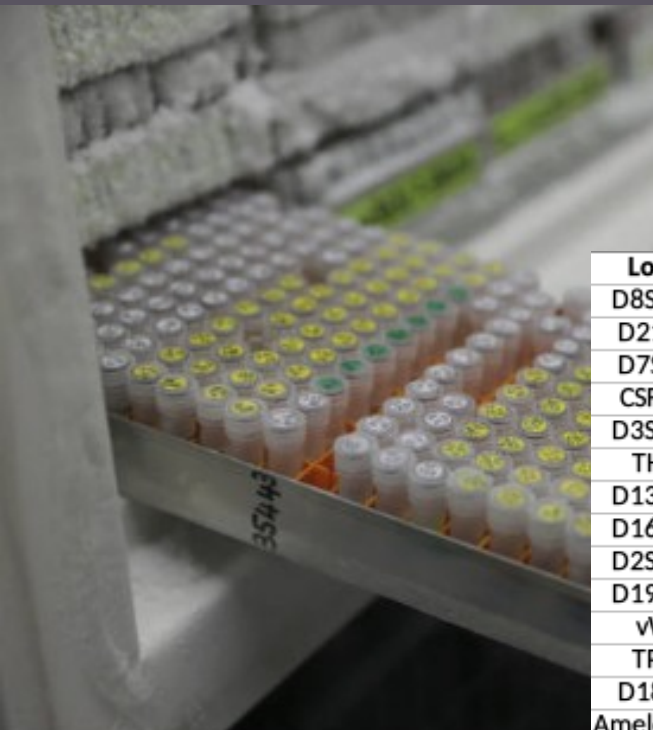Digital
Techne

DIGITALTECHNE MVP
MAY 21, 2024

Basic Roles

- Laboratory:
  - Create DNA Cartridge
  - Insert the DNA analysis (both xls and pdf) in BlockChain
- Artwork Owner:
  - create the opera folder in BC
  - Purchase cartridges
  - Place DNA ink on the artwork
  - Insert Dna data in blockchain (cartridge identifier and ink position on the artwork)
- Artwork Stakeholder:
  - DNA verify (analysis of the swab and ink position are checked against the Blockchain record)

Laboratory: Create Cartridge, Analyze, Load in BC

Locus	Alleli
D8S1179	8, 9 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
D21S11	◄4.2, 25, 26, 27, 28, 28.2, 29, 29.2, 30, 30.2, 31, 31.2, 32, 32.2, 33, 33.2, 34, 34.2, 35, 35.2, 36, 3►
D7S820	6, 7, 8, 9, 10, 11, 12, 13, 14, 15
CSF1PO	6, 7, 8, 9, 10, 11, 12, 13, 14, 15
D3S1358	12, 13, 14, 15, 16, 17, 18, 19
TH01	4, 5, 6, 7, 8, 9, 9.3, 10, 11, 13.3
D13S317	8, 9, 10, 11, 12, 13, 14, 15
D16S539	5, 8, 9, 10, 11, 12,13, 14, 15
D2S1338	15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
D19S433	9, 10, 11, 12, 12.2, 13, 13.2, 14, 14.2, 15, 15.2, 16, 16.2, 17, 17.2
vWA	11,12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24
TPOX	6, 7, 8, 9, 10, 11, 12, 13
D18S51	7, 9, 10, 10.2, 11, 12, 13, 13.2, 14, 14.2, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 2►
Amelogenin	X, Y
D5S818	7, 8, 9, 10, 11, 12, 13, 14, 15, 16
FGA	◄, 22, 23, 24, 25, 26, 26.2, 27, 28, 29, 30, 30.2, 31.2, 32.2, 33.2, 42.2, 43.2, 44.2, 45.2, 46.2►

Register a DNA Cartridge

DNA Record (XLS) * [Scegli file] Loci, alleli ed esempio.xlsx

Optional DNA Record (PDF) [Upload file]

note

[INSERT]

