

respectively. DPPH free radical-scavenging assay, reducing power assay and ABTS++ Scavenging activity were used to evaluate the antioxidant properties of hydrolysates from squilla. Study revealed that hydrolysate produced using alcalsae had significantly higher antioxidant properties. Hydrolysates produced using alcalase was found to have higher scavenging ability (75.46±0.012%) followed by pepsin, papain, neutrase and flavourzyme. Hydrolysate produced using different type of protease from squilla ABTS+ exhibited strona scavenging capacities. Evaluation of in-vivo antioxidant activity of squilla protein hydrolysate was conducted in fish nuggets under refrigerated storage. Fish nuggets with 1% squilla protein made from alcalase hvdrolvsate flavourzyme showed significantly lower PV and TBARS values as compared to control sample at the end of 10 days of storage. Sensory scores for appearance, colour, flavor, odour, taste and texture were found to be higher for the fish nuggets containing hydrolysate. The results of the study indicate that squilla protein hydrolysate is a promising alternative to replace harmful synthetic antioxidants in fishery products.

**AV PO 06** 

## Innovative product development using pangasius (Pangasianodon hypophthalmus) fish mince

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Innovative fish products have the potential to attract consumer appeal and increase product consumption. *Pangasianodon hypophthalmus* is a widely cultured fish in

India. It has relatively lower market price and offers new scope for innovative value addition as its meat has good nutritional qualities and excellent sensory properties. A few novel value added products were prepared from pangasius mince namely, sausages, colored noodles. nuagets. Pangasius fish sausage was prepared with a standard formulation of salt (2.5%), sugar (1.5%), poly phosphate (0.2%), guar gum (0.1%), corn starch (9%) and sunflower oil (6.7%) as ingredients to the pangasius mince (70%). The sausage was found to have physicochemical excellent properties. Noodles are the most demanded fast food all over the world. Noodles from pangasius mince (20%) were developed with and without the addition of natural color pigments from beetroot. Beetroot-pangasius-fish noodles appeared reddish in colour with a\* of 18. protocol Α has standardized for preparing restructured nuggets from pangasius fish with the addition of green mussel mince. Green mussel mince @5, 10 and 15% were added to pangasius mince and the product with 10% mussel mince and 75% pangasius mince was found better acceptable. Addition of green mussel mince has masked the fatty odour of pangasius mince. The trails revealed that novel mince based products of high sensory acceptability can be prepared pangasius mince.

**AV PO 07** 

## Fish fortified pasta from Bombay duck (Harpodon nehereus) and its quality characteristics

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