Table S1 Architecture of the applied CNN

The 8-layer CNN has been designed to classify (100x100x3 pixel) images to the classes “tumor bud” and “no tumor” bud. It consists of two block of a combination of convolutional, rectifier and pooling layers and a fully connected layer.

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| **Layer** | **Type** | **Filter size** |
| 1 | convolutional | 21x21x3x50 |
| 2 | rectified linear unit |  |
| 3 | pooling layer |  |
| 4 | convolutional | 3x3x50x50 |
| 5 | rectified linear unit |  |
| 6 | pooling layer |  |
| 7 | fully connected  | 9x9x50x2 |
| 8 | Sigmoid layer / output  |  |