



Online Resource 3 Does intrinsic noise depend on external signal degradation? Testing for significant differences between ‘intrinsic’ distance distributions. The abscissa shows the different degradation levels, the ordinate shows the number of cells in percent. Grey bars indicate cells which exhibited no significant differences; light red bars indicate cells which showed significantly lower intrinsic distances for spike trains in response to the original song compared to the degraded signals. Bars in dark red show cells which exhibited significantly higher intrinsic distances for the original song. The three different processing stages are shown in separate graphs: Receptor cells (upper graph), local neurons (middle graph), ascending neurons (lower graph).

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