

Challenges in The Biomarker Pipeline

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Defining, and our abilities to do so, healthy populations is one of the greatest challenges faced to livestock industries generally. As such a multitude of scientific literature aims to establish biomarkers of infection, infestation, sub-clinical, clinical, and projected disease outcomes. However, few of these candidate biomarkers establish in a clinical setting. The pipeline of development includes several stages from discovery to implementation. However, due to the failures and issues with each of these few pass from discovery to implementation. Furthermore, the ability of a marker to pass through this pipeline is often blocked due to pre-conceived notions and the entrenchment of established practices which may not be appropriate and/ or better than that in development. This presentation aims to exemplify the process of a biomarker's discovery, validation, translation, evaluation, and implementation with the pitfalls of these steps being explained.

Session: Quantitative Atlantic Salmon Health (QASH), preference for oral presentation.