

UOC Genetica Medica
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Azienda ospedaliero-universitaria Senese



Genetica forense

Test di paternità e di parentela

Identità biologica su reperti
prelevati sulla scena del crimine

Genetica della morte
cardiaca improvvisa

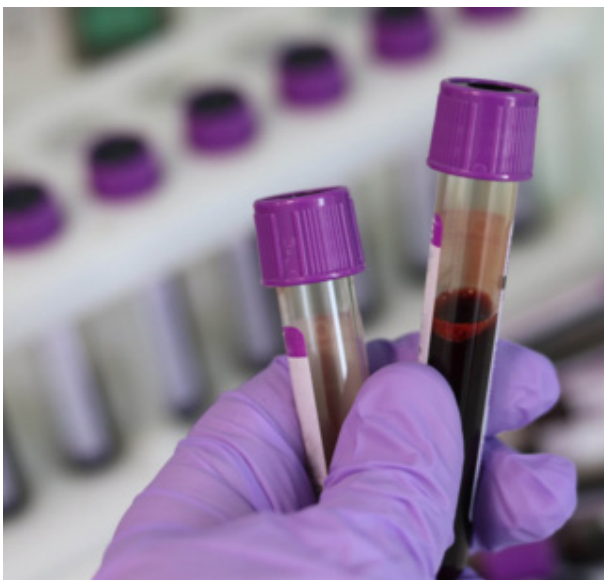
Forensic genetic investigations are carried out at the request of individuals and in the context of investigations ordered by the Judicial Authorities, in collaboration with medical-legal consultants and experts.

Forensic genetics applies the most modern scientific techniques to traditional judicial investigations.

Search and identification of biological material

The search for traces of blood and other biological matrices - a procedure developed and used for the identification of perpetrators of homicides, road investments and robberies - is now increasingly used also in cases of sexual violence. In this regard, a memorandum of understanding was recently signed between the Azienda ospedaliero-universitaria Senese, the Azienda Sud-Est Area Vasta South-East Tuscany Local Health Authority and the Public Prosecutor's Office at the Court of Siena, which allowed the - activation of the so-called "Pink Code", i.e. a dedicated path that begins with restricted access to the Emergency Room and continues with the activation of an operational group made up of professionals, both healthcare and non-medical, belonging to the Aou Senese and the Forces of the Order, to help the victim of violence and collect useful elements for the purpose of identifying the culprits, also through the examination of possible biological traces present on the victim's body.

These are investigations in the field of civil law for the recognition of paternity and maternity in the case of exchange of embryos and in the criminal field to identify the perpetrators of otherwise insoluble crimes.



Search or attribution of paternity

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Identification of genetic factors producing abnormalities leading to sudden death

These are investigations mainly aimed at the study of cardiac anomalies due to rhythm alterations, capable of causing the patient's death. These investigations are essential for recognizing suitability for competitive sports and obtaining permission to drive vehicles.



Genetic implications in criminalistics

The progress of genetic investigations may, in the near future, allow the identification of the genetic causes of criminal behavior.