

Rout, N., Kumar, S., Jaganmohan, S. and Murugan, V., 2007. DNA vaccines encoding viral envelope proteins confer protective immunity against WSSV in black tiger shrimp. *Vaccine*, 25(15), pp.2778-2786.

Sandberg, L.M., Bjurling, Å., Busson, P., Vasi, J. and Lemmens, R., 2004. Thiophilic interaction chromatography for supercoiled plasmid DNA purification. *Journal of biotechnology*, 109(1-2), pp.193-199.

Sedhuraman, V., Haq, M.B., Kavitha, P., Ahamed, A.S., Rao, M.V., Tiwary, C. and Srinivasan, M., 2014. Scientia Research Library ISSN 2348-0416. *Journal of Applied Science And Research*, 2(5), pp.126-145.

Urthaler, J., Schlegl, R., Podgornik, A., Strancar, A., Jungbauer, A. and Necina, R., 2005. Application of monoliths for plasmid DNA purification: Development and transfer to production. *Journal of Chromatography A*, 1065(1), pp.93-106.

Van den Berg, J.H. and Haanen, J.B.A.G., Gene therapy with naked DNA: Potential steps towards deregulation. CGM/2010-06, 2010. Internet: <http://www.cogem.net/showdownload.cfm>.

Wu, Y., Yang, W., Wang, C., Hu, J. and Fu, S., 2005. Chitosan nanoparticles as a novel delivery system for ammonium glycyrrhizinate. *International journal of pharmaceutics*, 295(1-2), pp.235-245.

ISBN: 9798554163623

CHAPTER- 26

EFFECT OF MOTORIZATION AND MECHANIZATION OF FISHING CRAFT AND GEAR ON THE LIVELIHOOD OF TRADITIONAL FISHERMEN- A CASE STUDY IN KERALA

Nisha Elizabeth Joshua¹ and Amrutha Gopan¹

¹School of Fisheries, **Centurion University of Technology and Management**, R. Sitapur, India

Introduction:

Fisheries form one of the most important sectors of Kerala's economy. The State of Kerala is blessed with 590 km long coastline is bordered on the west by the marine flora and fauna rich Arabian Sea. The State has a geographical area of 38,000 sq. km. The continental shelf is narrow and sprawls over an area of about 40,000 sq. km. EEZ extends up to 200 nautical miles. The marine resource potential of the State within the continental shelf area is 7.5 lakh tonnes. The territorial limits of the state is about 22 kms from the sea