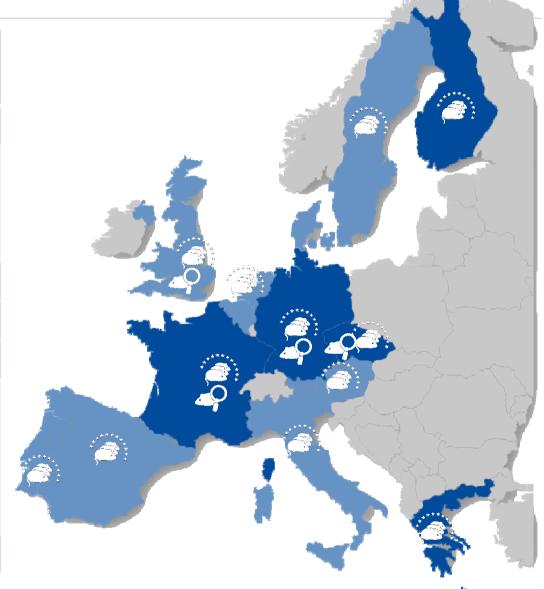


CORBEL/AARC workshop for BMS AAI, Paris 2016

Philipp Gormanns, INFRAFRONTIER GmbH

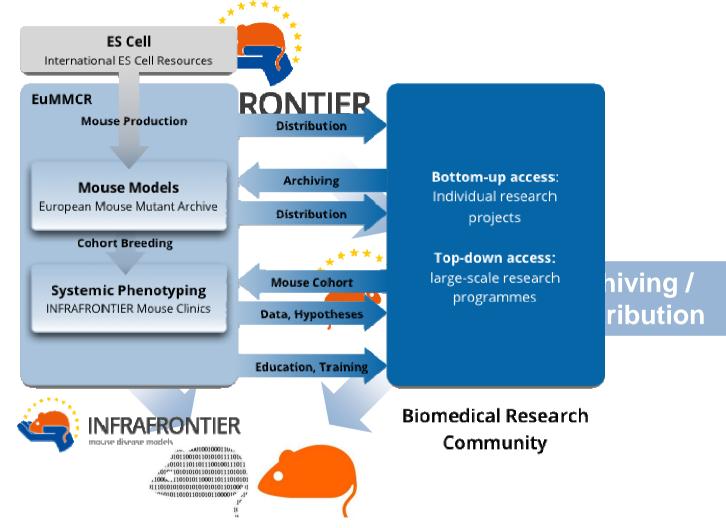


| | EMMA nodes | Mouse clinics |
|----|------------|---------------|
| FI | Yes | |
| SE | Yes | Plan |
| UK | Yes | Yes |
| NL | Yes | |
| DE | Yes | Yes |
| FR | Yes | Yes |
| CZ | Yes | Yes |
| AT | Yes | |
| ES | Yes | |
| PT | Yes | |
| IT | Yes | Constr. |
| GR | Yes | |

