

*Drug – Endpoint Control Analysis (Coefficient) methodology applied to the **McCullough** **Foundation Report: Determinants of Autism** **Spectrum Disorder*** <https://zenodo.org/records/17451259>

Drug Control Coefficient:

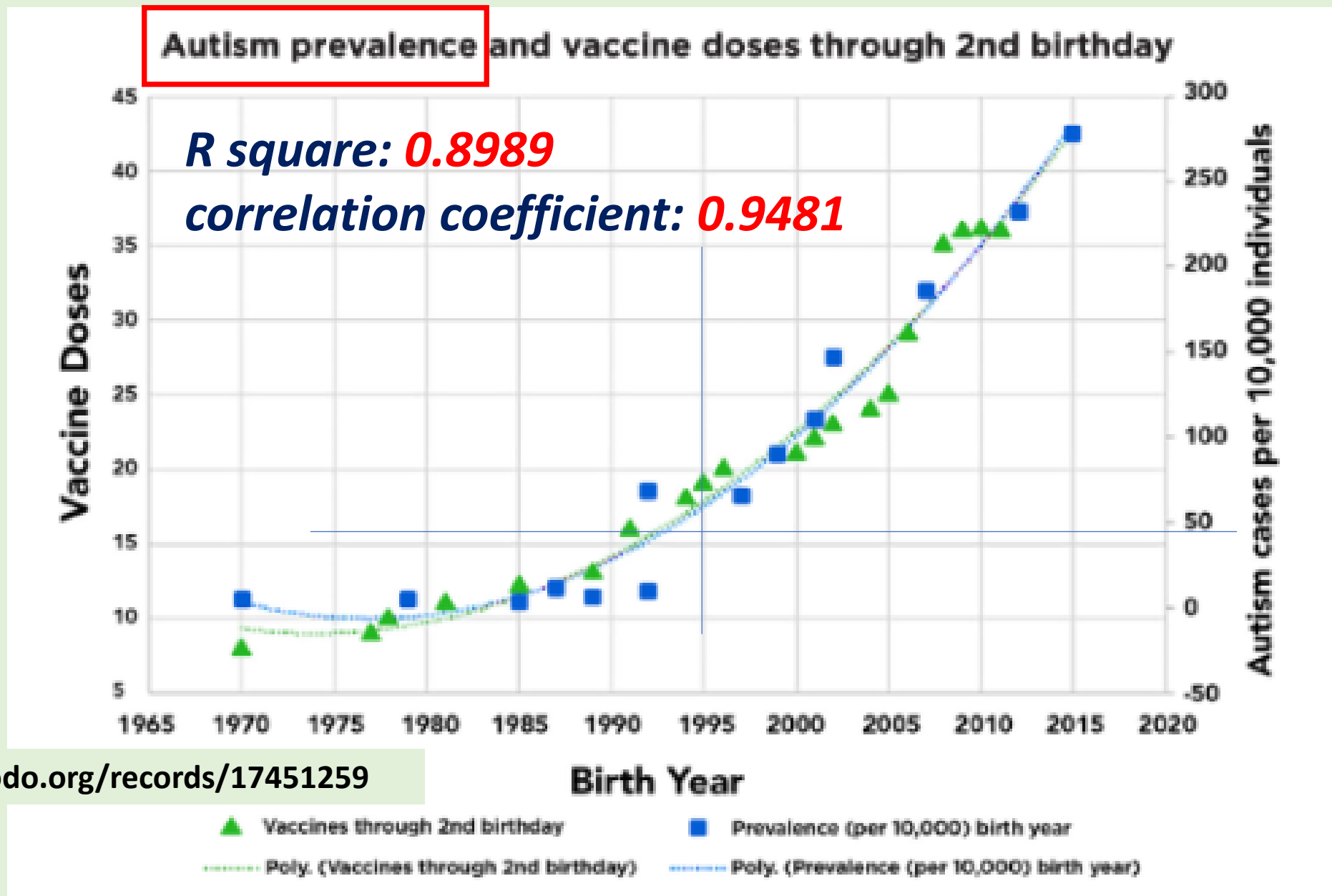
Fractional change in autism occurrence by a fractional change in intervention

