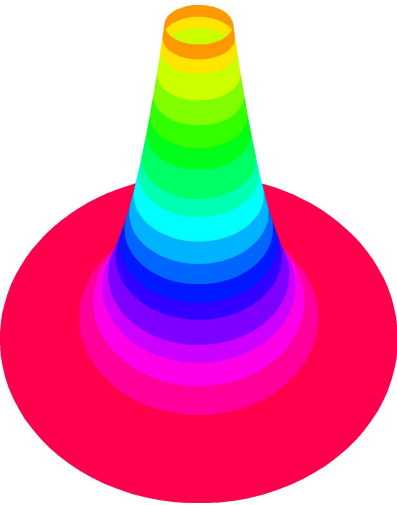
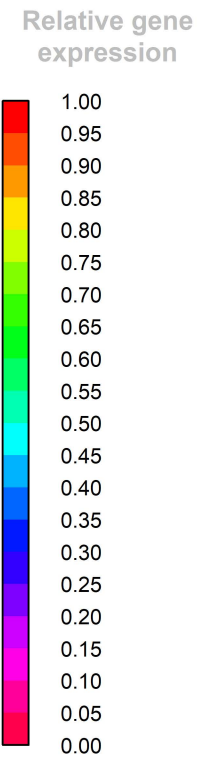


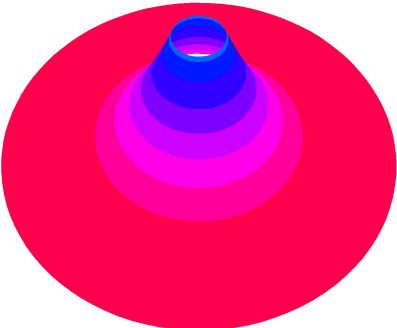
**Figure S5: 3D representation of spatial gene expression response to PVY inoculation at the time of fully developed lesions.** Spatial profile of immune signaling related genes is shown for NT (left) and NahG (right) plants, inoculated with PVY<sup>N-Wilga</sup> and PVY<sup>NTN</sup>. Concentric 3D plots are based on the data from Experiment 1 (Figure S4). Relative gene expression is shown on the z-axis. Legend shows intervals for z-axis values color coding. See Figure 1 legend for full gene names.

*\*Note: for easiest browsing select Bookmarks view (e.g. left panel in Adobe Reader) and then select the graph you want to inspect.*

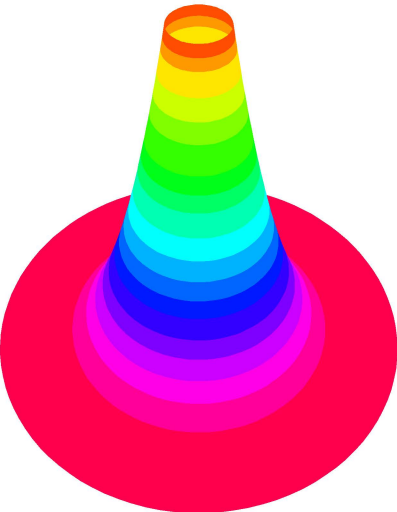
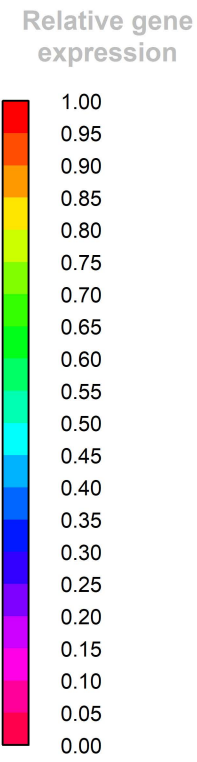
PVY



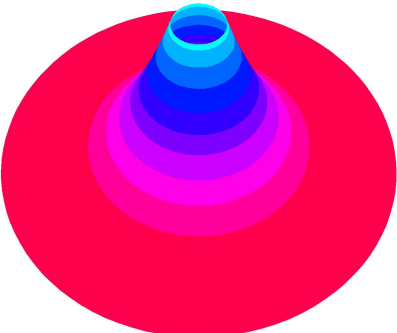
Rywal (Wilga)



NahG-Rywal (Wilga)



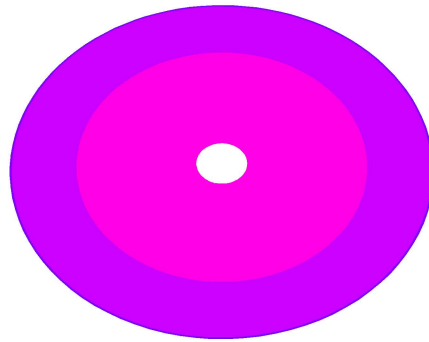
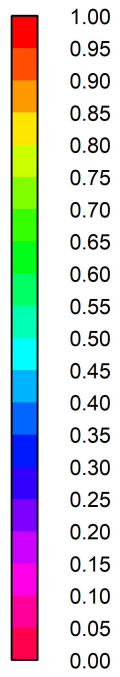
Rywal (NTN)



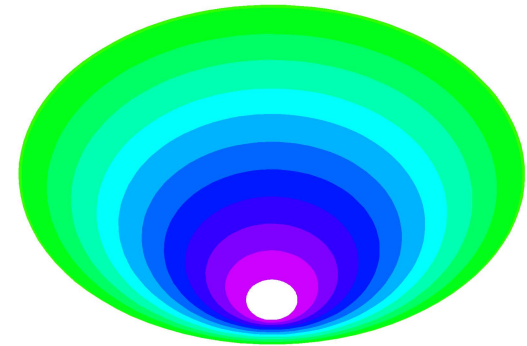
NahG-Rywal (NTN)

# CAT1

Relative gene  
expression

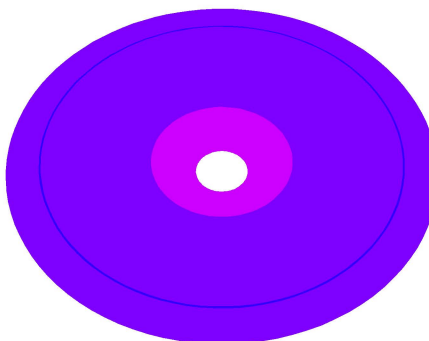
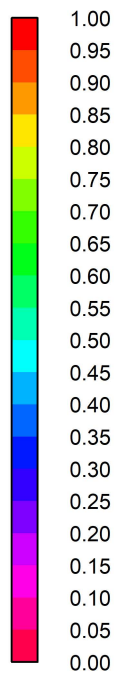


Rywal (Wilga)

