The rubber method and overlapping myoglobin peptides

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In the first part of the talk we will describe the rubber method - a coding strategy for channels with feedback. This strategy achieves the capacity error function for q-ary t-error-correcting codes with feedback for relative errors $\frac{1}{q} \leq \tau \leq \frac{1}{2}$, where $\tau = \frac{t}{n}$. Moreover it can be shown that $\lceil \log_{q-1}(M) \rceil + 2t \leq M(n,t) \leq \lceil \log_q(M) \rceil + 2t$.
In the second part of the talk we will describe a biological problem which is related to group testing.