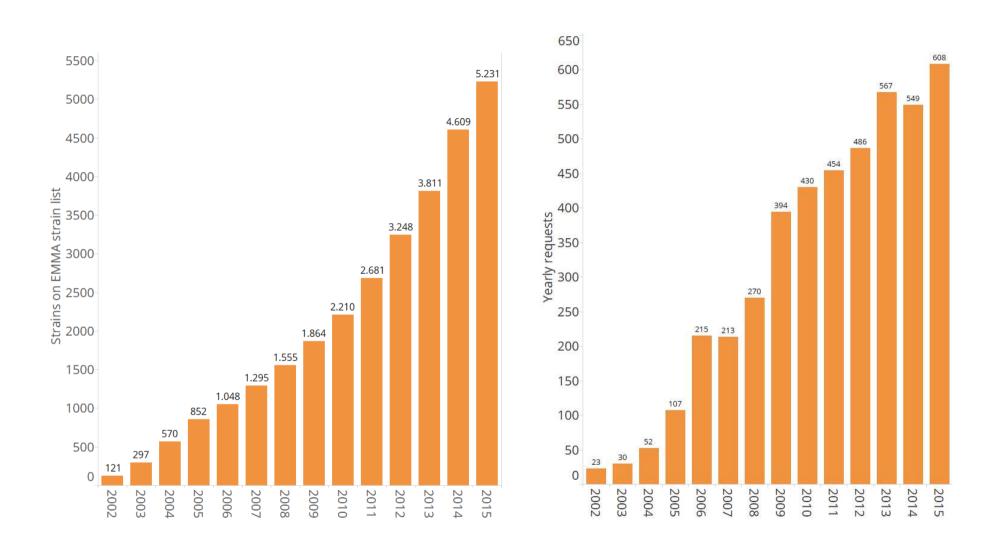


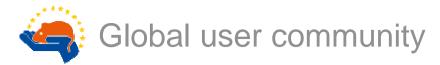
Systemic

Phenotyping



Access to scientific platforms, data and mouse models





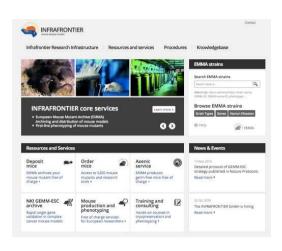


Relevance of IT for INFRAFRONTIER

- User access to samples and data
- Essential for operation (logistics support)

INFRAFRONTIER partners involved

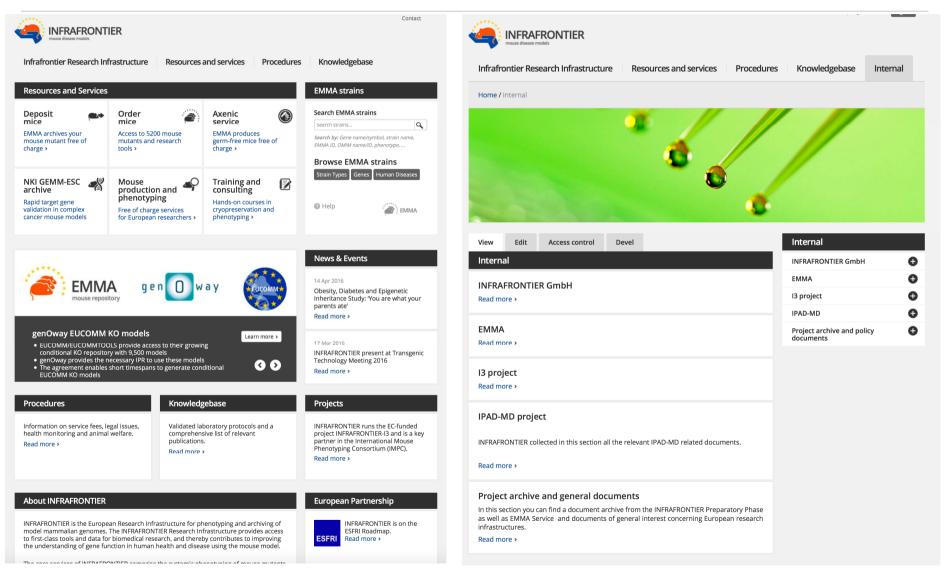
- CNR Monterotondo: Data curation
- EBI => HMGU/INFRAFRONTIER GmbH: IT infrastructure and sustainability
 - ✓ Transfer of all IT components from EBI, Hinxton to INFRAFORNTIER GmbH, Munich
 - ✓ Migration completed and system launch in Munich took place on 26th of April 2016



- 1. Content management system
- 2. Internal interfaces
- 3. External submission form
- 4. Continously data integration
- 5. Public search tools

