

The Effect of Democracy, Development, Religion and Science on Animal Welfare

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ANIMALS R US

There is **NO** Excuse for Animal Abuse: Safeguard Animal Welfare Across the World

By: Sydney Richardson



“The greatness of a nation and its moral progress can be judged by the way its animals are treated.”

-Ghandi

Road Map for Understanding the Topic

- Choose Countries
 - *United States*
 - *Spain*
 - *New Zealand*
 - *India*
 - *Sweden*
- Research Laws Governing Animal Welfare
- Animal Welfare ➡ Animal Rights
- Determine Correlation Coefficient (r)

r value	Correlation
-1	Perfect negative
-0.7	Strong negative
-0.5	Moderate negative
-0.3	Weak negative
0	No linear
0.3	Weak positive
0.5	Moderate positive
0.7	Strong positive
1	Perfect positive

The Animal Protection Index (API)

Ranking of 5 Countries in 5 Categories with Overall API grade.

	Recognizing Animal Protection	Governance Structures and Systems	Animal Welfare Standards	Providing Humane Education	Promoting Communication and Awareness	Overall Grade
New Zealand	91.70	95	85	65	95	95 (A)
Sweden	89.40	85	78.30	65	75	85 (B)
Spain	73.90	85	71.70	65	75	75 (C)
India	76.10	85	65	65	85	75 (C)
USA	70.60	85	71.70	65	85	65 (D)

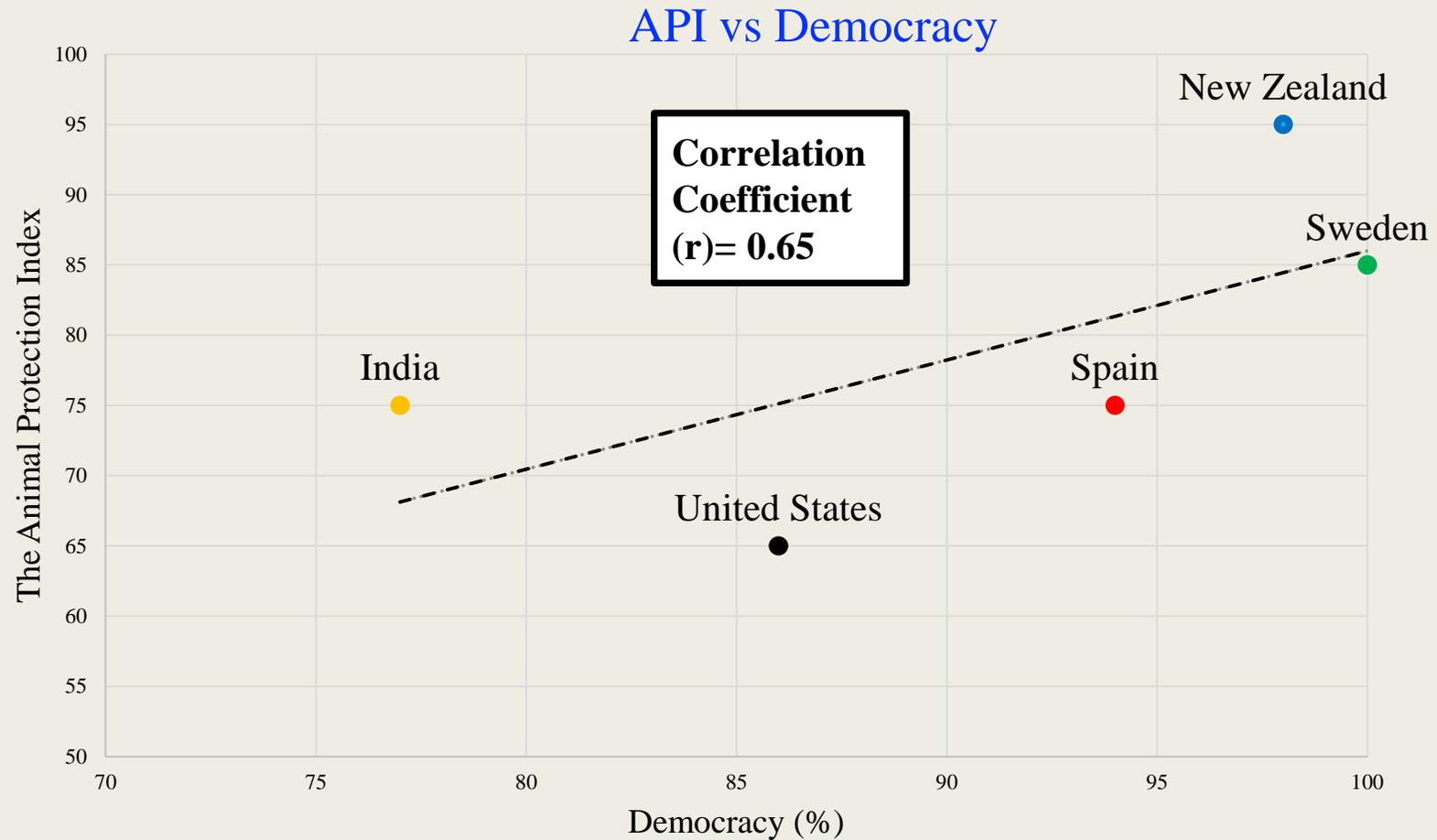
Research Method: Measuring the Variables

