

**PETAGILE<sup>®</sup>**  
Feeding Mobility



**PETAGILE<sup>®</sup>**  
Improving Quality of Life  
for our most trusted  
companions

- Bioactive Collagen Peptides (BCP<sup>®</sup>) proven to stimulate joint cartilage metabolism in pets
- A pure non-allergenic collagen protein for clean label products

**GELITA**

# Osteoarthritis – A threat for staying agile!



Osteoarthritis affects more than 20% of dogs older than one year. <sup>(1)</sup>



90% of cats older than 7 years showed x-ray evidence of joint degeneration. The number of arthritic cats is more difficult to assess as they exhibit more subtle signs of the disease. <sup>(2)</sup>



More than 60% of equine lameness stems from Osteoarthritis. <sup>(3)</sup>

Osteoarthritis (OA) is a degenerative joint disease characterized by the progressive destruction of articular cartilage caused by a disbalance between synthesis and breakdown processes.<sup>(4)</sup> Chondrocytes fail to produce sufficient extracellular matrix (ECM), and progressive cartilage destruction starts. Increased shear stress of chondrocytes results in higher level of cytokines and proteases which further destroy the structure.<sup>(5)</sup> Therefore, chondrocytes play a central role in maintaining balance.<sup>(4;7)</sup>

<sup>1</sup> Todhunter & Johnston, 2003

<sup>2</sup> Kerwin, 2010

<sup>3</sup> Caron & Genovese, 2003

<sup>4</sup> Martinek, 2003

<sup>5</sup> Kapoor, M. et al., 2011

<sup>7</sup> Schunck, Louton & Oesser, 2017

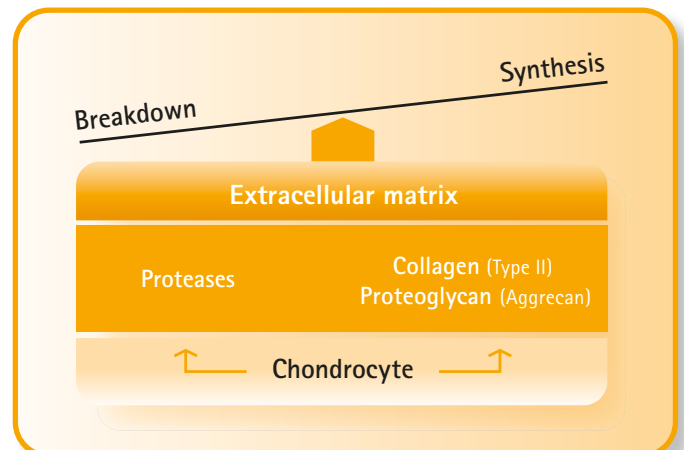
Inflamed synovium

Reduced viscosity of synovial fluid

Destroyed cartilage

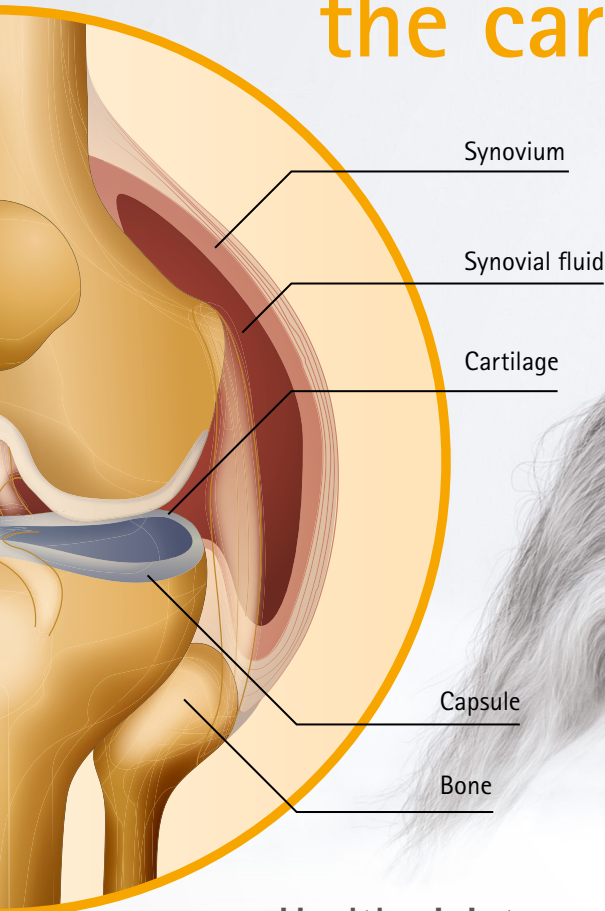
