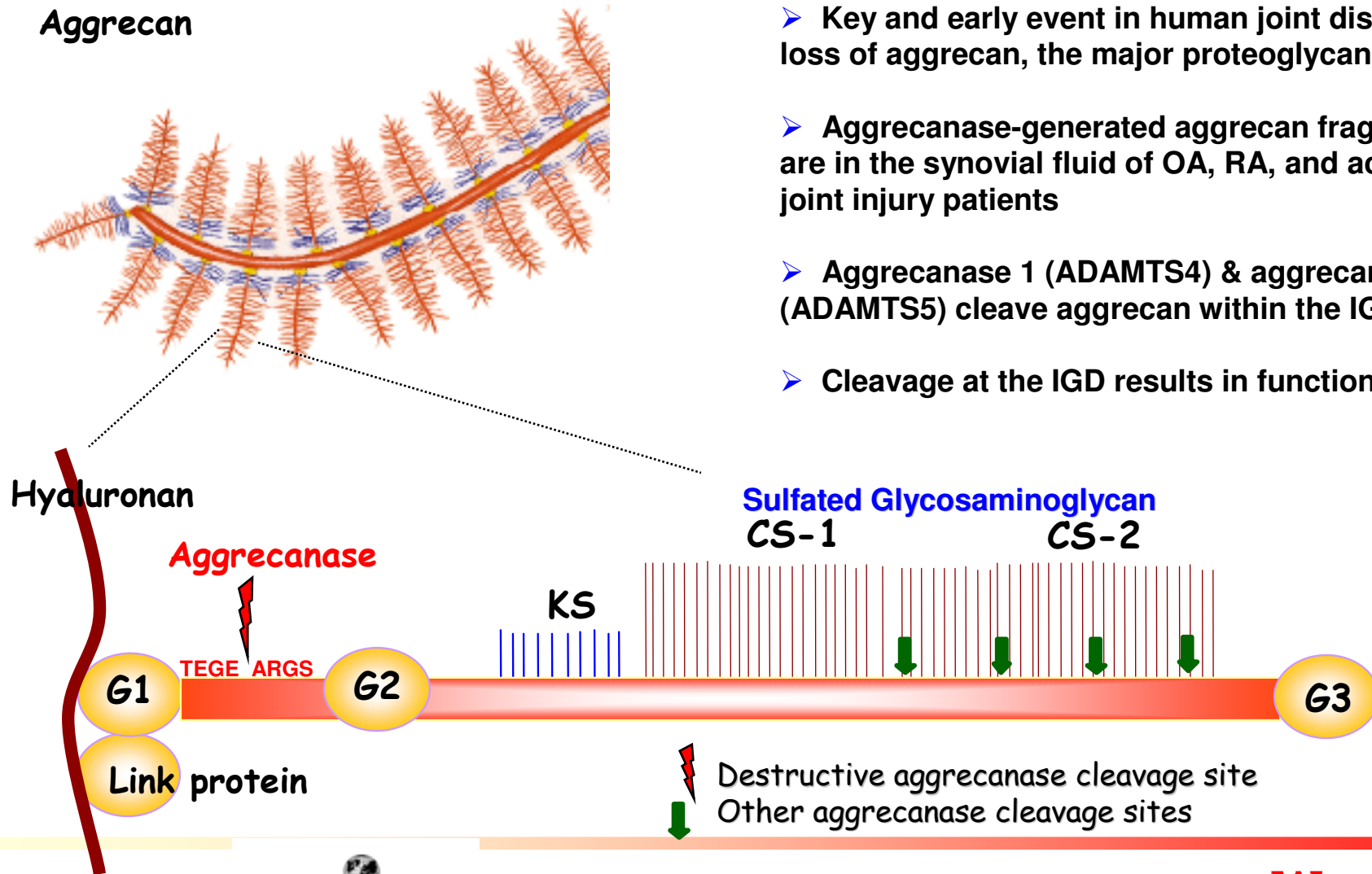


# Aggrecan architecture and the role of Aggrecanases



- Key and early event in human joint diseases is loss of aggrecan, the major proteoglycan
- Aggrecanase-generated aggrecan fragments are in the synovial fluid of OA, RA, and acute joint injury patients
- Aggrecanase 1 (ADAMTS4) & aggrecanase 2 (ADAMTS5) cleave aggrecan within the IGD
- Cleavage at the IGD results in functional loss