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COVID-19: A GAME CHANGER FOR SEAFOOD RETAILING IN ASIA

By Shirlene Maria Anthonyamy

There's just not enough being heard and said about how the COVID-19 pandemic is ravaging the world, lives and industries. What is undeniable is that the impact has been profound, but there is much uncertainty on how long before life returns to normal. Meanwhile, there is a silver lining of sorts, with digitisation and innovations being in the forefront of crafting and moulding the path to recovery. This article discusses the impact of COVID-19 on the fisheries sector in the Asia Pacific and the adaptations that are driving the growth of the sector.

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LIVELIHOOD DEVELOPMENT FOR CLAM COLLECTING COASTAL FAMILIES THROUGH HOMESTEAD BACKYARD PEARLSPOT SEED REARING

By B. Shanthi, C.V.Sairam and M.Kailasam

Small-scale fisheries employ more than 90% of the world's capture fishers and fish workers, about half of them being women throughout the world, according to the FAO. Despite their vital contributions to the fisheries industry and to household incomes and nutrition, these women remain almost invisible to policymakers and other stakeholders. Discriminatory socio-cultural norms in some areas of the world exacerbate the issue; nevertheless, there are many success stories which exemplify what can happen when women are given the opportunity to prove their mettle. This is one such story.

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SEAFOOD CONSUMERS' DILEMMA: THE CHOICE BETWEEN WILD OR FARMED

By Izzat Feidi

In today's world where there is a dizzying array of seafood from both the wild and from aquaculture, the consumer's choice is guided by a few factors such as price, perceived nutritional value, proof of sustainability, taste, presentation, and familiarity. With a growing world population and a rise in demand for seafood, the production sector has to keep pace with this increased consumption through ongoing resource management initiatives and the application of new technologies.

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IMPROVED DRIED SHRIMP PRODUCTION

By Ansen Ward, Win Win Kyi, Khin Maung Aye, and Jonathan Bird

Dried shrimp is an important product that is produced and consumed in many East Asian countries. Its quality is affected by the processing method, handling and hygiene practices at all stages of production, starting from harvest. Poor handling and processing practices result in a product which will not be able to fetch high prices, bring reduced income for producers, and may even be harmful to consumers. In this article, the authors describe in simple terms, good processing, handling and hygiene practices that will help producers maximise the value and income from dried shrimp, meet required national standards and access new and high-value markets.

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THE BASICS OF BIOFLOC TECHNOLOGY

By Firoza Buranudeen

With the shift towards intensive yet environmentally sustainable, cost effective, space-saving and biosecure farming, biofloc technology is an option worth considering. What makes it additionally attractive as compared to many other systems is its adaptability in sites ranging from rural developing areas of the world through small urban household environments, right up to large commercial ventures. Biofloc technology also requires relatively few inputs and can be combined with recirculating aquaculture and hydroponic systems.

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On the cover: Three-dimensional reconstruction of confocal images of a macrophage (green) closely associated with a bundle of peripheral nerve fibers (blue; semitransparent) in mouse skin. F4/80 (red) marks interstitial dermal macrophages. Photo credit: Philipp Henneke.

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On the cover: The human gut symbiont *Bacteroides thetaiotaomicron* expresses one of eight capsular polysaccharides in a phase-variable manner. The individual capsules have a range of effects on the CD4⁺ T cell response to *B. thetaiotaomicron*—from antistimulatory to prostimulatory. The capsule is shown in yellow in a quick-freeze, deep-etch scanning electron micrograph. Hsieh, S., N. T. Porter, D. L. Donermeyer, S. Horvath, G. Strout, B. T. Saunders, N. Zhang, B. Zinselmeyer, E. C. Martens, T. S. Stappenbeck, and P. M. Allen. 2020. Polysaccharide capsules equip the human symbiont *Bacteroides thetaiotaomicron* to modulate immune responses to a dominant antigen in the intestine. *J. Immunol.* 204: 1035–1046.

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Note: An issue highlight on the cover of Volume 204, Number 4 was published incorrectly originally. The correct cover line should read "Review: Natural and Induced Tolerogenic Dendritic Cells." This has now been corrected in the front matter and the thumbnail image of the cover. The corrected versions are available at: <https://www.jimmunol.org/content/204/4> and <https://www.jimmunol.org/content/jimmunol/204/4/local/front-matter.pdf>.