- Animal Protection Index (API) as the Dependent Variable
- Independent Variables:
 - *Democracy*
 - Freedom House (0=least free, 100=most free)
 - *Development*
 - GDP/Capita - CIA World Factbook (Per Capita GDP as a Percentage of Global Per Capita GDP)
 - HDI - Human Development Index (0= least developed, 1.0=most developed)
 - *Religion*
 - Non Religion
 - Hinduism
 - Christianity
 - Post Materialism
 - *Science*
 - Citable Documents (Cited Documents as a Percentage of total documents published by the Country)
 - H-Index – Hirsh Index (SCImago Journal)
- Comparison using Pearson Analysis to determine the Coefficient of Correlation

Hypotheses

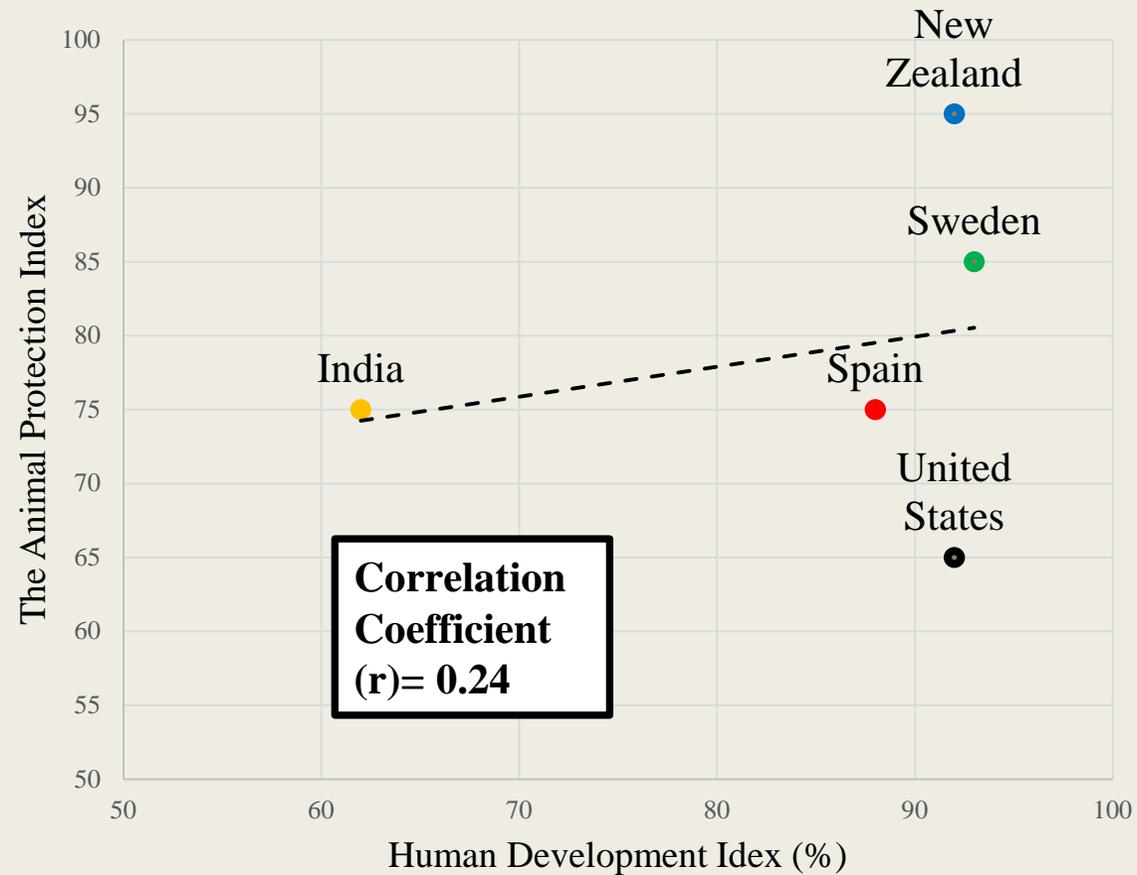
- Democracy
 - *More Free → Higher API Score*
- Development
 - *More Developed → Higher API Score*
- Religion
 - *Predominantly Non-Religious → Higher API Score*
 - *High % of Post-Materialism → Higher API Score*
 - *Predominantly Hindu Countries → Higher API Score*
 - *Predominantly Christian Countries → Lower API Score*
- Science
 - *Higher H-Index → Higher API Score*
 - *More Cited Documents → Higher API Score*

