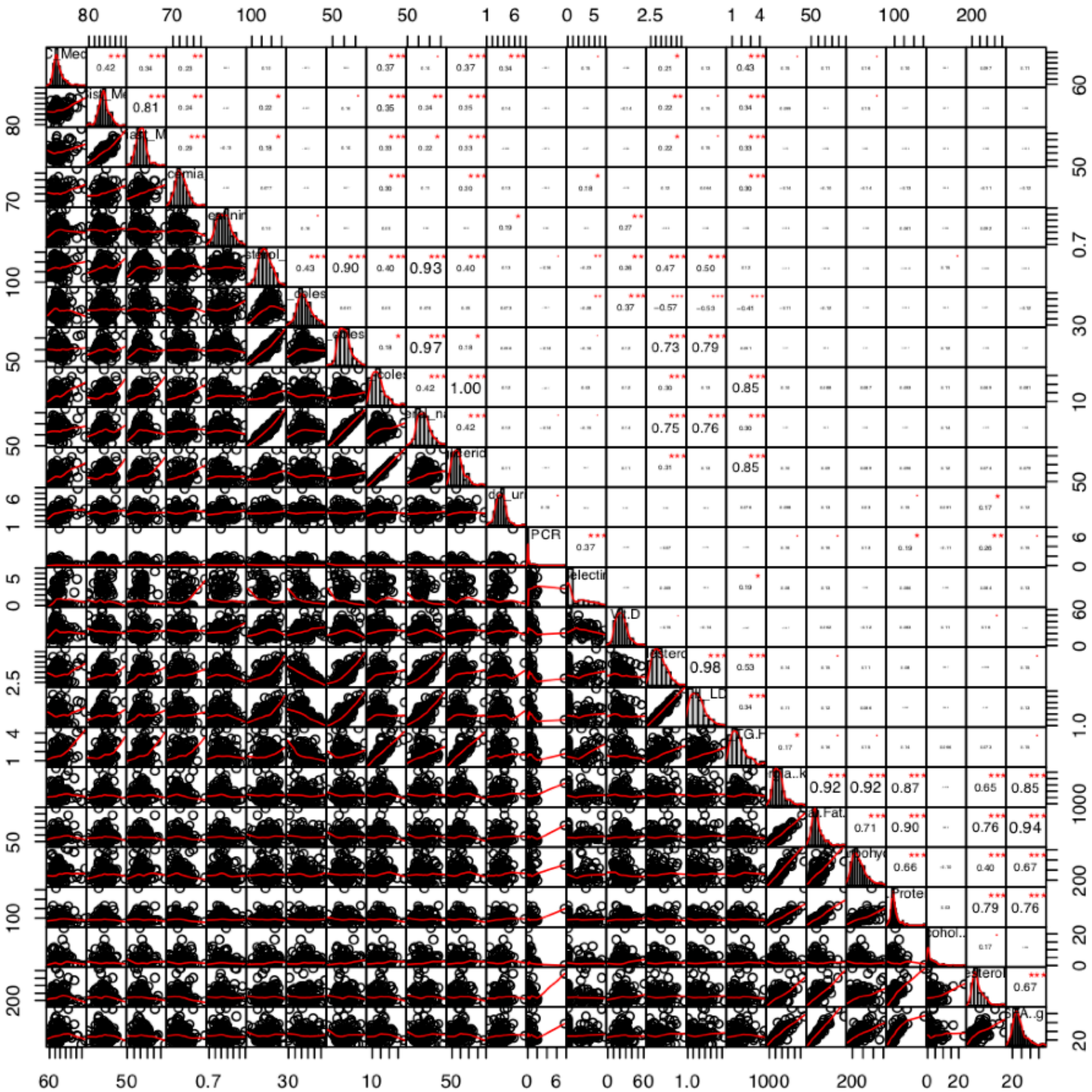
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0.42 0.34 0.23 0.37 0.37 0.34 0.43
0.81 0.24 0.22 0.35 0.34 0.35 0.34
0.29 0.18 0.33 0.22 0.33 0.22 0.33
0.30 0.30 0.18 0.27 0.30
0.43 0.90 0.40 0.93 0.40 0.36 0.47 0.50
0.37 −0.57 −0.53 −0.41
0.18 0.97 0.18 0.73 0.79
0.42 1.00 0.30 0.85
0.42 0.75 0.76 0.30
0.31 0.85
0.17
PCR 0.37 0.19 0.26
0.98 0.53 0.34
0.37 0.92 0.92 0.87 0.65 0.85
0.71 0.90 0.76 0.94
0.66 0.40 0.67
0.79 0.76
0.17
0.67

- Amplamente usadas para inferir associação.
- Geralmente vendidas como causa ou consequência.

