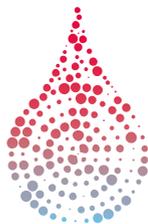


HARMONY



ALLIANCE



A call to  
leverage  
big data to  
accelerate  
blood cancer  
research

OUR MANIFESTO



# BIG DATA FOR BLOOD CANCER

**Big Data** has proven to offer new insights that can contribute to advances in novel therapies and more efficient medicines. The **HARMONY Alliance** urges researchers across the globe to break data silos and embrace cooperation to foster blood cancer research. It takes one missing piece of data to eureka.

**Data is knowledge.** Access to data gives scientists and healthcare professionals insights into disease characteristics and correlations between different biomarkers. Today, artificial intelligence algorithms are already reimaging research in many disciplines of life sciences and medicine, and could help us harness the full power of data. Thankfully, one barrier stands in the way: data silos. However, this can be easily overcome if we start to cooperate closer and share data within a secure and trusted ecosystem.

## A spark for breakthroughs

The HARMONY Alliance has been working to collect data and speed up research on Hematologic Malignancies for the past five years. Over 100+ organizations from 22 European countries already share the HARMONY Alliance mission: personalized treatment for blood cancer patients.



**Working in such an outstanding team, we have managed to collect over 60,000 data sets from all over Europe. And more are on the way!**

The innovative HARMONY Big Data Platform, a central analytical infrastructure, was launched in 2017 to harmonize the data sets donated by European hospitals, academic institutions conducting clinical trials, and pharmaceutical companies, among other data custodians. Today, the HARMONY data lake is one of the largest databases of its kind, and still growing: the Alliance has already identified over 115,000 cases not only from Europe, but from all around the world. In addition, careful procedures have been installed to ensure the anonymization and the quality of the data. HARMONY data scientists have developed sophisticated methods for data harmonization and analysis.



**This moonshot continues, and you can be a part of it!**



**> 100 Partners/Members organizations from 22 European countries**



**Key targeted blood cancers**



**Data lake > 115,000 patient records identified**



- Custom-built Big Data Platform
- Unique anonymization concept
- State of the art Big Data analytic services



### Projects

- Big Data Research
- Delphi Surveys for Core Outcome Sets
- Multi-stakeholder activities
- Communications

## Our manifesto for strengthening the role of data in medical sciences

The use of big data for scientific research only keeps gaining momentum. This was not possible before digitalization in healthcare and life sciences, but now that paper files have been transformed into electronic records, even the smallest data entry can be reused for scientific purposes. Since we have established a secure data platform, developed suitable algorithms, and met all the legislative and GDPR requirements, we have convinced early innovators.



**What we need now is a new collaboration mindset.**

Therefore, we call all stakeholders in healthcare and life sciences to:

### Re-use your data

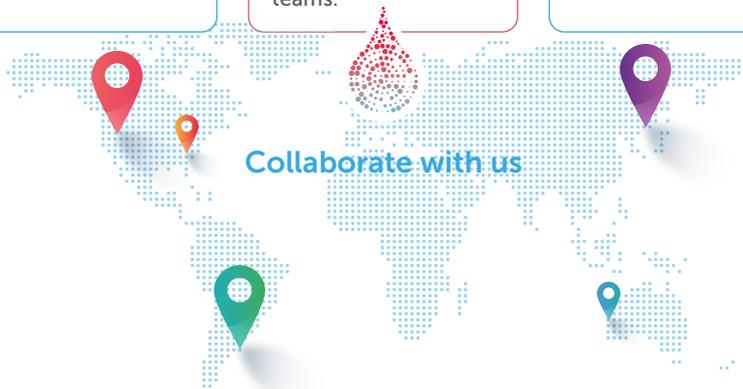
We cannot afford to waste the power of data. The future of medicine is data-driven science and for this secondary use of data is key.

### Collaborate within trusted networks

We ensure the highest security and privacy standards to share data. We not only connect data, we also connect people through the creation of multidisciplinary teams.

### Help us unlock knowledge for social good

Only high-quality data lakes covering all patient groups can contribute to precise research outcomes.



## Be a changemaker in blood cancer research

We have made the first big steps: Over the last five years, we have created a unique infrastructure and community of experts for big data research on Hematologic Malignancies with over 115,000 identified data sets. Working with our Big Data Platform has already led to gaining first insights in AML and MM, presented in renowned scientific papers. It is now time to get to the next level of data analysis across all Hematological Malignancies!

The HARMONY Alliance is calling for new members who are open to collaborate and who can and are willing to donate data.

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### Our key targeted blood cancers

#### Acute Leukemias



Acute Lymphoblastic Leukemia



Acute Myeloid Leukemia



Childhood Hematologic Malignancies

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#### Chronic Leukemias



Chronic Myeloid Leukemia



Chronic Lymphocytic Leukemia



Myelodysplastic Syndromes



Polycythaemia Vera



Essential Thrombocythemia



Myelodysplastic Syndromes

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#### Lymphomas



Non-Hodgkin Lymphoma



Hodgkin's Lymphoma



Waldenström Macroglobulinaemia

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#### Monoclonal Gammopathies



Multiple Myeloma



# Meet us

## Meet us in person

at EHA2022, the Annual Congress of the European Hematology Association organized on 9-12 June 2022 in the Messe Wien Exhibition & Congress Center in Vienna, Austria. You can find us at the EHA Collaboration Plaza and in **booth 881** at the exhibition.



## Meet us digital

by sending us an email to [communications@harmony-alliance.eu](mailto:communications@harmony-alliance.eu) to set up an appointment.



# HARMONY



ALLIANCE

## Join the largest European Public-Private Partnership for Big Data in Hematology



HARMONY

&



HARMONY-PLUS



Join us in creating the next generation of care for blood cancer patients

“

**Sharing anonymized data**  
in a secure way, for research  
purposes, is like a new form  
of **blood donation** in the  
era of **digitalization and**  
**Big Data**. In result, it has the  
power to **save human lives.**”

The HARMONY Alliance is a public-private European Network of Excellence for Big Data in Hematology. Our mission is to unlock and spread valuable knowledge on hematologic malignancies (blood cancers) among a large number of stakeholders, with the goal to harness and mine Big Data to speed up the development of improved treatments for patients and more effective treatment strategies.

The HARMONY Alliance consists of two projects funded through the Innovative Medicines Initiative (as of 2022 called IHI, Innovative Health Initiative): HARMONY and HARMONY PLUS. Funding is received from the IMI 2 Joint Undertaking and is listed under grant agreement for HARMONY No. 116026 and grant agreement for HARMONY PLUS No. 945406. This Joint Undertaking receives support from the European Union's Horizon 2020 Research and Innovation Programme and the European Federation of Pharmaceutical Industries and Associations (EFPIA).



[www.harmony-alliance.eu](http://www.harmony-alliance.eu)

