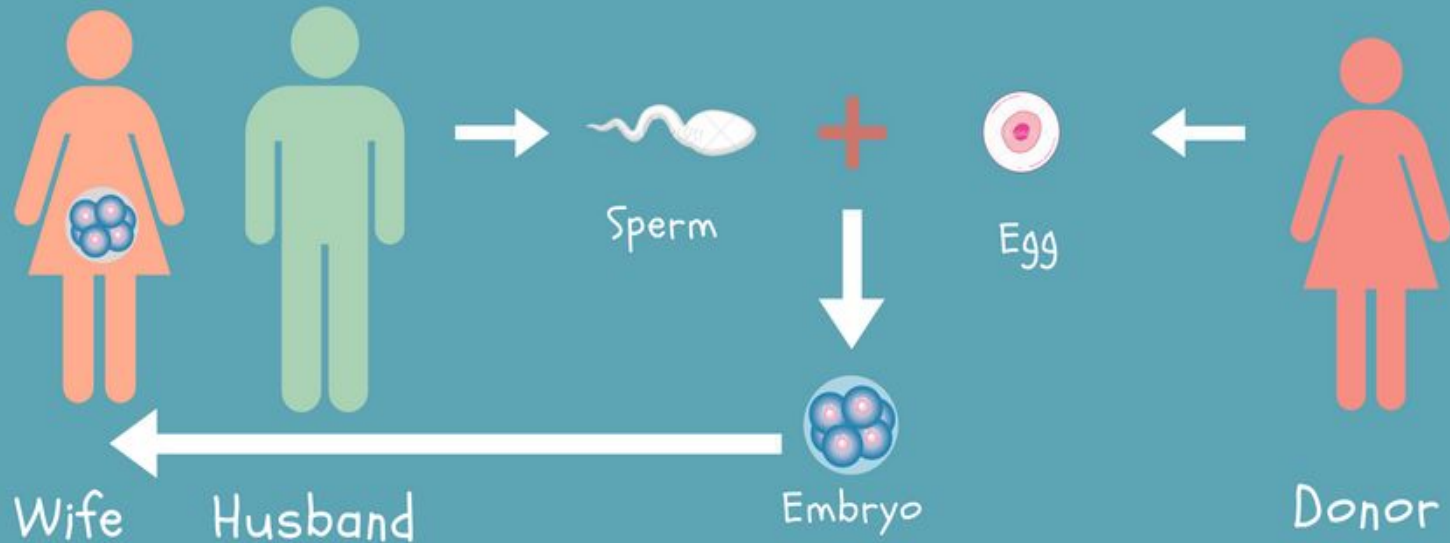
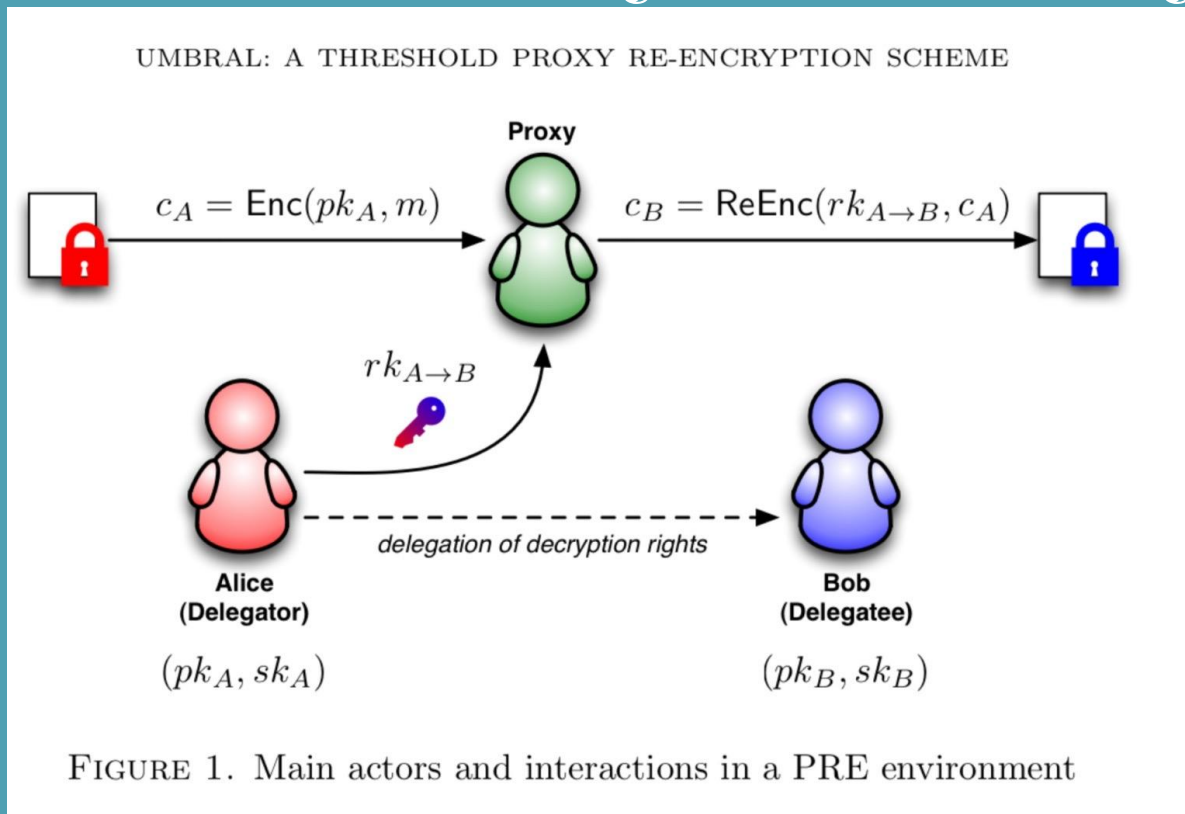


