

Table S09**Concordance of the imCMS prediction between pairs of slides from the same patient**

no unclassified samples used

| FOCUS 3X | | Slide 2 | | | | | | | | | Cohen's Kappa |
|-----------------|--------|---------|--------|--------|--------|--------|------------|--------|--------|--------|----------------------|
| | | Count | | | | | Percentage | | | | |
| | | n pairs | imCMS1 | imCMS2 | imCMS3 | imCMS4 | imCMS1 | imCMS2 | imCMS3 | imCMS4 | |
| Slide 1 | imCMS1 | 33 | 27 | 2 | 1 | 3 | 82 | 6 | 3 | 9 | 0.85 (0.79, 0.91) |
| | imCMS2 | 102 | 1 | 93 | 3 | 5 | 1 | 91 | 3 | 5 | |
| | imCMS3 | 26 | 0 | 1 | 24 | 1 | 0 | 4 | 92 | 4 | |
| | imCMS4 | 71 | 3 | 3 | 1 | 64 | 4 | 4 | 1 | 90 | |

| GRAMPIAN 12X | | Slide 2 | | | | | | | | | Cohen's Kappa |
|---------------------|--------|---------|--------|--------|--------|--------|------------|--------|--------|--------|----------------------|
| | | Count | | | | | Percentage | | | | |
| | | n pairs | imCMS1 | imCMS2 | imCMS3 | imCMS4 | imCMS1 | imCMS2 | imCMS3 | imCMS4 | |
| Slide 1 | imCMS1 | 19 | 11 | 4 | 4 | 0 | 58 | 21 | 21 | 0 | 0.71 (0.61, 0.74) |
| | imCMS2 | 59 | 4 | 48 | 6 | 1 | 7 | 81 | 10 | 2 | |
| | imCMS3 | 21 | 0 | 1 | 20 | 0 | 0 | 5 | 95 | 0 | |
| | imCMS4 | 22 | 2 | 0 | 2 | 18 | 9 | 0 | 9 | 82 | |