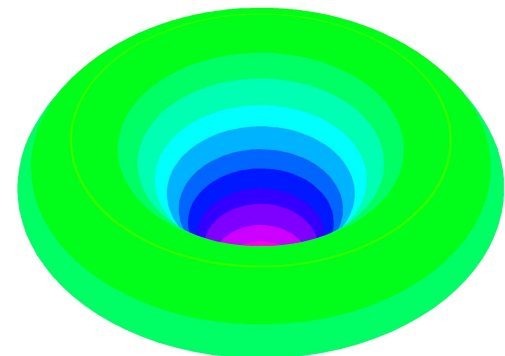


NahG-Rywal (Wilga)

Relative gene  
expression

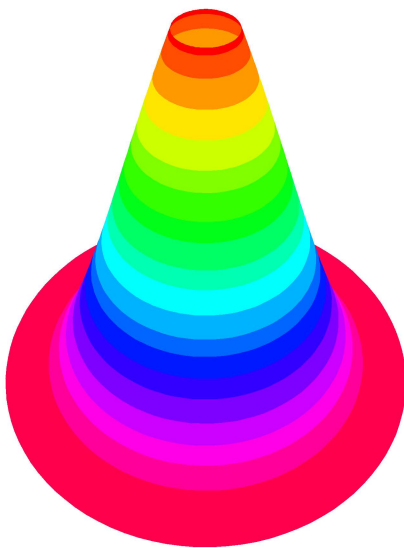
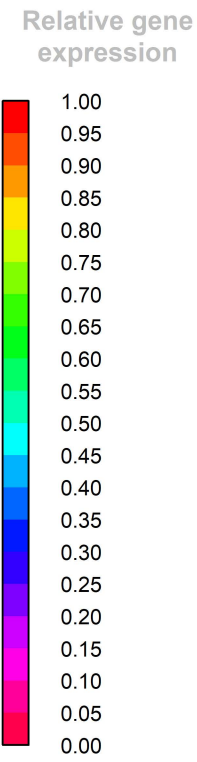


Rywal (NTN)

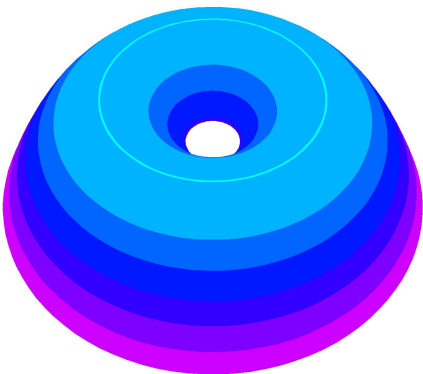


NahG-Rywal (NTN)

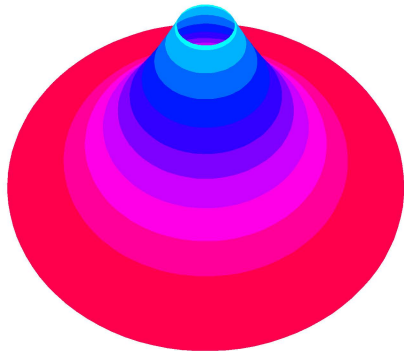
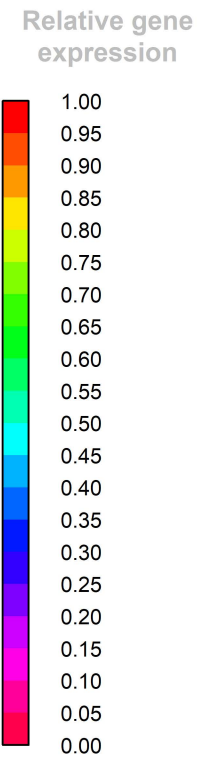
PRX28



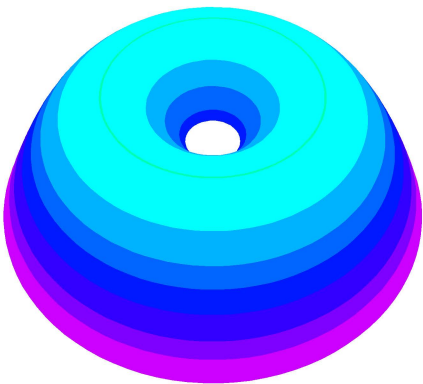
Rywal (Wilga)



NahG-Rywal (Wilga)



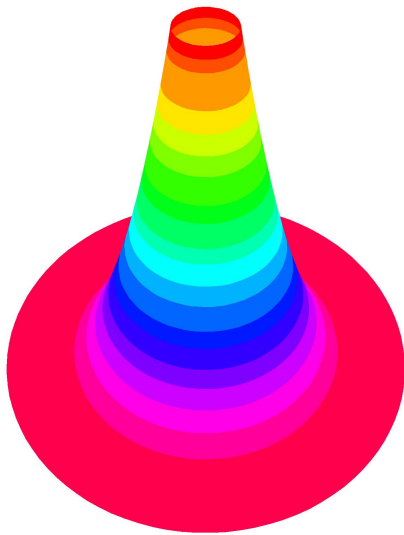
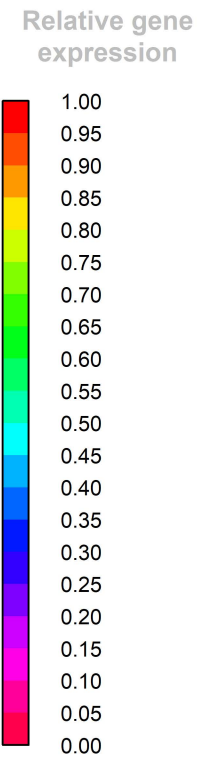
Rywal (NTN)



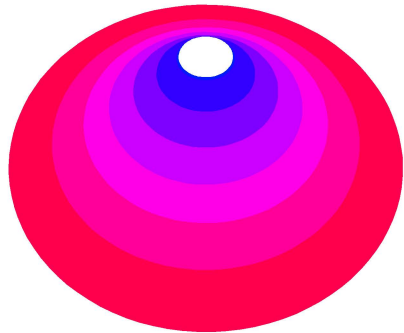
NahG-Rywal (NTN)



RBOHA



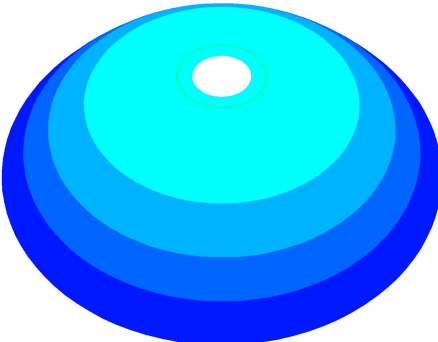
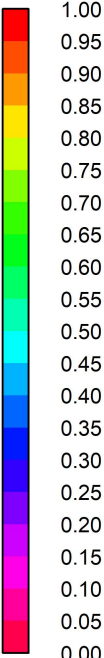
Rywal (Wilga)



