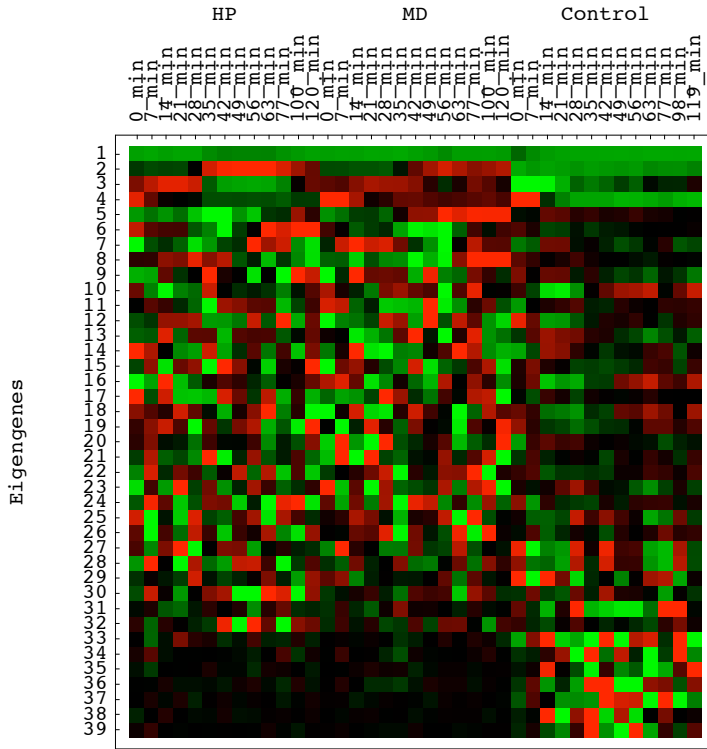
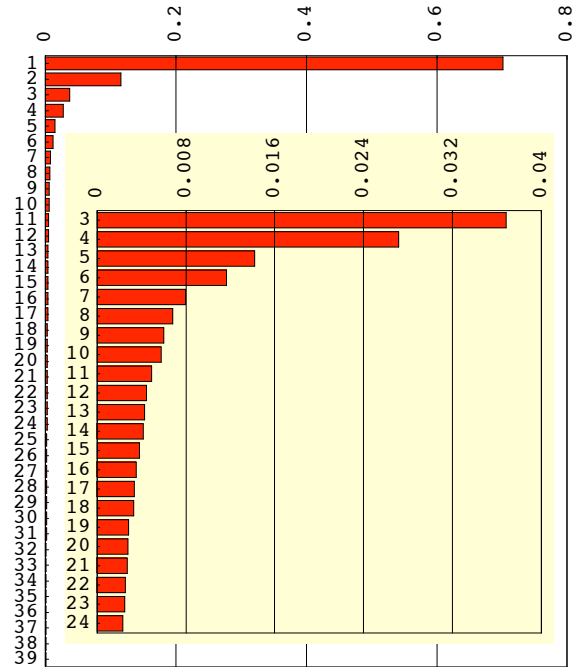


(a) Arrays

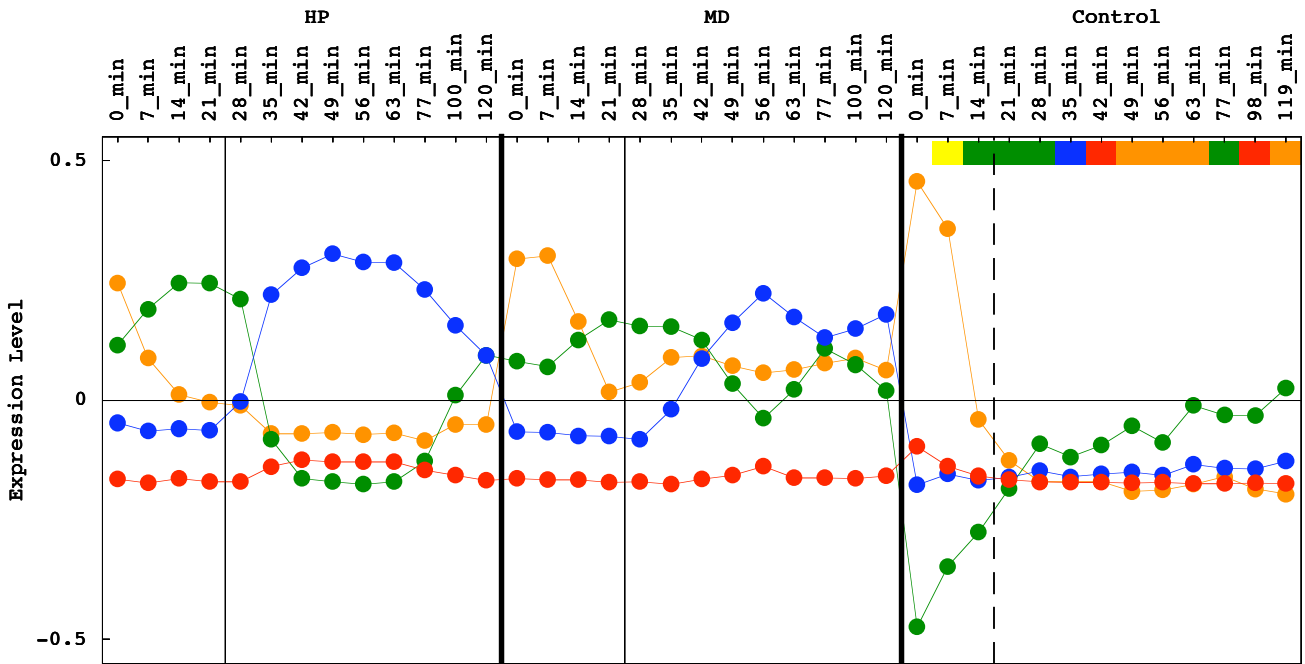


(b) Eigenexpression Fraction

$d_z = 0.37$



(c) Arrays



**Fig. 6.** The eigengenes  $V^T$  that correspond to the eigenarrays  $U$ , which are computed from the SVD of the matrix  $T_k \equiv (\mathcal{T}_{:11}, \dots, \mathcal{T}_{:1M}, \dots, \mathcal{T}_{:LM}) = UDV^T$ . (a) Raster display of  $V^T$ , the expression of  $LM = 39$  eigengenes in 39 arrays, corresponding to 13 time points each in three cell cycle time courses, with overexpression (red), no change in expression (black), and underexpression (green) around the steady state of expression, which is captured by the first eigengene. (b) Bar chart of the corresponding fractions of eigenexpression. The entropy of the matrix  $T_k$  is 0.37. (c) Line-joined graphs of the first (red), second (blue), third (green), and fourth (orange) eigengenes. The time points in the control time course are color-coded according to their cell cycle classification: M/G<sub>1</sub> (yellow), G<sub>1</sub> (green), S (blue), S/G<sub>2</sub> (red), and G<sub>2</sub>/M (orange). The grid lines mark the dissipation of the response to  $\alpha$ -factor in the control time course (dashed) and the start of exposure to either HP or MD, at  $\approx 20$  and 25 min, respectively.