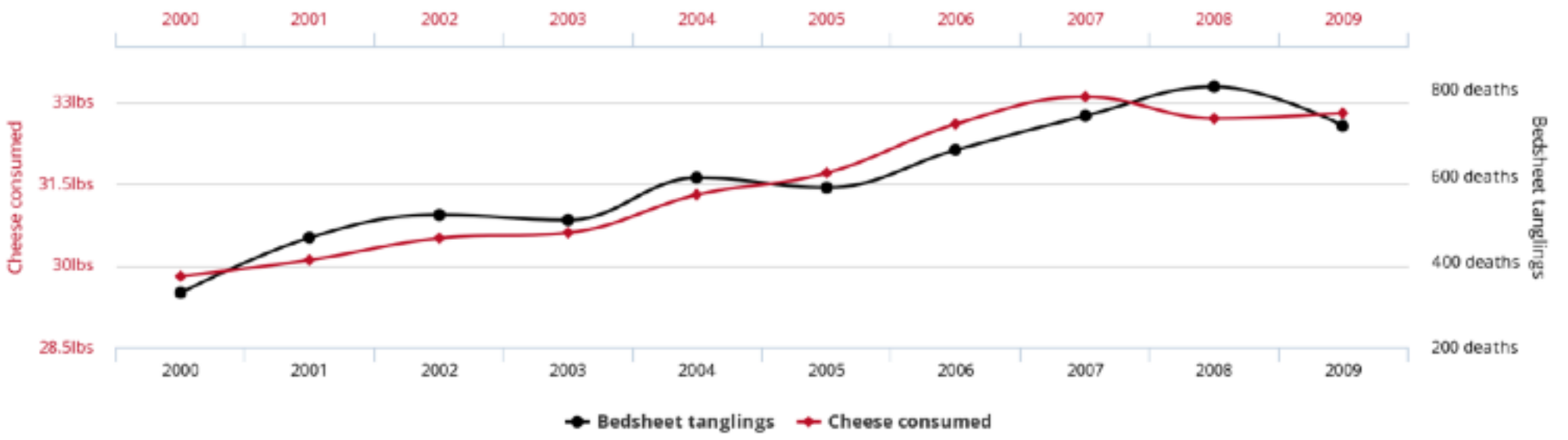
- A armadilha do “Big Data".
  - Correlações espúrias

As correlações

Per capita cheese consumption

correlates with

Number of people who died by becoming tangled in their bedsheets



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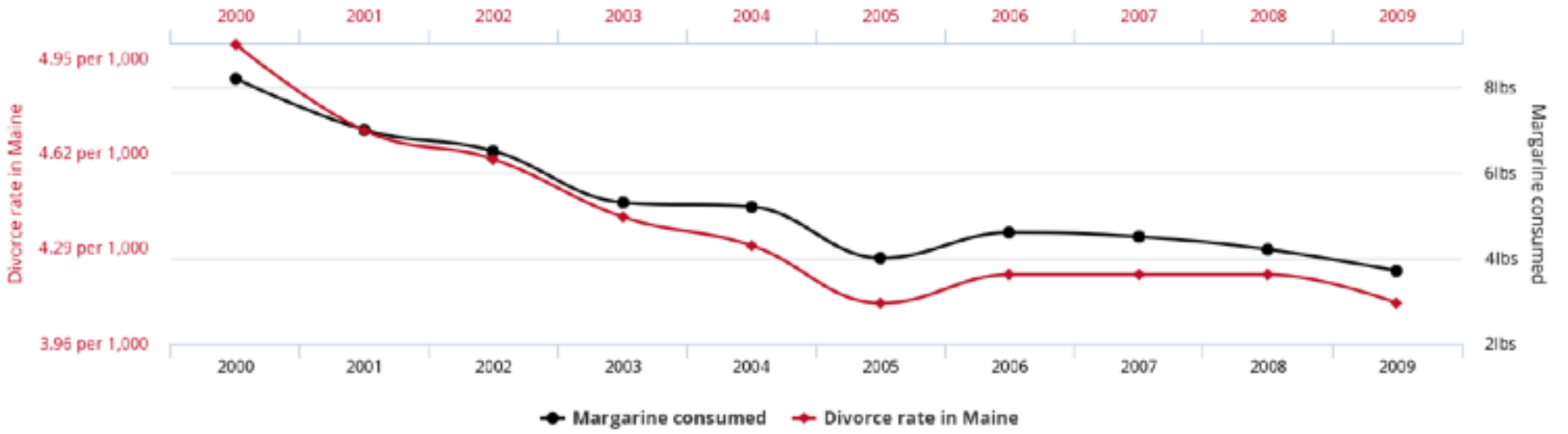
Divorce rate in Maine

