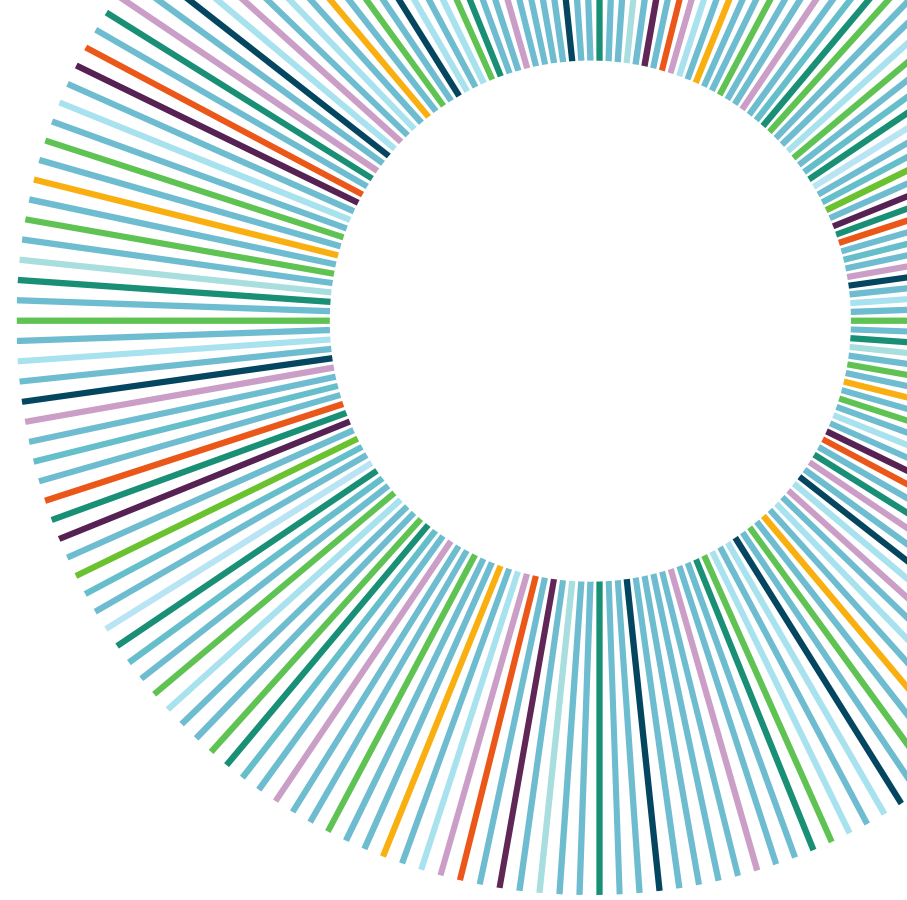


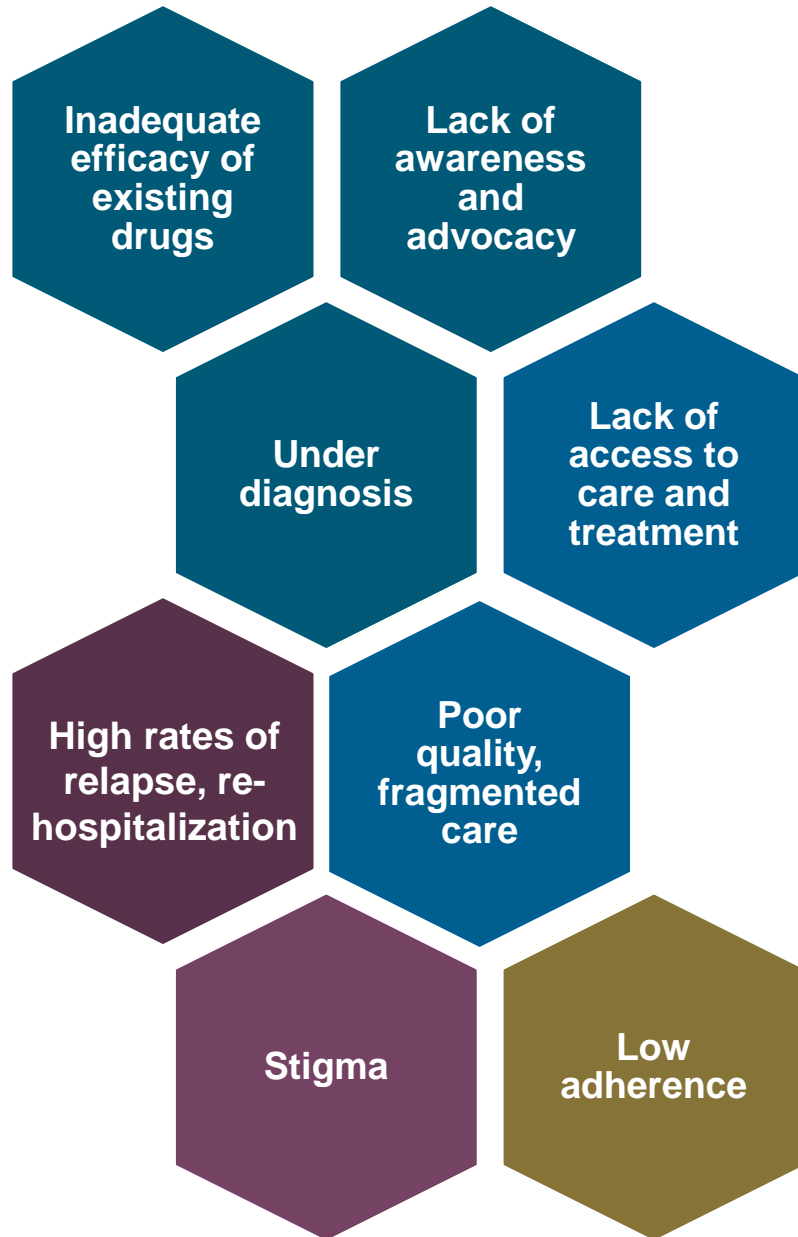
TECHNOLOGY CONVERGENCE IN NEUROSCIENCE



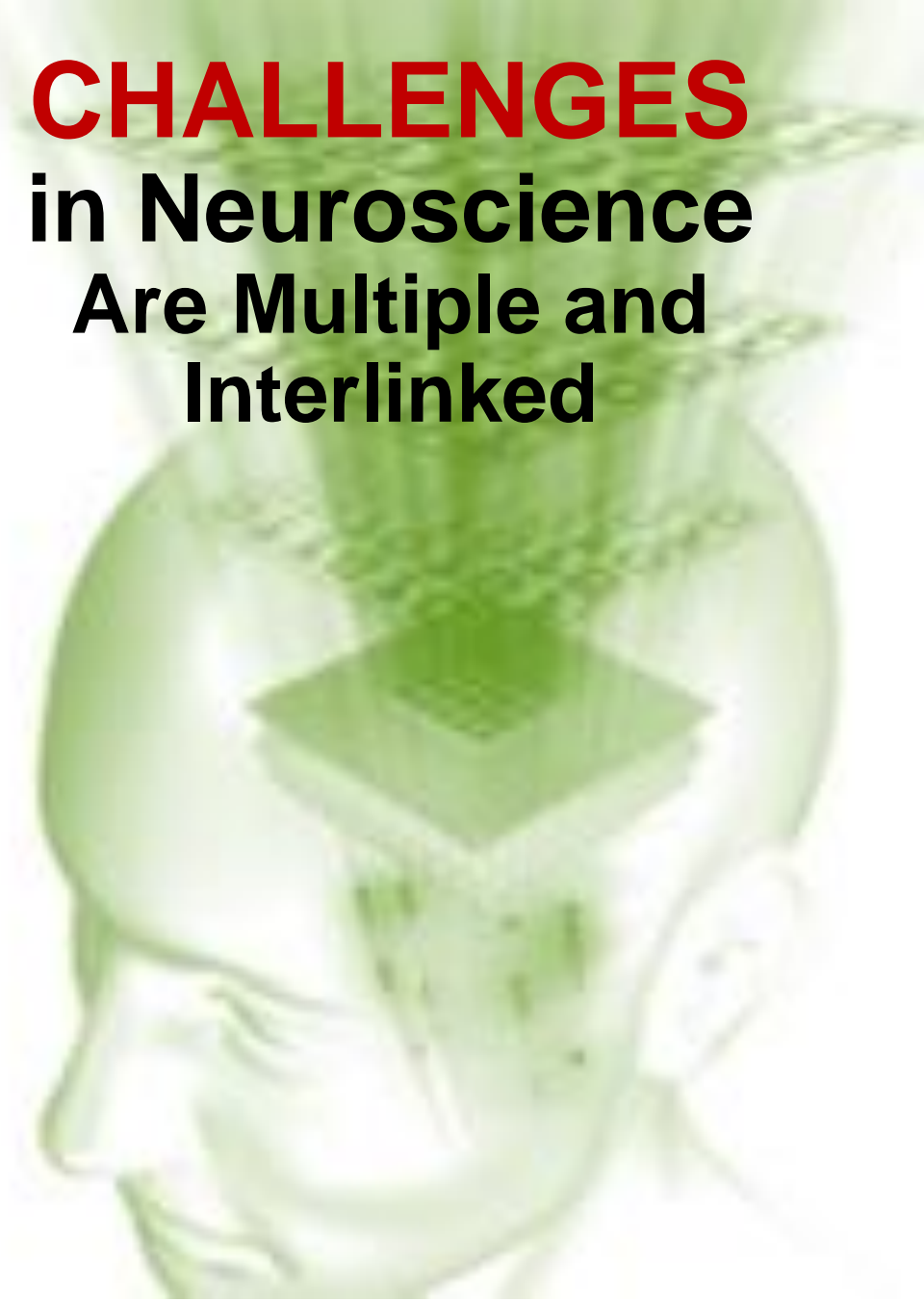
Luc Truyen
Janssen R&D LLC

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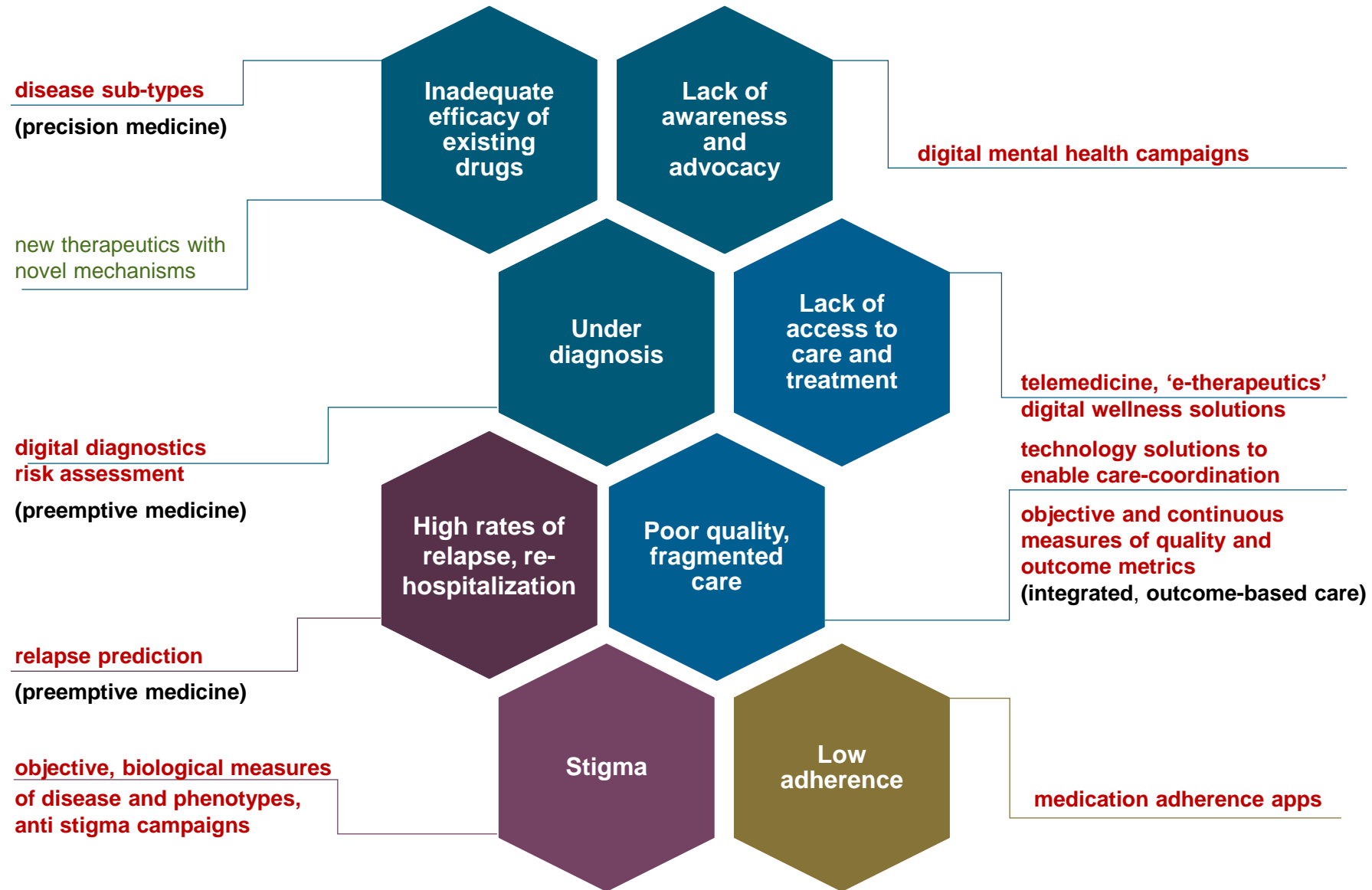
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CHALLENGES in Neuroscience Are Multiple and Interlinked



Digital Technologies and Big Data Can Address Key Challenges



Digital Health SGG: Scientific priorities 2019

- Development and validation of digital diagnostics and precision medicine tools
- Development and validation of digital solutions for predicting relapses and exacerbations in waxing/ waning diseases with a dynamic course (e.g. RADAR CNS)
- Development and qualification of efficacy and Healthcare Quality of Life endpoints for use in clinical trials and real world pragmatic studies (e.g. DIAMOND, RADAR AD, DENIM)
- Development of technology platform, data standards and privacy protocols for collection, analysis and dissemination of digital biomarker data from devices and sensors (e.g. RADAR BASE open source)
- Research into regulatory, legal, ethical and privacy framework for digital data collection from individuals for clinical and medical use
- Development of digital solutions for improved drug adherence and efficacy monitoring