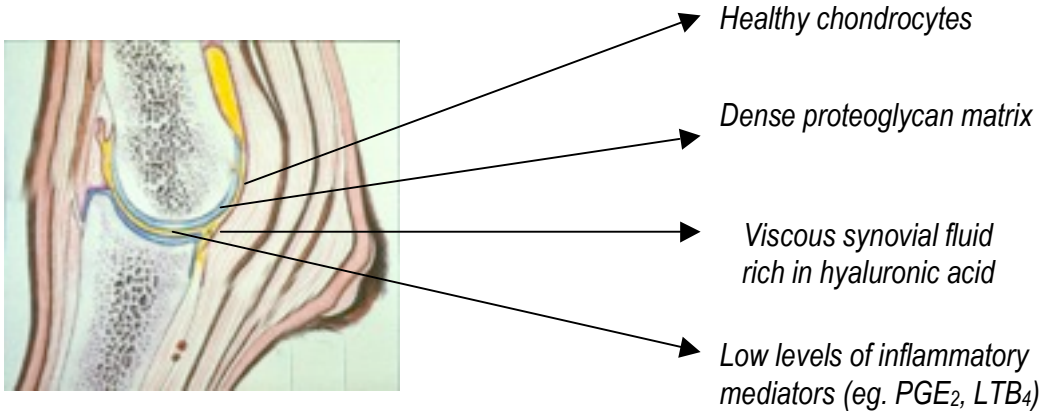


Keeping a healthy joint healthy, naturally

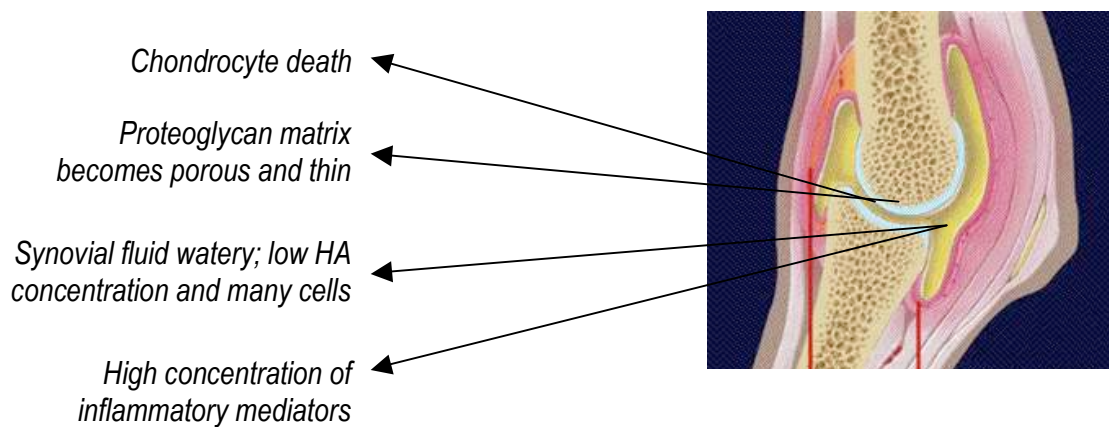
Understanding how joints become damaged allows us to provide the most effective treatments



The progenitors of a healthy joint are the **chondrocytes**. These cartilage-producing cells are responsible for the continual production of glycosamino-glycans (**GAGs**), which aggregate to form the proteoglycans (**PGs**) that construct cartilage. GAGs have a strong affinity for water, and thus give cartilage its ability to absorb shock and resist erosion. The major GAGs associated with articular cartilage are hyaluronic acid (**HA**), chondroitin-4- and 6-sulfate, keratan sulfate, and dermatan sulfate. GAGs, in turn, are composed of repeating units of hexosamines (usually glucosamine or galactosamine).

Unlike many other tissues associated with the musculoskeletal system, cartilage does not contain blood vessels, and therefore relies on the **synovial fluid** within the joint cavity to provide nutrients and remove waste metabolites. Healthy synovial fluid contains very few cells, and very low concentrations of inflammatory compounds such as prostaglandin E₂ (**PGE₂**). In addition, a high concentration of HA makes synovial fluid very dense and slippery, making it an ideal lubricant for smooth, virtually frictionless movement of bones across one another.

But what happens when a healthy joint becomes damaged?