correlates with

Per capita consumption of margarine



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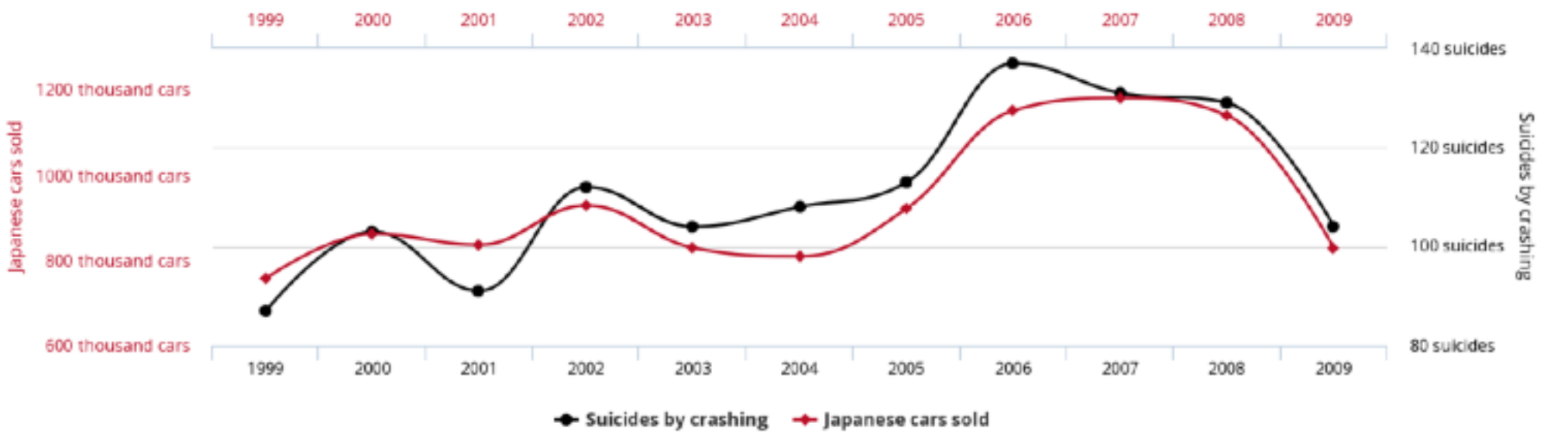
Japanese passenger cars sold in the US

correlates with

Suicides by crashing of motor vehicle



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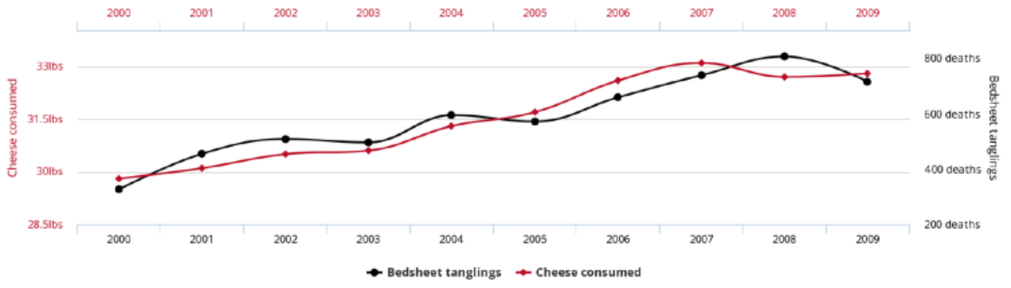
LIVE
breakyourownnews.com
BREAKING NEWS
BEDSHEET LAWS REVISED
12:02
TANGLING IS A RELEVANT CAUSE OF DEATH IN FRANCE AND IN MINAS GERAIS STATE

LIVE
breakyourownnews.com
BREAKING NEWS
MARAGRINE ADS AREN'T TRUE
14:14
KEEP YOUR FAMILY TOGETHER, AVOID MARGARINE IN YOUR BREAKFAST.

