

The D-SOLVE Consortium

Understanding the individual host response against Hepatitis D Virus to develop a personalized approach for the management of Hepatitis D

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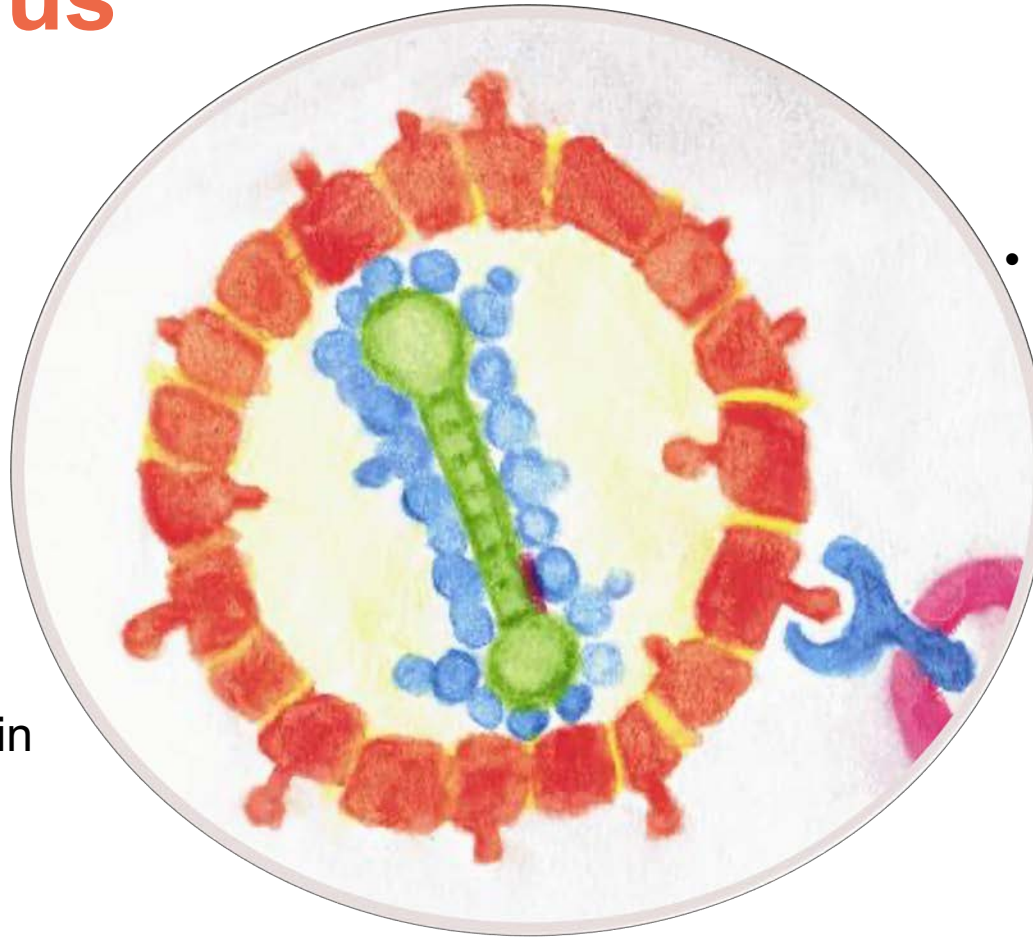


**Funded by
the European Union**

The pathogen in a nutshell: Hepatitis D virus

- Hepatitis D is by far the most severe form of chronic viral hepatitis frequently leading to liver failure, hepatocellular carcinoma and death
- Hepatitis D is caused by coinfection of hepatitis B patients with the hepatitis D virus (HDV)
- Large interindividual variability in the course of hepatitis D

→ **prototype infection for individualized infectious medicine approach**



- BUT orphan disease
- Limited knowledge on disease pathophysiology and host-virus interactions
- No multicenter cohorts of HDV infected patients are available

