

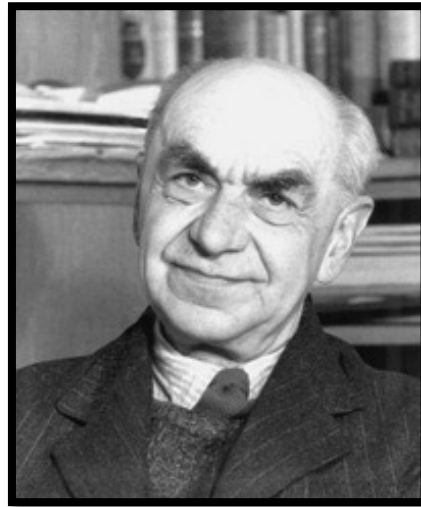
The propagation of risk judgments in transmission chains

Mehdi Moussaïd

Max Planck Institute for Human Development - Berlin



The Gossips, 1948



Frederic Bartlett



Pope Francis Shocks World, Endorses Donald Trump for President, Releases Statement

TOPICS: Pope Francis Endorses Donald Trump



Denzel Washington Backs Trump In The Most Epic Way Possible

While the rest of liberal Hollywood is still trying to demonize Donald Trump, Denzel Washington is speaking out in favor of the president-elect. "We need...

AMERICANNEWS.COM

42K

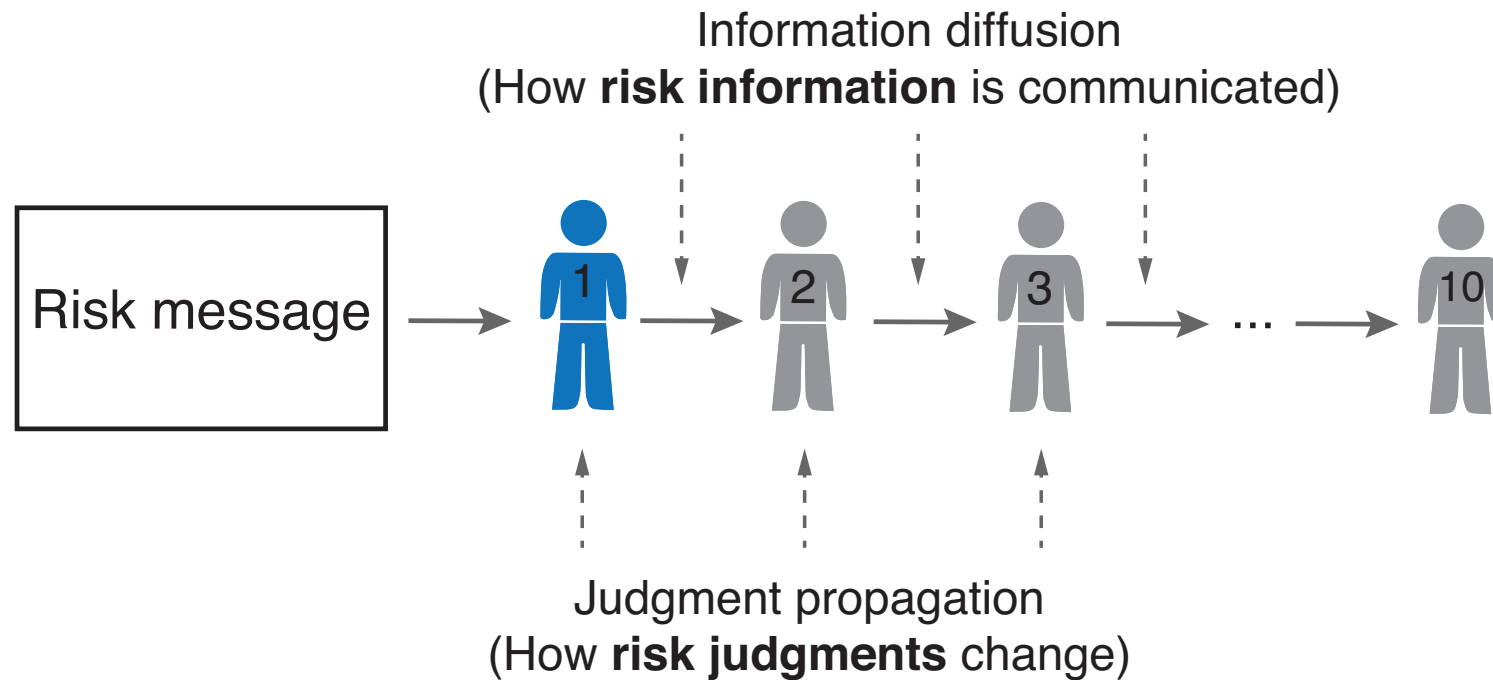
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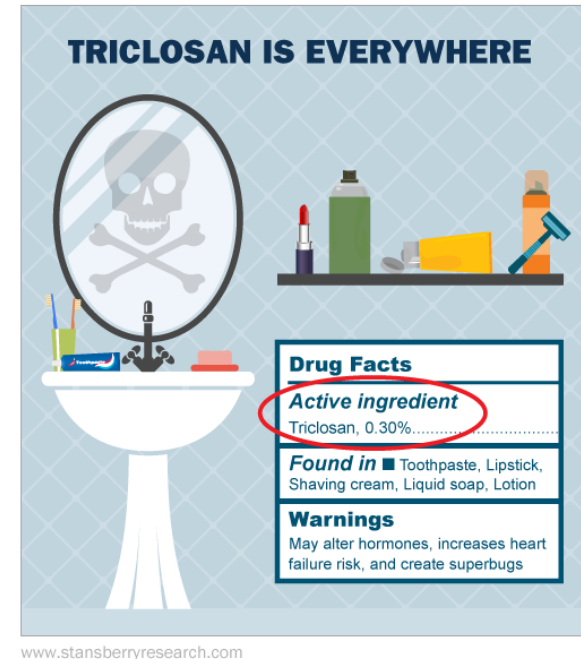
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The propagation of risk information



