



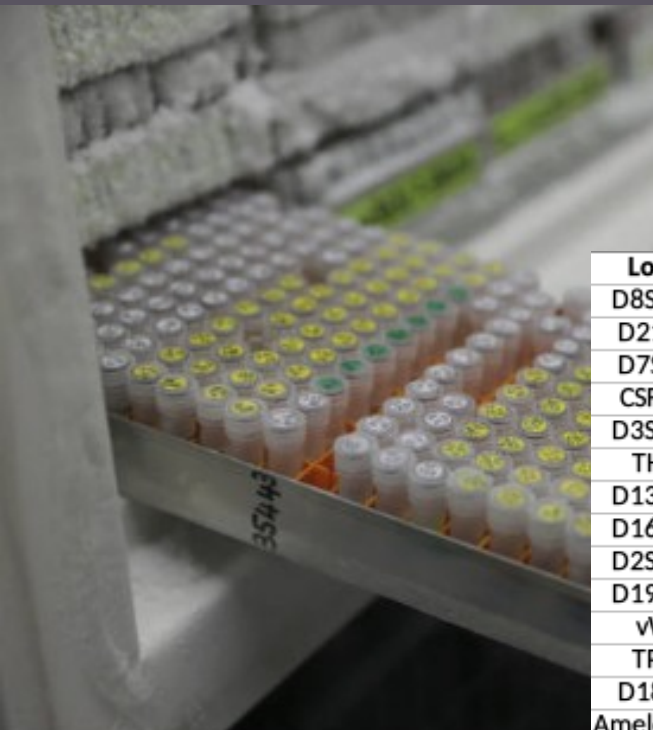
DIGITALTECHNE MVP

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, 37
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, 27
Amelogenin	X, Y
D5S818	7, 8, 9, 10, 11, 12, 13, 14, 15, 16
FGA	4, 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



Dossier

Personal Files


Opera Image	Owner	Author	Work Name	Opera type	Opera Location	Private	Nft Id	DNA mark present
	Roberto Pirrone	Henri de Toulou...	Ballo al Moulin ...	CANVASS	Albi, Musée To...	true		✗
Rows per page: 100 1-1 of 1 < >								

ADD AN OPERA DOSSIER

Public Dossiers




Opera Image	Owner	Author	Work Name	Opera type	Opera Location	Private	Nft Id	DNA mark present
	Roberto Pirrone	Henri de Toulou...	Au salon de la R...	PAPER	a	false		✓
	Roberto Pirrone	Henri de Toulou...	Divan Japonais	PAPER	a	false		✓

Dossier Detail

Image	
Id	1
Owner	2vxsx-fae
Name of the work	Au salon de la Roue des Moulins
Author	Henri de Toulouse Lautrec
Opera type	CANVASS
Support Type	
Opera Location	Albi, Musée Toulouse-Lautrec
Reserved	
DNA mark present	✓

VERIFY DNA MARK

Documents

Opera Image	Author	Document Type	Title	File name	Type
	Helmut Newton	image	Au salon Sepia	Au_salon_sepia80.jpg	image/jpeg
	Federico Zeri	condition report	Opera conditions	Au_salon_attribution.pdf	application/pdf
	Original Owner	certificate of ownership	Purchase document	Au_salon_attribution.pdf	application/pdf

Owner, using the Signature Kit: put the genetic ink on the opera and in BC



Register the mark on the artwork



DNA Code

mark_dull_code

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

Mark Side

mark_side

frame

Mark Position

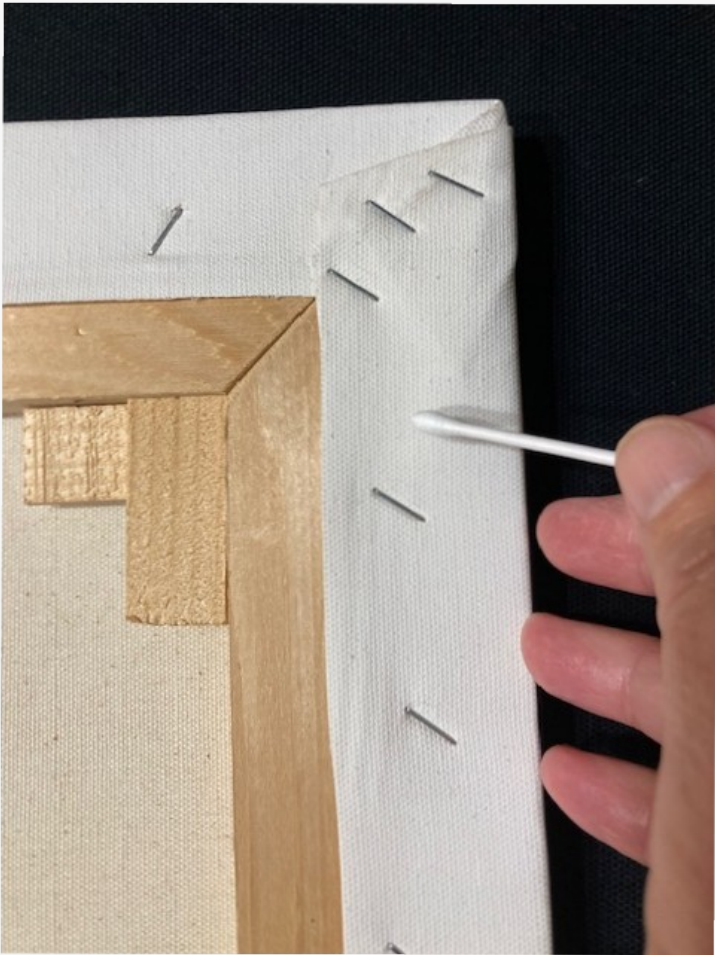
mark_position

bottom_right

INSERISCI





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




Calibri 12 pt B I U A		
M8 fx X ✓ \$		
	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



Verify DNA Mark



DNA data

DNA Record (XLS) *

Side

Ink placement

VERIFY

Scegli file Loci.xlsx

mark_side
back

mark_position
top_left

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```
{
  Locus: "Amelogenin",
  - Alleli: "X, Y",
  + Alleli: "X, Y,Z",
  Esempio di un profilo DNA: "X,Y"
},
{
  Locus: "D5S818",
  - Alleli: "7, 8, 9, 10, 11, 12, 13, 14, 15, 16",
  + Alleli: "7, 8, 9, 10, 11, 12, 13, 14, 15, 17",
  Esempio di un profilo DNA: "12.15"
},
{
  - mark_location: "front bottom_right",
  + mark_location: "front top_left"
}
```


MVP Architecture

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

