

S-Table 1. Clinical data of specimens for CRC TMA construction.

| Sample No. | Gender | Age | Differentiation grade     | metastasis | DUKE S | Clinical stage | TNM grade | tumor size(cm) |
|------------|--------|-----|---------------------------|------------|--------|----------------|-----------|----------------|
| 1          | M      | 55  | well differentiated       | N          | A      | II             | T3N0M0    | 3*2.5*2        |
| 2          | F      | 30  | well differentiated       | Y          | D      | IV             | T3N1M1    | 5*3*2          |
| 3          | M      | 52  | well differentiated       | Y          | D      | IV             | T4N1M1    | 4*2*1.5        |
| 4          | F      | 33  | well differentiated       | Y          | D      | IV             | T3N1M1    | 3.8*1.5*1.4    |
| 5          | M      | 49  | well differentiated       | N          | B      | II             | T3N0M0    | 2.5*2*2        |
| 6          | M      | 71  | Moderately differentiated | Y          | C      | III            | T3N1M0    | 3.5*2*0.6      |
| 7          | F      | 72  | Moderately differentiated | N          | A      | II             | T3N0M0    | 3*1.5*1        |
| 8          | M      | 52  | well differentiated       | Y          | C      | III            | T3N1M0    | 4*3.6*1.5      |
| 9          | M      | 43  | well differentiated       | N          | B      | II             | T3N0M0    | 7*5*2          |
| 10         | M      | 62  | well differentiated       | Y          | D      | IV             | T3N2M1    | 3.5*1.5*1      |
| 11         | M      | 68  | well differentiated       | Y          | C      | III            | T4N1M0    | 4*2*1.5        |
| 12         | F      | 64  | Moderately differentiated | Y          | C      | III            | T3N1M0    | 2.5*1.5*1.5    |
| 13         | F      | 26  | well differentiated       | Y          | C      | III            | T3N2M0    | 7*5*1.2        |
| 14         | M      | 41  | well differentiated       | Y          | D      | IV             | T3N0M1    | 4.5*4*1.5      |
| 15         | M      | 34  | well differentiated       | Y          | C      | III            | T3N2M0    | 5*4*2          |
| 16         | M      | 68  | well differentiated       | N          | B      | II             | T3N0M0    | 4*4*1          |
| 17         | M      | 58  | well differentiated       | N          | B      | II             | T3N0M0    | 3.5*2*1.5      |
| 18         | M      | 75  | Moderately differentiated | N          | B      | II             | T4N0M0    | 4.5*3*1.5      |
| 19         | F      | 70  | Moderately differentiated | N          | B      | II             | T3N0M0    | 4*3*1.5        |
| 20         | F      | 59  | Moderately differentiated | N          | A      | II             | T3N0M0    | 2.5*1.5*0.6    |
| 21         | M      | 50  | Moderately differentiated | Y          | D      | IV             | T3N1M1    | 3*3*2          |
| 22         | F      | 55  | Moderately differentiated | N          | B      | II             | T3N0M0    | 3*2*1.5        |
| 23         | F      | 31  | well differentiated       | N          | B      | II             | T3N0M0    | 4*2*2          |
| 24         | F      | 54  | poorly differentiated     | Y          | C      | III            | T3N1M0    | 4*4*1.5        |
| 25         | F      | 76  | well differentiated       | Y          | C      | III            | T3N1M0    | 6*4*4          |
| 26         | F      | 53  | well differentiated       | Y          | C      | III            | T3N1M0    | 3.5*2.5*1.5    |
| 27         | F      | 32  | well differentiated       | N          | B      | II             | T3N0M0    | 2.5*2.2*1.2    |
| 28         | F      | 58  | well differentiated       | N          | A      | II             | T3N0M0    | 3*2*0.8        |
| 29         | M      | 53  | poorly differentiated     | Y          | C      | III            | T3N1M0    | 5*4*2          |
| 30         | M      | 58  | Moderately differentiated | Y          | C      | III            | T4N2M0    | 3*2*1.5        |