The risks surrounding Triclosan

- A **real** health issue
 - **Controversial**
 - **Not well-know** to the general public
-
- An **antibacterial agent**
 - Used in many **everyday life products** (soaps, deodorants, toothpastes, cleaning supplies, kitchen utensils, toys, trash bags...)
 - Under review by many health agencies. **Suspected** to cause allergies, bacterial resistance, endocrine disruption, heart attacks, cancer, and environmental pollution...



Risk message

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Bakterienhemmer und Weichmacher Umweltgifte schwächen das Immunsystem

Dienstag, 30.11.2010, 13:17

WIKIPEDIA Die freie Enzyklopädie

Artikel Diskussion Lesen Bearbeiten

Triclosan

Triclosan, das zur chemischen Stoffgruppe der **polychlorierten Phenoxyphenole** gehört, ist ein **Bakterienhemmer**, der in Desinfektionsmitteln und auch als **Konservierungsstoff** eingesetzt wird. Der biozide Wirkstoff wird vor allem in Arzt- und Zahnarztpraxen sowie in Krankenhäusern eingesetzt, um die Übertragung von Krankheitserregern zu verhindern. (Desinfektionsmittel gehören zur Hauptgruppe 1 der Biozid-Produkte (Anhang V der Richtlinie 98/8/EG) und sind gegen Bakterien, Pilze und/oder Viren wirksam). Zudem wird Triclosan in Kosmetikartikeln, wie zum Beispiel Zahnpasta, Deodorants und Seifen eingesetzt, neuerdings auch in Haushaltsreinigern und Waschmitteln. Das **Bundesinstitut für Risikobewertung** (BfR) rät vom Einsatz zur Desinfektion im Haushalt, z. B. in Reinigungsmitteln, ab, da durch die geringe Konzentration von Triclosan in den Reinigern eine **Resistenzbildung** von Bakterien zu befürchten ist, die durch **Kreuzresistenz** (ähnliche Wirkungsmechanismen) auch auf **Doxycyclin** oder **Ciprofloxacin** übergreifen kann.^[8] Darüber hinaus gibt es Hinweise, dass Triclosan durch Blockieren der Kalziumionenkanäle auf die neuromuskulären Fähigkeiten glatter Muskelzellen einwirkt.^[7]

GREENPEACE Suche

Themen Über uns Nachrichten Presse Video Publikationen Kontakt

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Chemie

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Triclosan - gefährlicher Bakterienkiller in Gebrauchsartikeln

Autor: Manfred Krautter

out.co.uk The Cosmetic, Toiletry and Perfumery Association

Sort out which are myths or scares and put what you read into perspective


Medienzentrum

News

Schreckensmeldungen aus der Wissenschaft entsprechen nicht immer der Realität

Fakt...
Europäische Sicherheitsvorschriften für...