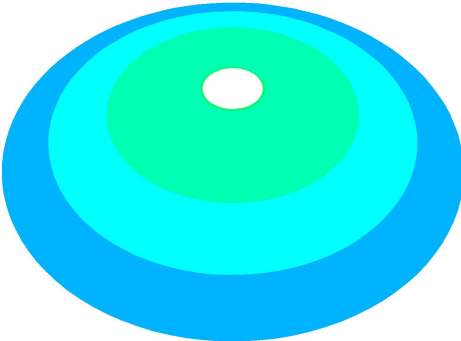
NahG-Rywal (Wilga)

RBOHC

Relative gene  
expression



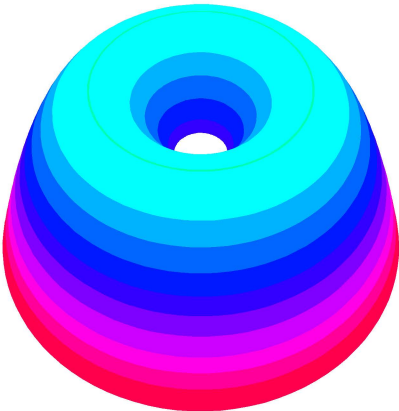
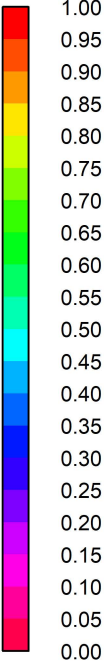
Rywal (Wilga)



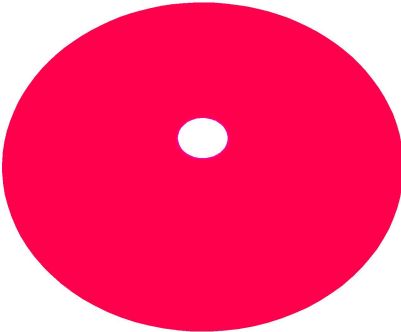
NahG-Rywal (Wilga)

RBOHD

Relative gene  
expression



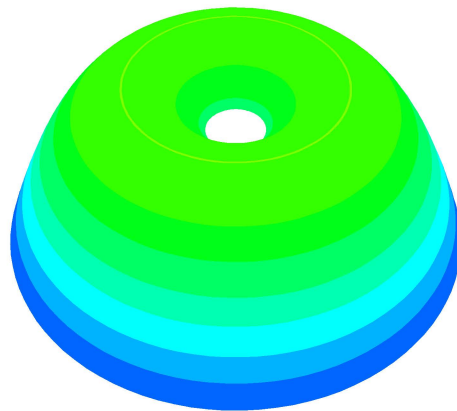
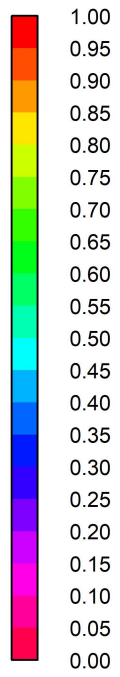
Rywal (Wilga)



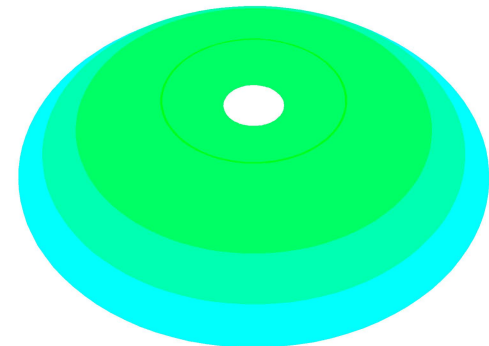
NahG-Rywal (Wilga)

# MKP1

Relative gene  
expression

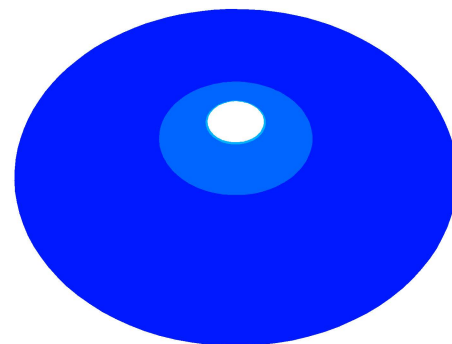
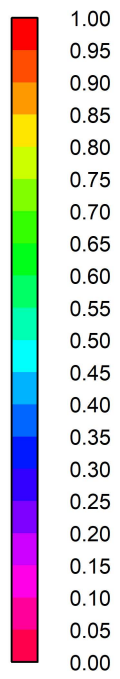


Rywal (Wilga)

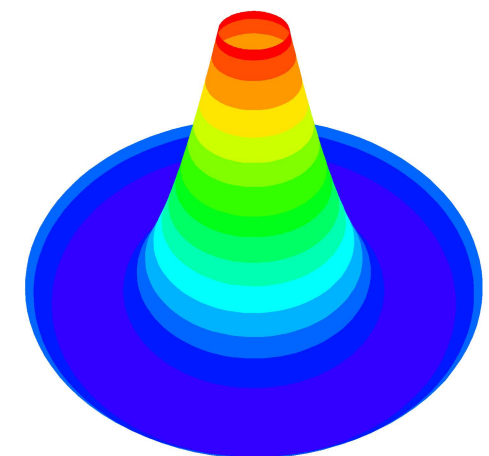


NahG-Rywal (Wilga)

Relative gene  
expression



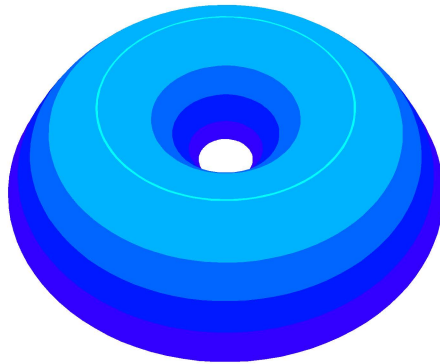
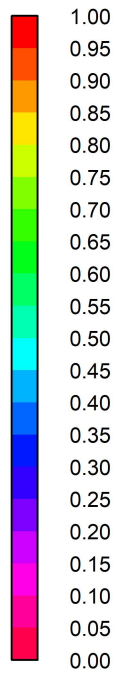
Rywal (NTN)



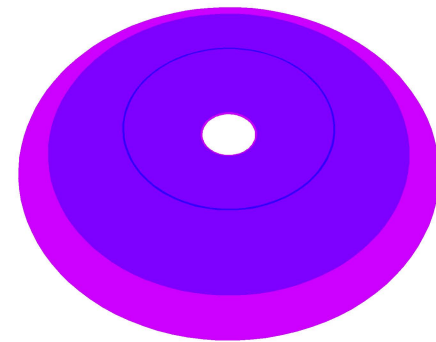
NahG-Rywal (NTN)