Egg Donation Process



Threshold Proxy Re-Encryption



CypherBabies



Meet Olaf & his wife Miranda



Ovarian
Failure



Advanced
age



Avoid transmission
of hereditary
diseases

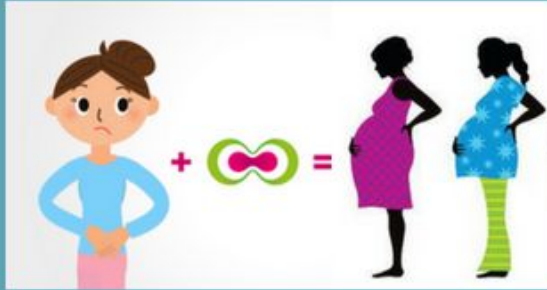


Failures to
conceive
after IVF

Meet GisAlice



Anonymous
donors



IVF programs -
Egg sharing



Known donors

GisAlice's Medical Data

label: medical_Data



Medical
History



Clinical
exam



Gynecological
exam



Psychometric
test



Laboratory
testing



Certain genetic
tests



Karyotype

Gisele's purpose



Unicef Ambassador

United Nations Goodwill Ambassador

Causes she advocates for:

- Universal access to energy
- feature documentary that explores the impact of a child's early environment on their cognitive, social and emotional development,
- Wild Life Campaign against animal trafficking



Thank you Giselice !

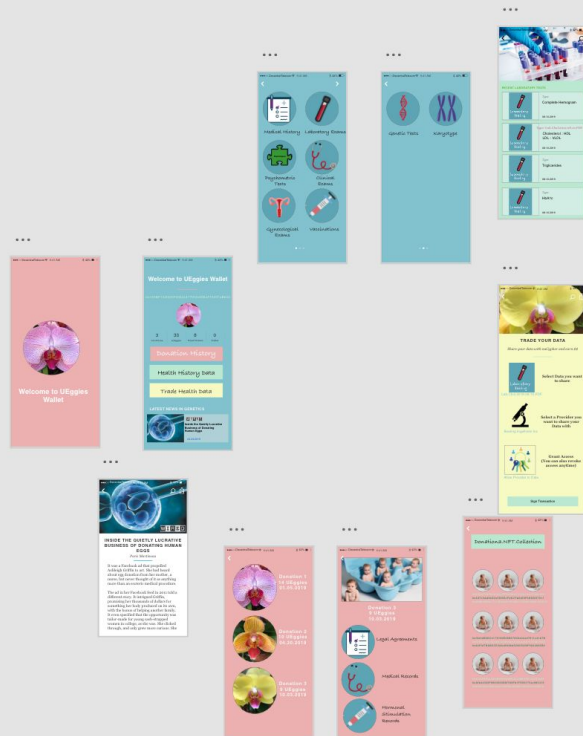


ASSETS +

All Assets

Colors +

- #F8FAC4
- #EDB0B0
- #707070
- #C4C4C4
- #81C2CE
- #254F6E
- #343434
- #484848
- #2C2C2C
- #FFFFFF
- #BAE8D1
- #FBF7FF
- #353535
- #000000



