

Analysis of Soyprotein as a Fish Meal Substitute: **Growth Performance**

Introduction

- The Significance of Sustainable Alternatives to Fish Meal in Aquaculture

 Reducing pressure on natural fish populations due to fish meal production and overfishing

- How does inclusion of soyprotein affect growth

Methods

Search strategy

- Keywords: "soy protein concentrate", "fish meal", "aquaculture", "growth", "nutrition".
- English litteratur, 1999-2023

Data collection

- Manual extraction of relevant data from included papers.
- Criteria: species, life stage, weight, experimental setup, duration, feed variation, nutritional composition.

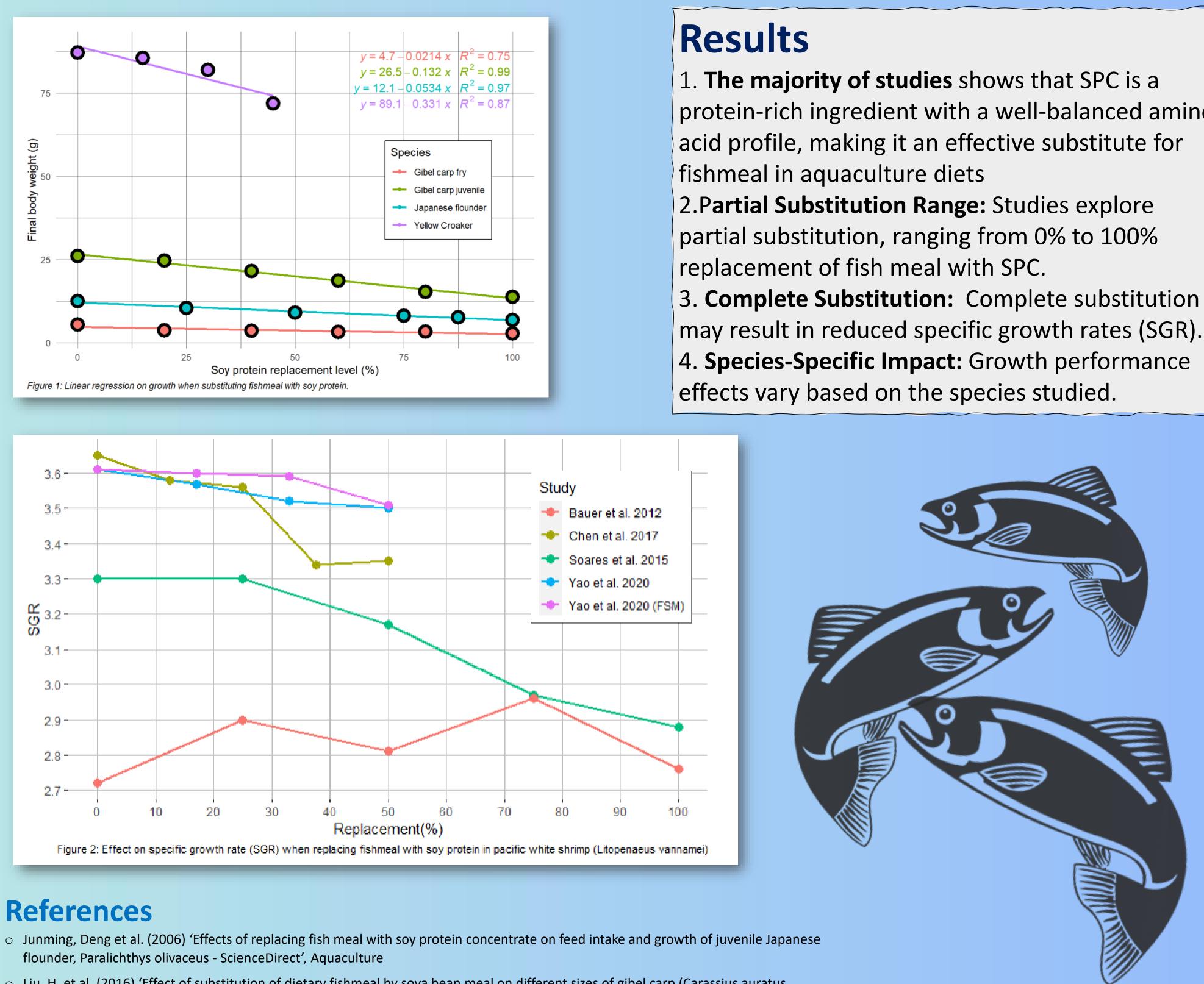
Data Synthesis

• Quantitative and qualitative approach to synthesize collected data. Results were presented initially in a quantitative phase, followed by qualitative exploration to enhance understanding. Integration of these findings was emphasized in the discussion.

Quality Assessment

• Studies underwent a quality assessment, considering parameters, bias risk, and publication source. All examined papers demonstrated correct study design with a low overall risk of bias.

Authors: Eivind Engan, Lina Børven og Ryan Day



References

- Liu, H. et al. (2016) 'Effect of substitution of dietary fishmeal by soya bean meal on different sizes of gibel carp (Carassius auratus gibelio): nutrient digestibility, growth performance, body composition and morphometry', Aquaculture Nutrition, 22(1), pp. 142–157
- Xuexi Wang et al. (2023) Partial Substitution of Fish Meal with Soy Protein Concentrate on Growth, Liver Health, Intestinal Morphology, and Microbiota in Juvenile Large Yellow Croaker (Larimichthys crocea)

