

## **Exploring the Frontiers of Rapid Technologies in Forensics**

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The ability to determine the origin (human or animal) of a biological sample found at a crime scene, along with its nature and the time since deposition, is crucial for criminal investigations. This information is essential for accurately linking evidence to a crime. Additionally, the ability to quickly obtain a DNA profile from crime scene evidence or a suspect is vital for advancing the investigation.

This presentation will explore the application of rapid methods, such as infrared (IR) spectroscopy for identifying bodily fluids and the RapidHit system for DNA typing. These technologies offer significant advantages by enabling investigators to swiftly identify and analyze critical evidence.

### **Biography**

Anna Barbaro is Senior Lecturer of Forensic Biology and Genetics in several degree and post-degree University courses (Italy, Spain, Malta, Colombia, Bolivia). She served as Director of the Forensic Genetics Department at SIMEF (Studio Indagini Mediche E Forensi ), Italy and as expert consultant for Italian penal and civil tribunals. She holds a PhD in Forensic Genetics from the University of Santiago de Compostela, Spain. She has also a post-degree Diploma of the School of Specialization in Applied Genetics, a Master Diploma in Improvement in Psychological and Behavioural Techniques of the Criminal Investigation, a diploma of Expert in Criminal Investigation, a diploma in Crime Scene Investigation and a diploma in Criminalistics: Specialized in the Crime Scene. She is President of the Worldwide Association of Women Forensic Experts (WAWFE), and honor member of several international associations. She serves as expert consultant for EU Commission (REA). She is author of more than 200 papers and presentations and editor of some manuals about Forensic Science, serving also as Editor in-chief or Editorial Board Member and reviewer for some international scientific journals. She is organizer of courses and conferences about Forensic Science, and she is lecturer in national/international conferences/courses. She has received many awards for her forensic activity.