

Exhibit One

Recent Developments In Forensic Identification: Phenotypic Markers & Ancestry DNA

Sue Carney, Ethos Forensics

Until recently, most forensic DNA analyses examined areas of the non-coding regions of the genome. Now however, the [Penn Centre for Bioethics \[http://www.h-net.org/announce/show.cgi?ID=178741\]](http://www.h-net.org/announce/show.cgi?ID=178741) and scientists from Columbian College, Washington [\[http://columbian.gwu.edu/newsevents/articles/forensic-sciences-solving-crimes-one-genetic-marker-at-a-time\]](http://columbian.gwu.edu/newsevents/articles/forensic-sciences-solving-crimes-one-genetic-marker-at-a-time) are each working on projects that aim to examine phenotypic markers in a forensic context. It is anticipated that markers including those for hair colour, eye colour, skin tone and height, might be useful in corroborating eyewitness statements or in developing a DNA-based description of an unidentified perpetrator. In explaining the limitations of the technique, Daniele Podoni, Assistant Professor of Forensic Sciences at Columbian Colleges, said, “We may have a skin colour predicted by our genes, but people can be tanned”, and “...we may know hair colour and type—curly or straight—but these can be changed or disguised.” Professor Podoni envisages regular future use of the technique in police forensic labs and compares it to the genetic equivalent of a police artist’s sketch. His research is funded by a US National Institute of Justice grant, and it is hoped, will be useful in identifying missing persons and mass disaster victims, in addition to being a useful forensic intelligence tool.

In February 2011, Sorenson Forensics of Salt Lake City, Utah, launched “[Investigative LEADSM](http://www.businesswire.com/news/home/20110222006063/en/Sorenson-Forensics-Launches-Industry)” [\[http://www.businesswire.com/news/home/20110222006063/en/Sorenson-Forensics-Launches-Industry\]](http://www.businesswire.com/news/home/20110222006063/en/Sorenson-Forensics-Launches-Industry) (Investigative Law Enforcement Ancestry DNA.) This system uses genetic markers found in five main reference populations to infer the genetic ancestry of a questioned sample. Results of blind validation testing of volunteer samples have so far been described as “very convincing”, by Sorenson Forensics’ Executive Director, Timothy D. Kupferschmid.

Dutch scientist, Manfred Kayser, of Erasmus MC University Medical Centre, Rotterdam, is working on a system that will allow [estimation of age from a blood sample](http://www.physorg.com/news/2010-11-age-blood-forensic-application.html). [\[http://www.physorg.com/news/2010-11-age-blood-forensic-application.html\]](http://www.physorg.com/news/2010-11-age-blood-forensic-application.html) The technique measures the amount of circular DNA molecules, known as signal joint TCR excision circles, within the T-cells found in blood. These DNA molecules are produced as a by product of the T-cell’s function within the immune system, and their numbers are known to steadily decline with age. Dr Kayser anticipates using this system to accurately place unidentified individuals into a generational age range and estimates accuracy of the technique to within +/- 9 years.



http://www.evidencepartnership.com/snuko_antitheft_17.html

<http://www.youtube.com/watch?v=9736yOOwNxA>

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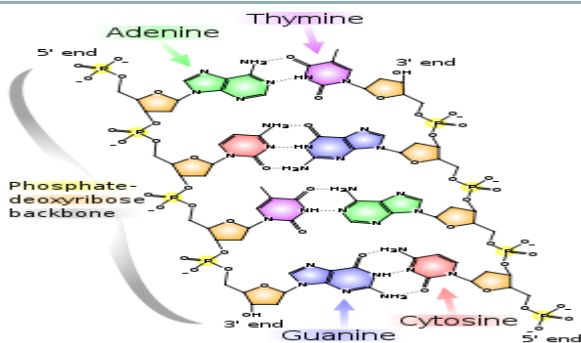
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FORENSIC SCIENCE STUDENT MAKES BREAKTHROUGH IN DRUG DETECTION

A forensic science student in her final year at Derby University in England has developed a new method of forensic analysis to help find tiny traces of drugs. 22 year old Sonica Devi's method makes detection of cocaine possible at a million millionth of a gram and was tested on samples taken from telephone boxes across the city of Derby.