|    |   |    |                           |   |   |     |        |             |
|----|---|----|---------------------------|---|---|-----|--------|-------------|
| 31 | M | 68 | Moderately differentiated | Y | D | IV  | T3N2M1 | 5.5*5.5*1.5 |
| 32 | M | 55 | Moderately differentiated | Y | D | IV  | T3N2M1 | 4*3*2       |
| 33 | F | 73 | well differentiated       | N | B | II  | T3N0M0 | 3.5*3.5*1   |
| 34 | M | 27 | poorly differentiated     | Y | D | IV  | T3N2M1 | 4.5*4*1     |
| 35 | F | 60 | well differentiated       | N | B | II  | T3N0M0 | 5*4.5*3     |
| 36 | M | 53 | well differentiated       | N | A | II  | T3N0M0 | 4*1.5*1     |
| 37 | M | 43 | Moderately differentiated | Y | C | III | T3N2M0 | 6*2*1.2     |
| 38 | M | 70 | poorly differentiated     | Y | D | IV  | T3N2M1 | 3*2.5*1     |
| 39 | F | 65 | poorly differentiated     | N | A | II  | T3N0M0 | 2*1.5*1.5   |
| 40 | M | 53 | poorly differentiated     | Y | C | III | T3N1M0 | 2.5*2.5*1   |
| 41 | M | 58 | Moderately differentiated | Y | D | IV  | T3N0M1 | 6*4*2       |
| 42 | F | 49 | Moderately differentiated | Y | C | III | T4N1M0 | 5*5*4       |
| 43 | M | 39 | Moderately differentiated | N | B | II  | T3N0M0 | 6.5*1*1     |
| 44 | M | 40 | poorly differentiated     | Y | D | IV  | T3N2M1 | 5*3*3       |
| 45 | M | 49 | well differentiated       | N | A | I   | T2N0M0 | 5*4*2       |
| 46 | M | 70 | Moderately differentiated | Y | C | III | T3N1M0 | 5*4*1.5     |
| 47 | F | 27 | Moderately differentiated | Y | C | III | T3N1M0 | 6.5*4.5     |
| 48 | M | 60 | well differentiated       | N | B | II  | T3N0M0 | 5*4.5*2     |
| 49 | M | 41 | poorly differentiated     | Y | C | III | T3N2M0 | 8*4         |
| 50 | F | 45 | Moderately differentiated | N | B | II  | T3N0M0 | 6*3.5       |
| 51 | M | 71 | well differentiated       | N | B | II  | T3N0M0 | 2.5*2       |
| 52 | M | 68 | well differentiated       | N | B | II  | T3N0M0 | 7*4         |
| 53 | M | 66 | Moderately differentiated | Y | D | IV  | T3N1M1 | 7*5         |
| 54 | M | 28 | Moderately differentiated | Y | C | III | T3N1M0 | 4*4         |
| 55 | M | 55 | well differentiated       | N | B | II  | T3N0M0 | 8*3         |
| 56 | F | 44 | Moderately differentiated | N | B | II  | T3N0M0 | 5*3.5       |

