CCSG-Characterized Cell Line Core

CCLC database is a comprehensive databases of short tandem repeat (STR) profiles, The database includes profiles from 20 public database/publications. The database contains over 4000 unique human cancer cell line STR profiles, one of the largest cancer cell line STR online search database in the world.

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Please note that if you are to every publish these cell lines *do not use all 14 loci/alleles on the paper, ONLY 8 loci/alleles can be used.*
| Source                               | Sample_Name     | AMEL | CSF1PO | D13S317 | D16S539 |
|--------------------------------------|-----------------|------|--------|---------|---------|
| Jianhua Ling                         | MIA-PaCa-2A     | X    | 10     | 12,13   | 10,13   |
| Public database, Sanger              | MIA-PACA-2       | X    | 10     | 12,13   | 10,13   |
| Jianhua Ling                         | hTERT-HPNE      | X,Y  | 12     | 12,13   | 12,13   |
| Public database, DSMZ                | hTERT-HPNE      | X,Y  | 12     | 12,13   | 12,13   |
Characterization and the cell lines developed by MD Anderson research labs.
|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 12 | 29 | 14,16 | 11 | 10,13 | 13 | 20,21 | 9 | 8 | 14,18 |
| 12 | 29 | 14,16 | 11 | 10,13 | 13 | 20,21 | 9 | 8 | 14,18 |

| D18S51 | D21S11 | D3S1358 | D5S818 | D7S820 | D8S1179 | FGA | TH01 | TPOX | vWA |
|--------|--------|---------|--------|--------|---------|-----|------|------|-----|
| 12     | 29,31,2 | 16      | 12,13  | 12,13  | 16      | 22  | 9,10 | 9    | 15  |
| 12     | 29,31,2 | 16      | 12,13  | 12,13  | 16      | 22  | 9,10 | 9    | 15  |

| D18S51 | D21S11 | D3S1358 | D5S818 | D7S820 | D8S1179 | FGA | TH01 | TPOX | vWA |
|--------|--------|---------|--------|--------|---------|-----|------|------|-----|
| 13,16  | 30     | 15      | 11     | 9,10   | 10,13   | 23,24 | 8,9  | 8,11 | 17  |
| 13,16  | 30     | 15      | 11     | 9,10   | 10,13   | 23,24 | 8,9  | 8,11 | 17  |
The document contains a logo of MD Anderson Cancer Center and text that is partially obscured. The visible text reads:

"...should also be submitted to the facility at Unit 950."
| Condition                  | Count 1 | Count 2 | Count 3 | Count 4 | Count 5 |
|---------------------------|---------|---------|---------|---------|---------|
| HPNE                      | 97.6667 | 154     | 134.6667| 53.6667 | 69.3333 |
| HPNE/K-ras                | 43      |         |         |         |         |
| HPNE/K-ras/p53mut         | 50      | 70      | 50      |         |         |
| smad4sh                   | 50      | 70      | 50      |         |         |
| p53sh                     | 59      | 62      | 40      |         |         |
| HPNE/Kras/p53mut          | 39      |         |         |         |         |
| 53.6667                   | 39      |         |         |         |         |
| 69.33333                  | 39      |         |         |         |         |
| 4.725816                  | 39      |         |         |         |         |
| 7.023769                  | 39      |         |         |         |         |
| 6.082763                  | 39      |         |         |         |         |

![Bar chart 1](image1.png)

![Bar chart 2](image2.png)
Figure 1E

| HPNE | +   | -   | -   | Vector | Kras$^{G12V}$ | p16sh | pRb (s807/811) |
|------|-----|-----|-----|--------|---------------|-------|----------------|
|      |     |     |     |        |               |       | Rb             |
|      |     |     |     |        |               |       | β-Actin        |

- 150
- 100
- 75

pRb (s807/811)
HER2

HPNE/K-ras/p16sh

Human Pancreatic cancer

Normal Pancreatic Duct

EGFR
Soft Agar Assay in HPNE Cell Lines

Graph showing the number of colonies formed by different HPNE cell lines under various conditions.
| HPNE   | HPNE/K-ras | HPNE/K-ras/p16sh |
|--------|------------|-----------------|
| 40     | 3200       | 3.2             | 190 | 15200 | 15.2 | 13 | 1040 |
| 42     | 3360       | 3.36            | 180 | 14400 | 14.4 | 10 | 800  |
| 28     | 2240       | 2.24            | 176 | 14080 | 14.08| 15 | 1200 |
| 23     | 1840       | 1.84            | 100 | 8000  | 8    | 12 | 960  |
| 20     | 1600       | 1.6             | 60  | 4800  | 4.8  | 13 | 1040 |
| 31     | 2480       | 2.48            | 42  | 3360  | 3.36 | 11 | 880  |
| 21     | 1680       | 1.68            | 50  | 4000  | 4    | 17 | 1360 |
| 45     | 3600       | 3.6             | 100 | 8000  | 8    | 11 | 880  |

$2.5 \quad 0.795128 \quad 8.98 \quad 4.92592 \quad 0.002457$

| HPNE   | HPNE/K-ras | HPNE/K-ras/p16sh |
|--------|------------|-----------------|
| 2.5    | 9.77       | 1.02            |
| 0.795128 | 5.589613 | 0.185164        |

![](chart.png)
| HPNE  | HPNE/K-ra:HPNE/K-ras/p16sh |
|-------|-----------------------------|
| 1.04  | 0.032 0.152 0.0104          |
| 0.8   | 0.0336 0.144 0.008          |
| 1.2   | 0.0224 0.1408 0.012         |
| 0.96  | 0.0184 0.08 0.0096          |
| 1.04  | 0.016 0.048 0.0104          |
| 0.88  | 0.0248 0.0336 0.0088        |
| 1.36  | 0.0168 0.04 0.0136          |
| 0.88  | 0.036 0.08 0.0088          |
| 1.02  | 0.185164 0.002457 0.001319 |
| 0.001319 | 0.00133 |