



BioLoMICS Genebank

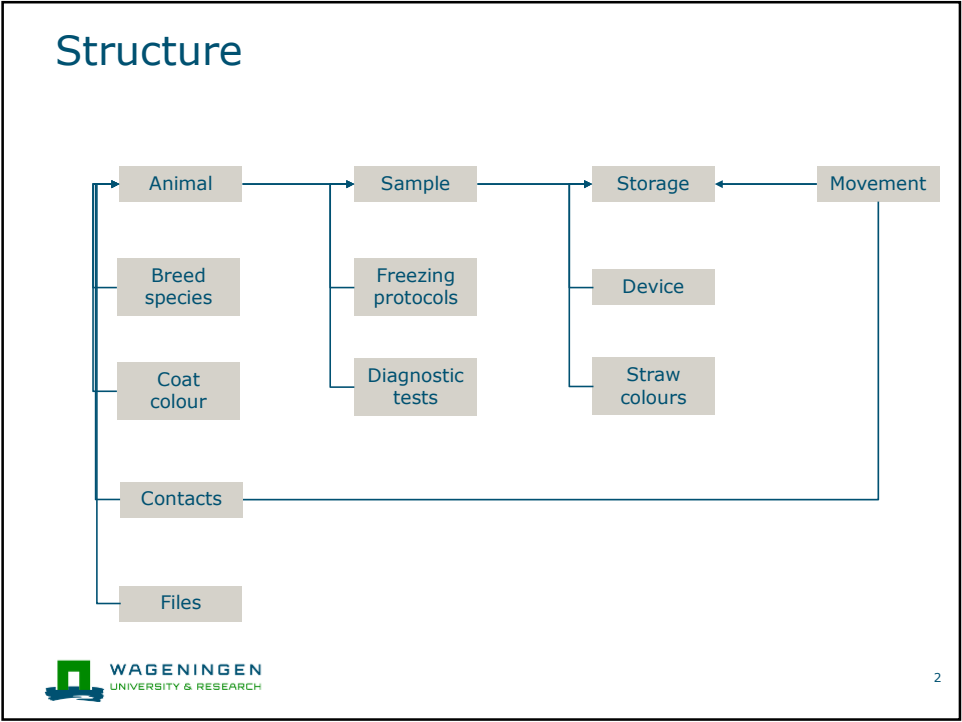
TF database software, ex-situ working group

6-7th of May 2025

Mira Schoon, Ina Hulsegge, Annemieke Rattink

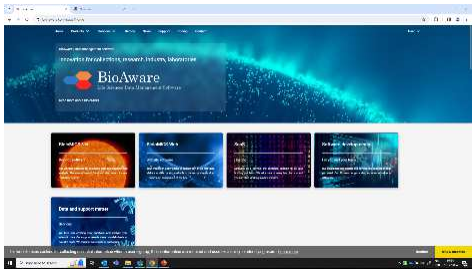


1




2

BioAware / BioloMICS



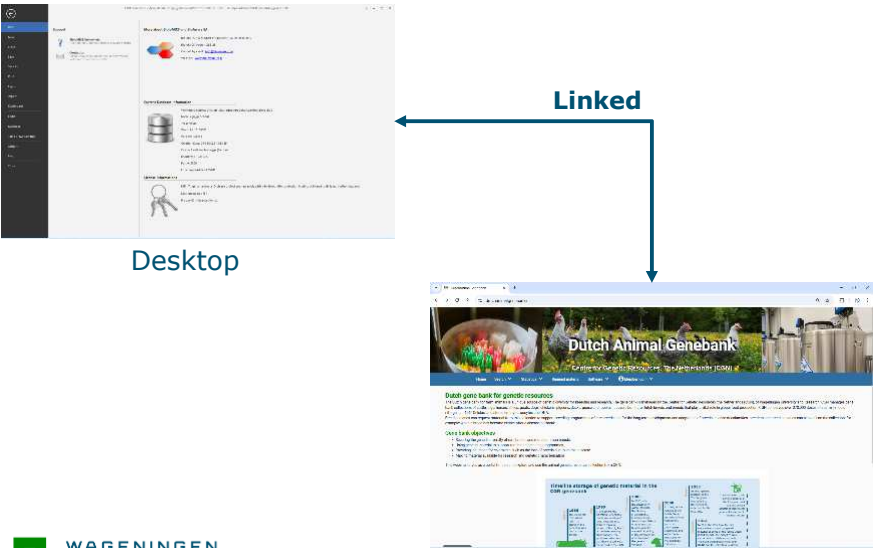
- BioloMICS is a software application that has been designed to allow to:
 - Store
 - Manage
 - Analysis
 - Publish (to the web)
 - ... biological data

