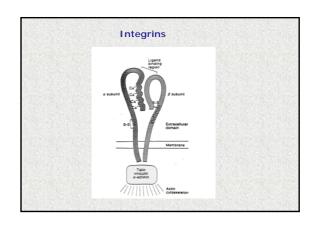
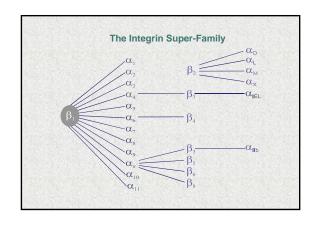
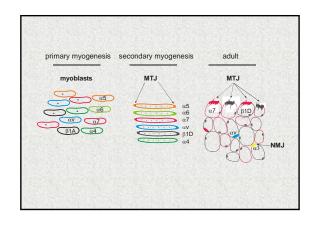


The most common form of muscular dystrophy in human. About 1 in 3000 boys is affected by the disease. Mutations are inherited or occur spontaneously due to the large size of the gene. The phenotype ranges from mild to severe. Mild form (Becker muscular dystrophy) small in frame deletions the function of the protein is partially maintained. Severe form (Duchenne muscular dystrophy) complete absence of the protein. Death post-puberty. The corresponding mouse model mdx, lacking dystrophin, develops histologically a muscular dystrophy but has a normal life span.







α7β1 INTEGRIN

- specific laminin receptor
- two extracellular (X1, X2) two intracellular splice variants (A, B)
- associates with $\beta 1D$ in skeletal and cardiac muscle
- mainly expressed in skeletal and cardiac muscle but also found in smooth muscle, neurons, melanocytes
- deficiency of the $\alpha 7$ subunit leads to a muscular dystrophy in human and mice

