5 Example debug output
The following 4 pages contain debug output as created by the -debug option, taken verbatim. Visualizing individual processing steps can help to find optimal parameters for certain tunables, and helps troubleshooting. Individual outputs comprise: input image, verbatim; input image, rotated; a plot of the horizontal profile; a plot of the vertical profile; the differentials of the horizontal profile used for channel detection; a spectrum (logarithmic plot of the Fourier transform magnitude) of the positive parts of the differential; a spectrum of the negative parts; the detected channels on the original image; the detected channels on the rotated image; for each of the 30 channels, plots of the horizontal smoothed baseline corrected profile of the channel image, as well as a thresholded profile used for empty channel detection, the channel image and its Otsu binarization, as well as cell candidates; a final image showing the rotated image with channel and cell information overlayed.