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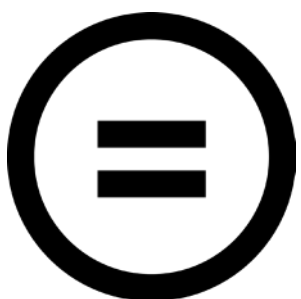
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Complex Particulate Biomaterials as Immunostimulant-Delivery Platforms

Débora Torrealba, Joaquin Seras-Franzoso, Uwe Mamat, Kathleen Wilke, Antonio Villaverde, Nerea Roher, Elena Garcia-Fruitós

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Complex Particulate Biomaterials as Immunostimulant-Delivery Platforms

Débora Torrealba , Joaquín Seras-Franzoso , Uwe Mamat, Kathleen Wilke, Antonio Villaverde, Nerea Roher ,
Elena García-Fruitós 

Published: October 7, 2016 • <https://doi.org/10.1371/journal.pone.0164073>

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Abstract

The control of infectious diseases is a major current challenge in intensive aquaculture. Most commercial vaccines are based on live attenuated or inactivated pathogens that are usually combined with adjuvants, oil emulsions being as the most widely used for vaccination in aquaculture. Although effective, the use of these oil emulsions is plagued with important side effects. Thus, the development of alternative safer and cost-effective immunostimulants and adjuvants is highly desirable. Here we have explored the capacity of inclusion bodies produced in bacteria to immunostimulate and protect fish against bacterial infections. Bacterial inclusion bodies are highly stable, non-toxic protein-based biomaterials produced through fully scalable and low-cost bio-production processes. The present study shows that the composition and structured organization of inclusion body components (protein, lipopolysaccharide, peptidoglycan, DNA and RNA) make these protein biomaterials excellent immunomodulators able to generically protect fish against otherwise lethal bacterial challenges. The results obtained in this work provide evidence that their inherent nature makes bacterial inclusion bodies exceptionally attractive as immunostimulants and this opens the door to the future exploration of this biomaterial as an alternative adjuvant for vaccination purposes in veterinary.

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Complex Particulate Biomaterials as Immunostimulant-Delivery Platforms

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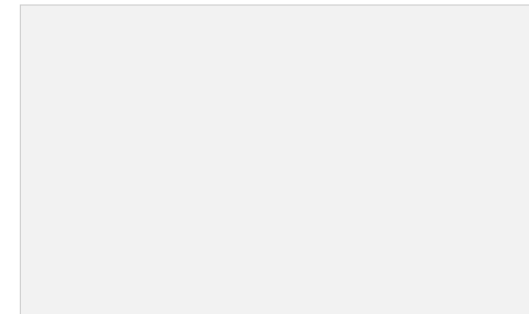
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Junya Itou, Umito Kuwashima, Masafumi Itoh and Ken Okazaki

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Abstract

Background

Change in the joint line convergence angle (JLCA) of the knee after high tibial osteotomy (HTO) is difficult to predict accurately. Given that any change in JLCA is intra-articular, the shape of the articular surface, including the bone morphology of the proximal tibia, may affect the alignment of the knee joint postoperatively. The purpose of this study was to investigate the relationship between the shape of the tibial plateau and postoperative alignment of the

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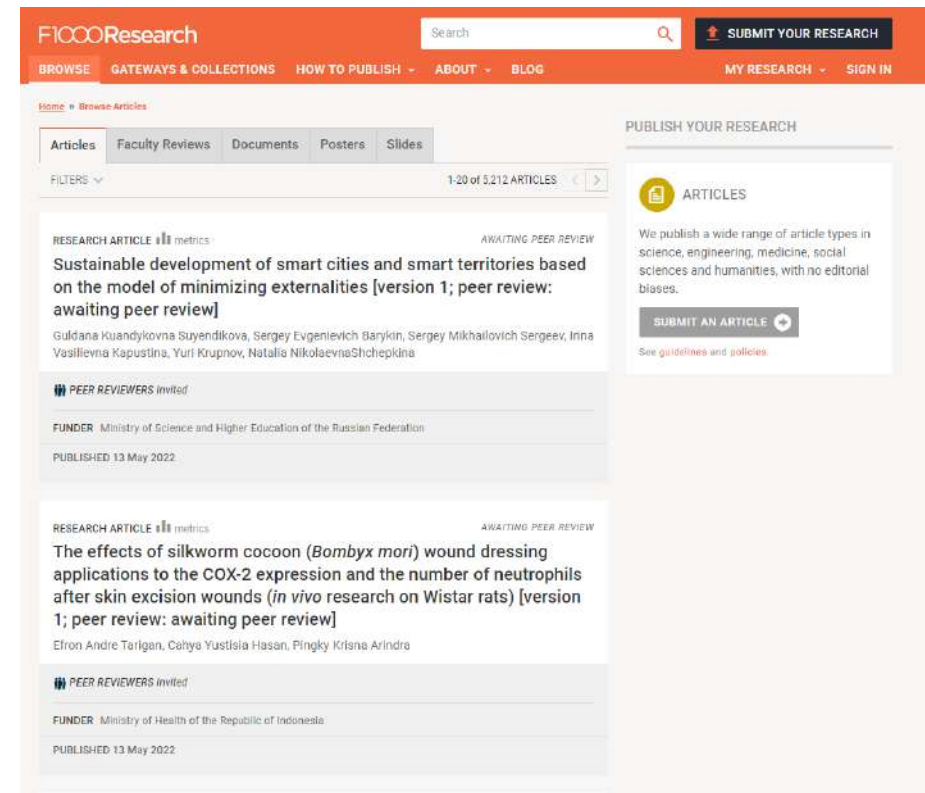
Change in the joint line convergence angle (JLCA) of the knee after high tibial osteotomy (HTO) is difficult to predict accurately. Given that any change in JLCA is intra-articular, the shape of the articular surface, including the bone morphology of the proximal tibia, may affect the alignment of the knee joint postoperatively. The purpose of this study was to investigate the relationship between the shape of the tibial plateau and postoperative alignment of the

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Angela Peña-González, Alejandro Reyes Muñoz

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Analysis and exploration of microbial traits in a wet coffee fermentation experiment using MGnify

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Key terms
Metagenomics, MGnify, Shotgun, Functional analysis, Taxonomic Analysis and Fermentation

Overview
This CABANA e-Learning tutorial will guide you through the use of the MBF eSB web server. MGnify is a process and analysis pipeline for metagenomic datasets derived from a wet coffee fermentation process at different time points.

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Angela Peña-González¹, ✉ Alejandro Reyes Muñoz¹

PUBLISHED 08 APR 2022 (<https://doi.org/10.7490/f1000research.1118938.1>)

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