



**EUROPE
BIOBANK**
WEEK CONGRESS
14-17 MAY 2024



BBMRI-ERIC[®]

The European research infrastructure
for biobanking and biomolecular
resources in health and life sciences

ESBB

European, Middle Eastern
& African Society
for Biopreservation
and Biobanking

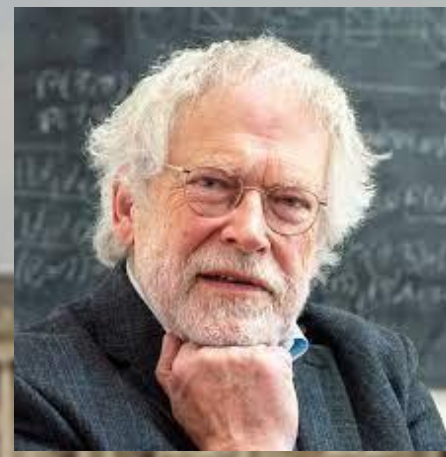
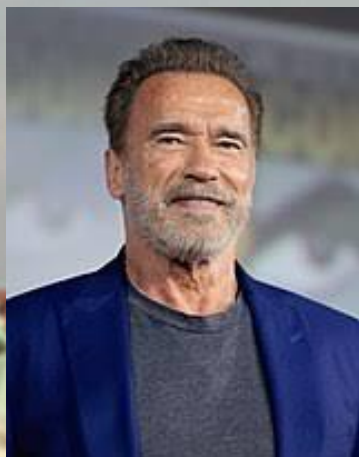


Georg Göbel

Luka Brcic

WELCOME ADDRESS - BBMRI Austria

Facts about Austria?

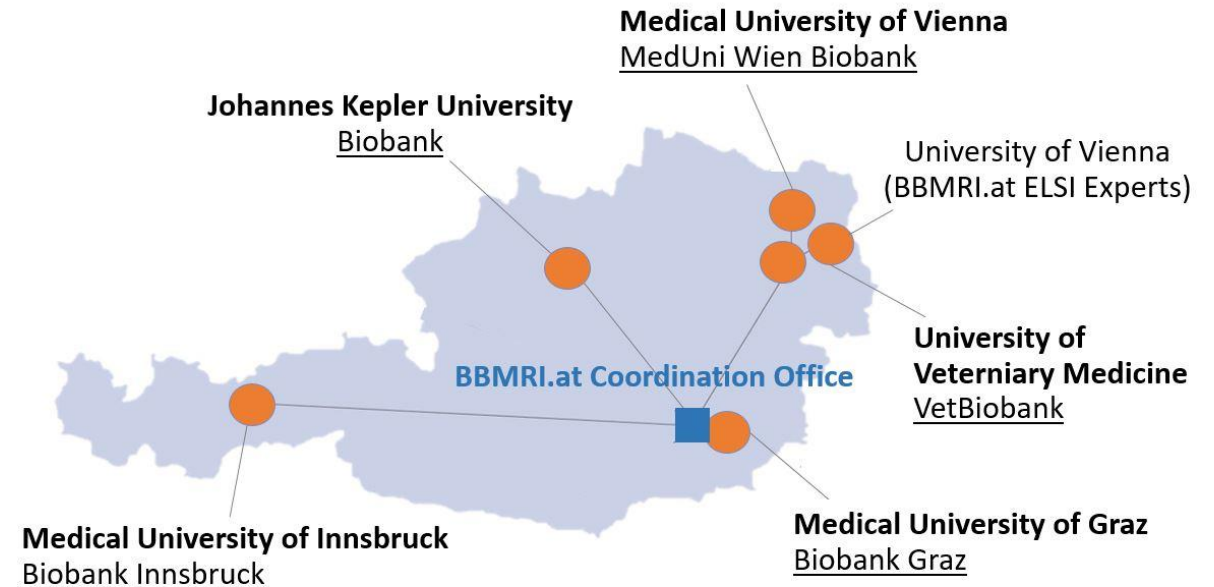
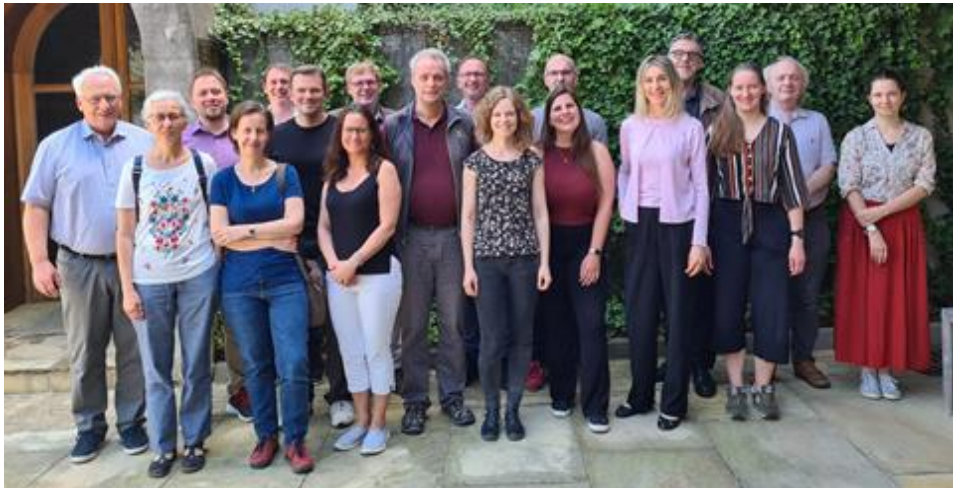