 **WAGENINGEN**
UNIVERSITY & RESEARCH

3


3

Two levels of operation



Desktop

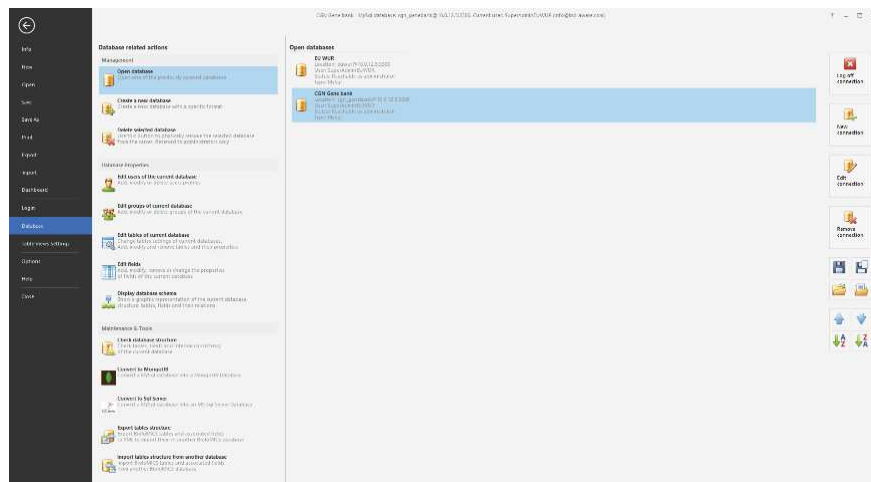
Website

 **WAGENINGEN**
UNIVERSITY & RESEARCH

4

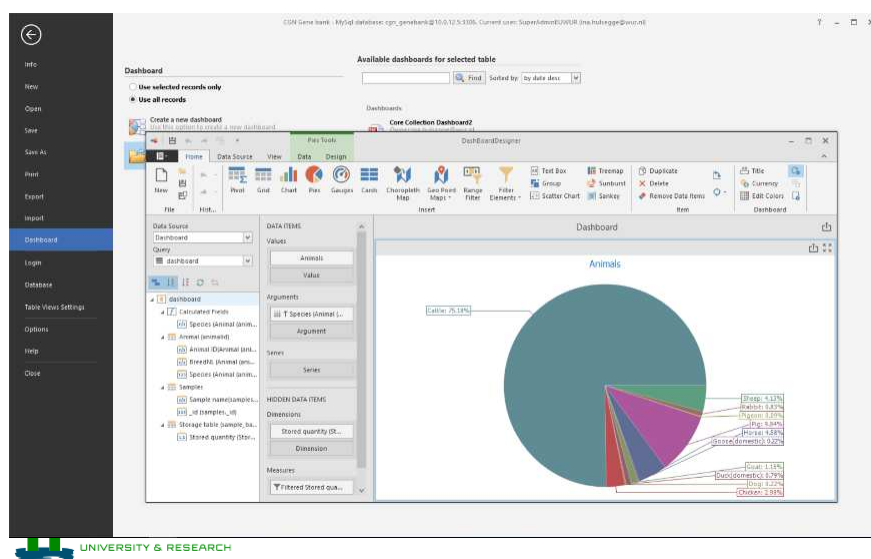
4

Database (desktop)