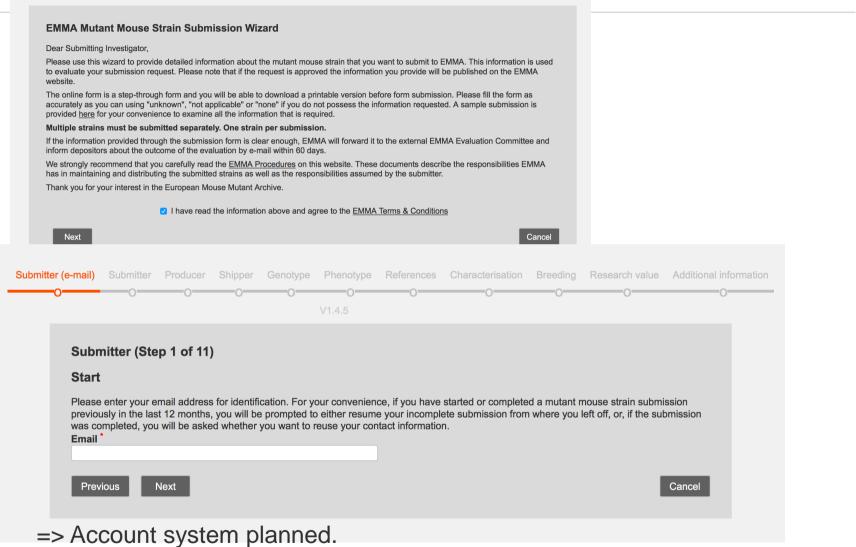


Content management (Users: IT group)





Submission form (User access: External)



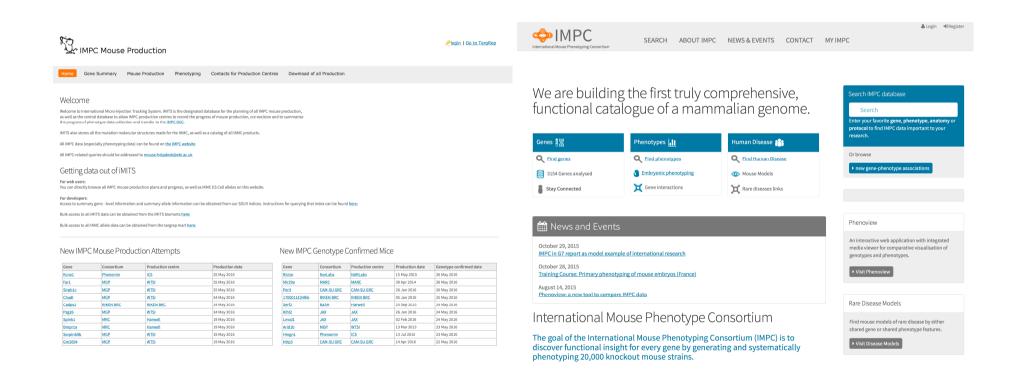


Internal inferfaces (User acces: All EMMA nodes)