Using an ultra sensitive Gas Chromatographic technique she was able to find cocaine from swabs. Gas Chromatography linked to a mass spectrometer (GCMS) is an established technique for separating complex mixtures of compounds and detecting them down to very low amounts.



ONE HOUR DNA PROFILING

DNA left at crime scenes could be able to be used to identify suspects in under an hour thanks to a new portable device.

The technology is about the same size as a piece of hand luggage taken onto flights. It uses a rapid form of DNA profiling to produce a genetic fingerprint from blood, saliva and skin cells left behind at a crime scene. It can then check the sample taken against the UK's national DNA database to try to find an identity.

UPCOMING INTERNATIONAL CONFERENCE DATES

The 3RD International Conference on Evidence Law and Forensic Science
"Evidence Science and Justice: Present and Future"

16th-17th July 2011 Beijing, China

<http://www.icelfs.com/English/index.html>

96TH International Education Conference
International Association for Identification

7th-13th August 2011 Milwaukee, Wisconsin USA

<http://theiai.org/conference/2011/index.php>

Worldwide Exhibition of Internal State Security (MILIPOL)

18th-21st October 2011 Paris, France

<http://en.milipol.com/To-exhibit-on-Milipol>

NEW FORENSIC RULES IMPLEMENTED IN RAPE CASES.

The High court in Bombay, India has directed the government in Maharashtra to introduce and implement a new set of rules relating to the forensic medical examination of victims of sexual assault.

The direction was given on a PIL filed on the basis of a report by Khandekar, Assistant Professor in Department of Forensic Medicine at Mahatma Gandhi Institute of Medical Sciences (MGIMS), Sewagram.



DIRECTOR VACANCY AT NATIONAL INSTITUTE OF CRIMINOLOGY AND FORENSIC SCIENCE (NICF)

India's National Institute of Criminology and Forensic Science is currently searching for someone to fill the position of Director. The last date for applications is 20TH July 2011. For more information click on the link below.

[http://www.indiaeduforum.com/government-and-defence/national-institute-of-criminology-and-forensic-\(nicf\)-recruitment-may-2011-direc/](http://www.indiaeduforum.com/government-and-defence/national-institute-of-criminology-and-forensic-(nicf)-recruitment-may-2011-direc/)

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HISTORIC AGREEMENT FOR IRISH FORENSICS

Northern Ireland Justice Minister David Ford and Minister for Justice, Equality and Defence for the Republic of Ireland, Alan Shatter have put pen to paper on a Memorandum of Understanding to support co-operation between forensic science agencies throughout the island of Ireland.

The forensic science laboratories in both Northern Ireland and the Republic will now be able to use each others facilities in the event of damage or sudden loss of either of the facilities.



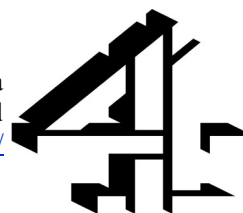
CHANNEL 4 SRI LANKA KILLINGS VIDEO CONTROVERSY

UK television station Channel 4 has found itself in the middle of a major controversy over a video reportedly showing extra-judicial killings in Sri Lanka. The United Nations Rapporteur, Professor Christof Heyns has stated that the video of these killings is authentic after three United States forensic experts at the Geneva sessions of the UNHRC tested the video in June 2011.

Daily News

Sri Lanka's National Newspaper Since 1918

Former head of Cisco's Global Broadcast and Digital Video practice division Siri Hewavitharana of Australia, is reported by the Daily News in Sri Lanka to have branded the video a fake. To read more on this story and to draw your own conclusions go to <http://www.dailynews.lk/2011/06/14/news01.asp>



SOUTH AFRICAN POLICE SERVICE FORENSIC SCIENCE LABORATORIES MAKING HEADWAY IN ATTEMPT TO CLEAR BACKLOG



With the help of international experts, the South African forensic science laboratories have been identifying the causes of huge backlogs in evidence and putting steps in place to remedy the situation.

Since February of this year, an overhaul of human resources and skills and upgrades of equipment have been taking place to increase capacity. Minister of Police Nathi Mthethwa has also stated that cases have decreased by over 19% in the period between April 2009 and March 2010.