# WIPK

Relative gene  
expression

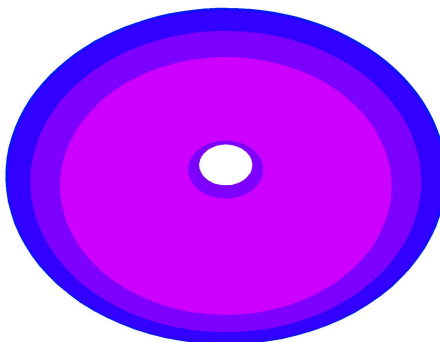
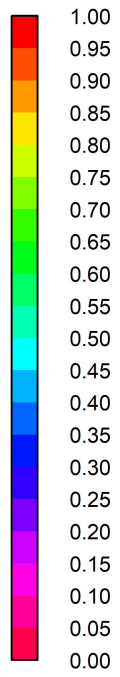


Rywal (Wilga)

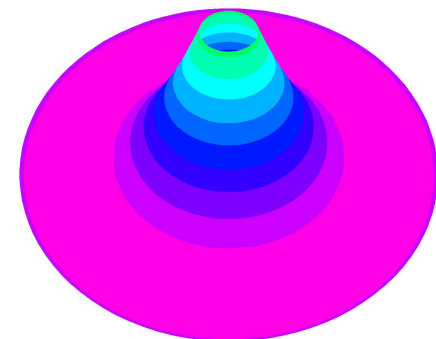


NahG-Rywal (Wilga)

Relative gene  
expression

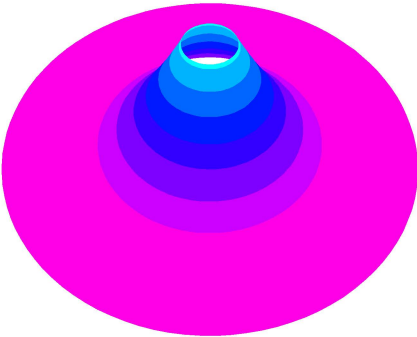
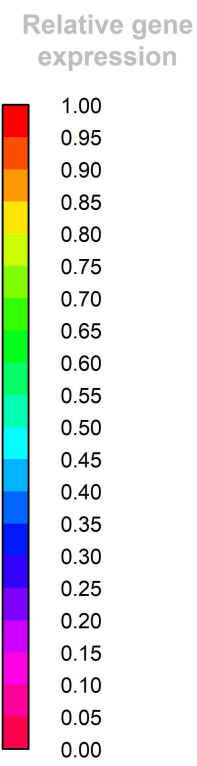


Rywal (NTN)

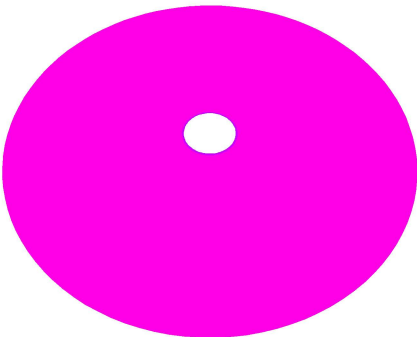


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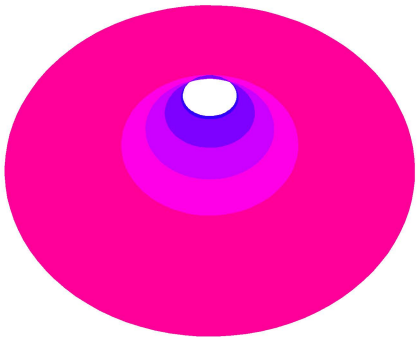
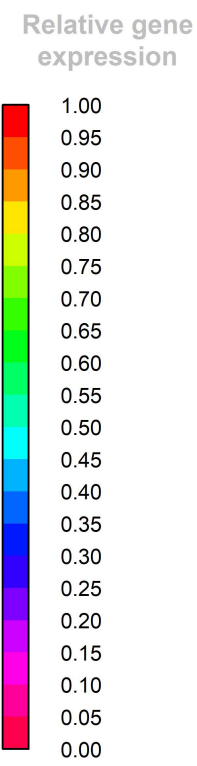
HSP70



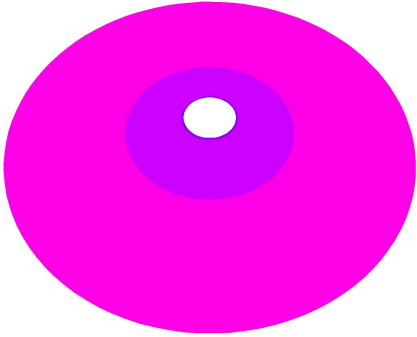
Rywal (Wilga)



NahG-Rywal (Wilga)



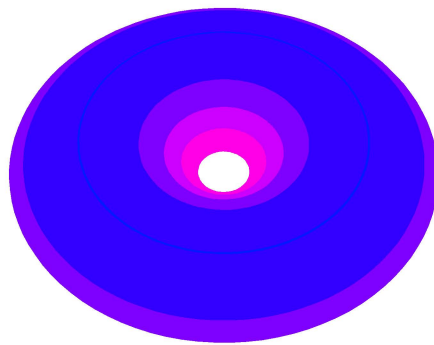
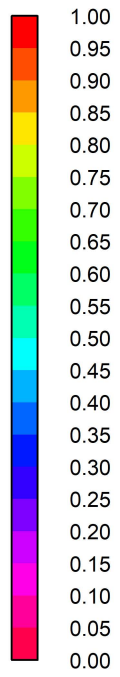
Rywal (NTN)



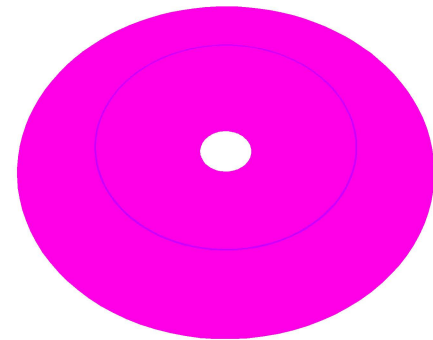
NahG-Rywal (NTN)

## ARF2

Relative gene  
expression

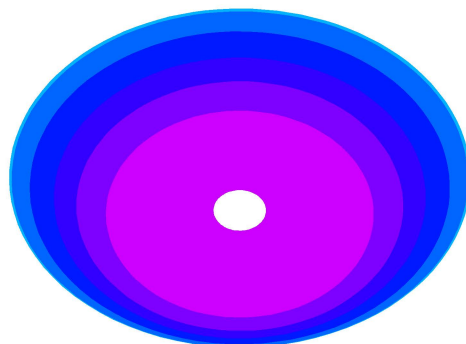
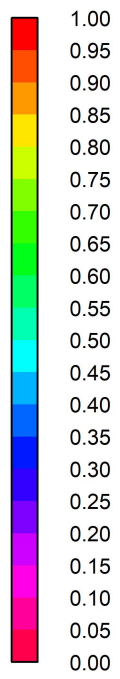


