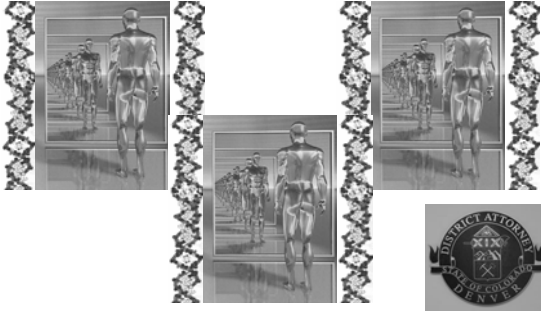


Familial DNA Search Investigations



Mitch Morrissey - Denver District Attorney

Familial DNA Database Searches

- Investigators use the DNA database to search for near matches to solve crimes committed by relatives of the people in the database.
- Siblings, and parents can be linked to crimes because their relative's DNA closely resembles DNA found at a crime scene.



Policy Consideration - Why These Investigations are Important?

- DNA evidence is found in the most violent crimes... Murders, Sexual Assaults, Sexual Assaults on Children.
- 90% of the victims of crimes where DNA evidence is critical are women.
- The next largest percentage of victims are children.



Policy Consideration - Why These Investigations are Important?

- Important in solving cases and exonerating the innocent.



Familial DNA Searches in the UK

- In Great Britain, at present Familial DNA intelligence packages have been produced for 157 specific serious crime investigations.
- Confined to 'cold case reviews' and 'hard to solve' serious crime investigations.



Perpetrators Identified by Familial Investigations



Joseph Kappen



Craig Harman



James Lloyd



Tahir Mahmood



James Ben Davies



Jason Thomas Ward

Perpetrators Identified by Familial Investigations



Graham Darbyshire



Christopher Downes



Geoffrey Godfrey



Russell Bradbury



Daniel Alderson



Jeffrey Gafoor

Perpetrators Identified by Familial Investigations



Dale Burrows

6 - Murders
25 - Rapes
2 - Child
Abandonments



Derek Young



David Newton



Ian O'Callaghan



Bronagh Bond

Familial DNA Investigation After An Exoneration

- In 1988, Lynette White was brutally murdered.
- In 1990, three men were wrongfully convicted of the murder and spent 4 years in prison.
- A familial search of DNA from the scene lead to the real killer.



Cardiff Three

Kinship Analysis

- A murder went unsolved for 15 years.
- Then British authorities ran the DNA profile through their database.
- The DNA profile of a 14-year-old boy was close.
- The boy's uncle matched exactly.
- When questioned, the uncle admitted to the murder.



Jeffrey Gafoor

Perfect Post-Conviction Case for a Familial Investigation

- In 1995 Ott was convicted of murdering a 16 year-old, based on the testimony of a man who said he saw Ott cut the victim's throat.
- DNA testing in 2007 showed that semen found on the victim was from an unidentified man who had also left DNA in a 1997 murder and 2007 murder.
- Prosecutors in Milwaukee County did not oppose Ott's release for the 1995 case and requested six months to determine whether to try him again.



Chaunte Ott

Denver's DNA Human ID Research - Familial Searches

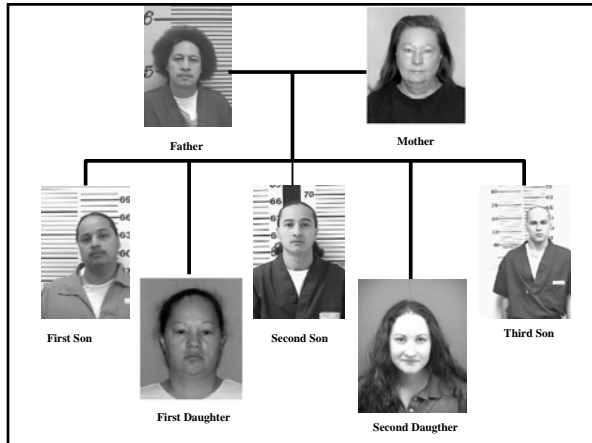
- Searched all unknowns (900) against Denver's DNA database (1700).
- Used Dr. Brenner's DNA-VIEW software (Disaster module).
- In three separate cases there was a 90% chance that two individuals were related.
- Y-STR DNA testing showed that the individuals had the same Y-DNA type.