Positive Correlation of API v. Democracy

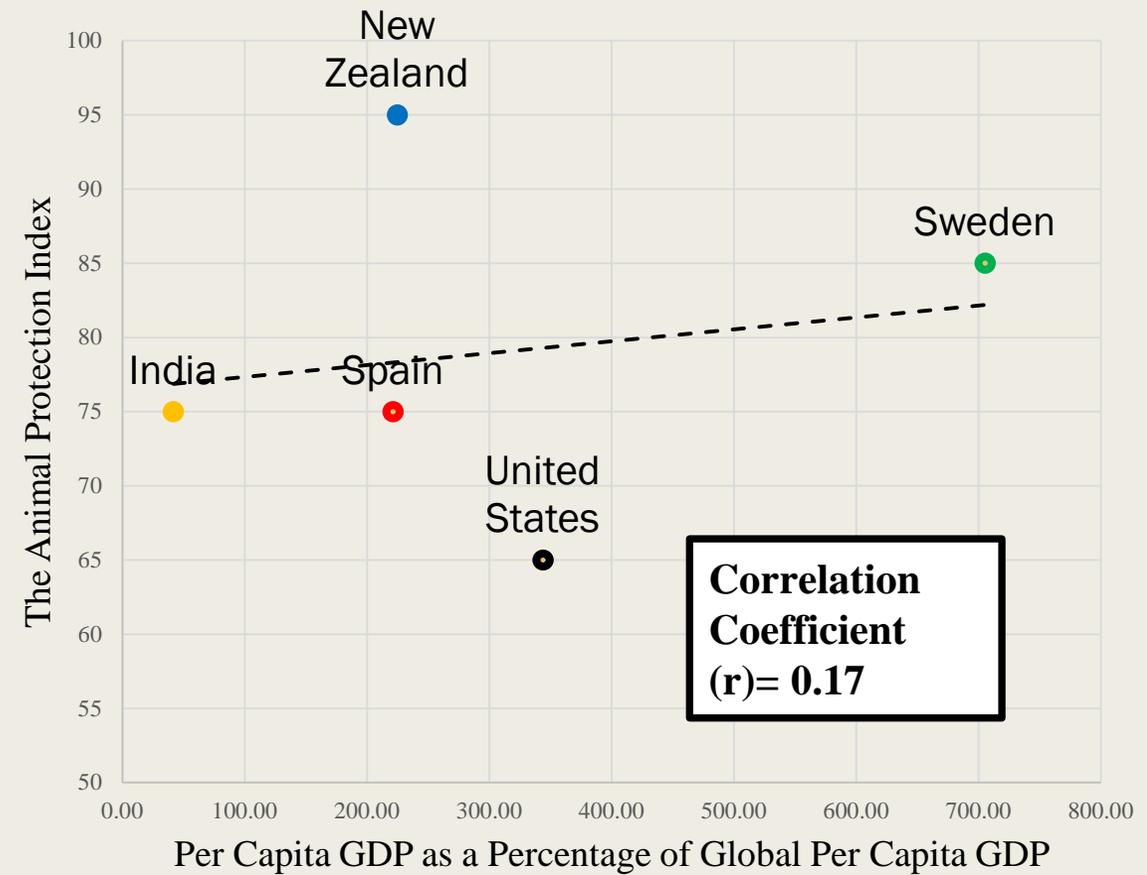


Correlation of API v. Development: None for HDI; None for GDP/Capita

