

IMPORTANCE OF DNA EVIDENCE IN POST BLAST

Ashfaq Ahmed Kharal, Assistant Advocate General

The benefit of DNA analysis is very much important as we have all facilities here in Pakistan but due to lack of knowledge of collection and preservation of biological evidences at post blast scene, we lost many culprits behind those attacks.

In normal blasts usually chemicals analyzed at the edges of CRATOR and what has been used in it identified. Now in the case of SUICIDE ATTACK around 200 meters of radius we can have the DNA evidence which is very important in analyzing any suspect's identification in that blast. At least hundreds of suicide bomb attacks are there but no one identified due to lacking of collection of evidences and mishandling of that Blast scene made such factors increase in numbers and they ended without giving any lead.

DNA

Deoxyribonucleic acid (DNA) is a molecule that encodes the genetic instructions used in the development and functioning of all known living organisms and many viruses. DNA is a nucleic acid; alongside proteins and carbohydrates, nucleic acids compose the three major macromolecules essential for all known forms of life. There are 4 nucleotide bases each nucleotide is composed of a nitrogen-containing nucleic base—either guanine (g), adenine (a), thymine (t), or cytosine (c)—as well as a monosaccharide sugar called deoxyribose and a phosphate group. The nucleotides are joined to one another in a chain by covalent bonds between the sugar of one nucleotide and the phosphate of the next, resulting in an alternating sugar-phosphate backbone. According to base pairing rules (a with t and c with g), hydrogen bonds bind the nitrogenous bases of the two separate polynucleotide strands to make double-stranded DNA.

Why DNA

Where there is life, DNA is there. And is a very good piece of evidence against any culprit.

Sources of biological evidences

- Blood /blood stain
- Semen/semen stain
- Saliva / saliva stain
- Head and body hair
- Sweat
- Bones
- Teeth
- Soft tissue samples

UNIQUE

As DNA is genetic blue print of an individual and it is not even same with the next sibling of yours except the identical twins

Note! Identical twins may contain similar DNA

CODIS

Combined DNA index system is very useful tool to convict the suspect and in case of suicide blast it is very helping tool for suspect terrorist lead.

WHY DNA ANALYSIS IS IMPORTANT

Biological evidence is a type of evidence, which perpetrators do leave behind, coincidentally most of the time, no matter how careful they are, and can be detected despite the cleaning of the crime scene. The generation of the genetic profile of a person through dna analysis of biological evidence has been a revolutionary development in the resolution of criminal cases. Dna analyses are effectively used in the resolution of criminal cases, the determination of genealogy, disaster victim identification.

TERRORISM IN PAKISTAN

Terrorism in Pakistan has become a major and highly destructive phenomenon in recent years. The annual death toll from terrorist attacks has risen from 164 in 2003 to 3318 in 2009 and growing with passage of time.we need to control this

DNA AND TERRORISM

If we can achieve DNA of suspect without being contamination, we can find suspect involved in such attacks and it is very useful source of conviction

DNA MATCH

Reference samples are very useful for convicting such offenders of terrorist attacks in Pakistan, if we have a DNA match we can even find chain behind that attack.