Repeat Grid

W 0 X 0
H 0 Y 0

RESPONSIVE RESIZE

APPEARANCE

0%

A lot of hardwork with nuCypher / IPython

```
In [6]: gisalice
```

```
Out[6]: 'http://localhost:8151'
```

```
In [7]: derivation_response = requests.post(f"{gisalice}/derive_policy_pubkeys/lab_...: _exams")
```

```
-----  
NameError
```

```
Traceback (most recent call last)
```

```
<ipython-input-7-b2b2fe595337> in <module>
```

```
----> 1 derivation_response = requests.post(f"{gisalice}/derive_policy_pubkeys/lab_exams")
```

```
NameError: name 'requests' is not defined
```

```
In [8]: derivation_response = request.post(f"{gisalice}/derive_policy_pubkeys/lab_...: exams")
```

```
[-----  
NameError
```


```
Traceback (most recent call last)
```

```
<ipython-input-8-4afbc9ffb86c> in <module>
```


```
----> 1 derivation_response = request.post(f"{gisalice}/derive_policy_pubkeys/lab_exams")
```

```
[NameError: name 'request' is not defined
```

Data lives inside IPFS now



PIN EXPLORER



Hash Contains

Characters in Hash...

Name Contains

Characters in Name...

Pin Status

Pinned

Pin Date Range

Start date

End date

Unpin Date Range

Start date

End date

Update Filter

Total Pins: 1
Total Size: 195.2 KB

Date Pinned	Date Unpinned	Name	IPFS Hash	Size	
2019-11-09T16:49:59.918Z	Currently Pinned	Lab.Chol.2019.08.10.pdf	QmTLA69jDBQRP6QDa3qgQbyby1ExNx69bYbKb6rsrXvthE	195.2 KB	...

< 1 >

nuc | Wor | Cyp | Cyp | Cyp | Prev | SAC | (6) | cyg | Rev | Pin | Pin | Pin | X | Rer | Epo | Bou | Dev | itse

gateway.pinata.cloud/ipfs/QmTLA69jDBQRP6QDa3qgQbyby1ExNx69bYbKb6rsrXvthE

Apps | It's Encrypted! - Y... | GraphQL | C# | Google Drive | AWS Training & C... | Gym Waterloo | APIs | nuCypher | Fortmatic | DFuse

IPFS

Index of /ipfs/QmTLA69jDBQRP6QDa3qgQbyby1ExNx69bYbKb6rsrXvthE

..

Lab.Chol.2019.08.10.pdf195 kB

Deployment of 9 ERC721 at Goerli

The screenshot displays the Remix IDE interface with the following components:

- Top Bar:** Shows the URL `remix.ethereum.org/#optimize=false&evmVersion=null&version=soljson-v0.5.5+commit.47a71e8f.js&appVersion=0.8.0`.
- Left Panel (Deploy & Run Transactions):**
 - Deployed Contracts:** A list of 9 ERC721 contracts deployed at various addresses on the blockchain, each with a delete icon.
 - Transactions recorded:** A section for recording transactions.
- Main Editor:** Displays the `ERC721.sol` contract code. The code includes a `safeTransferFrom` function and a `safeTransferFrom` function call.
- Bottom Panel (Logs):** Shows the execution logs, including the constructor call and the `safeTransferFrom` function call. The logs indicate that the contract was successfully deployed and the transfer was pending.

Each NFT instantiates with different times and uEggies IDs

DEPLOY & RUN TRANSACTIONS

safeTransferFrom address from, address to, uint256

setApprovalFor... address to, bool approved

transferFrom address from, address to, uint256

balanceOf address owner

clinicName

donationCollection

donationDate

0: uint256: 1570643906

donorAge

getApproved uint256 tokenId

isApprovedForAll address owner, address operator

ownerOf uint256 tokenId

supportsInterface bytes4 interfaceId

ueggield

0: uint256: 32

Convert epoch to human-readable date and vice versa

1573321886 [Timestamp to Human date](#) [\[batch convert\]](#)

Supports Unix timestamps in seconds, milliseconds, microseconds and nanoseconds.