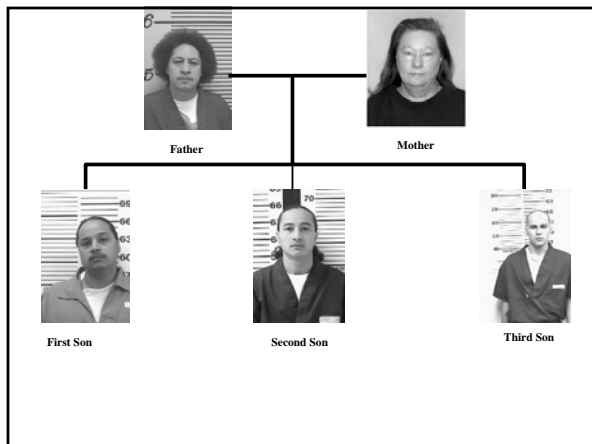


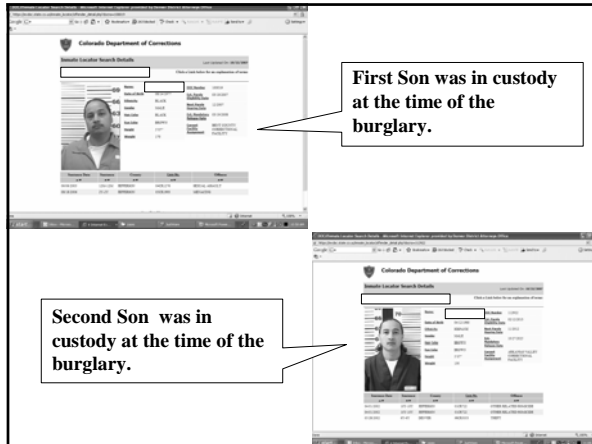
Denver DNA Database Familial Searches

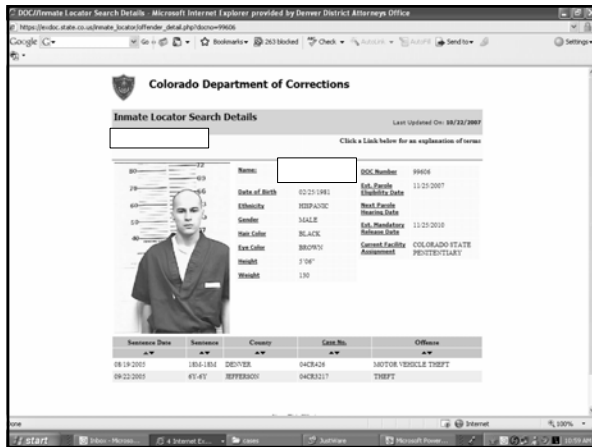
- A 90% chance that a DNA profile in an unsolved burglary came from a male offspring of a known sample.
- The father was in the DNA database for a 2002 aggravated assault.
- Y-STR DNA types matched.











Colorado's DNA Human ID Research - Familial Searches

- A search all forensic unknowns against state DNA database has been completed (about 2,000 against 80,000).
- Used DNA-VIEW software.
- We obtained 13 separate cases where there is a 90% chance that two individuals are related.
- We obtained 15 separate cases where there is a 75% chance that two individuals are related.

Colorado's DNA Human ID Research - Familial Searches

- We ran Y-STR testing on 6 male pairs where there was at least a 75% chance that two individuals are related.
- All 6 male pairs had the same Y-STR types.
- We will obtain the name of the offender in the database and conduct a conventional investigation.

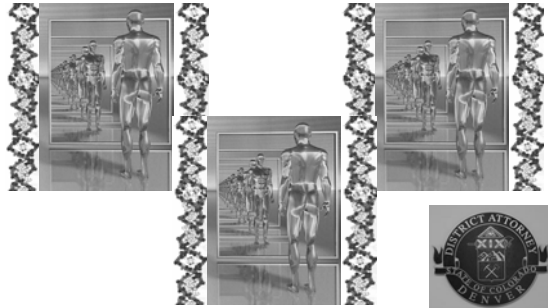


Colorado's DNA Human ID Research - Familial Searches

- There were 9 pairs with one or more female profiles where there was at least a 75% chance that two individuals are related.
- We will obtain the name of the offender in the database and conduct a conventional investigation.



Familial DNA Search Investigations



Mitch Morrissey - Denver District Attorney