Rywal (Wilga)

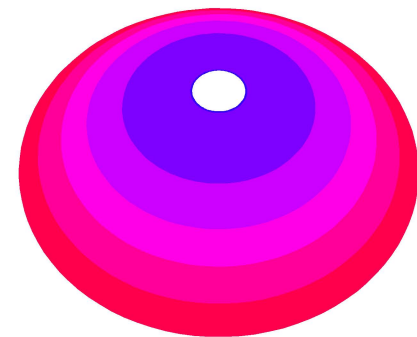


NahG-Rywal (Wilga)

Relative gene  
expression



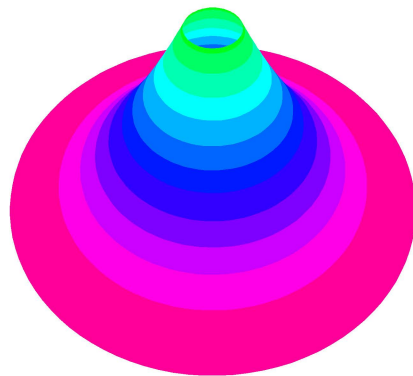
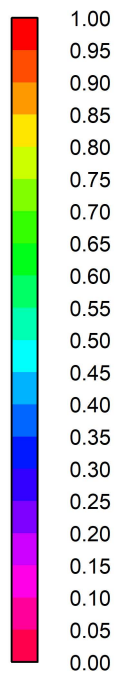
Rywal (NTN)



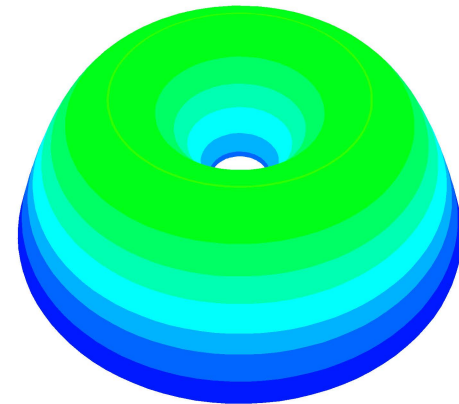
NahG-Rywal (NTN)

# ERF1

Relative gene  
expression

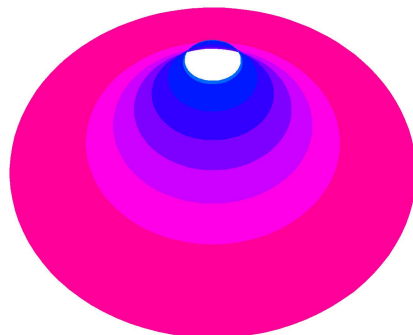
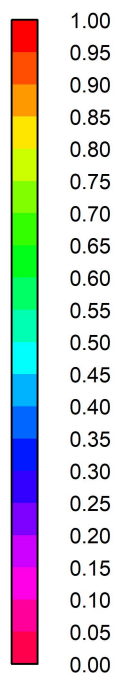


Rywal (Wilga)

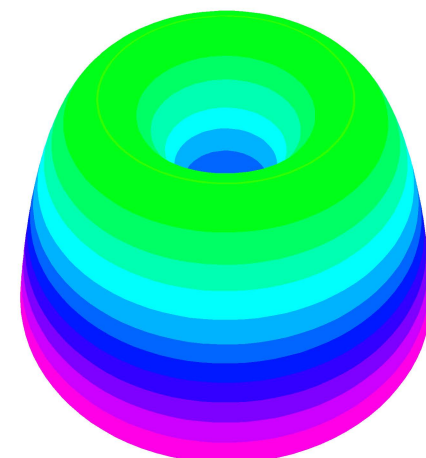


NahG-Rywal (Wilga)

Relative gene  
expression



Rywal (NTN)

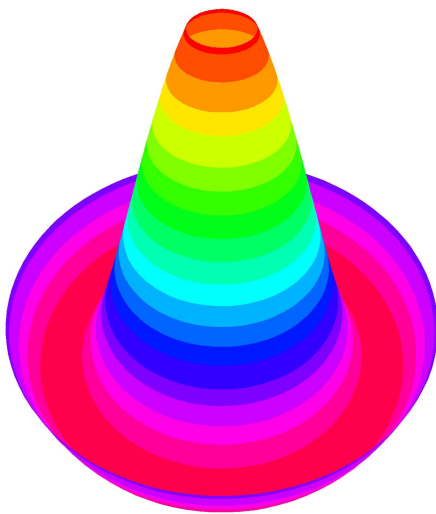


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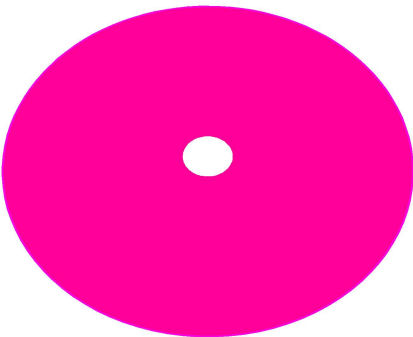


9-LOX

Relative gene  
expression

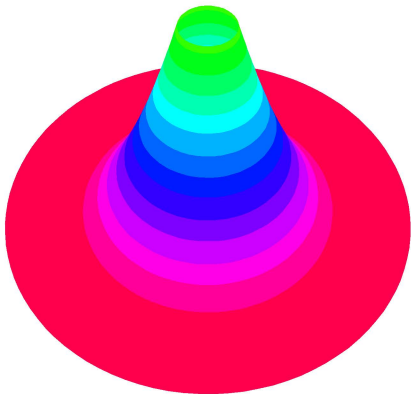
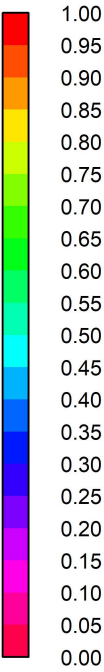


Rywal (Wilga)

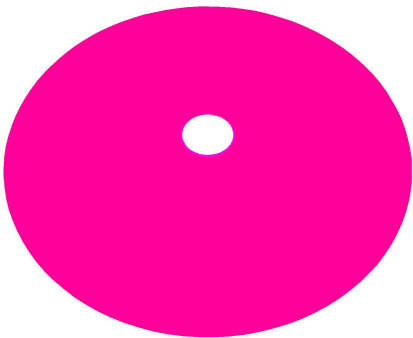


NahG-Rywal (Wilga)