Yr Mon Day Hr Min Sec

2019 - 10 - 9 17 : 58 : 26 GMT [Human date to Timestamp](#)

Epoch timestamp: 1570643906

Timestamp in milliseconds: 1570643906000

Date and time (GMT): Wednesday, 9 October 2019 17:58:26

Date and time (your time zone): Wednesday, 9 October 2019 13:58:26 GMT-04:00

Deployment of 9 ERC721 at Goerli - gas costs

Goerli Test Network

GisAlice Görli → New Contract

CONTRACT DEPLOYMENT

0

DETAILS DATA

GAS FEE

0.001622

No Conversion Rate Available

TOTAL

0.001622

No Conversion Rate Available

Reject Confirm

0 listen on network Search with transaction hash or address

CALL

[call] from:0x134bf142f525f3383c4770f2e95eef74307abb24 to:ERC721.ueggieId() data:0x9fa...1aef7

Debug

call to ERC721.donationDate

CALL

[call] from:0x134bf142f525f3383c4770f2e95eef74307abb24 to:ERC721.donationDate() data:0x103...73577

Debug

ERC721 pending...

The screenshot shows the ENS website interface. The browser's address bar displays `app.ens.domains/name/cypherbabies.itsencrypted.eth`. The ENS logo is in the top left, followed by a search bar with the placeholder text "Search names or addresses" and a "Search" button. On the left sidebar, there is a profile for "ueggie25.cyph..." with a uEggie icon, a "Goerli Network" tag, and links for "Favourites" and "About". A blue arrow points to the uEggie icon. The main content area displays the domain "cypherbabies.itsencrypted.eth" with tabs for "Controller", "Details", and "Subdomains". Below this, a banner says "Learn how to manage your name." with an information icon and a right arrow. The domain details are listed as follows:

Field	Value	Action
PARENT	itsencrypted.eth	
CONTROLLER	0x134BF142f525F3383c4770f2e95EeF74307aBb24	<button>Set</button>
RESOLVER	0xfF77b96d6bafCec0D684bB528b22e0Ab09C70663	<button>Set</button>

Usage of ENS for each uEggie to have a “human readable” name instead of an ETH address



Search names or addresses

Search



ueggie25.cyph...

• Goerli Network



Favourites



About

ueggie25.cypherbabies.itsencrypted.eth

Controller



Details

Subdomains



Learn how to manage your name.