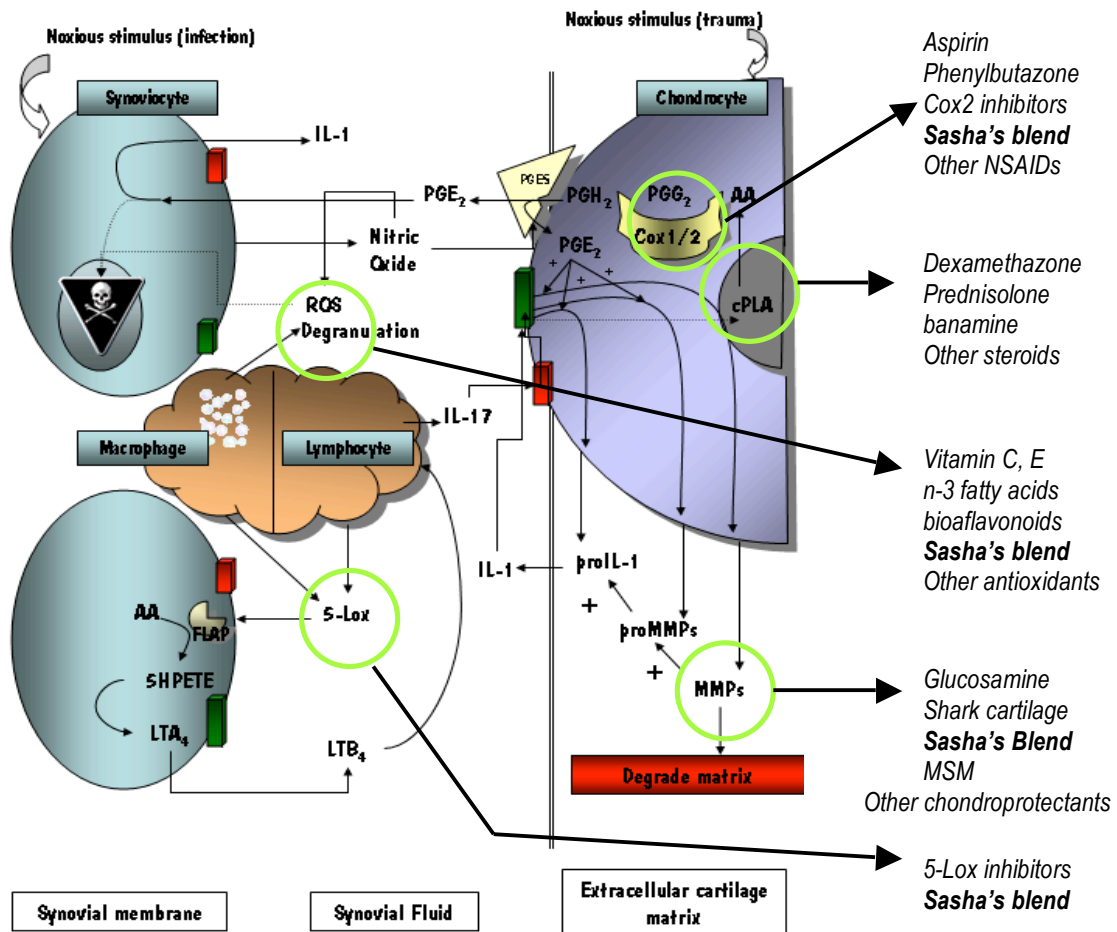


Activity makes us vulnerable. Horses, dogs and other active animals are continually faced with challenges predisposing them to joint damage: impaction trauma, subluxations, fractures, developmental joint incongruities, infection, auto-immune disease and many other problems can result in chronic inflammation and cartilage

degradation. The sequence of events during initiation of the inflammatory response is not clearly defined, and is probably dependent on the initial cause. However, the degenerative process within the joint in response to injury is well established, which provides targets against which several treatments have been shown effective.

The chemistry of joint breakdown

Treatment Options



Our commitment:

At Interpath Pty Ltd research is the cornerstone of our commitment to producing anti-inflammatory treatments of the utmost excellence. We are committed to providing you with the highest quality products backed with world-class scientific evaluation, and all the information you need to help you decide which of your clients can best benefit from Sasha's Blend.