Relative gene  
expression



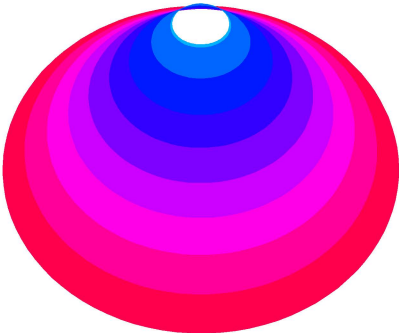
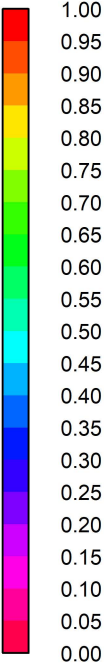
Rywal (NTN)



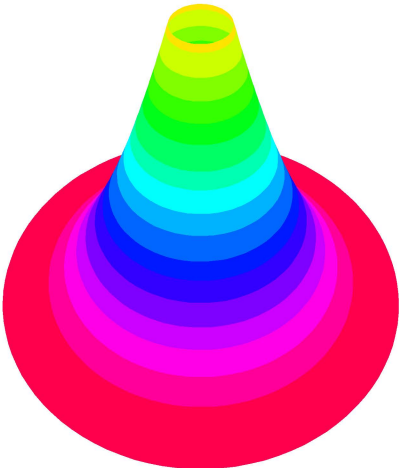
NahG-Rywal (NTN)

13-LOX

Relative gene  
expression



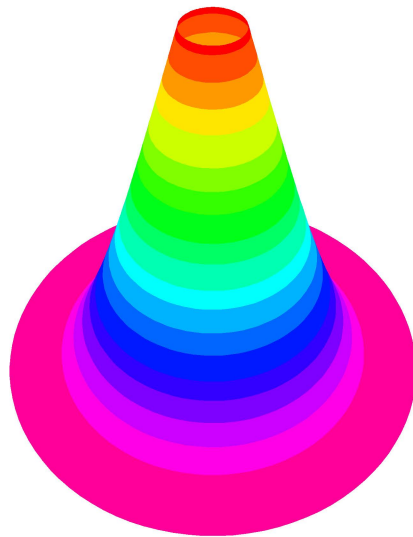
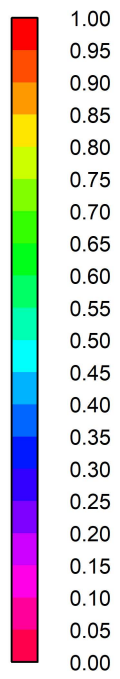
Rywal (Wilga)



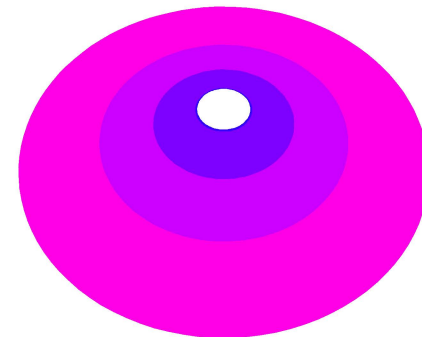
NahG-Rywal (Wilga)

# ACX3

Relative gene  
expression

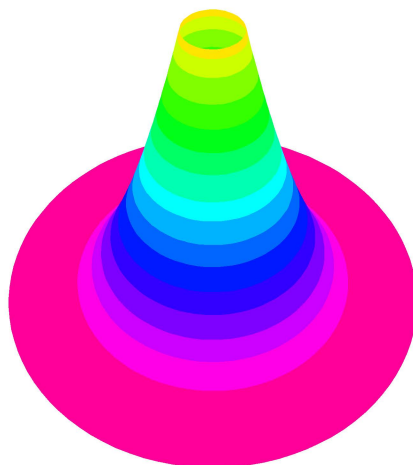
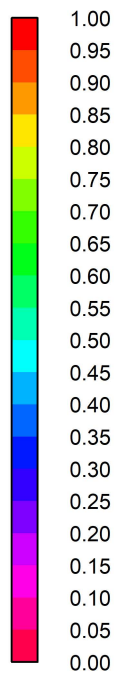


Rywal (Wilga)

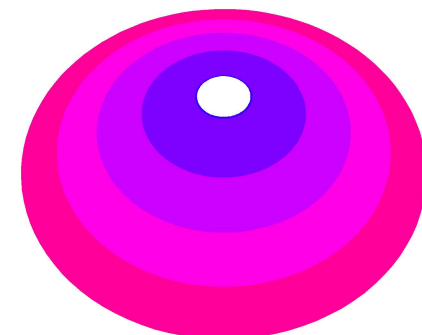


NahG-Rywal (Wilga)

Relative gene  
expression



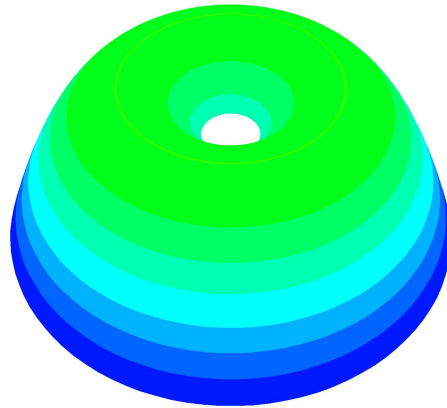
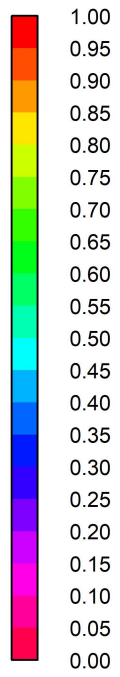
Rywal (NTN)



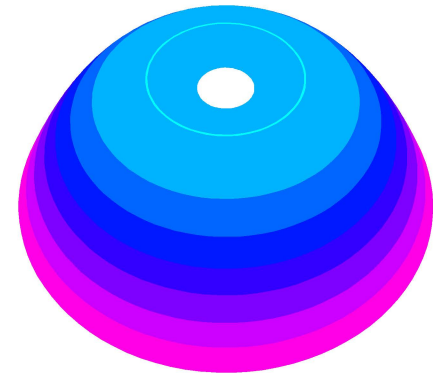
NahG-Rywal (NTN)

## TGA2

Relative gene  
expression

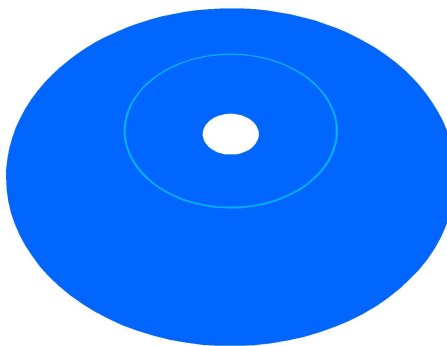
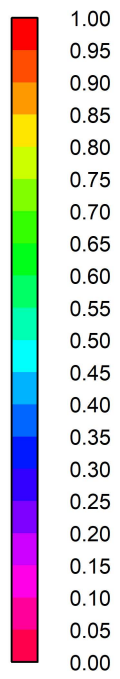