| | | ENTRY POINT A | RCHIVE STRAINS | Requests Project Offi | ICE CONTACTS INTERNAL SITE | *** | | |
|---------------------------------------|--|---------------|----------------|--|---|--------------------------------------|-----------------|----------|
| | | *** | | | | *** | | |
| | | | | Curation Interfaces | | | | |
| Strains Search | | | | | | | | |
| EMMA ID text search: | | | | | | | | |
| International strain name: | Please select | | | • | | Strain name text search: | | |
| Common strain name: | Please select | • | | | | Common name text | | |
| | | | | | | search: | | |
| Repository: Strain status: | Please select Please select | | | | | Strain access: Available to order | Please select | ı |
| Suum suuus. | EVAL ACCD | | | | | whilst archiving: | F10030 3010CC | |
| Research tools: | Please select ▼ | | | | | Ddub | Diagon colors | -1 |
| Internal Code: | Please select | | | | | Producer type | Please select | <u>.</u> |
| Internal Code. | Please select | | | | | | | |
| +- Additional Search | ch Filters | | | | | | | |
| Affected gene: | Please select | <u>*</u> | | Affected gene text sea | | | | |
| Phenotype description | : | | | Funding source: | Please select (13-p1) 1st reporting pe | riod of Infrafrontier-I3 WP4 | | |
| | | | | | (I3-p2) 2nd reporting p | eriod of Infrafrontier-I3 WP4 | | |
| Mutation type: Scientists Country: | Please select | | | Mutation subtype: Scientists surname: | Please select <u>▼</u> | 7 | | |
| Contact surname: | Please select | | | MGI Strain ID: | | | | |
| Contact surname: | | | | MGI Strain ID: | | | | |
| +- Date Search Filt | ers | | | | | | | |
| Submitted: | | After: | | | Before: | | | |
| Evaluated: | | After: | | | Before: | | | |
| Mice arrived: | | After: | | | Before: | | | |
| Archiving started: | | After: | | | Before: | | | |
| Archived: | | After: | | | Before: | | | |
| | | | | rch strains Clear search | | | | |
| | | | Sea | rch strains Clear search | | | | |
| | | | | | | | | |
| Requests Search | | | | | | | | |
| EMMA ID text search: | | | | | | Request ID | | |
| International strain na | me: Please select | | | ¥ | | Strain name text search: | | |
| Common strain name: | | | • | _ | | Common strain name: | | |
| Repository: | Please select | | • | | | | Please select 💌 | |
| Registration of interest | t (ROI): | | | | | Country: | Please select | |
| Contacts surname: | | | | | | Scientists surname: | | |
| Research tools: | Please select | • | | | | Projects | Please select | • |
| Funding source: | Please select (UNKN) Unknown source (sTA01) EMMAservice 1st period - TA call 1 | | | | | Requested material: | Please select | |
| TA panel descision: | Please select T | | | | | Application type: | Please select 💌 | |
| EUCOMM/EMMA Shipm | | | | | | | <u></u> | |
| Submitted: | After: | | | | | Before: | | |
| Date of shipment/cand | rellation: After: | | | | | Before: | | |
| bate of ompriority carre | | | | | | | | |



Consuming: IMPC production tracking(User access: All Emma nodes)





Order Mouse and ES Cells



| Product | Allele | Strain of Origin | MGI Allele Name | Description | Product Details | Order / Contact |
|---------|---|------------------|----------------------------------|--------------------|-----------------|-----------------|
| Mouse | Reporter-tagged deletion allele (post-Cre) | C57BL/6N | Krt83 ^{tm1b(KOMP)Wtsi} | image genbank file | Ē | ≔ EMMA |
| Mouse | KO first allele (reporter-tagged insertion with conditional potential) | C57BL/6NTac | Krt83 ^{tm1a(KOMP)} Wtsi | image genbank file | | ™ KOMP ™ EMMA |







Search Repositories Participate GI

Glossary

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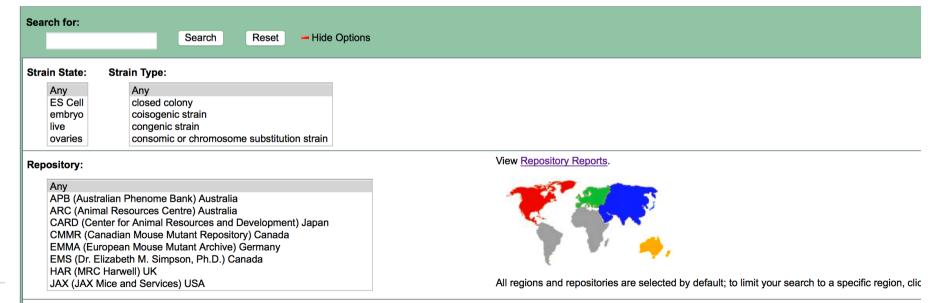
Deposit Strains

Welcome to the IMSR

The IMSR is a searchable online database of mouse strains, stocks, and mutant ES cell lines available worldwide, including inbred, mutant, and genetically engineered strains. The goal of the IMSR is community in locating and obtaining mouse resources for research. Note that the data content found in the IMSR is as supplied by strain repository holders.