<https://doi.org/10.1038/nbt0302-243>

https://en.wikipedia.org/wiki/Henrik_Kacser

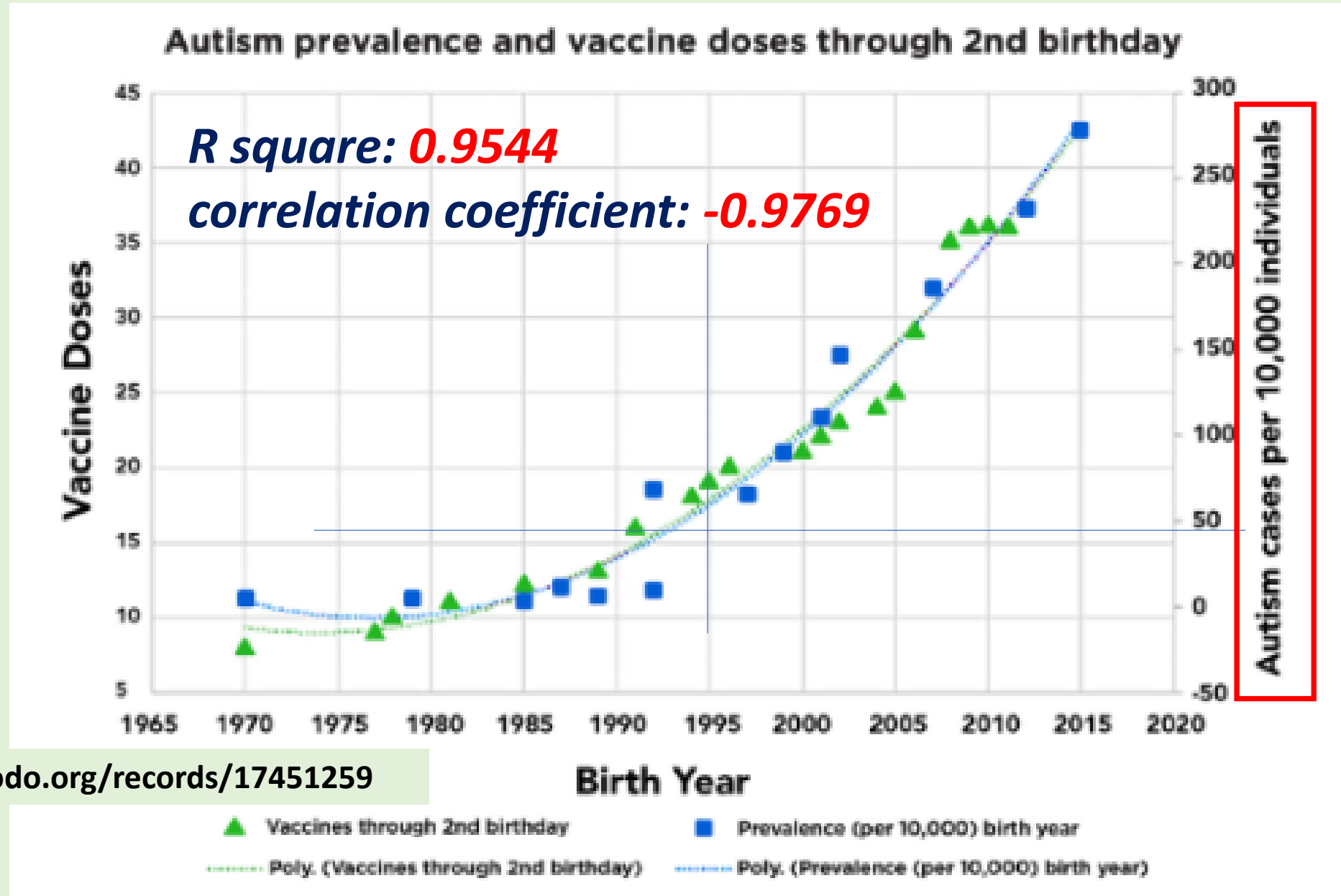
$$C_{E_i}^J = \frac{\Delta J/J}{\Delta E_i/E_i} = \frac{d \ln J}{d \ln E_i}$$

independent variable: vaccine doses - dependent variable: autism prevalence (1000 children-age 8)



<https://zenodo.org/records/17451259>

independent variable: vaccine doses - dependent variable: autism case per (1000 children-age 8)