What else?

Not only....



BBMRI.AT THE AUSTRIAN NATIONAL NODE OF BBMRI-ERIC



BBMRI.AT#1: 2013 - 2018 3.50m € (5 yrs)

BBMRI.AT#2: 2018 - 2023 3.65m € (5 yrs)

BBMRI.AT#3: 2023 - 2028 4.10m € (5 yrs)

Supported & funded by the Federal Austrian Ministry of Education, Science & Research

Funded by
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0.752.780

 Federal Ministry
Republic of Austria
Education, Science
and Research

BBMRI.AT – WHAT WE DID (2008 – 2023)

- Pioneering role in Austria and BBMRI-ERIC in several fields:
 - A leading role in developing and implementing European and international **biobanking-related standards** (i.e. CEN and ISO standards on sample pre-analytics)
 - The first node to establish **quality management cross-audits** of its biobanks and successfully implemented virtual audits during the COVID-19 pandemic
 - The first node to establish a “**Central Access/Contact Point**” for requests (e.g. samples/data and participation in call proposals)

2008 – 2012
BBMRI - Preparatory Phase

2013 -2018
BBMRI.AT #1

2018 - 2023
BBMRI.AT #2

2023 - 2028
BBMRI.AT #3

BBMRI.AT – WHAT WE DID (2008 – 2023)

- A frontrunner in the field of “**trusted and secure environment for patient data**”
- Biobanking for **One Health** (Vet Med Uni)
- BBMRI.at biobank partners successfully contributed to the COVID-19 research providing cohorts and involvement in collaboration projects with academia and industry
- **A pioneer in public engagement** (e.g. biobanking courses for children and the public, citizen-expert-discussions)

BBMRI.AT – WHAT WE DID (2008 – 2023)

- BBMRI.at interacts with different international programs/initiatives and established the Austrian Cohort Initiative



CHANGING ROLE OF BIOBANKS

2000: The age of population cohorts and GWAS studies



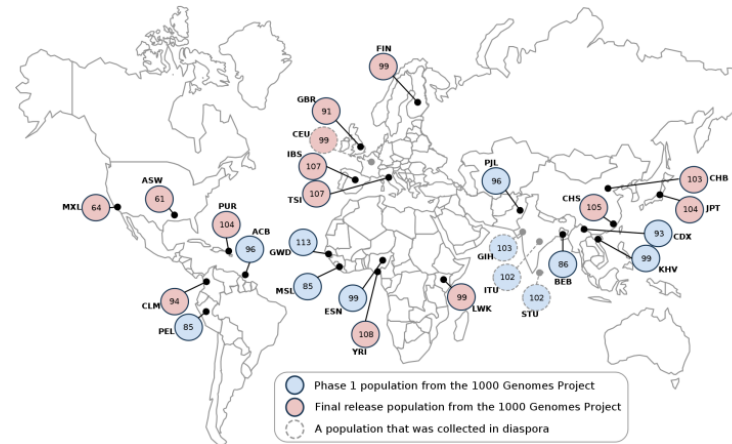
As of September 2019 the GWAS Catalog contains more than 157,000 associations from 4220 publications