Thickened capsule  
Thickened bone

## Diseased joint

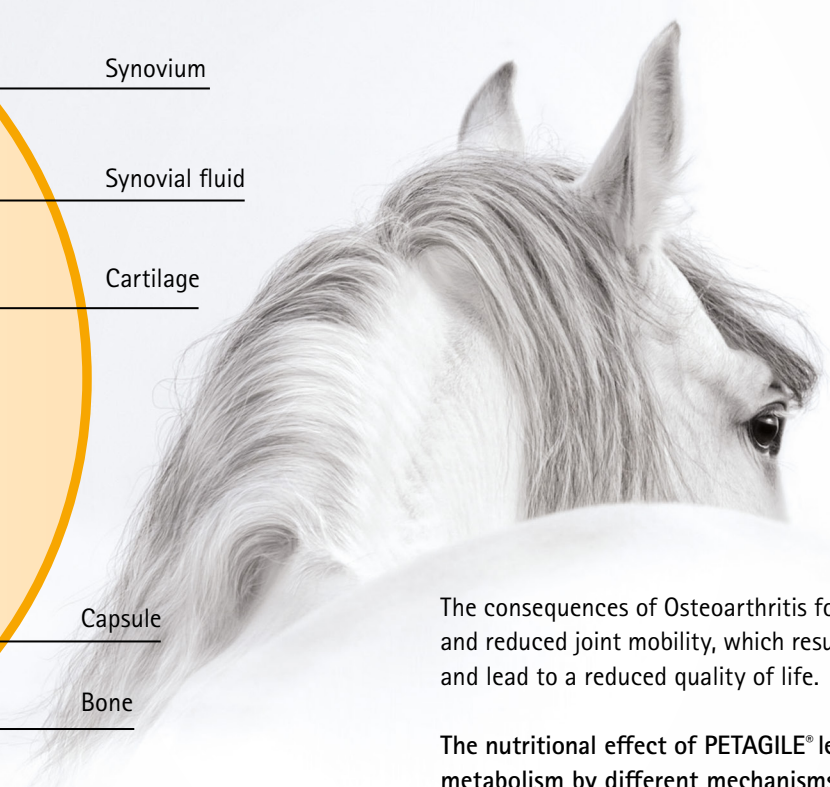




# PETAGILE® – Balancing the cartilage metabolism



Healthy joint



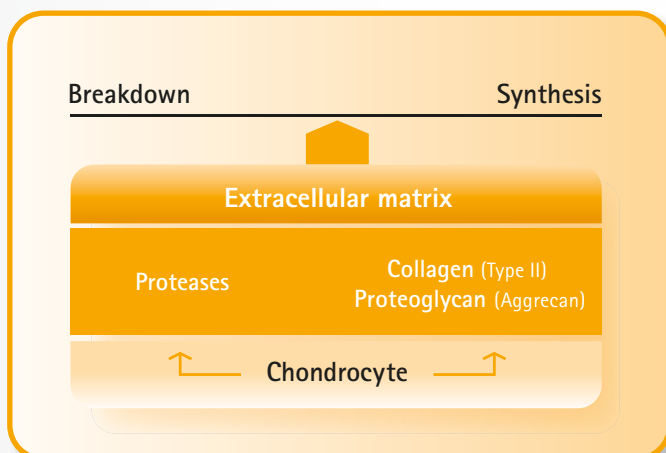
The consequences of Osteoarthritis for affected pets are pain and reduced joint mobility, which result in lameness or stiffness and lead to a reduced quality of life.

The nutritional effect of PETAGILE® leads to balancing cartilage metabolism by different mechanisms<sup>(6;7)</sup>

- Stimulates the biosynthesis of extracellular matrix molecules (ECM)
- Supplies of typical collagen amino acids as valuable building blocks
- Positively influences the slowdown of progression of cartilage degeneration by reduction of catalytic proteases and inflammatory cytokines

<sup>6</sup> Schunck, Schulze & Oesser, 2009

<sup>7</sup> Schunck, Louton & Oesser, 2017



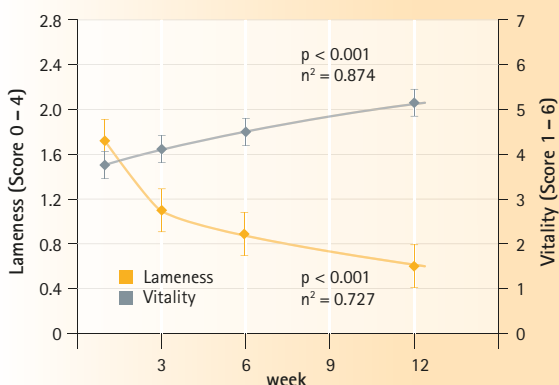
# PETAGILE® – Helps to improve walk and mobility

## For happy and active dogs

Scientific studies on canine chondrocytes and arthritic dogs have demonstrated the positive effect of PETAGILE® oral supplementation in the management of joint problems. The Bioactive Collagen Peptides (BCP®) break the vicious cycle of joint discomfort caused by age and load. *In vitro* studies demonstrated that the biosynthesis of cartilage matrix molecules increased significantly after exposure of PETAGILE® to canine chondrocytes. Moreover, a significant down regulation of inflammatory cytokines and degenerative matrix metalloproteases indicated that the cartilage metabolism of the canine chondrocytes are positively influenced by PETAGILE®.<sup>(7)</sup>