KATRINA ONSTAD
Journalistin, Schriftstellerin
Toronto, ON
Triclosan-Spiegel: 21.9 ng/mL

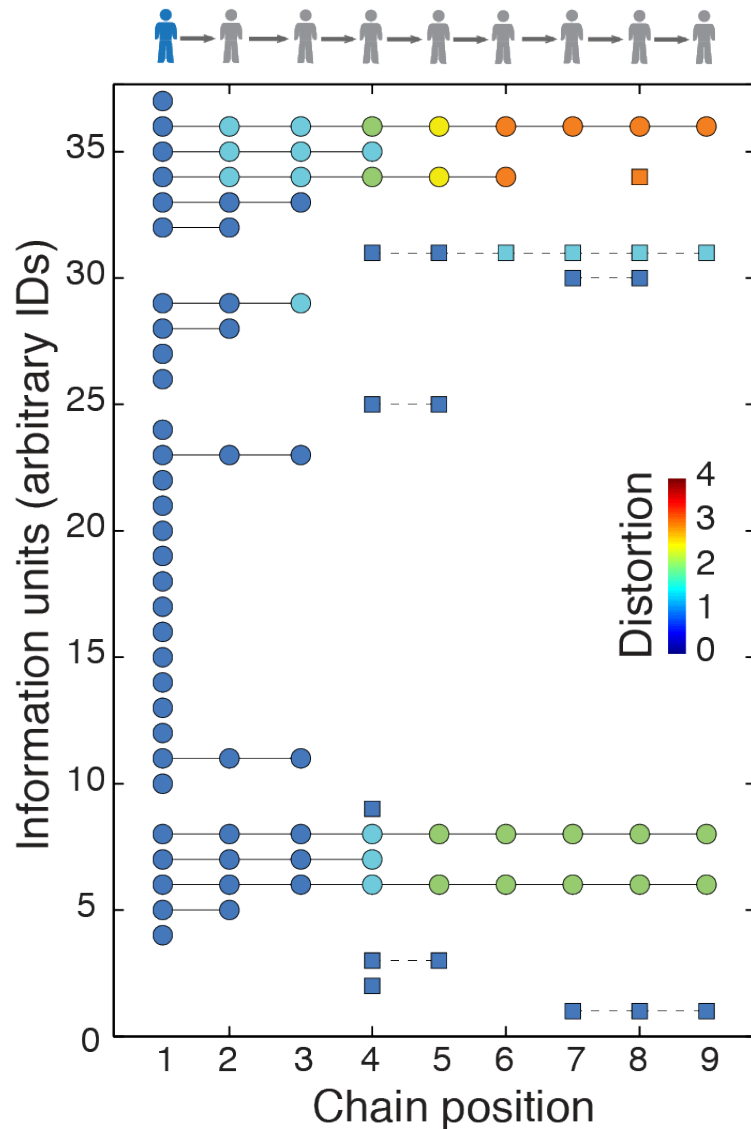


Fact Sheet **umweltbundesamt**

Fact Sheet Triclosan

Einsatzbereich: in Seifen, Deodorants, Zahnpasta, Hautdesinfektionsmitteln, Haushaltsreinigern, Kosmetika, Schuhen, Textilien, Spielzeug und Kunststoff (für Lebensmittelgebrauch); Einsatz in Zelluloseprodukten; Einsatz im medizinischen Bereich (Imprägnierung, Keimreduktion).

Propagation of information



Side effects | Mice & rats | Heart

Position 1: « The pumping function of the heart decreased by about 25% »