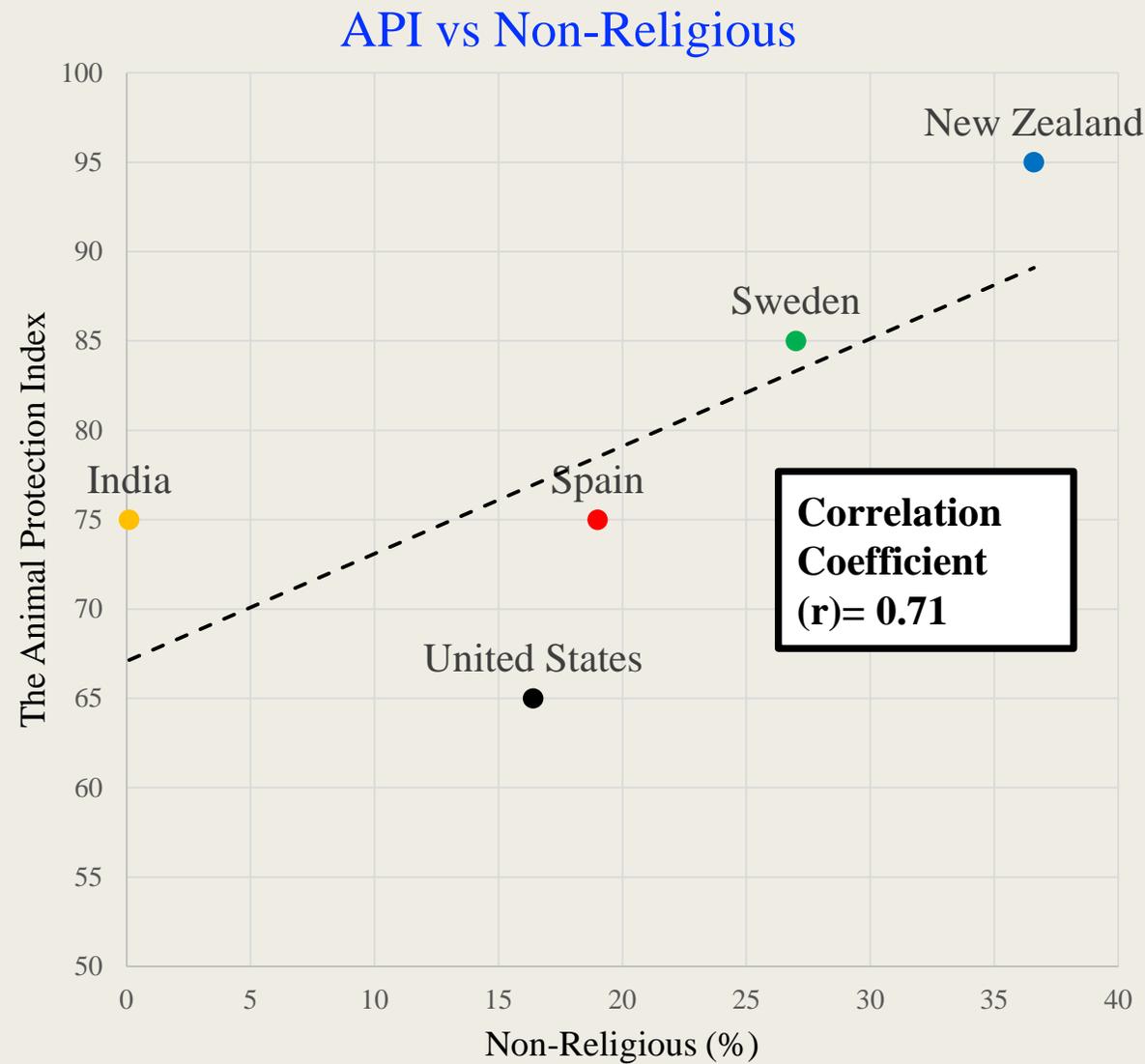
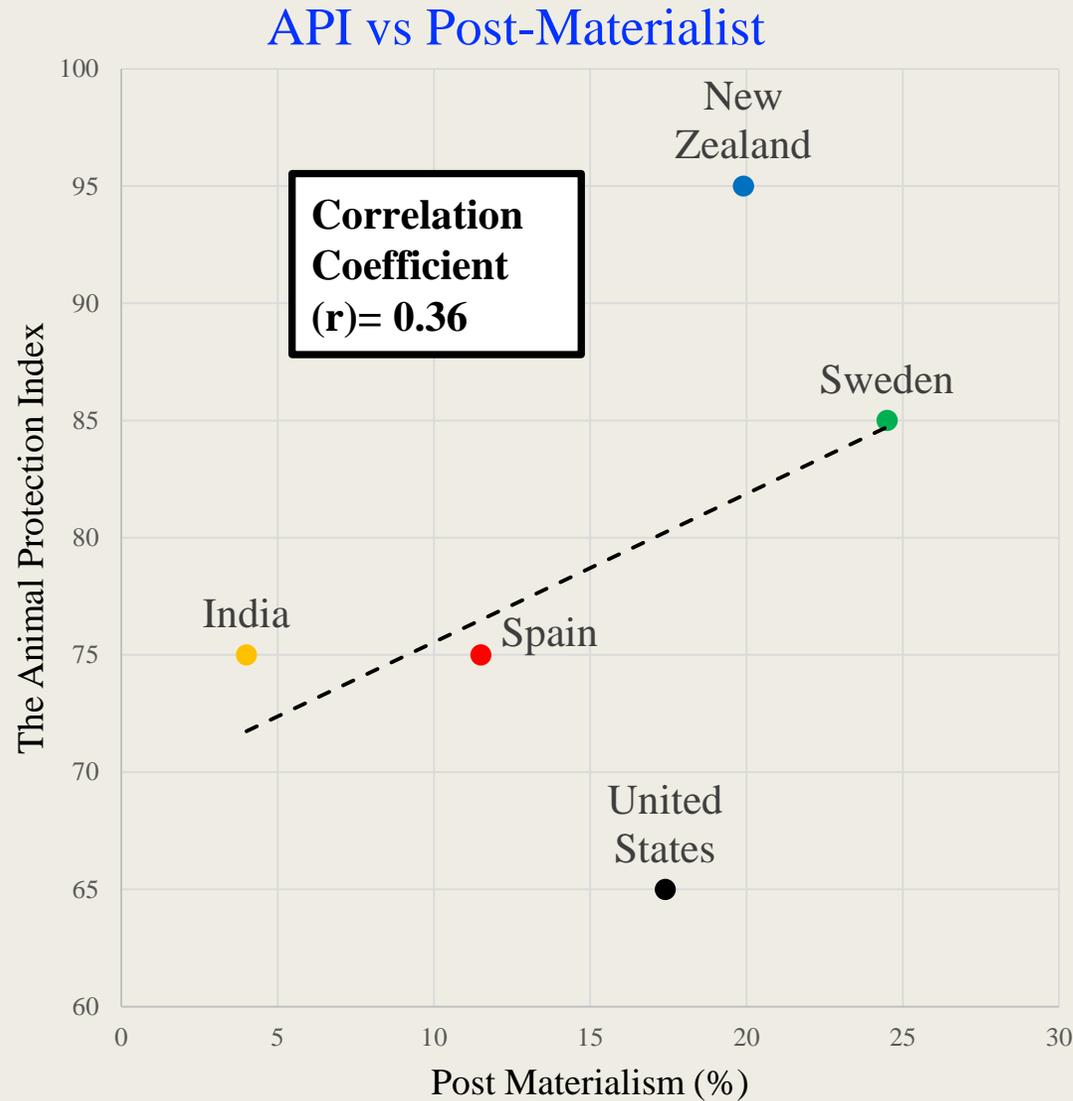
API vs Human Development Index (HDI)