**Rywal (Wilga)**

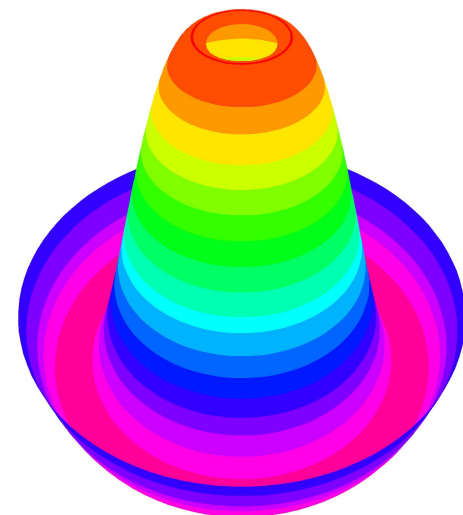


**NahG-Rywal (Wilga)**

Relative gene  
expression

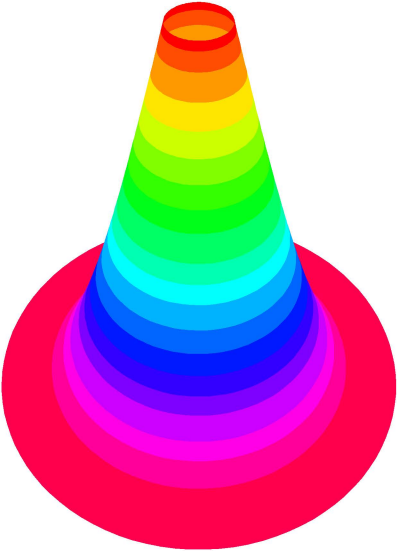
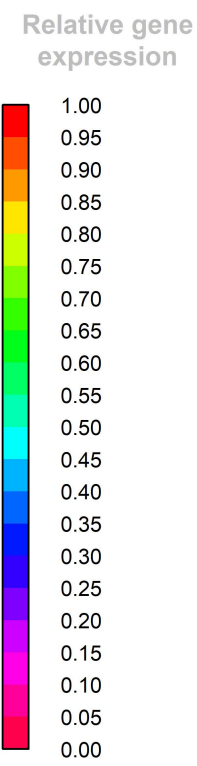


**Rywal (NTN)**

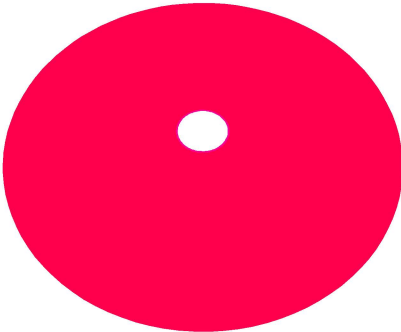


**NahG-Rywal (NTN)**

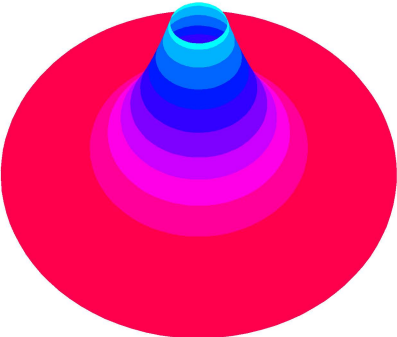
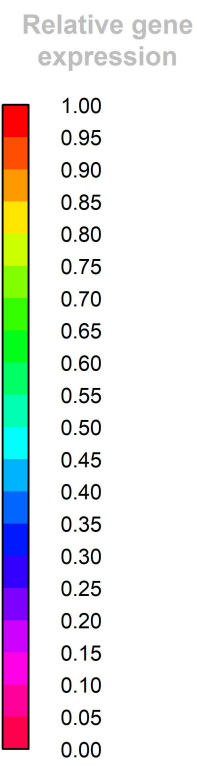
BGLU2



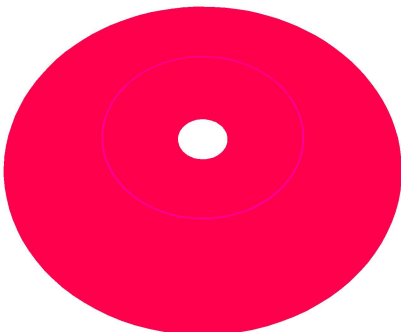
Rywal (Wilga)



NahG-Rywal (Wilga)



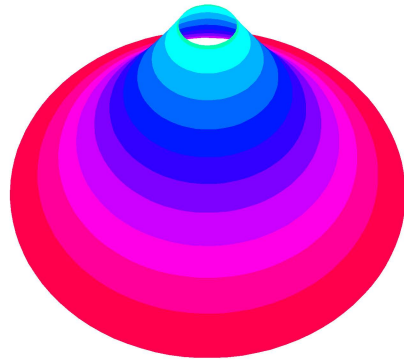
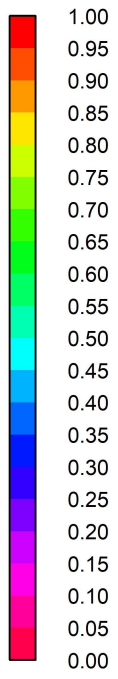
Rywal (NTN)



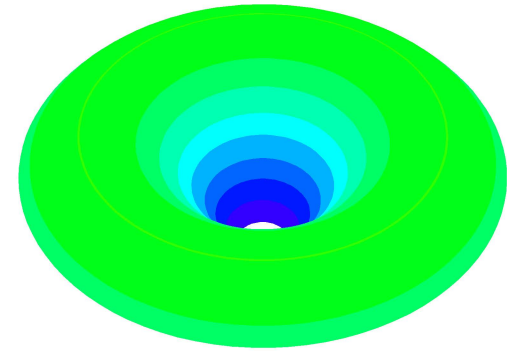
NahG-Rywal (NTN)

# PR1B

Relative gene  
expression

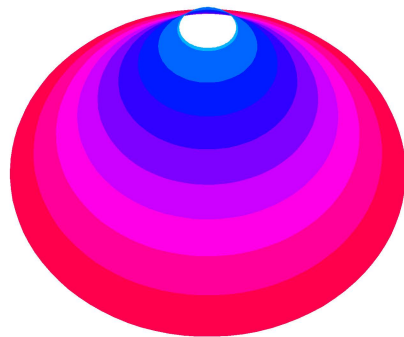
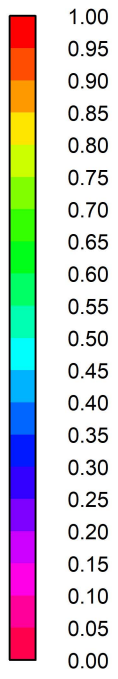