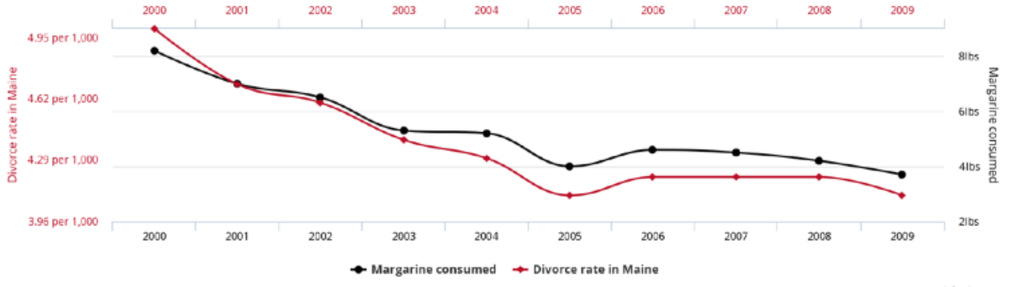
LIVE
breakyourownnews.com
BREAKING NEWS
JAPANESE CARS: HELL ON WHEELS
12:10
JAPANESE CARS ARE SO BAD THAT MAKE THE OWNERS WANT TO DIE

As correlações

Per capita cheese consumption
correlates with
Number of people who died by becoming tangled in their bedsheets



Divorce rate in Maine
correlates with
Per capita consumption of margarine



Japanese passenger cars sold in the US
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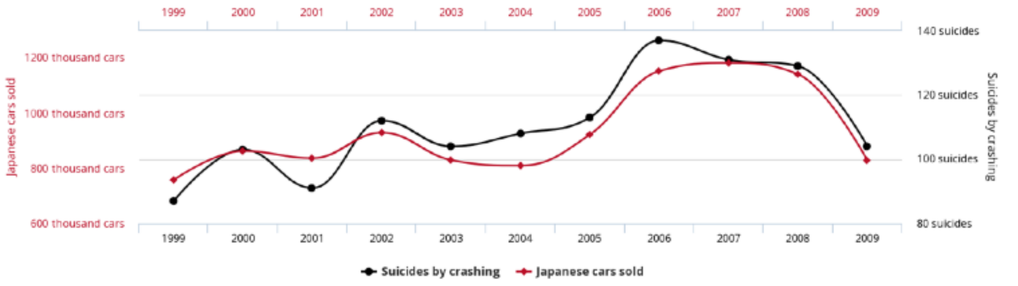
Suicides by crashing of motor vehicle