Buniello A, MacArthur JAL, Cerezo M, Harris LW, Hayhurst J, Malangone C, McMahon A, Morales J, Mountjoy E, Sollis E, Suveges D, Vrousou O, Whetzel PL, Amode R, Guillen JA, Riat HS, Trevanion SJ, Hall P, Junkins H, Flicek P, Burdett T, Hindorf LA, Cunningham F and Parkinson H.

The NHGRI-EBI GWAS Catalog of published genome-wide association studies, targeted arrays and summary statistics 2019.

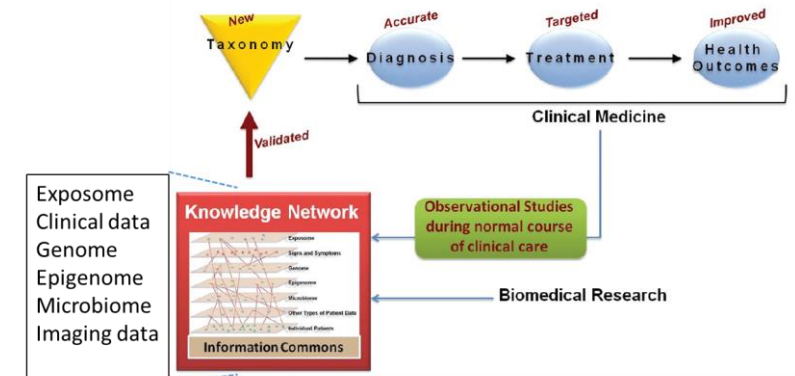
Nucleic Acids Research, 2019, Vol. 47 (Database issue): D1005-D1012.

2008: The age of population cohorts and WGS studies



GigaScience. 2015;4:53. doi:10.1186/s13742-015-0095-0.
<https://gigascience.biomedcentral.com/articles/10.1186/s13742-015-0095-0>, CC BY 4.0,

2011: The age of clinical cohorts and Precision medicine multi-omics and health data



NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

grant number 2025-
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Department of
Education, Science
and Research

CHANGING ROLE OF BIOBANKS

2019: The age of health data and AI the age of digital interdependence

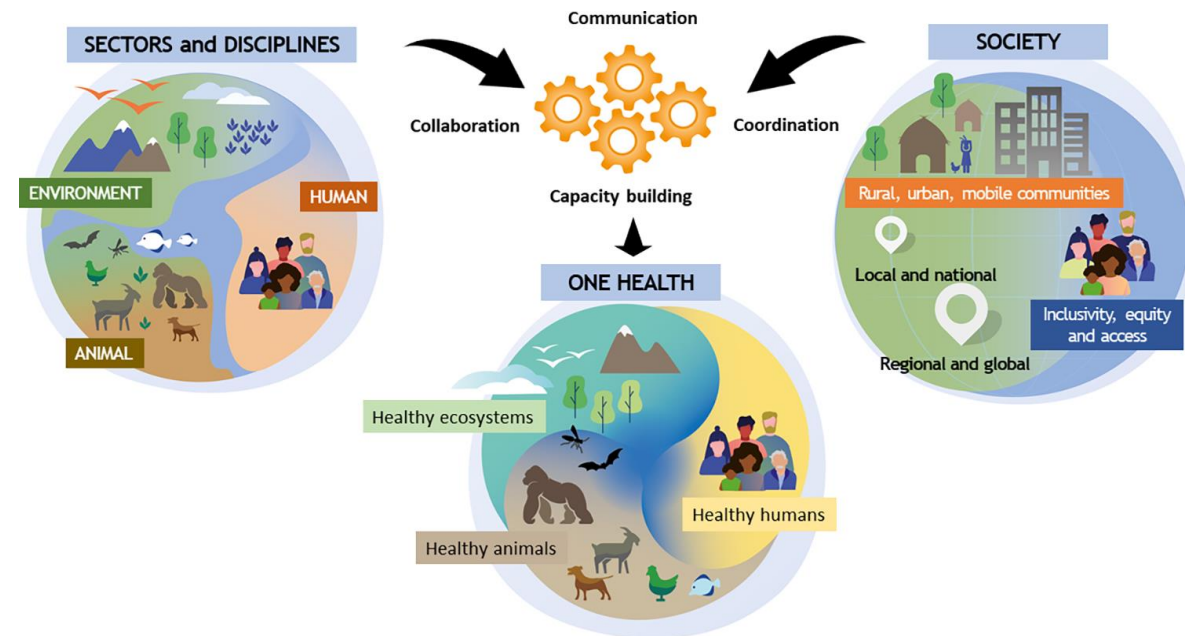
Report of the UN Secretary-General's
High-level Panel on Digital Cooperation



