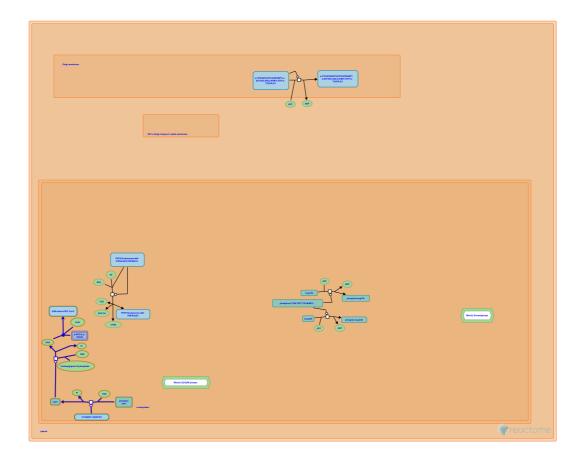


Depolymerization of the Nuclear Lamina



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This is just an excerpt of a full-length report for this pathway. To access the complete report, please download it at the Reactome-Textbook.

19/05/2024

Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references

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Reactome database release: 88

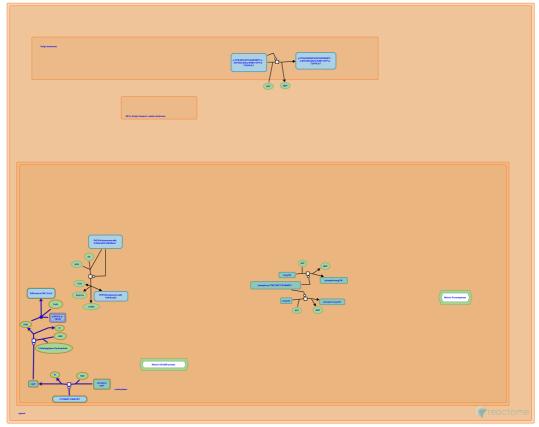
This document contains 1 pathway and 3 reactions (see Table of Contents)

https://reactome.org Page 2

Depolymerization of the Nuclear Lamina →

Stable identifier: R-SPO-4419969

Inferred from: Depolymerization of the Nuclear Lamina (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

CTDNEP1:CNEP1R1 dephosphorylates LPIN >

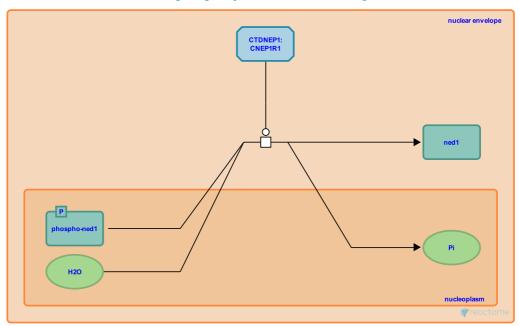
Location: Depolymerization of the Nuclear Lamina

Stable identifier: R-SPO-4419948

Type: transition

Compartments: nuclear envelope, nucleoplasm

Inferred from: CTDNEP1:CNEP1R1 dephosphorylates LPIN (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

Followed by: LPIN catalyzes conversion of phosphatidic acid to diacylglycerol

LPIN catalyzes conversion of phosphatidic acid to diacylglycerol

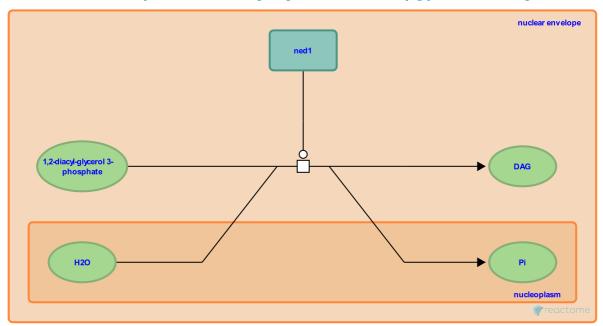
Location: Depolymerization of the Nuclear Lamina

Stable identifier: R-SPO-5221130

Type: transition

Compartments: nuclear envelope, nucleoplasm

Inferred from: LPIN catalyzes conversion of phosphatidic acid to diacylglycerol (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

Preceded by: CTDNEP1:CNEP1R1 dephosphorylates LPIN

Followed by: DAG and Ca+2 bind to PKC and tether it to membrane

DAG and Ca+2 bind to PKC and tether it to membrane

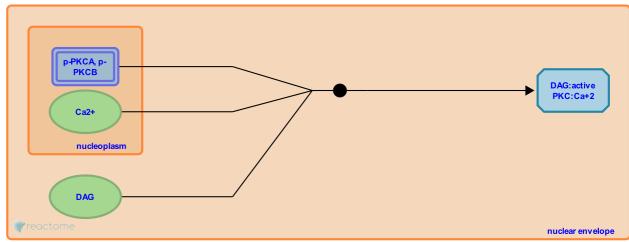
Location: Depolymerization of the Nuclear Lamina

Stable identifier: R-SPO-5223304

Type: binding

Compartments: nuclear envelope, nucleoplasm

Inferred from: DAG and Ca+2 bind to PKC and tether it to membrane (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

Preceded by: LPIN catalyzes conversion of phosphatidic acid to diacylglycerol

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