Jarking

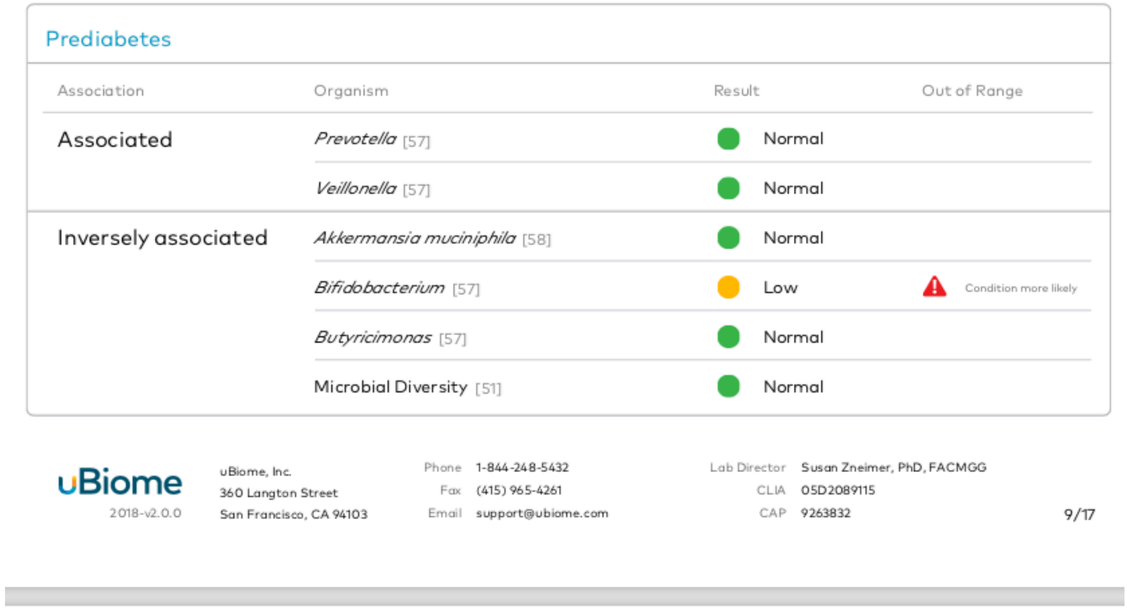
Instituto René Rachou FIOCRUZ MINAS

- Efeito JARK
  - Justify After Results are Known
- Qualquer trabalho pode ser publicado
  - Você pode encontrar referências que suportem seu experimento errado.

Too many journals? Towards a theory of repeated rejections and ultimate acceptance

Jan Oosterhaven

- Muitos trabalhos de microbiomas não são reprodutíveis
  - Método de clusterização
  - Método de classificação
  - Método de montagem



Prediabetes

Association	Organism	Result	Out of Range
Associated	*Prevotella* [57]	Normal	
	Veillonella [57]	Normal	
Inversely associated	*Akkermansia muciniphila* [58]	Normal	
	Bifidobacterium [57]	Low	Condition more likely
	Butyricimonas [57]	Normal	
	Microbial Diversity [51]	Normal	

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Lab Director Susan Zneimer, PhD, FACMGG
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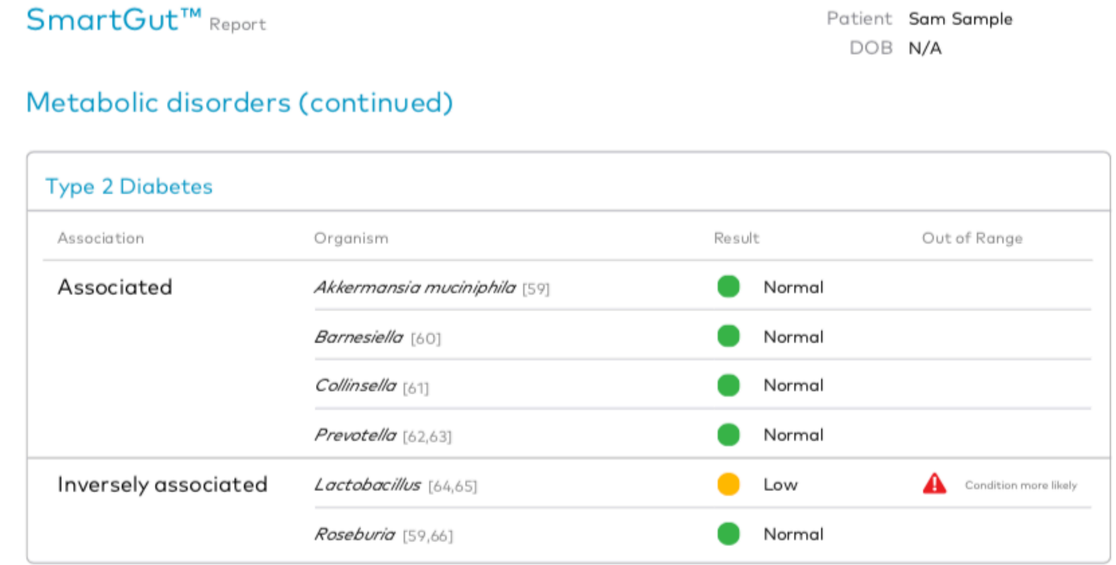
CAP 9263832
9/17



SmartGut™ Report

Patient Sam Sample
DOB N/A

Metabolic disorders (continued)

Type 2 Diabetes

Association	Organism	Result	Out of Range
Associated	*Akkermansia muciniphila* [59]	Normal	
	Barnesiella [60]	Normal	
	Collinsella [61]	Normal	
	Prevotella [62,63]	Normal	
Inversely associated	*Lactobacillus* [64,65]	Low	Condition more likely
	Roseburia [59,66]	Normal	