|    |   |    |                           |   |   |     |        |             |
|----|---|----|---------------------------|---|---|-----|--------|-------------|
| 57 | F | 44 | well differentiated       | Y | C | III | T3N1M0 | 4.5*3*2     |
| 58 | M | 40 | poorly differentiated     | Y | D | IV  | T3N1M1 | 6*6         |
| 59 | F | 62 | well differentiated       | N | A | II  | T3N0M0 | 5.3*4.5     |
| 60 | M | 56 | Moderately differentiated | N | B | II  | T3N0M0 | 6*5.5*2     |
| 61 | M | 54 | poorly differentiated     | Y | C | III | T3N2M0 | 10*10       |
| 62 | M | 47 | Moderately differentiated | N | B | II  | T3N0M0 | 6*5         |
| 63 | F | 56 | Moderately differentiated | Y | C | III | T3N2M0 | 6*4         |
| 64 | F | 68 | Moderately differentiated | N | B | II  | T3N0M0 | 3*3*1.5     |
| 65 | F | 67 | Moderately differentiated | Y | C | III | T3N2M0 | 5*4*4       |
| 66 | F | 56 | poorly differentiated     | N | B | II  | T3N0M0 | 4*3*3       |
| 67 | M | 81 | well differentiated       | Y | D | IV  | T3N2M1 | 5*2*1.5     |
| 68 | F | 65 | well differentiated       | N | A | I   | T1N0M0 | 1*1*1       |
| 69 | F | 72 | Moderately differentiated | Y | C | III | T3N1M0 | 5*4         |
| 70 | F | 30 | poorly differentiated     | N | B | II  | T3N0M0 | 6*3*3       |
| 71 | F | 17 | poorly differentiated     | Y | C | III | T3N2M0 | 4.5*4*1.5   |
| 72 | F | 33 | Moderately differentiated | N | B | II  | T3N0M0 | 6*6*2       |
| 73 | M | 75 | Moderately differentiated | N | A | II  | T3N0M0 | 2.5*2.5*0.5 |
| 74 | F | 57 | Moderately differentiated | N | B | II  | T3N0M0 | 4.5*4*0.5   |
| 75 | M | 79 | Moderately differentiated | Y | D | IV  | T3N0M1 | 5*2*1.5     |
| 76 | F | 44 | Moderately differentiated | Y | C | III | T3N2M0 | 5*4*4       |
| 77 | M | 62 | Moderately differentiated | Y | D | IV  | T3N1M1 | 4*3         |
| 78 | M | 43 | Moderately differentiated | Y | C | III | T3N1M0 | 4*3*2       |
| 79 | F | 55 | Moderately differentiated | N | B | II  | T3N0M0 | 4*3*1.5     |
| 80 | M | 68 | Moderately differentiated | Y | C | III | T4N2M0 | 3*3*2       |

|     |   |    |                           |   |   |     |        |           |
|-----|---|----|---------------------------|---|---|-----|--------|-----------|
| 81  | M | 60 | poorly differentiated     | Y | D | IV  | T3N0M1 | 8*4*4     |
| 82  | M | 38 | poorly differentiated     | N | B | II  | T3N0M0 | 4*3*0.6   |
| 83  | F | 83 | Moderately differentiated | N | A | II  | T3N0M0 | 5*3*1.5   |
| 84  | M | 59 | well differentiated       | N | A | II  | T3N0M0 | 4.2*2*1.5 |
| 85  | F | 52 | well differentiated       | Y | D | IV  | T3N2M1 | 3.5*2     |
| 86  | F | 40 | well differentiated       | N | B | II  | T3N0M0 | 5*2       |
| 87  | M | 48 | well differentiated       | N | B | II  | T3N0M0 | 6*3       |
| 88  | F | 69 | well differentiated       | N | B | II  | T3N0M0 | 3*2*2     |
| 89  | M | 52 | well differentiated       | Y | D | IV  | T3N1M1 | 2*2*1     |
| 90  | F | 54 | Moderately differentiated | N | B | II  | T3N0M0 | 4*4       |
| 91  | M | 50 | well differentiated       | N | A | I   | T2N0M0 | 5*3.5*1.5 |
| 92  | F | 65 | poorly differentiated     | N | B | II  | T3N0M0 | 10*6*5    |
| 93  | F | 64 | well differentiated       | N | A | II  | T3N0M0 | 4*3*1.5   |
| 94  | M | 68 | Moderately differentiated | N | B | II  | T3N0M0 | 3*3*3     |
| 95  | F | 67 | Moderately differentiated | Y | D | IV  | T3N0M1 | 2*2       |
| 96  | M | 37 | Moderately differentiated | Y | D | IV  | T3N2M1 | 8*4       |
| 97  | M | 65 | Moderately differentiated | Y | D | IV  | T3N0M1 | 3.5*2.5   |
| 98  | M | 60 | well differentiated       | N | B | II  | T3N0M0 | 3*3       |
| 99  | M | 67 | poorly differentiated     | Y | C | III | T3N2M0 | 6*6       |
| 100 | M | 44 | Moderately differentiated | Y | D | IV  | T3N1M1 | 7*4       |
| 101 | F | 59 | well differentiated       | Y | D | IV  | T3N2M1 | 4*4       |
| 102 | M | 69 | well differentiated       | Y | C | III | T2N1M0 | 4*2.5*1   |
| 103 | M | 56 | poorly differentiated     | Y | C | III | T3N1M0 | 4*3       |