API vs GDP/Capita

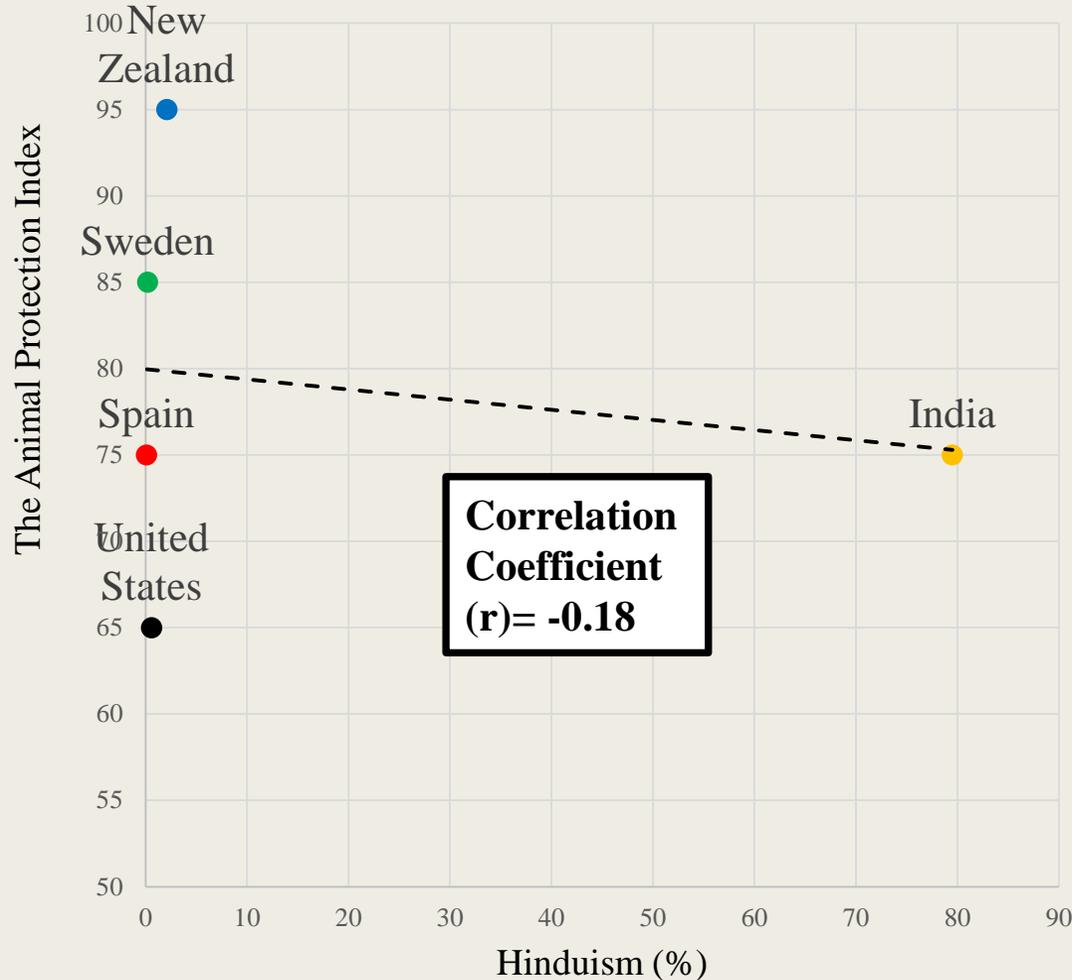


Correlation of API vs Religion: Weak Positive for Post-Materialism; Strong Positive for Non-Religious,

