





Prosite patterns For example, a RNA binding motif is expressed as [RK]-G-{EDRKHPCG}-[AGSCI]-[FY]-[LIVA]-X-[FYM] In regular expression, the motif is defined as  $S \rightarrow r W_1 \mid kW_1$  $W_1 \rightarrow g W_2$  $W_2 \rightarrow [afilmnqstvwy] W_3$  $W_3 \rightarrow [agsci] W_4$  $W_4 \rightarrow f W_5 \mid y W_5$  $W_5 \rightarrow l W_6 | I W_6 | v W_6 | a W_6$  $W_6 \rightarrow [a..y] W_7$  $W_7 \rightarrow f \mid y \mid m$ Note: 1. [ac] w is an alternative way to say aw | cw. 2. Non-terminals  $\mathbf{W}_1, \dots, \mathbf{W}_7$  correspond to the 7 positions in the motif. CISC889, S04, Lec15, Liao 4