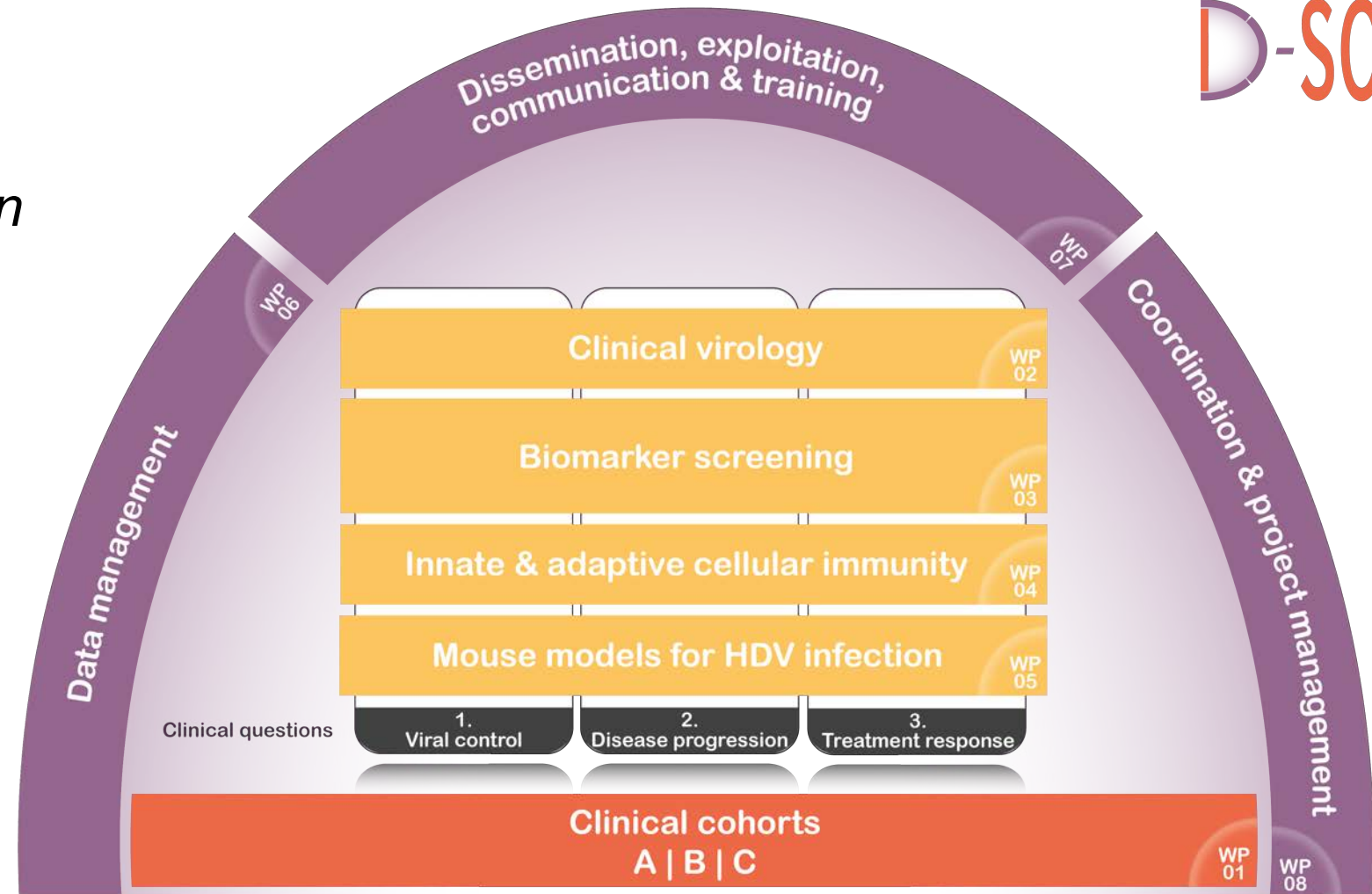
→ **urgent need to better understand individual factors determining the outcome of infection and to identify subjects benefitting from currently available treatments**

The Aim

- Unbiased screening of a large multicenter cohort of well-defined HDV-infected patients
- Mechanistic studies to determine the functional role of distinct molecules
- Identification of specific parameters and prognostic markers

The Approach

- *Key clinical questions on viral control, disease progression and treatment response will be studied across 4 research WPs*
- *Similar methodological approaches will be applied for all clinical questions*



Clinical cohort A: cross-sectional screening cohort of 750 HDV patients. Clinical cohort B: retrospective-prospective group of patients where liver biopsies have been taken 10-20 years ago and which are now available for immunological studies. Clinical cohort C: prospective clinical trial where controlled stopping of bulevirtide is explored.