DATA QUALITY

DATA ACCESS

2022: The age of One Health and pandemic preparedness

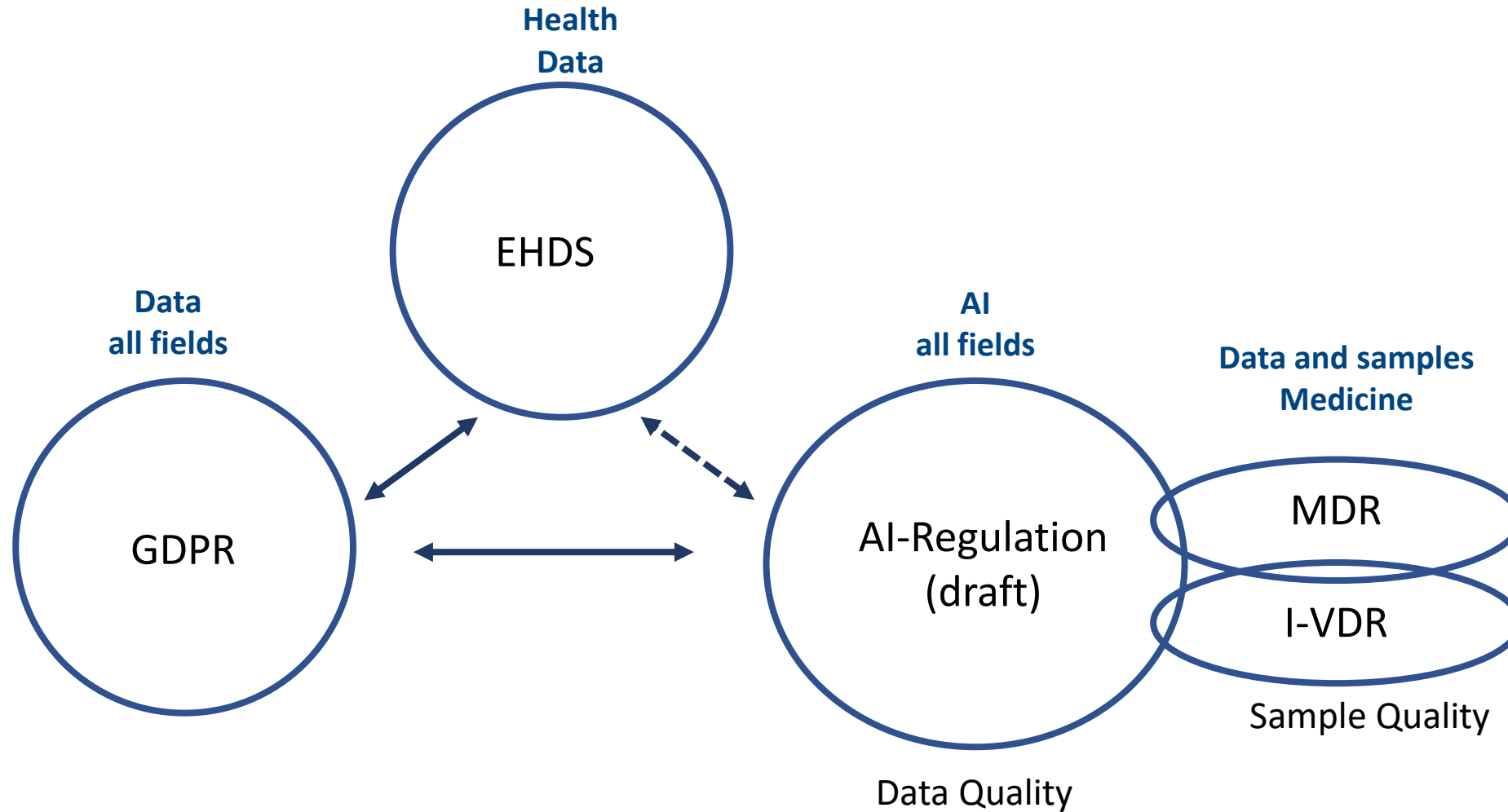


PLOS PATHOGENS

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DEVELOPING LEGAL AND REGULATORY ENVIRONMENTS



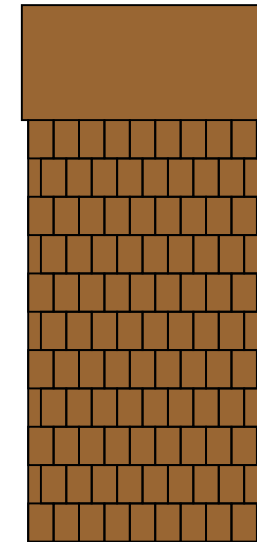
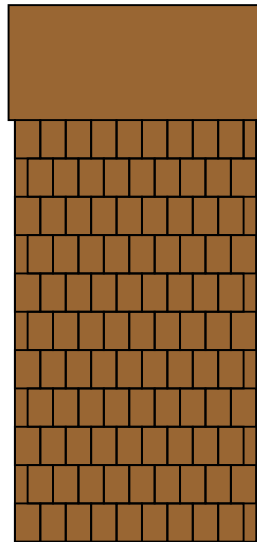
CHALLENGES FOR THE BIOBANKS

- Digital transformation of health systems
- Key resource to manage (future) pandemics
- Increasing role of One Health
- Sample and Data Quality