Owner: Create Archive, documents and images

Register the mark on the artwork

DNA Code

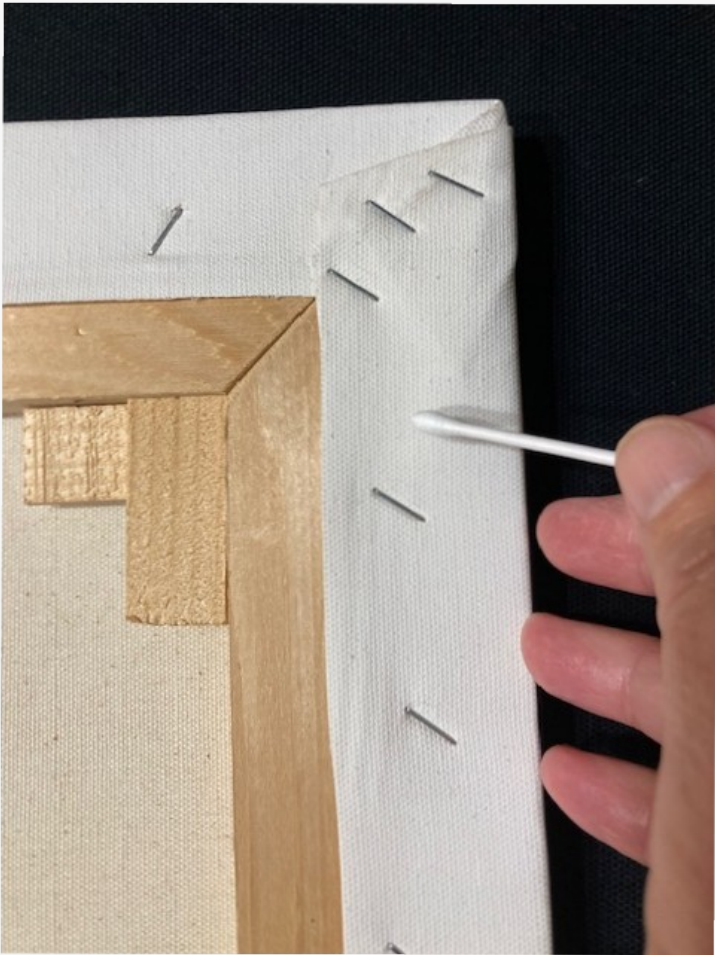mark_dull_code
38ccb00b-c752-4257-bc3e-16b...

Mark Side

mark_side
frame ✕

Mark Position

mark_position
bottom_right

INSERISCI

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Verify Authenticity: Pick the DNA with a swab and analyze it

	A	B
1	Locus	Alleli
2	D8S1179	8, 9 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
3	D21S11	24, 24.2, 25, 26, 27, 28, 28.2, 29, 29.2, 30, 30.2, 31, 31.2, 32, 32.2, 33, 33.2, 34, 34.2, 35, 35.2, 36, 37, 38
4	D7S820	6, 7, 8, 9, 10, 11, 12, 13, 14, 15
5	CSF1PO	6, 7, 8, 9, 10, 11, 12, 13, 14, 15
6	D3S1358	12, 13, 14, 15, 16, 17, 18, 19
7	TH01	4, 5, 6, 7, 8, 9, 9.3, 10, 11, 13.3
8	D13S317	8, 9, 10, 11, 12, 13, 14, 15
9	D16S539	5, 8, 9, 10, 11, 12, 13, 14, 15
10	D2S1338	15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
11	D19S433	9, 10, 11, 12, 12.2, 13, 13.2, 14, 14.2, 15, 15.2, 16, 16.2, 17, 17.2
12	vWA	11,12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24
13	TPOX	6, 7, 8, 9, 10, 11, 12, 13
14	D18S51	7, 9, 10, 10.2, 11, 12, 13, 13.2, 14, 14.2, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27
15	Amelogenin	X, Y
16	D5S818	7, 8, 9, 10, 11, 12, 13, 14, 15, 16
17	FGA	17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 26.2, 27, 28, 29, 30, 30.2, 31.2, 32.2, 33.2, 42.2, 43.2, 44.2, 45.2, 46.2, 47.2, 48.2

Verify: Compare analysis with DNA in BC

MVP Architecure

MVP in mainnet:
https://way7l-iqaaa-aaaan-qmfoa-
cai.icp0.io/