The Consortium: Partner

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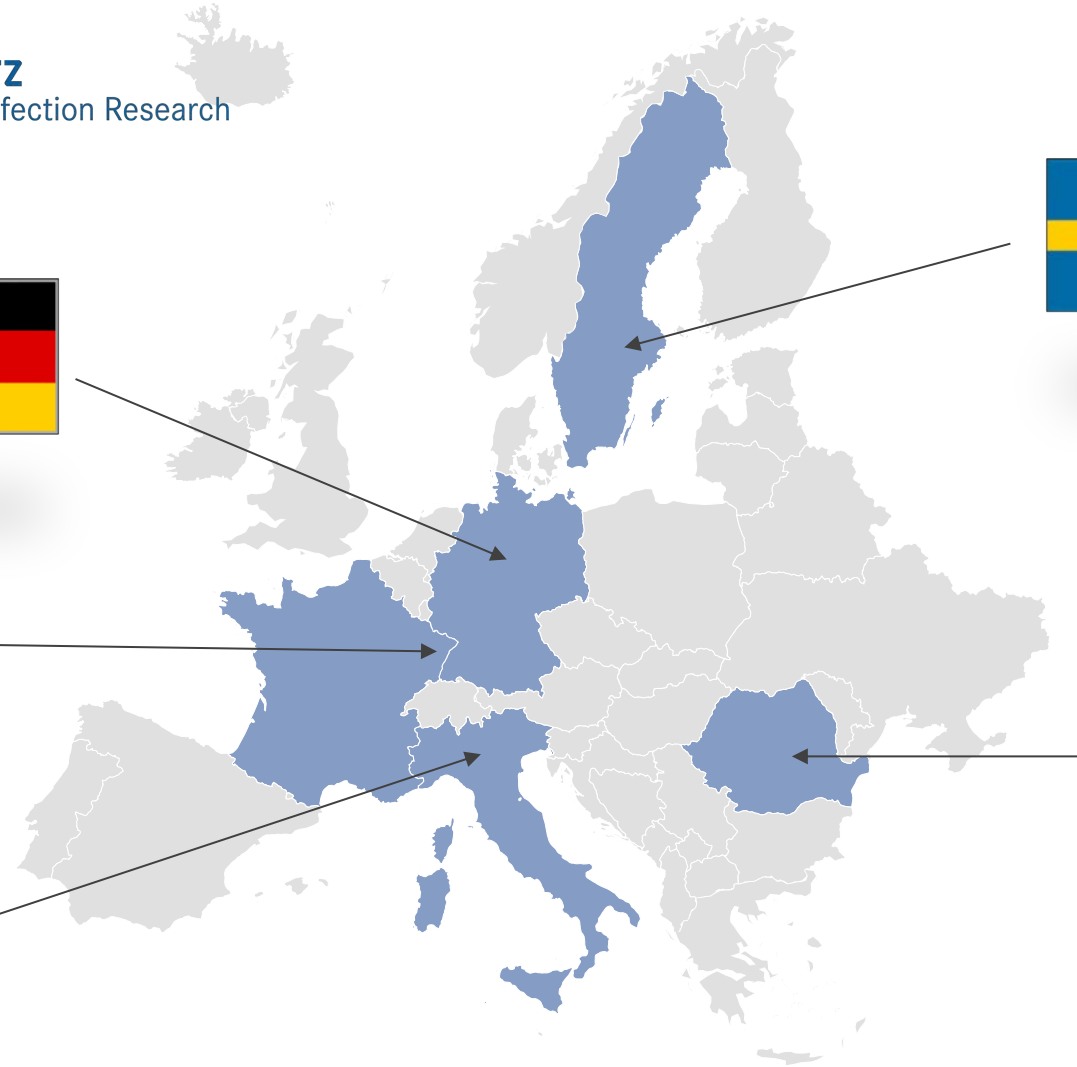
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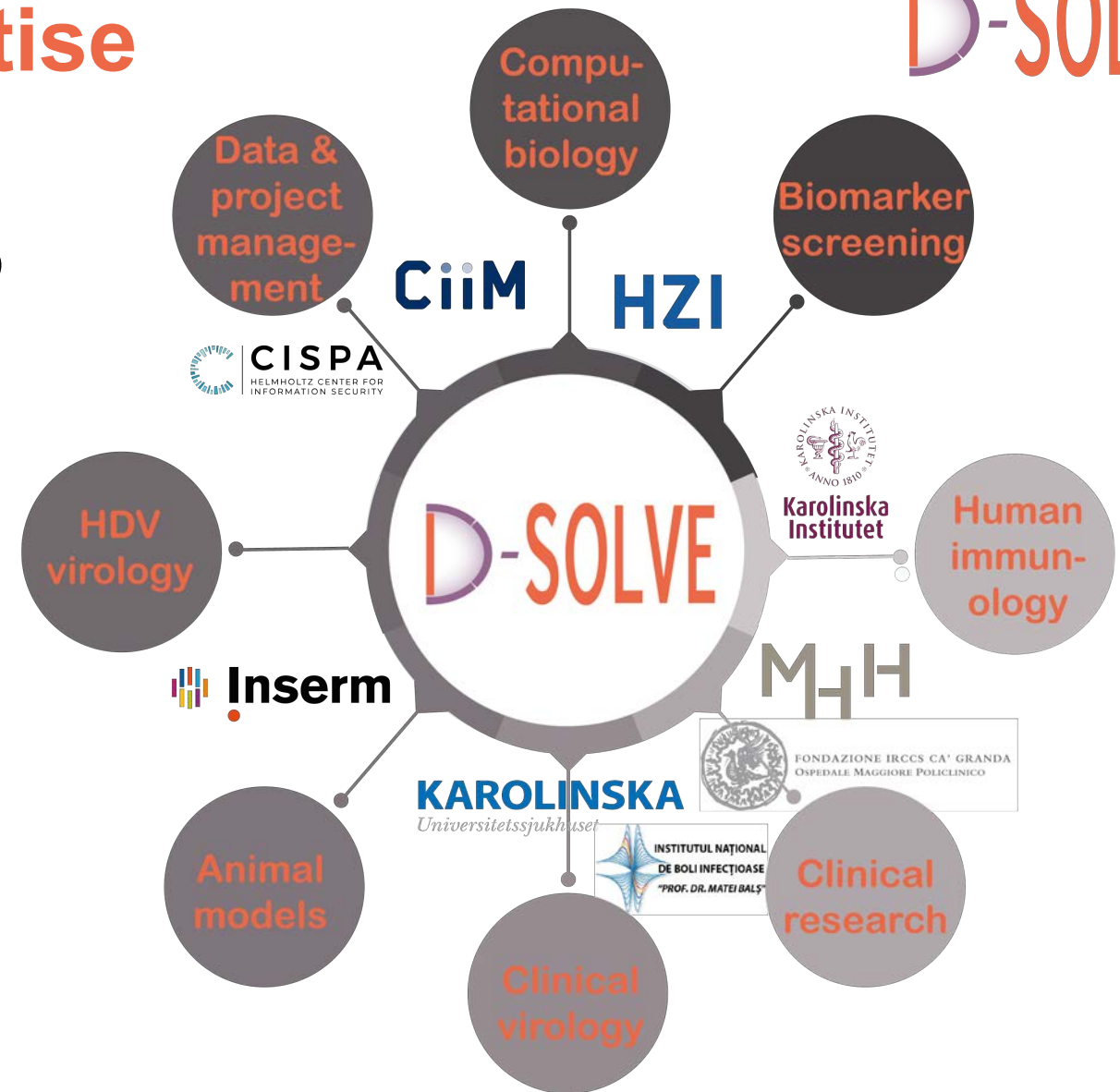
**Karolinska
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The Consortium: Expertise

- Several of the leading experts in European HDV research contribute to D-SOLVE
- Clinical centers with an outstanding experience in translational research
- High-level knowledge in performing an unbiased and broad biomarker screening from host genetics to host transcriptome and proteome analysis
- Mechanistic studies will be performed by foremost specialists in human immunology, HDV immunity and viral hepatitis research

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The Consortium

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