Biotechnology and Biological Sciences Research Council

Engineering and Physical Sciences Research Council

EBNet Placement Support
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(PL202006)

EBNet Environmental Biotechnology

Practical Essentials of HPLC & LC-MS

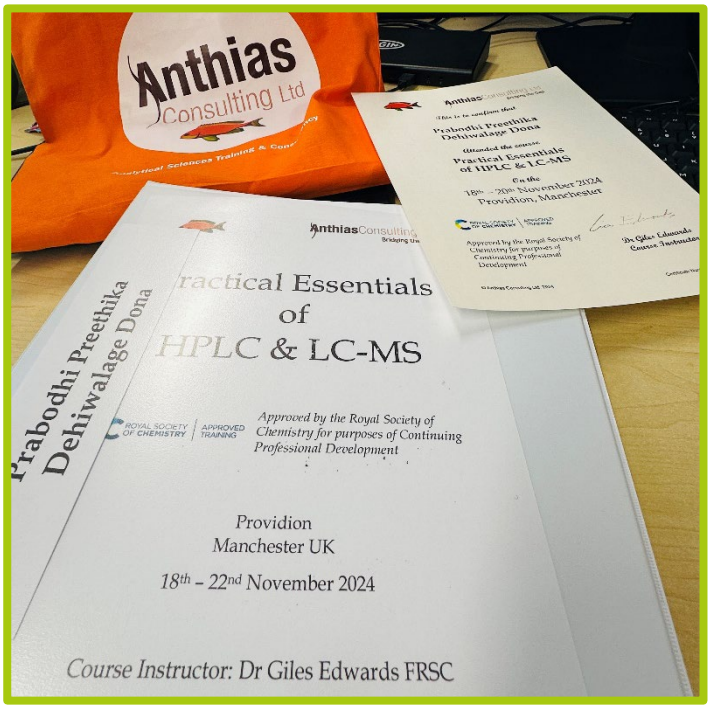
– onsite training at Providon Ltd Nov 2024

This training has not only enhanced my technical skills in HPLC and LC-MS but has also given me the confidence to tackle complex analytical challenges in my PhD research

- Prabodhi Preethika Dehiwalage Dona, Newcastle University

My research focuses on developing new methodologies to assess the degradation of polysaccharide polymers, aiming to reduce reliance on petrochemical-based materials. A significant part of my work involves analyzing the degradation products using advanced analytical techniques such as HPLC, LC-MS, UHPLC, IC-MS, and GPC. While Newcastle University has the necessary equipment, my knowledge of these specific techniques was limited. I needed a more comprehensive understanding to develop and optimize new methods tailored to my unique polymer samples.

The EBNet-funded training on the Practical Essentials of HPLC & LC-MS at Anthias Limited, held onsite at Providion, has been invaluable in my current PhD journey.



See more on Prabodhi's work by searching for her on LinkedIn and Google Scholar

The training provided me with crucial insights into the operation and method development of HPLC and LC-MS systems. The hands-on sessions were particularly beneficial, helping me understand critical aspects like selecting appropriate columns, mobile phases, detectors, and sample preparation for different types of analyses. With this foundational knowledge, I am now better equipped to navigate the complexities of UHPLC-based method development for my research.

The training's impact extends beyond the technical skills acquired; it has given me the confidence to make informed decisions about equipment and supplies for my experiments. While there will undoubtedly be challenges ahead in tailoring these methods to my specific samples, I feel positive and prepared to take on these tasks. The support from EBNet has been instrumental in bridging this essential knowledge gap, enabling significant progress in my PhD work.