Commenting on the FSL'S performance Minister Mthethwa said, "We are pleased with this progress, while also mindful that the current functioning of the FSL is far from ideal. We shall continue to strive to ensure that we transform the FSL into a world-class unit,".

NO FORENSIC PATHOLOGIST IN SAMOA

Since the death of Samos's only forensic pathologist last year, the island has been left with no one to do the job. All related investigations since then have to wait for forensic advice from New Zealand.

Commenting on a recent investigation, Police Commissioner Lilo-maiava Fou Taioalo said, forensic pathologist from New Zealand arrived on Wednesday to work on identifying all the deaths at the hospital morgue and then go back," .

"So all the families of these deceased at the hospital morgue were informed to be patient while we await a pathologist from overseas," he says.

There have been no comments as to when or if this way of dealing with forensic investigations that require a pathologist will be resolved.



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“DUSK TILL DAWN” PYROMANIC FACES TRIAL IN SWEDEN

47year old Ulf Borgström faces trial after an investigation that cost \$1.7million in 2010 alone. The 47 year old is suspected of starting several hundreds of fires over a period of several years.

The most notorious of these allegations is that he set fire to an apartment block in December 2010

SCOTLAND TO INTRODUCE NEW COLD CASE UNIT

Article from BBC News Website

A special "cold case" unit is to be set up to tackle Scotland's unsolved murders and other serious crimes.

Lord Advocate Frank Mulholland said the specialist unit would review unsolved cases to identify those which merit a fresh investigation. New forensic techniques, including DNA, improved ballistics and fingerprint databases will be used. Mr Mullholland said: "Justice will pursue down the years those who have so far evaded detection for their crimes." He added: "The passage of time should be no protection.

"We will not give up and will seek to identify the perpetrator using new forensic and other investigation techniques and prosecute them for their crimes. "No-one should escape the consequences of their criminality and the grief this brings to victims and their families."

He said the new unit would work with local prosecutors and the police to identify unsolved murders for renewed investigation.

Mr Mulholland highlighted the conviction last month of Malcolm Webster who murdered his wife in 1994. He said: "Malcolm Webster was convicted for the murder of his wife which he committed 17 years ago, a crime for which he believed he had escaped punishment. "I do hope that such convictions and our determination to pursue criminals provides some reassurance and comfort to the family and friends of the victim."

Strathclyde Police are now reviewing the murder of Elaine Doyle in Greenock 25 years ago, when Mr Mulholland was a prosecutor in Greenock. Mr Mulholland said: "Elaine was brutally murdered in Greenock 25 years ago today. "I well remember the case and its impact on the local community and indeed across central Scotland.

To read the full article go to <http://www.bbc.co.uk/news/uk-scotland-13627268>

CALLS FOR SOUTH AFRICAN DNA DATABASE AMID INCREASE OF RAPE CASES

Chris Asplen has recently written an article on the need for a DNA database in South Africa due to the high number of rape cases in the country. Dnaproject.co.za has put his article online along with other editorials on this issue.

<http://dnaproject.co.za/blog/take-a-look-at-how-our-mps-are-viewed-from-abroad>

<http://dnaproject.co.za/blog/category/latest-news>

RUSSIAN FORENSIC EXPERTS CRACK APPLE'S IOS 4 ENCRYPTION

Forensic experts in Russia have managed to circumvent Apple's IOS software. Vladimir Katlov of Elcomsoft, who was part of the team who cracked both the on-device data protection and backup file encryption, has said that the company's Phone Password Breaker not only unlocks Apple backups but also Blackberry backups.

Speaking to a reporter Vladimir said, "Decryption is not possible without having access to the actual device because we need to obtain the encryption keys that are stored in (or computed by) the device and are not dumped or stored during typical physical acquisition."

NIGERIAN FORENSIC EXPERTS TO BE GIVEN ACCESS TO ELECTION MATERIALS

Article from indepthafrica.com

Nigeria's Independent National Electoral Commission (INEC) has said it would ensure that election materials are made accessible for forensic inspection as might be ordered by any election tribunal.

For the full article go to <http://indepthafrica.com/news/westafrica/nigerias-electoral-body-assures-forensic-experts-access-to-election-materials/>

http://www.evidencepartnership.com/ultratec_22.html

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