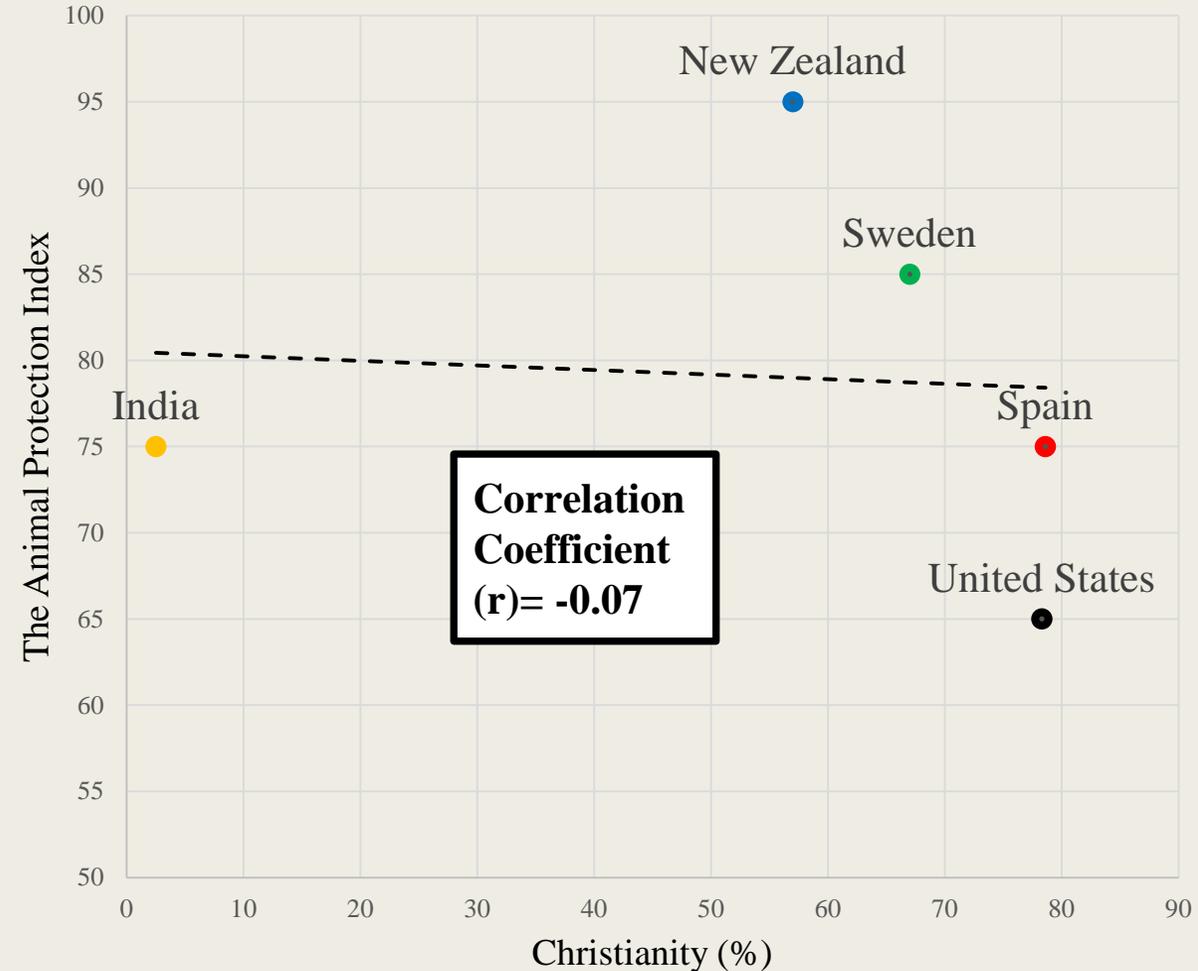


Correlation of API v. Religion: None for Hinduism; None for Christianity

API vs Hinduism

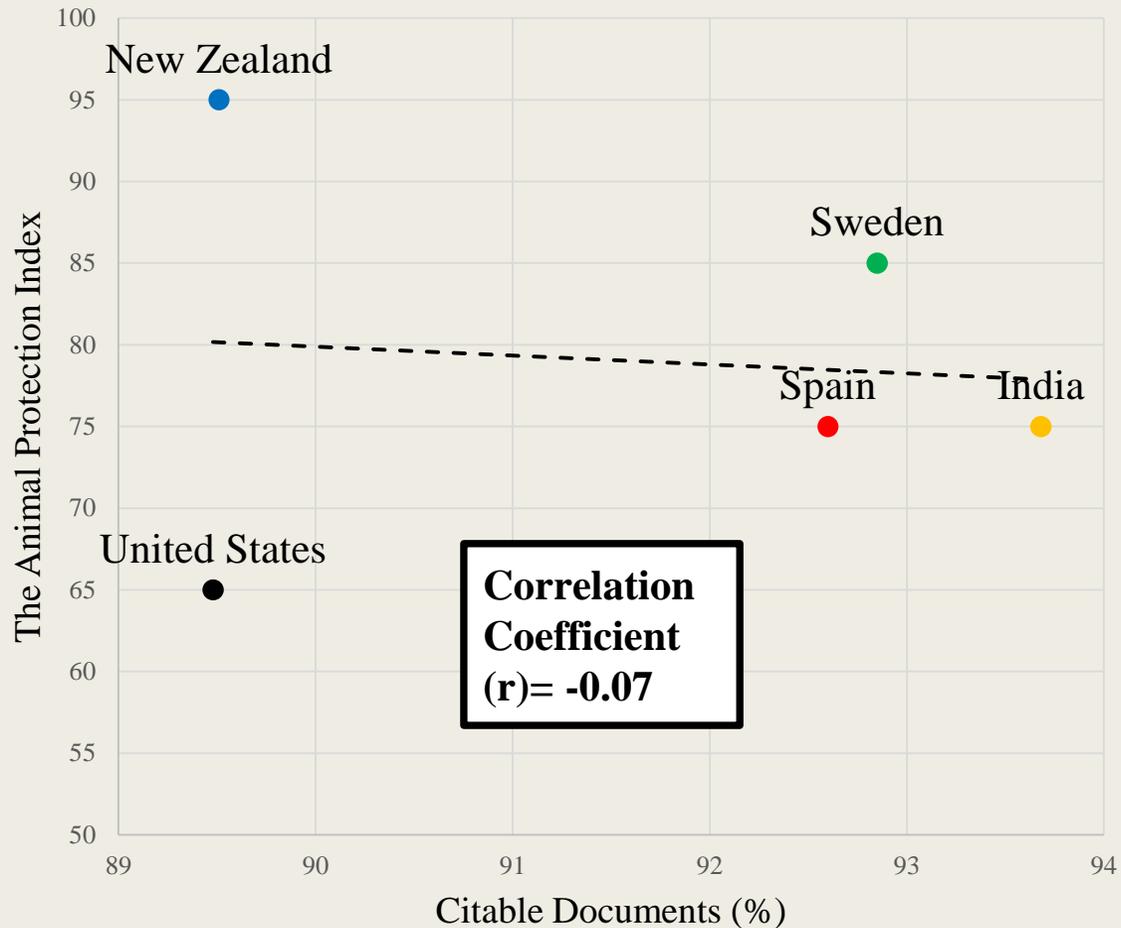


API vs Christianity

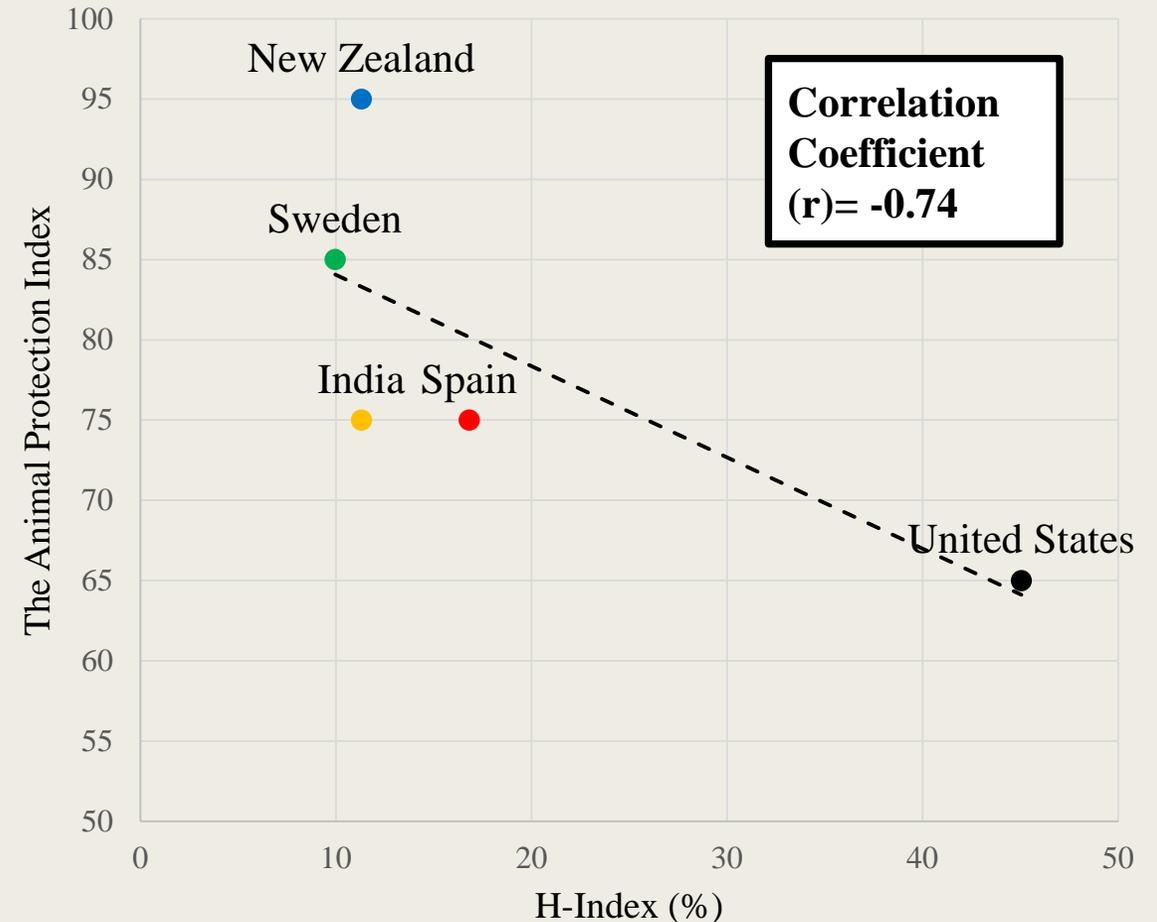


Correlation of API vs Science: None for Citable Documents; Strong Negative with H-Index

API vs Citable Documents



API vs H-Index



Reviewing the Results with Respect to API

■ Strong Positive Correlations

- *% Non-Religious*

■ Positive Correlation

- *Democracy*

■ Weak Positive Correlation

- *Post-Materialism*

■ Strong Negative Correlation

- *H-Index*

■ No Correlation

- *HDI*
- *Per Capita GDP*
- *Hinduism*
- *Christianity*
- *Citable Documents*

Reviewing the Hypotheses

Hypothesis Category	Hypothesis	Hypothesis Correct?
Democracy	More Free → Higher API Score	YES