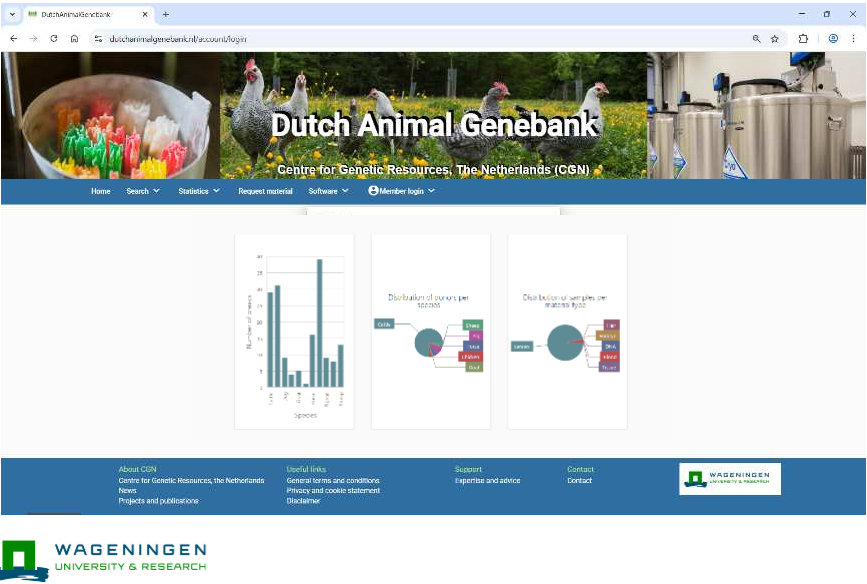
5

Create a dashboard



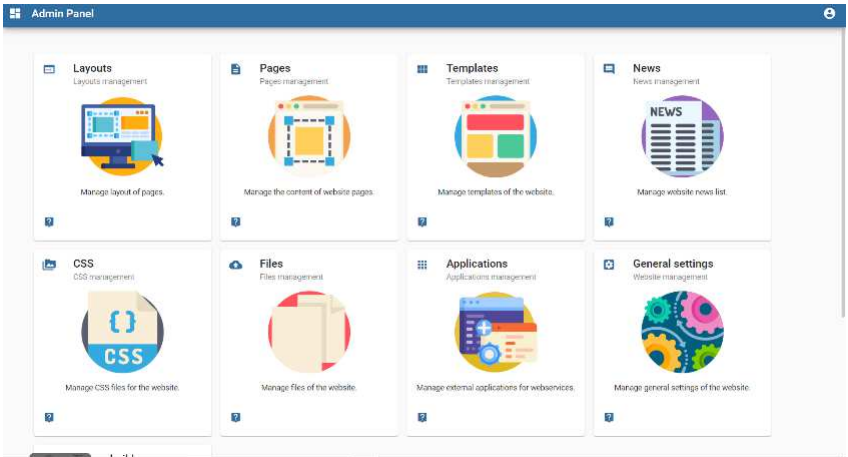
6

Link dashboard to website



7

Website version (personalisation website)



Managing the look and feel of the website and allow visitors to search in the dataset, deposit data and much more.

8

8

Template search an animal

9

Template search an animal

DutchAnimalGeneBank

DutchAnimalGeneBank.nl/page/Search/Specific/Animal

Dutch Animal Genebank

Centre for Genetic Resources, The Netherlands (CGM)

Home Web management Search Statistics Request material Software DAQdb Reports Member login NL

Search

Q0

Animals

Animal ID

Q1

And

Animal name

Contains

Contains

Animal ID

Animal name

Price

Reset

Search

Search result animals

Animal name Contains Fries

Wageningen
Animal ID (+3 others) Items per page: 10 1 - 7 of 7

Animal ID	Animal name	Species	Breed(s)
1 NL 175320066	DELTA FRITS	Catfish	Huisden Friesen (Black and white)
2 NL 161548891	MINKA S'PROETS	Catfish	Groninger Witte / Hooded
3 NL 135891041	ITALIE'S FIRTS	Catfish	Groninger Witte-Hooded