PARENT

cypherbabies.itsencrypted.eth

CONTROLLER



0x134BF142f525F3383c4770f2e95EeF74307aBb24

Set

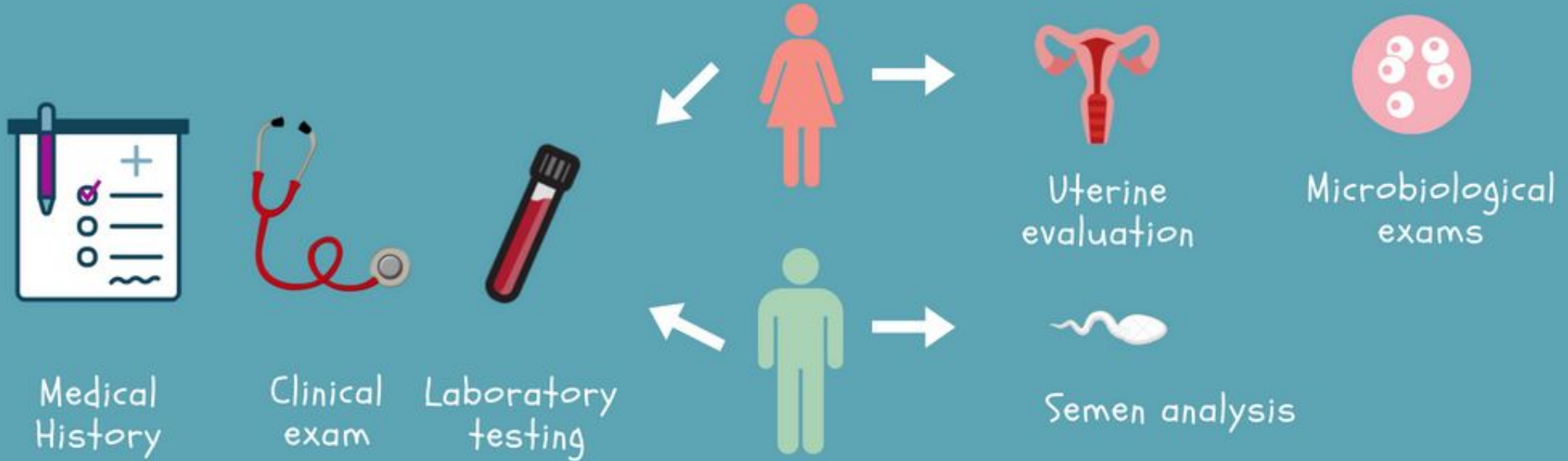
RESOLVER



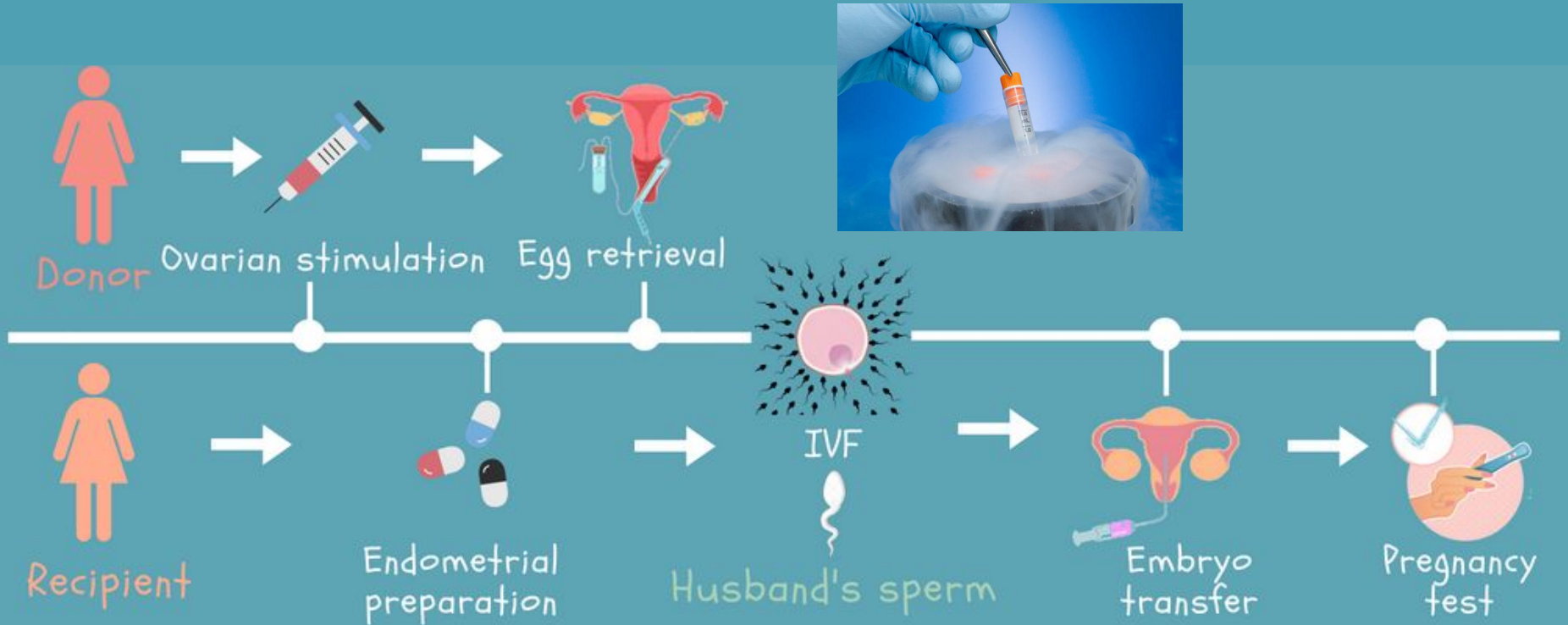
0xF77b96d6bafCec0D684bB528b22e0Ab09C70663

Set

Recipient Couple



The Procedure



NFTS

UEggies Wallet: one part dedicated to the NFTs and (PINK BUTTON)

Medical Data

another with medical history, genetic information, psychometric tests and other sensitive data that needs an extra layer of encryption to protect the access. (BLUE BUTTON)

Trade

and this information can be shared/commercialized with 3rd parties (YELLOW AREA)

GisAlice is 23 years old

Collect the genetic material: uEggies, leaves the Fertility Clinic with an equivalent number of Smart Contracts (NFTs) and has full ownership and control of her digital certificates

Confirmation of Donor Address (from Open Zeppelin's `_tokenOwner = _donor`)

Simetric key in the capsule to encrypt all the metadata: used to encrypt the keys of all the egg collection metadata.