Development	More Developed → Higher API Score	NO
Religion	High % of Post-Materialism → Higher API Score Predominantly Hindu Countries → Higher API Score Predominantly Christian Countries → Lower API Score Predominantly Non-Religious → Higher API Score	NO with respect to Post-Materialism, Hinduism, or Christianity YES with respect to Non-Religious
Science	Higher H-Index → Higher API Score More Cited Documents → Higher API Score	NO

Discussion

- Democracy (Positive) and Non-Religion (Strong Positive) have a significant relationship with the API
 - *Freedom to create independent organizations and demand action*
 - *Not tethered to certain ideologies*
- The larger the H-Index (Strong Negative), the lower the score on the API
 - *Science hinders Animal Welfare Advancement*
 - *More Rock stars of science means more science utilizing animals*

So what?

- The way we treat animals reflects on the way we treat other human beings
- Humans are part of the Kingdom Animalia and share many basic characteristics with other animals

	Rats	Pigs	Domestic Dogs	Boy (man)	Gorilla
Kingdom	Animalia	Animalia	Animalia	Animalia	Animalia
Phylum	Chordata	Chordata	Chordata	Chordata	Chordata
Class	Mammalia	Mammalia	Mammalia	Mammalia	Mammalia
Order	Rodentia	Artiodactyla	Carnivora	Primates	Primates
Family	Muridae	Suidae	Canidae	Hominidae	Hominidae
Genus	<i>Rattus</i>	<i>Sus</i>	<i>Canis</i>	<i>Homo</i>	<i>Gorilla</i>
Species	<i>R. norvegicus</i>	<i>S. domestica</i>	<i>C. lupus</i>	<i>H. sapiens</i>	<i>G. gorilla</i>

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QUESTIONS?



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