10

Template search an animal

The screenshot shows the Dutch Animal Genebank website. The header includes the logo and navigation links: Home, Web management, Search, Statistics, Request material, Software, DAGs, Reports, Member login, and NL. The main content area features a search form with fields for Q0 (Animal ID), Q1 (Animal name), and Q2 (Animal name). A dropdown menu is open for Q0, showing a list of animals. The selected animal is NL 175320066, with details: Animal ID: NL 175320066, Animal name: DELTA FRITS, Breed: Holstein Friesian (black and white), Fraction: B, Colour: Zwartbont, and Birth date: 24/02/1997. The search results table below shows a list of animals with columns for Animal ID, Animal name, Species, and Breed.

Animal ID	Animal name	Species	Breed
NL 175320066	DELTA FRITS	Cattle	Holstein Friesian (black and white)
NL 161048891	MINA SHRIS	Cattle	Gezinsgen White-headed
NL 133891041	ITALIE S'FRITS	Cattle	Gezinsgen White-headed

11

Update/delete data

The screenshot shows the CGN Genebank website. The header includes the logo and navigation links: HOME, Search animal(s), CONTACT, NEWS, WEB MANAGEMENT, Statistics, Biometrics, and SuperAdmin/EUWUR. The main content area features a search form with fields for Q0 (Animal ID), Q1 (Animal name), and Q2 (Animal name). A dropdown menu is open for Q0, showing a list of animals. The selected animal is NL 729383058, with details: Animal ID: NL 729383058, Species: Cattle, and Breed: Dutch Friesian. The search results table below shows a list of animals with columns for Animal ID, Species, and Breed.

Animal ID	Species	Breed
NL 729383058	Cattle	Dutch Friesian

12

Update/delete data

Search result

Animal ID Starts with ... NL 700805058

Animal ID

Species

Breed

...

Delete

NL 700805058	Cattle	Dutch Friesian	...	
--------------	--------	----------------	-----	--

Items per page: 10 1 of 1

PAN 253

Animal

Animal ID

Identification

Sex

Breed

Location

Colour

Bulls code

Birth date

Owner name

NL 700805058

NAN 253

Male

Dutch Friesian

...

Black

0805

01/06/1981

K. Jansen

Edit: NL 700805058

Animal

Animal ID

Identification

Sex

Breed

Location

Colour

Bulls code

Birth date

Owner name

NL 700805058

NAN 253

Male

Dutch Friesian

...

Black

0805




01/06/1981

K. Jansen

Export data for EUGENA

DutchAnimalGenebank

DutchAnimalGenebank.nl/pages/eugena



Dutch Animal Genebank

Centre for Genetic Resources, The Netherlands (CGN)

Home

Web management

Search

Statistics

Request material

Software

DMOs

Reports

Member login

NL

Eugena

Dashboard

		Units		Male Breeds		Female Breeds		First collection date	Last collection date	Percentage (%)
Cattle	Belgian Blue	Belgian Blue	Semen	430	15			2003	2017	100
	Belgian Blue milke	Belgian Blue milke	Semen	50	1			2016	2016	100
Belgian Red	Belgian Red	Belgian Red	Semen	40	2			2003	2009	100
	Belgian Red milke	Belgian Red milke	Semen	50	1			2007	2007	100
Belgian White	Belgian White	Belgian White	Semen	50	1			2006	2006	100
	Belgian White milke	Belgian White milke	Semen	50	1			2006	2006	100
Belgian Friesian	Belgian Friesian	Belgian Friesian	Semen	10	2			2000	2006	100
	Belgian Friesian milke	Belgian Friesian milke	Semen	87	4			2006	2014	100

Future additions

- Dutch website version
- Pedigree overview
- Colour system on availability in-situ use
 - Green: enough doses and quality
 - Orange: Low number of doses, uitgifte with good motivation and plan
 - Red: not enough doses or poor quality
- Overview material used for in-situ or research
- Any suggestions?