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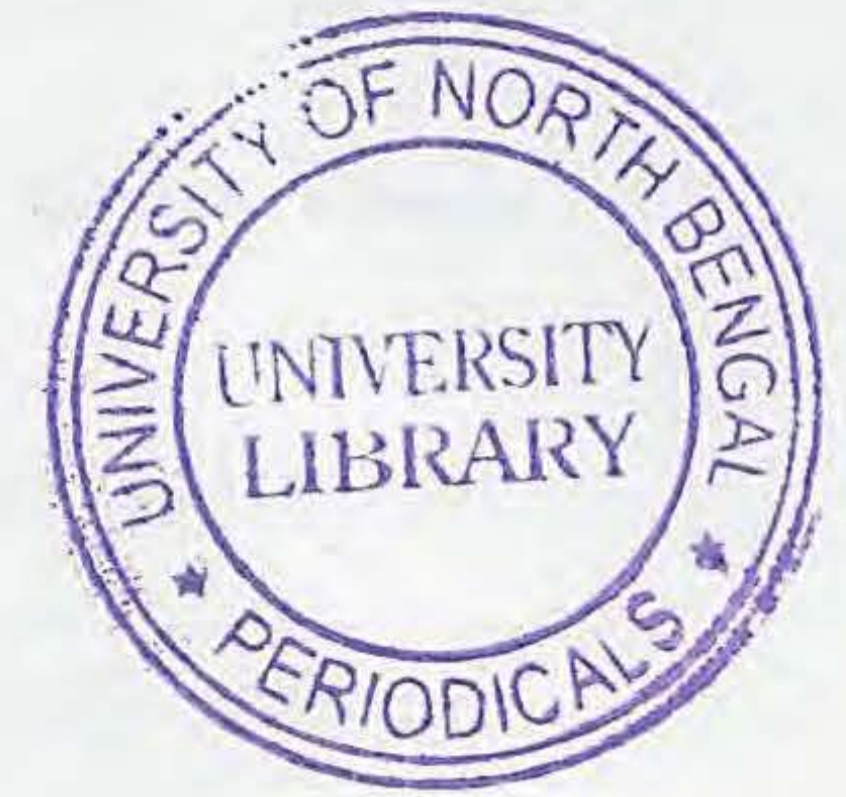
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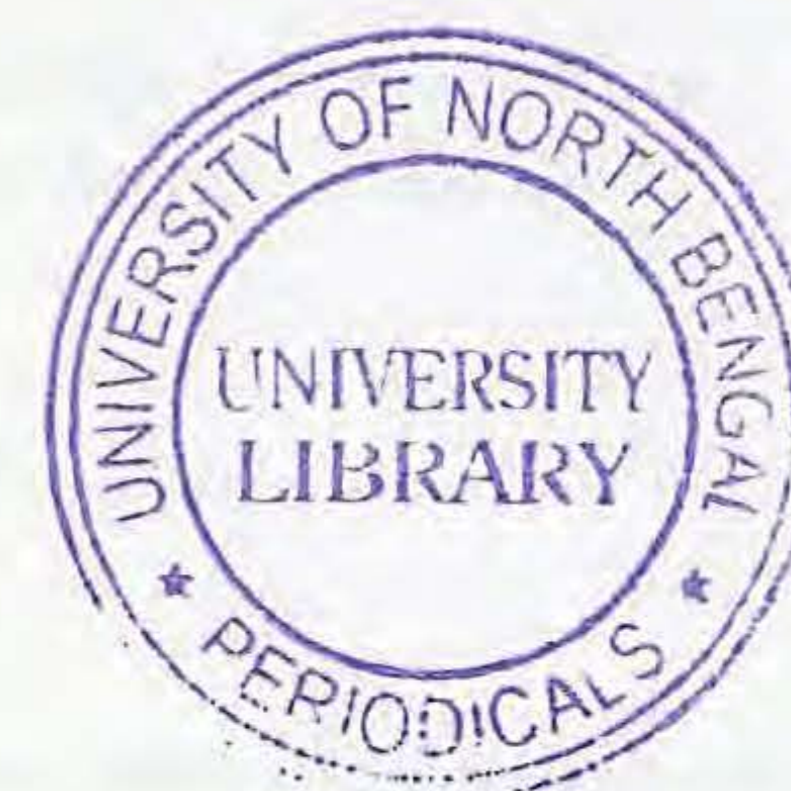
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- 1990 **Neonatal and Children's Immune System and COVID-19: Biased Immune Tolerance versus Resistance Strategy**
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- 2008 **Bone Marrow Endothelial Cells Take Up Blood-Borne Immune Complexes via Fcγ Receptor IIb2 in an Erythropoietin-Dependent Manner**
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On the cover: Sciatic nerve cross section from a NOD.*scid* recipient of NOD-*Per1g* splenocytes. This recipient had type 1 diabetes but no observable neuritis. The nerve was fixed, plastic embedded, sectioned at 0.5 μm thickness, and stained with toluidine blue. This ×40 image was captured on a Nikon Eclipse 600 microscope with DIC-Nomarski optics. Racine, J. J., H. D. Chapman, R. Doty, B. M. Cairns, T. J. Hines, A. L. D. Tadenev, L. C. Anderson, T. Green, M. E. Dyer, J. M. Worton, Z. Bichler, J. K. White, R. Ettinger, R. W. Burgess, and D. V. Serreze. 2020. T cells from NOD-*Per1g* mice target both pancreatic and neuronal tissue. *J. Immunol.* 205: 2026–2038.

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