

Keynote 1
Jan Veldink

Introduction



Jan Veldink
Lead researcher project Mine
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Topic What is ALS – Are we on a verge of a breakthrough?

How to solve ALS
150 years of research
Challenging to say this will happen
But 'impossible' is not in my dictionary

What is ALS?

- Life time risk 1 in 300 people
- Over 400,000 patients worldwide
- Progressive muscle weakness
- Otherwise healthy/"fit" people
- Lethal disease (3-5 years)
- Most frequent reason physician-assisted death

Video What is ALS

- 3-5 years death
- No cure for ALS
- Course of disease
 - Change in DNA
 - Defective proteins
- Protein aggregation
 - Defections
 - Loss of muscle innovation

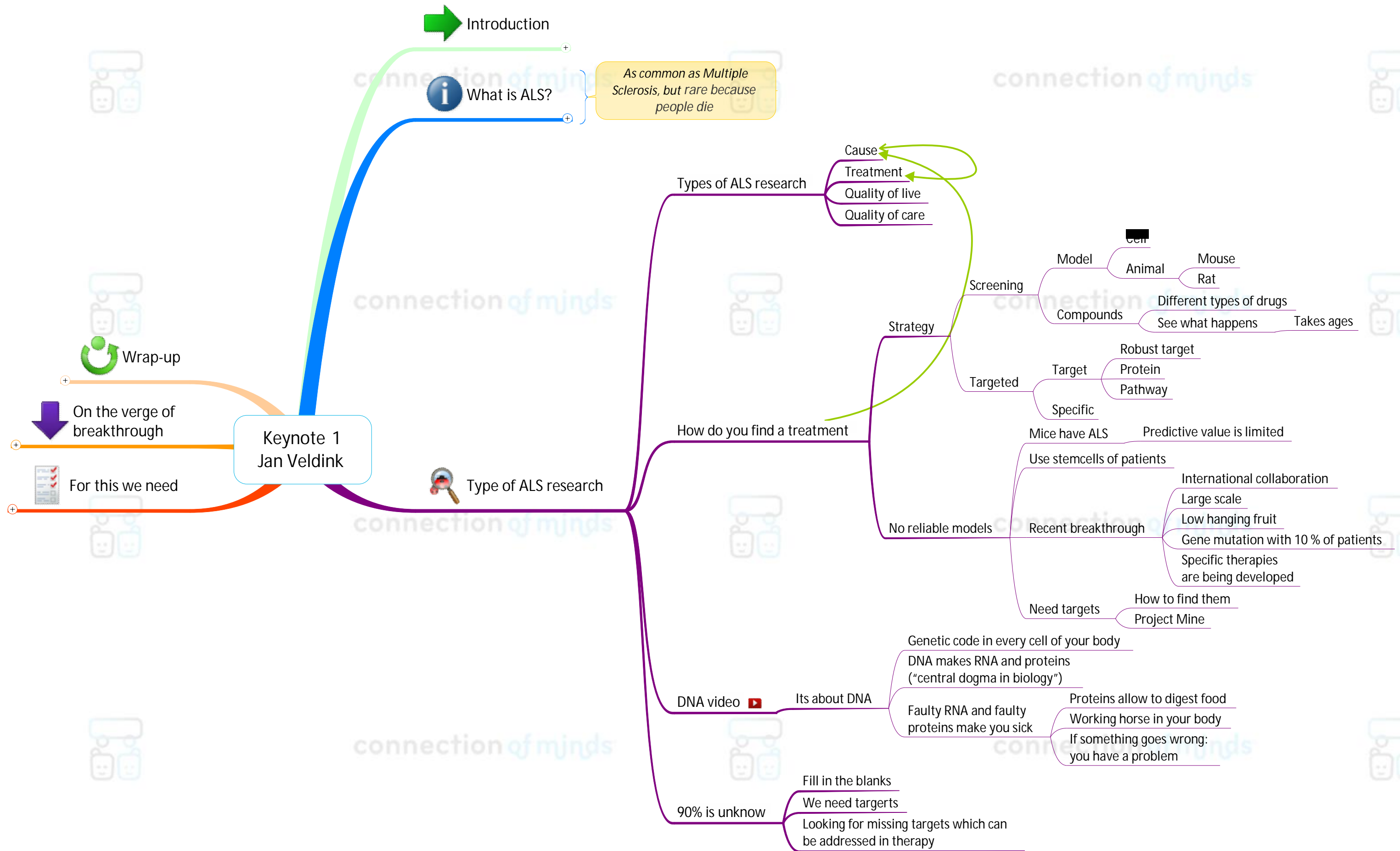
As common as Multiple Sclerosis, but rare because people die

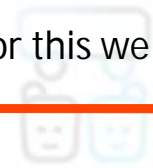
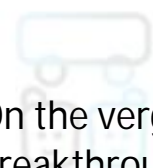
Type of ALS research

Wrap-up

On the verge of breakthrough

For this we need





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Wrap-up

- Unique
- Different time
- Lots of help from Accenture

On the verge of breakthrough

- Large scale research
- Number of DNA's
- \$\$ per genome will be lower
- Website
- Donation
- Pricing model
- Project mine

Introduction

What is ALS?

As common as Multiple Sclerosis, but rare because people die

Type of ALS research

For this we need

- Think global
- Think big
- Need complete picture
- ✓ Strong international collaboration
- ✓ Detailed characterized patients
- Good quality
 - ✓ DNA samples
 - ✓ Healthy controls
- Store info
 - ✓ Technology
- ✓ Translational potential
- ✓ Bioinformatics expertise
- Funds..