tissue | epithelioid | NA | [60] |
| MPM 3 | tumour tissue | epithelioid | | |
| MPM 4 | tumour tissue | biphasic | | |
| MPM 5 | tumour tissue | biphasic | | |
| MPM 6 | tumour tissue | biphasic | | |
| MPM 7 | tumour tissue | sarcomatoid | | |
| MPM 8 | tumour tissue | sarcomatoid | | |
| MPM 9 | tumour tissue | sarcomatoid | | |
| MESO-3T | tumour tissue | epithelioid | | |
| MESO-7T | tumour tissue | biphasic | heterozygous loss of <i>NF2</i> (5/8), loss of p16 ^{INK4a} and p14 ^{ARF} (7/8), structural abnormalities in chr1, 2, 3, 6, 7 and 9 | [48] |
| MESO-8T | tumour tissue | epithelioid with sarcomatoid loci | | |
| MESO-9T | tumour tissue | epithelioid | | |
| MESO-12T | tumour tissue | epithelioid | | |
| MESO-14T | tumour tissue | epithelioid | | |
| MESO-17T | tumour tissue | epithelioid | | |
| MESO-27T | tumour tissue | epithelioid | | |
| MM04 | pleural biopsy | desmoplastic | chromosomal abnormalities ranging from 41 to 113; monosomy of chr8, 14, 22 (2/5) and 17 (3/5); deletion/translocation in chr1, 5, 6 (epithelioid type) and chr1, 9, 19 (biphasic type); rearrangement of chr1 (5/5) and chr6 (1/5) | [64] |
| MM05 | pleural biopsy | biphasic | | |
| MM12 | pleural biopsy | biphasic | | |
| MM13 | pleural biopsy | biphasic | | |
| MM1081 | pleural biopsy | epithelioid | | |
| PF1038 | pleural effusion | unclassified | | |
| HMM-1 | pleural effusion | NA | NA | [57] |
| HMM-3 | pleural effusion | NA | NA | |
| MPM1 | pleural effusion | sarcomatoid | hypotetraploid with a modal chr 79 | [55] |
| MPM2 | pleural effusion | epithelioid | hypodiploid with a modal chr 40 | |
| MPM3 | pleural effusion | biphasic | hyperdiploid with a modal chr 44 | |
| ACC-MESO-1 | tumour tissue | epithelioid | <i>NF2</i> mutation (1/4); p16 ^{INK4a} and p14 ^{ARF} homologous deletion (4/4) | [65,66] |
| ACC-MESO-4 | tumour tissue | epithelioid | | |

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|------------|------------------|------------------------------------|---|------|
| Y-MESO-8 | pleural effusion | biphasic | | |
| Y-MESO-9 | pleural effusion | NA | | |
| Y-MESO-12 | pleural effusion | NA | | |
| Y-MESO-14 | pleural effusion | NA | | |
| Y-MESO-21 | pleural effusion | NA | | |
| Y-MESO-22 | pleural effusion | NA | | |
| Y-MESO-25 | pleural effusion | NA | | |
| Y-MESO-26B | pleural effusion | NA | | |
| Y-MESO-27 | pleural effusion | NA | | |
| Y-MESO-28 | pleural effusion | NA | | |
| Y-MESO-29 | pleural effusion | NA | | |
| Y-MESO-30 | pleural effusion | NA | | |
| MM-Z03S | pleural effusion | sarcomatoid | both cell lines included chromosomal losses of 1q34~qter, 4, 9p, 10p, 13, 14, 16q, 18, and 22, as well as a complex structural aberration involving chr17. MMZ03E had gains of 3q11q27 and 5p, while MM-Z03S had gain of 9q and losses of 3q27qter, 11q, and 18 | [56] |
| MM-Z03E | | epithelioid | | |
| MES-BR 95 | pleural effusion | biphasic | NA | [67] |
| MES-CM 98 | pleural effusion | epithelioid | | |
| MES-CG 98 | pleural effusion | biphasic | | |
| MES-CE 96 | pleural effusion | biphasic | | |
| MES-GF 99 | pleural effusion | biphasic | | |
| MES-MM 98 | pleural effusion | sarcomatoid | | |
| MES-OC 99 | pleural effusion | sarcomatoid | | |
| MES-PP 89 | pleural effusion | sarcomatoid | | |
| JL1 | tumour biopsy | epithelioid | chromosomal deletions and translocations; chromosomal trisomies and monosomies | [68] |
| DM3 | tumour biopsy | sarcomatoid | | |
| PJ3 | pleural effusion | biphasic | | |
| HMMME | pleural effusion | spindle, round and polygonal shape | aneuploidy | [69] |
| IST-Mes1 | pleural effusion | epithelioid-like | monosomy of chr17 (4/4), chr13 (3/4), chr22 (2/4); deletion/translocation of chr6 (4/4), chr1 (3/4), chr1 (3/4) | [70] |
| IST-Mes2 | pleural effusion | epithelioid-like | | |
| IST-Mes3 | pleural effusion | spindle-shaped | | |
| MPP89 | pleural effusion | epithelioid-like | | |
| H2596 | tumour tissue | sarcomatoid | deletion, inversion and translocation affecting chr1, 3, 6, 9; chromosome numbers ranging from 34 to 90; abnormalities in number of chr3, 4, 5, 9, 11, 14, 15, 22 | [50] |
| H2591 | tumour tissue | epithelioid | | |
| H2461 | tumour tissue | epithelioid | | |
| HP-1 | pleural effusion | biphasic | | |
| HP-2 | pleural effusion | epithelioid | | |
| H2373 | tumour tissue | sarcomatoid | | |
| H2452 | tumour tissue | biphasic | | |
| HP-3 | pleural effusion | epithelioid | | |
| H2595 | tumour tissue | epithelioid | | |
| ZL5 | pleural effusion | biphasic | NA | [51] |
| ZL34 | tumour tissue | sarcomatoid | | |

