Abstract

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Method development and validation for analysis of drugs of abuse in human hair by LC-MS/MS.

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Abstract

In addition to his leadership of the Forensic Toxicology Laboratory, he is also a volunteer Doping Control Officer (DCO) for the Ethiopian National Antidoping Office. He is also actively participating in establishing a poison control centre in Ethiopia with the collaboration of Public Health England.

Throughout his career, Mr. Beza has built experience with LC-MS/MS and GC-MS instrumentation for toxicological applications. He has developed an LC-MS/MS analytical method for multidetermination of drugs of abuse and their metabolites from human hair, as well as a GC-MS method for analysis of organochlorine pesticides. His teaching and research experiences in the fields of analytical chemistry and forensic sciences have helped him to build teamwork and leadership abilities.

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Biography

Gedifew Nigatu Beza is the chairman of Forensic Toxicology Laboratory of Saint Paul's Hospital Millennium Medical College (Addis Ababa, Ethiopia), and a forensic toxicology lecturer in the Department of Forensic Medicine and Toxicology at the same institution. He obtained a B.Sc. in applied chemistry from Arba Minch University (Ethiopia), where he acquired his first research experience in evaluating Wastewater Stabilization Pond (AMUWSP) as a treatment plant by evaluating the important physico-chemical parameters of wastewater quality. He received his first master's degree in analytical chemistry from the University of Hawassa (Ethiopia). His research dealt with residue level analysis of organochlorine pesticides (OCPs) using GC-MS and toxicological risk assessment on humans at different exposure levels.