Rywal (Wilga)

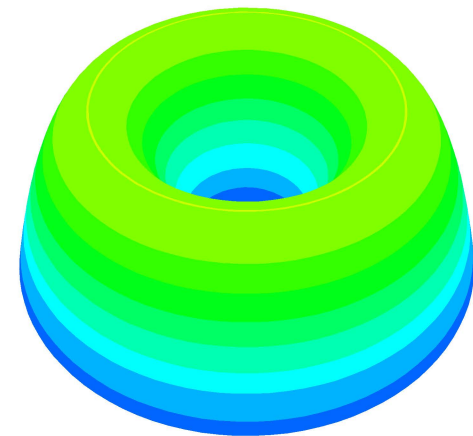


NahG-Rywal (Wilga)

Relative gene  
expression



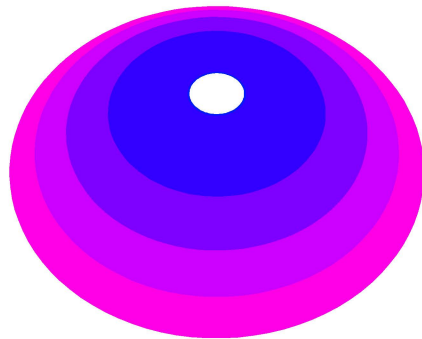
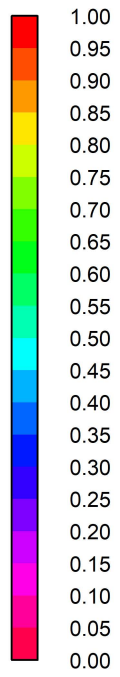
Rywal (NTN)



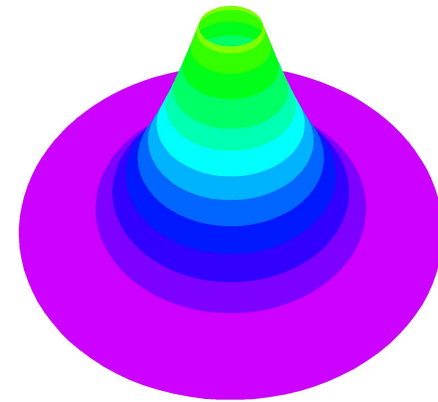
NahG-Rywal (NTN)

# AGO2

Relative gene  
expression



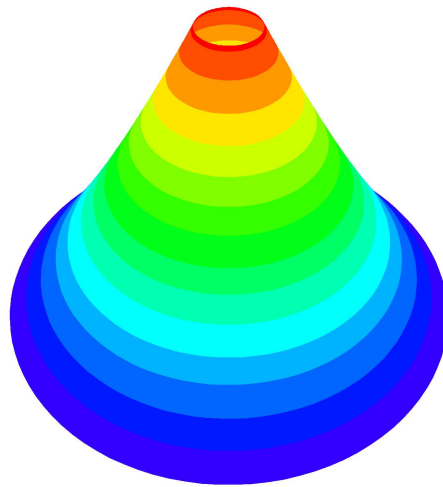
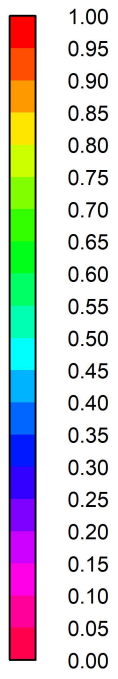
Rywal (Wilga)



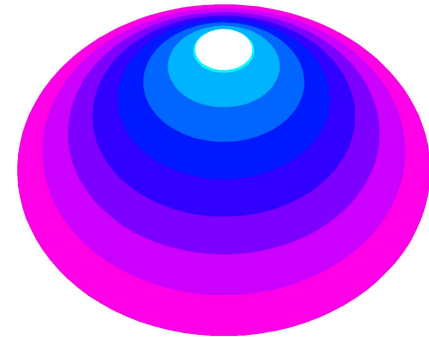
NahG-Rywal (Wilga)

# SAHH

Relative gene  
expression



Rywal (Wilga)

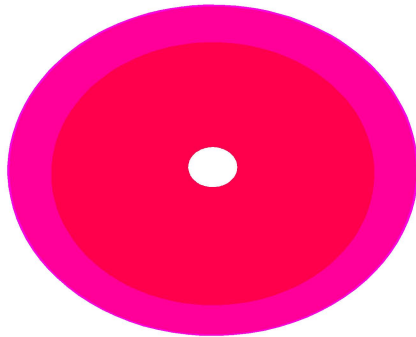
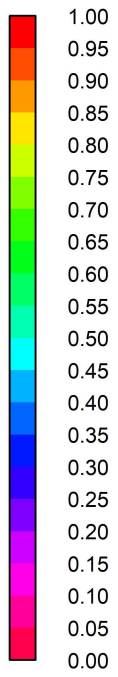


NahG-Rywal (Wilga)

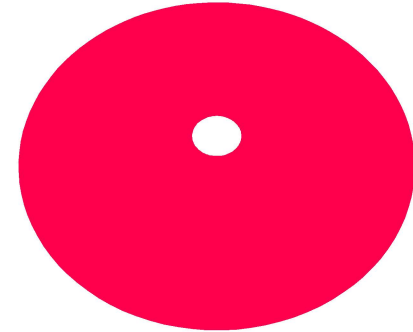


# GBSS1

Relative gene  
expression

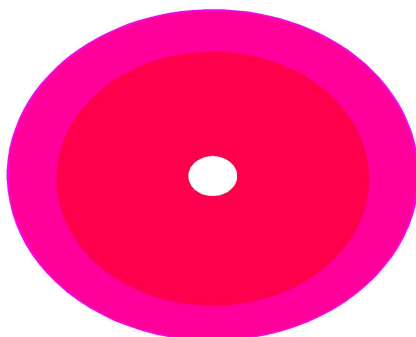
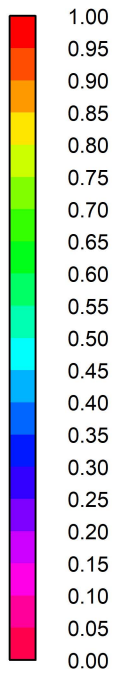


Rywal (Wilga)

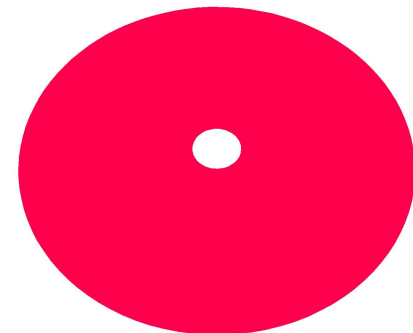


NahG-Rywal (Wilga)

Relative gene  
expression



Rywal (NTN)



NahG-Rywal (NTN)