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|----------|------------------|-----------------|--|----------|
| ZL55 | tumour tissue | epithelioid | | |
| ZL92 | pleural effusion | not determined | | |
| SPC78 | tumour tissue | sarcomatoid | | |
| SPC111 | pleural effusion | biphasic | | |
| SPC212 | tumour tissue | biphasic | | |
| JU77 | pleural effusion | spindle-shaped | deletion of long arm of chr6 (4/5); chromosome 1 rearrangements | [52] |
| LO68 | pleural effusion | spindle-shaped | | |
| ONE58 | pleural effusion | spindle-shaped | | |
| NO36 | pleural effusion | stellate-shaped | | |
| DeH136 | pleural effusion | pleomorphic | | |
| 1/M9K | metastasis | biphasic | deletion of long arm of chr5 (5/6); monosomy of chr9 (4/6), chr13 (3/6) and chr22 (2/6); rearrangement of chr1 (3/6) | [53] |
| 2/M10K | metastasis | biphasic | | |
| 3/M14K | tumour tissue | epithelioid | | |
| 3/M20 | pleural effusion | epithelioid | | |
| 3/M19 | pleural effusion | epithelioid | | |
| 4/M33K | tumour tissue | biphasic | | |
| 5/M38K | tumour tissue | biphasic | | |
| 6/M22K | tumour tissue | biphasic | | |
| 6/M19 | pleural effusion | biphasic | | |
| Mero-25 | pleura autopsy | biphasic | | |
| Mero-48a | pleura autopsy | biphasic | abnormalities in number of ch1, 3, 6, 9, 12 and 22; loss of chr4 | [54] |
| Mero-72 | pleura biopsy | biphasic | | |
| Mero-96 | pleura biopsy | sarcomatoid | | |
| Mero-14 | pleural effusion | NA | | |
| Mero-41 | pleural effusion | NA | | |
| Mero-64 | pleural effusion | NA | | |
| Mero-82 | pleural effusion | NA | | |
| Mero-83 | pleural effusion | NA | | |
| Mero-84 | pleural effusion | NA | | |
| Mero-95 | pleural effusion | NA | | |
| P31 | NA | Epithelioid | NA | |
| VMC6 | NA | Epithelioid | NA | [59][61] |
| VMC11 | NA | Biphasic | NA | |
| VMC12 | NA | Epithelioid | NA | |
| VMC14 | NA | Epithelioid | NA | |
| VMC20 | NA | Epithelioid | NA | |
| VMC23 | NA | Epithelioid | NA | |
| VMC28 | NA | Epithelioid | NA | |
| VMC31 | NA | Epithelioid | NA | |
| VMC33 | NA | Epithelioid | NA | |
| VMC40 | NA | Biphasic | NA | |
| Meso49 | NA | Epithelioid | NA | |
| Meso53 | NA | Biphasic | NA | |
| Meso62 | NA | Sarcomatoid | NA | |
| SPC111 | NA | Biphasic | NA | |
| SPC212 | NA | Biphasic | NA | |
| M38K | NA | Biphasic | NA | |
| MM288 | NA | Epithelioid | NA | [62] |

| | | | | |
|----------|--------|-------------|--|------|
| MM317 | NA | Epithelioid | NA | |
| MM404 | NA | Epithelioid | NA | |
| MM473 | NA | Epithelioid | NA | |
| MM487 | NA | Biphasic | NA | |
| MM491 | NA | Biphasic | NA | |
| MM432 | NA | Sarcomatoid | NA | |
| MM472 | NA | Sarcomatoid | NA | |
| H-MESO-1 | Tumour | Epithelioid | Pseudotriploid with 68 chromosomes including multiple abnormalities (monosomy, translocations, deletion, trisomy, and tetrasomy) | [63] |