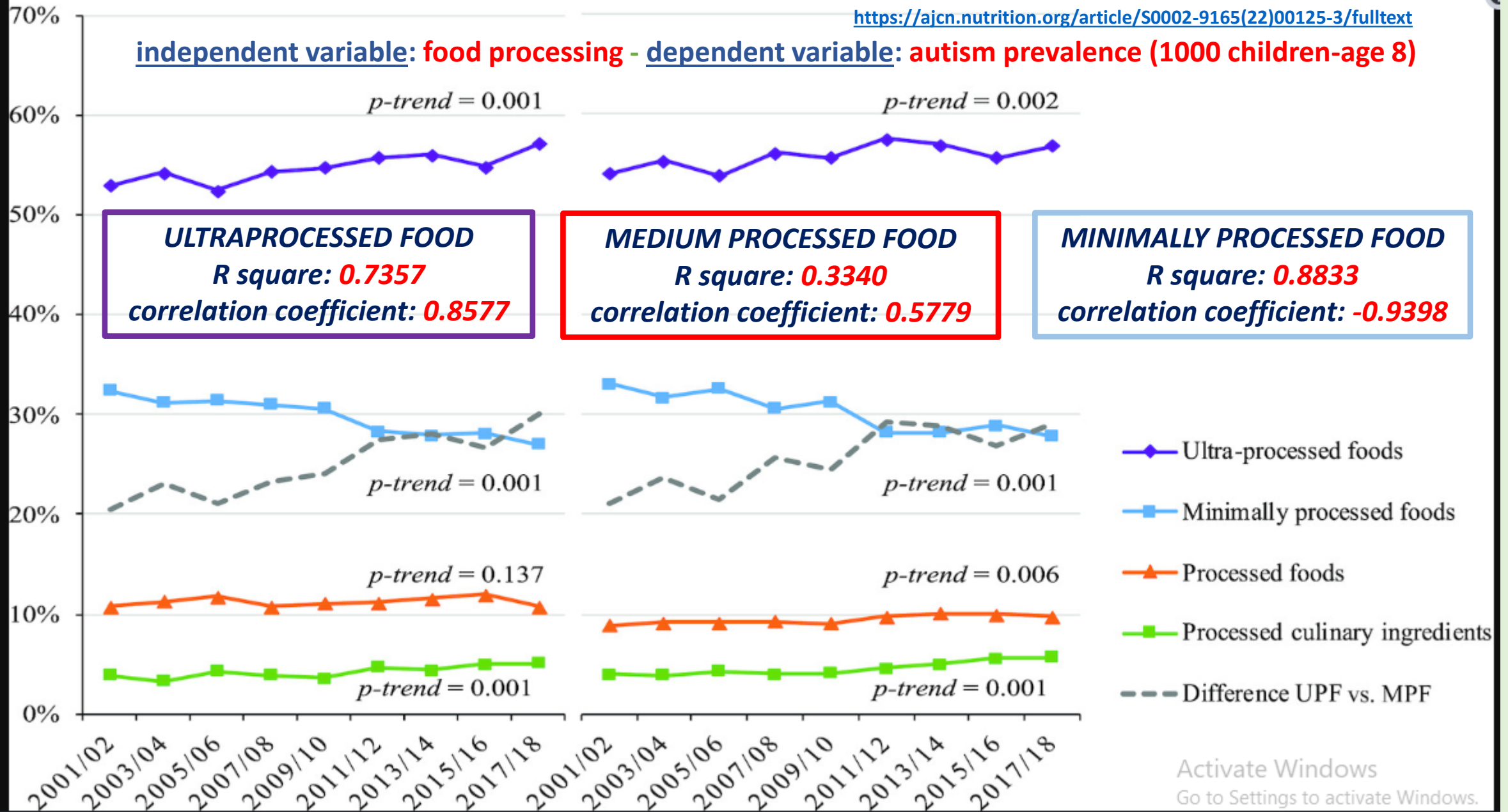
<https://zenodo.org/records/17451259>

MALES

FEMALES

[https://ajcn.nutrition.org/article/S0002-9165\(22\)00125-3/fulltext](https://ajcn.nutrition.org/article/S0002-9165(22)00125-3/fulltext)

independent variable: food processing - dependent variable: autism prevalence (1000 children-age 8)



Activate Windows
 Go to Settings to activate Windows.

independent variable:
glyphosate use in the
USA

dependent variable:
autism prevalence
(1000 children-age 8) in
the USA

https://uwaterloo.ca/scholar/sites/ca.scholar/files/jclapp/files/explaining_growing_glyphosate_use_2021.pdf

<https://doi.org/10.4103/2152-7806.153876>

https://www.organic-systems.org/journal/92/JOS_Volume-9_Number-2_Nov_2014-Swanson-et-al.pdf