Attending veterinarians of the clinical studies noted continuously improvement of walk and agility of the dogs in the course of the collagen peptide application (orange line). Also, the pet owners were convinced by the oral supplementation. They observed an increased vitality in their dogs during the study period (blue line).<sup>(7)</sup>

### Degree of lameness & vitality



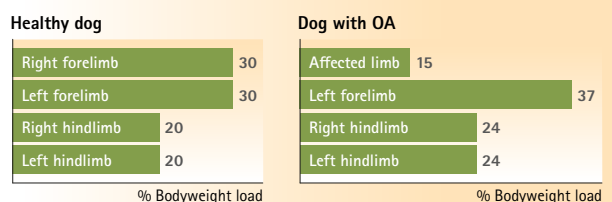
<sup>7</sup> Schunck, Louton & Oesser, 2017

Oral therapy with PETAGILE® improves gait and quality of life in dogs with joint problems – this is the conclusion of a new study which reveals the promising outcomes.

The double blinded, placebo controlled study was conducted at the veterinary university in GERMANY. The effects of 12 week supplementation with PETAGILE® vs. n3-fatty acids blend on the gait and quality of life (QoL) were investigated in privately owned adult dogs previously diagnosed with OA.

### Objective Measurement – Gait Analysis via Treadmill

- **Healthy dogs:** Bodyweight loading – split 60:40 between the forelimbs and hindlimbs, joint forces are balanced.
- **Dogs with OA:** Joint forces are not longer balanced, reduction of force and stand phase of the affected limb. In consequent, body load changes dramatically.



### Specific bioactive collagen peptide (BCP) intake improves gait in canine osteoarthritis

Ludwig-Maximilians-Universität: Böswald, L.F.; Reese, S.; Steigmeier-Raith, S.; Trillig, S.; Meyer-Lindenberg, A.; Dobenecker, B.  
 GELITA AG: Hugenberg, J.  
 Collagen Research Institute: Oesser, S.; Schunck, M.

The study has demonstrated that oral supplementation of PETAGILE® can slow down the progression of OA and improves clinical signs after only 12 weeks. PETAGILE® is a safe nutritional therapy option for our most trusted companions. The abstract of the new study was presented at the European Society of Veterinary and Comparative Nutrition congress.



# PETAGILE® – Keeps moving for a joyful life

## Recommended daily dose for dogs and for horses

Recommended daily dose for dogs is approximately 1 gram PETAGILE® per 5 kg body weight, based on the existing clinical studies.<sup>(6,7)</sup>

### Elderly animals

- Increases activity
- Regains mobility and flexibility
- Improves well-being

### Active animals

- Supports mobility and flexibility
- Optimizes joint health, function and comfort
- Increases performance






Recommended dose for athletic and elderly horses is approximately 50 grams PETAGILE® per day. This was tested in scientific studies with horses of different breeds, sizes, activities, and also in older animals with verifiably chronic occurrences of OA. The treatment success was also evaluated by the horse owners, over 80% confirmed that PETAGILE® had a beneficial effect on their horse's activity and well-being.<sup>(8)</sup>

PETAGILE® showed promising effects in horses already after 3 months.<sup>(8)</sup>



## DOGS

## DOSAGE

	<b>Extra-small</b> 1 – 5 kg 2 – 11 lbs	≈ 1 gram
	<b>Small</b> > 5 – 10 kg > 11 – 22 lbs	≈ 2 grams
	<b>Medium</b> 11 – 25 kg 24 – 55 lbs	≈ 3 – 5 grams
	<b>Large</b> 26 – 44 kg 57 – 97 lbs	≈ 6 – 8 grams
	<b>Giant</b> > 45 kg > 99 lbs	> 9 grams

## HORSES

## DOSAGE


	50 grams
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### Get a complete insight into the study.

"The oral intake of specific Bioactive Collagen Peptides (BCP) improves gait and quality of life in canine osteoarthritis patients – A translational large animal model for a nutritional therapy option"  
Published: September 19, 2024



Visit us to learn more  
about "Lady's" journey  
to more joy in life. 

<sup>6</sup> Schunck, Schulze & Oesser, 2009

<sup>7</sup> Schunck, Louton & Oesser, 2017

<sup>8</sup> Dobenecker et al., 2018



## Technological properties

PETAGILE® is a natural protein of neutral taste and odor. Besides healthy properties, it is perfect for protein enrichment in pet food applications such as treats or complete pet foods (wet and dry). Therefore, it provides excellent solubility and delivers clear solutions without interacting with other ingredients.

PETAGILE® showed great palatability results in canine placebo controlled tests.



PETAGILE® promotes

- clean label
- high digestibility
- no allergens
- scientific evidence

# Make innovative product ideas a reality!

PETAGILE® can enhance the most diverse of pet foodstuffs, including canned food, mixed provender, dietary supplements and treats.



[bit.ly/2Zq2n4D](https://bit.ly/2Zq2n4D)

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