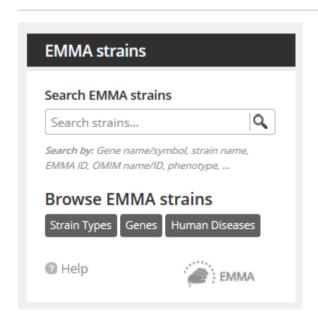
For each strain or cell line listed in the IMSR, users can obtain information about:

- Where that resource is available (Repository Site)
- What state(s) the resource is available as (e.g. live, cryopreserved embryo or germplasm, ES cells)
- · Links to descriptive information about a strain or ES cell line
- Links to mutant alleles carried by a strain or ES cell line
- Links for ordering a strain or ES cell line from a Repository
- · Links for contacting the Repository to send a query

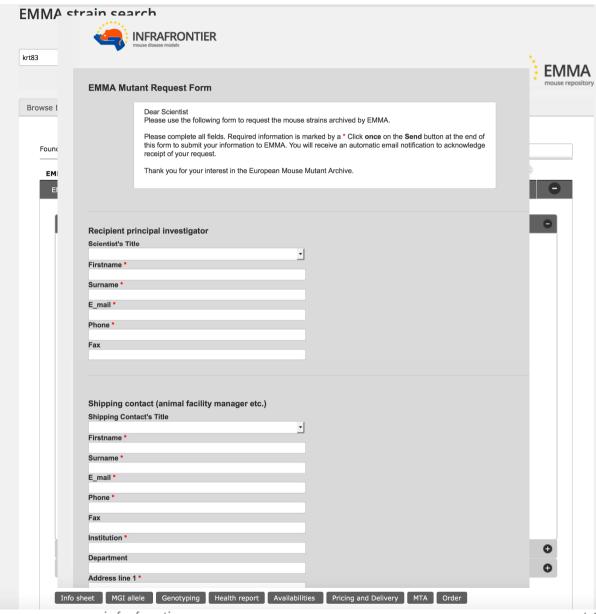




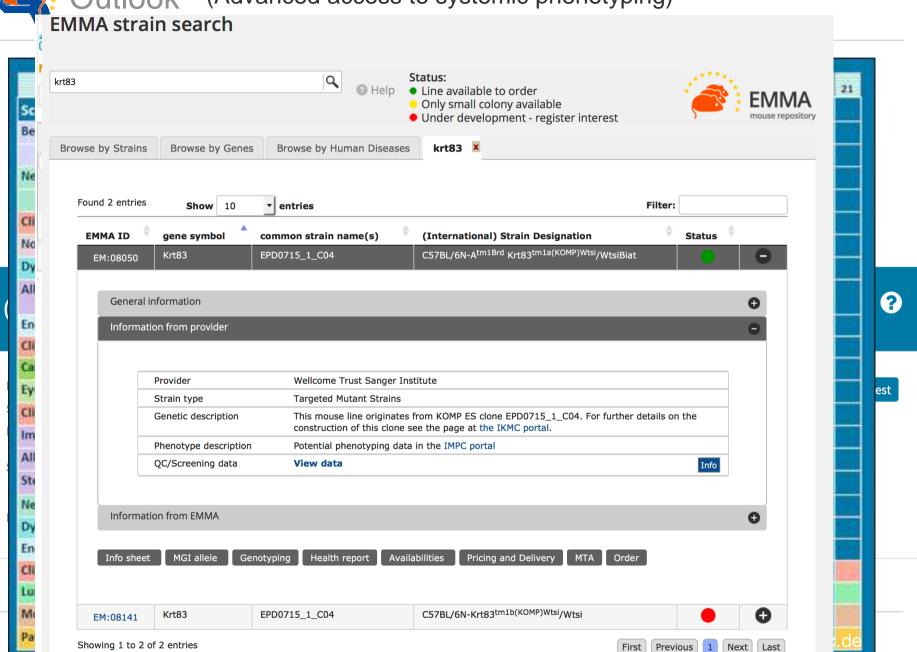
EMMA distribution service – public strain list



=> Account system planned.

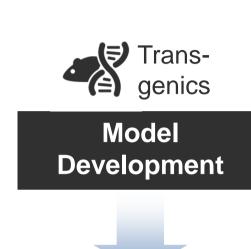


Outlook (Advanced access to systemic phenotyping)





Summary: INFRAFRONTIER resources and services







Systemic Phenotyping



Archiving / Distribution