ARE BIOBANKS DELIVERING WHAT THEY SHOULD/COULD

Biobank

USERS



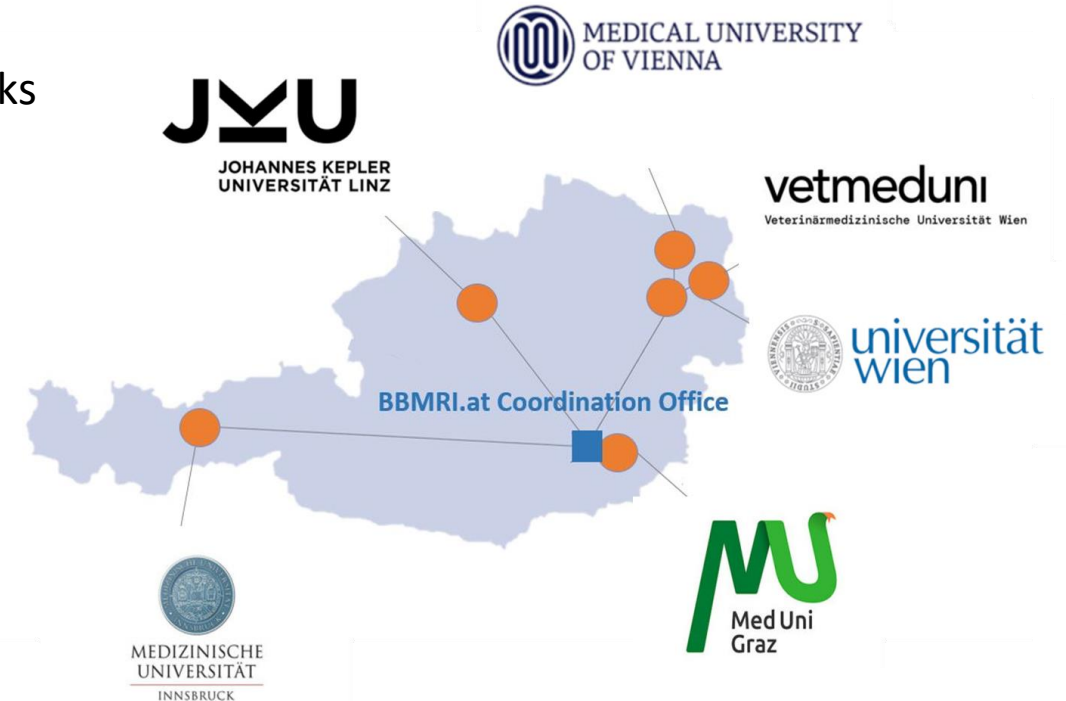
Patient

Clinician

Society

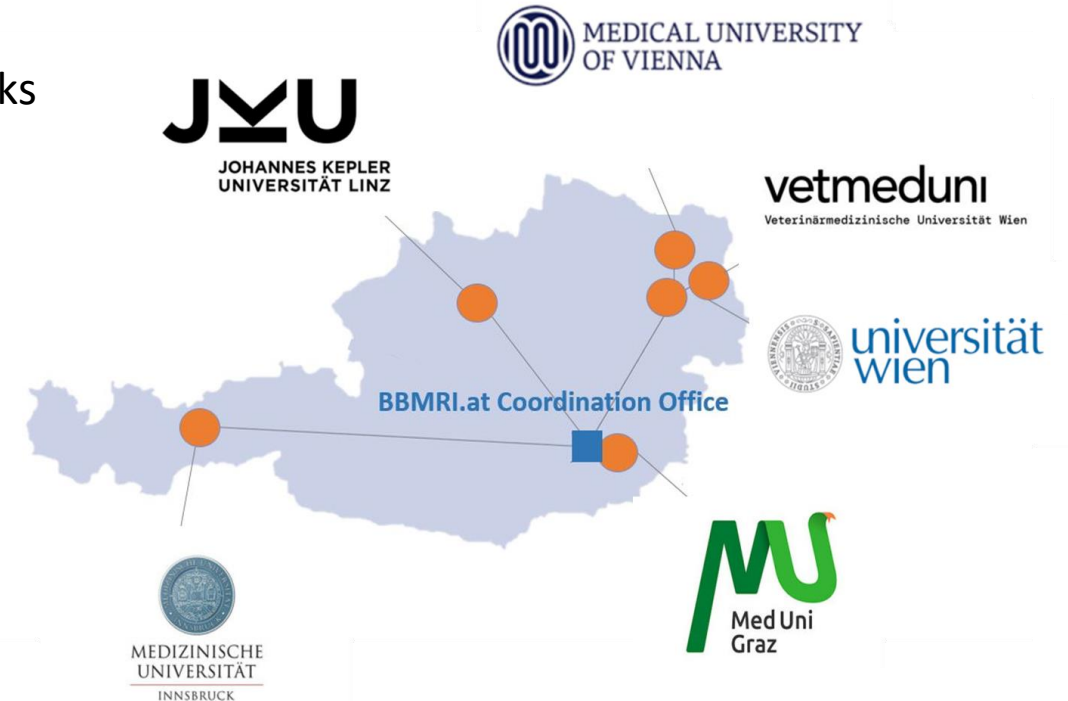
BBMRI.AT #3 WORK PACKAGES & PIs

- **WP1: IT Architecture and Data Integration** of Austrian Biobanks
Georg Göbel, Medical University of Innsbruck
- **WP2: Legal and Regulatory** Challenges and Opportunities
Nikolaus Forgó, University of Vienna
- **WP3: Quality management**
Helmuth Haslacher, Medical University of Vienna
- **WP4: Environmental Sustainability** and Biobanking
Monika Valjan, Biobank - Medical University Graz
- **WP5: Veterinary Biobanks: Potentials & Comparative Medicine/'One Health'**
Ingrid Walter, University of Veterinary Medicine, Vienna
- **WP6: Coordination** of the National Network & National **Node Operation**
Luka Brcic, Cornelia Stumptner, Medical University Graz



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Continuation of strong engagement in BBMRI-ERIC

0.752.780

THE ROLE OF BIOBANKS

Enable access to quality samples and data

by high-level collaboration

Providing access to knowledge and tools

Performing education and training



My name is Kurt Zatloukal.



Enjoy EBW 2024!

Georg Göbel

Luka Brcic

ZATLOUKAL

- <https://youtu.be/i4-sPKITbE0>