

The D-SOLVE Consortium



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D-SOLVE



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

Prof. Dr. Heiner Wedemeyer

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D-SOLVE

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)
- There is a large interindividual variability in the course of hepatitis D

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



BUT hepatitis D is an orphan disease

- There is only 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 benefiting from currently available treatments**

The Consortium: Expertise



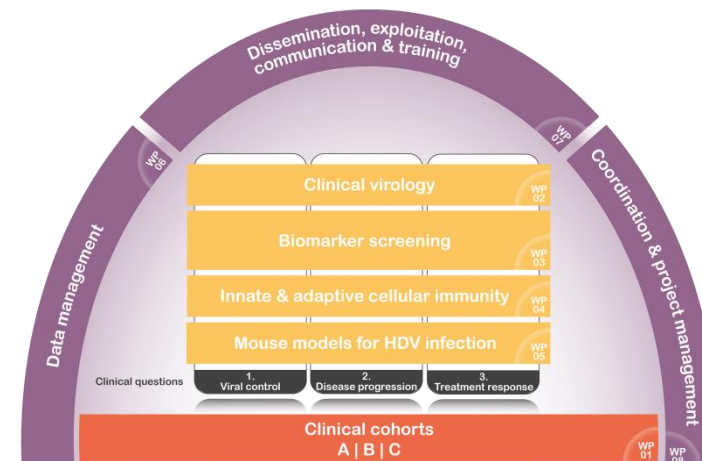
- Several of the leading experts in European HDV research contribute to D-SOLVE
- Clinical centers with an outstanding experience in translational research
- High-level knowledge in performing an unbiased and broad biomarker screening, from host genetics to host transcriptome and proteome analysis
-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

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 workpackages
- 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 with liver biopsies for immunological studies.

Clinical cohort C: prospective clinical trial where controlled stopping of bulevirtide is explored.