

# Humanized yeast models to study aspects related to Alzheimer's and Parkinson's disease

Commonly used acronym: Humanized yeast

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# **Contact person**

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# **Organisation**

Name of the organisation Katholieke Universiteit Leuven (KUL)

**Department** Biology

**Country** Belgium

Geographical Area Flemish Region

# **SCOPE OF THE METHOD**

The Method relates to	Human health
The Method is situated in	Basic Research, Education and training, Translational - Applied Research
Type of method	In vitro - Ex vivo

# **DESCRIPTION**

**Method keywords** 

	ABeta42
	Tau
	MAPT
	SNCA
	Alpha-synuclein
	Synphilin-1
	screening
	drug testing
	cell death
	protein folding
	protein aggregation
	Alzheimer
	Parkinson
S	Scientific area keywords
	neuroscience
	neurodegeneration
	Tauopathy
	Alzheimer
	Parkinson
N	Method description
	We have developed and validated yeast models to study aspects related to protein folding diseases

like Alzheimer's and Parkinson's disease. These models allow to gain further insight in the cellular processes involved in the etiology of these disorders and as such identify potential new bio-markers and targets for therapeutic intervention. These models also offer a screening platform to identify lead

Yeast

compounds, to test the efficacy of drugs or to perform mode-of-action studies.

# Lab equipment

Standard yeast culture equipment;

Multi-well microplate spectrophotometer/shaker.

#### **Method status**

Published in peer reviewed journal

# PROS, CONS & FUTURE POTENTIAL

# **Advantages**

Proven biological relevant eukaryotic system;

Low cost compared to mammalian cell based systems.

# **Challenges**

Unicellular model

## **Future & Other applications**

Similar yeast based models can be developed for other disease areas, such as cancer.

# REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

### References

http://lirias.kuleuven.be/cv?Username=U0009565

# Links

Additional information

Coordinated by