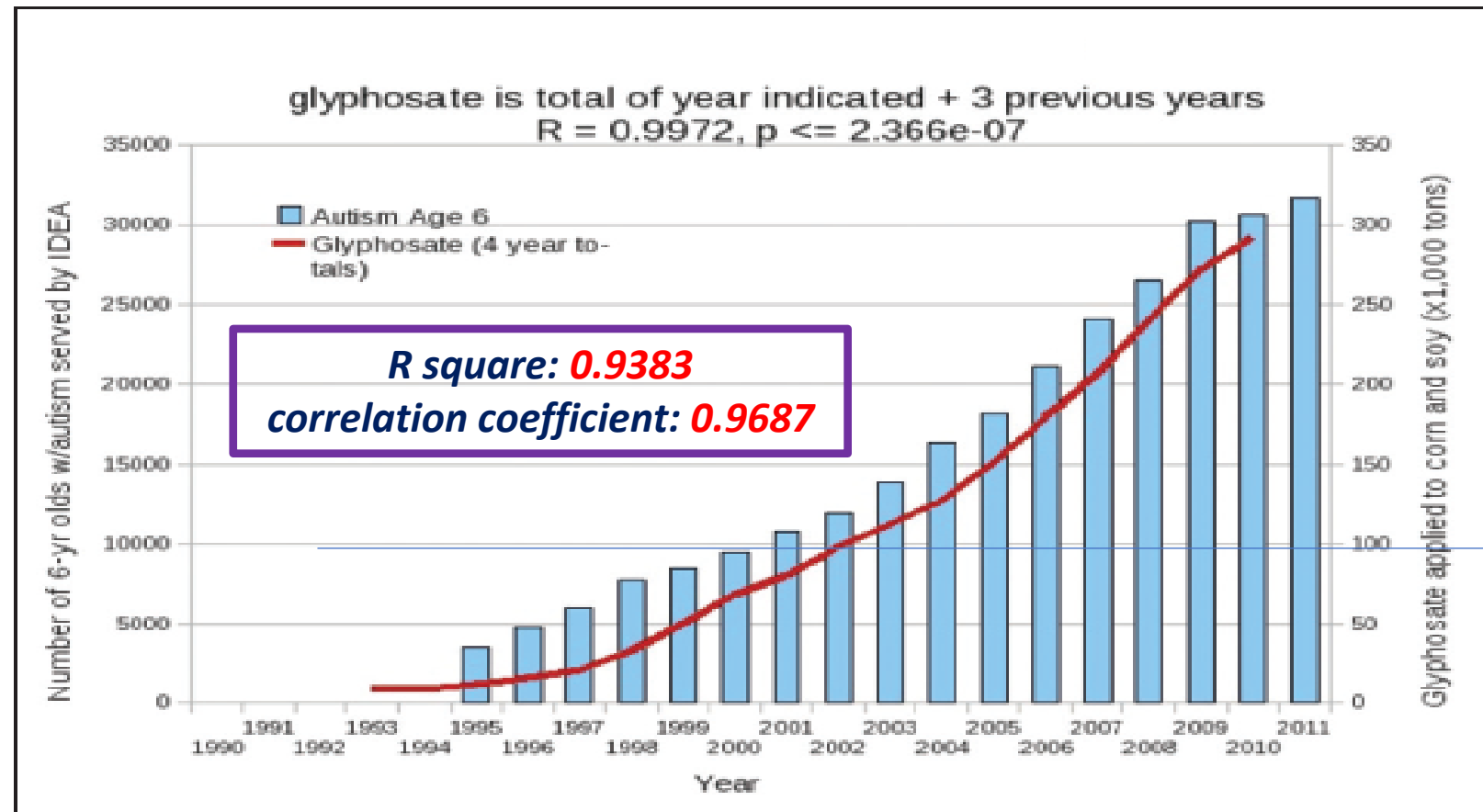


Figure 1: Plots of amount of glyphosate applied to corn and soy crops in the US over the previous 4 years (red), provided by the US Department of Agriculture, compared with number of children enrolled in the first grade in the public school system under the autism category according to the Individuals with Disabilities Education Act (IDEA) (blue bars). (Figure courtesy of Dr. Nancy Swanson)

cumulative effect of glyphosate use and childhood vaccinations on autism in the USA (2000-2012)

fractional change in autism occurrence and childhood vaccinations (<https://zenodo.org/records/17451259>)

R square: 0.8989
correlation coefficient: 0.9481

fractional change in autism occurrence and glyphosate use (<https://zenodo.org/records/17451259> - <https://doi.org/10.4103/2152-7806.153876>)

R square: 0.9383
correlation coefficient: 0.9687

fractional change in autism occurrence, glyphosate use and childhood vaccinations

R square: 0.9725
correlation coefficient: 0.9861