



# Joint Fresh Cartilage & Joint Health



**CSIR-CENTRAL DRUG RESEARCH INSTITUTE,  
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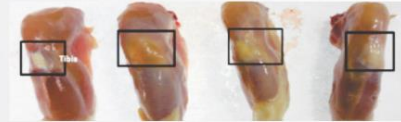


In a first ever breakthrough in the area of osteoarthritis, a most common chronic condition of the joints that afflicts mainly the weight-bearing joints such as hips and knees, and causes physical disabilities, CDRI Scientists have developed a standardized nano-formulation from Spinacia oleracea commonly known as Palak in hindi. This product not only had the ability to form bone but it also possessed an intrinsic ability to bed more of cartilage cells at the affected site. In the rodent model of osteoarthritis, the Spinacia oleracea formulation repaired and cured the degenerated cartilage.



The lab scale technology was earlier licensed to M/s. Pharmanza Herbal Pvt. Ltd. for further developmental studies and commercial launch with due approval of the regulatory authorities. On 13 March 2018, the product was formally launched for the domestic market. Currently, it is being sold in many states of the Spinacia oleracea formulation the country as a dietary supplement

### Prevention of cartilage atrophy at knee joints



Global statistics reveal, over 100 million people worldwide suffer from Osteoarthritis. The prevalence for osteoarthritis in India is 22% to 39%. Nearly, 45% of women above 65 years' have symptoms while 70% of women over 65 years have radiological evidence of osteoarthritis

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