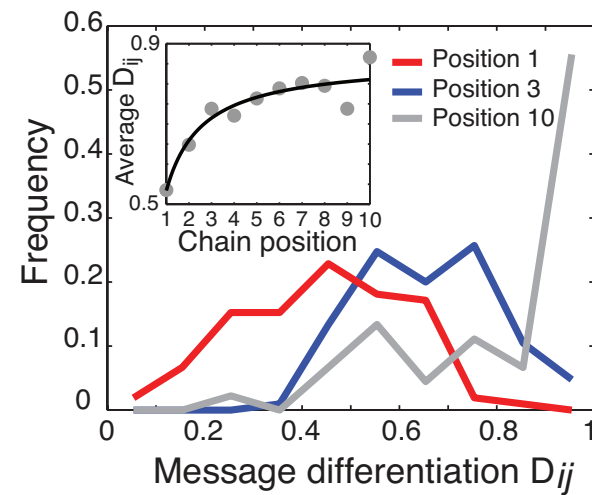
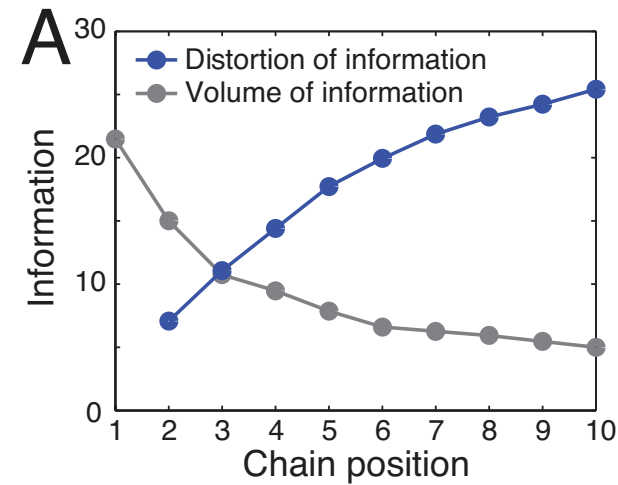
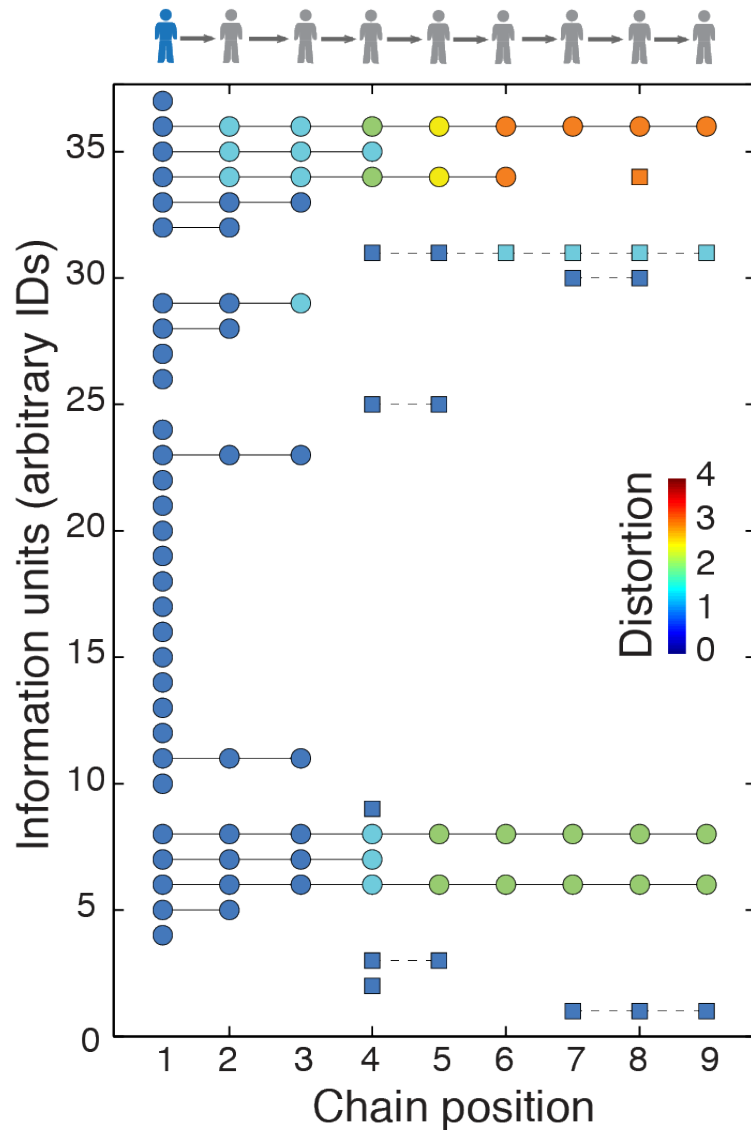
...

Position 10: « Mice died of heart problems »

Where | Personal care | Cosmetics

Where | Cleaning agents | At home

Propagation of information



Signal of the message

Negative signal: *“And it is supposed to trigger allergies as well as confuse the hormonal balance.”*

Positive signal: *“As long as you don’t overdo it, I don’t think it’s dangerous.”*

Neutral: *“Triclosan is an antibacterial agent.”*

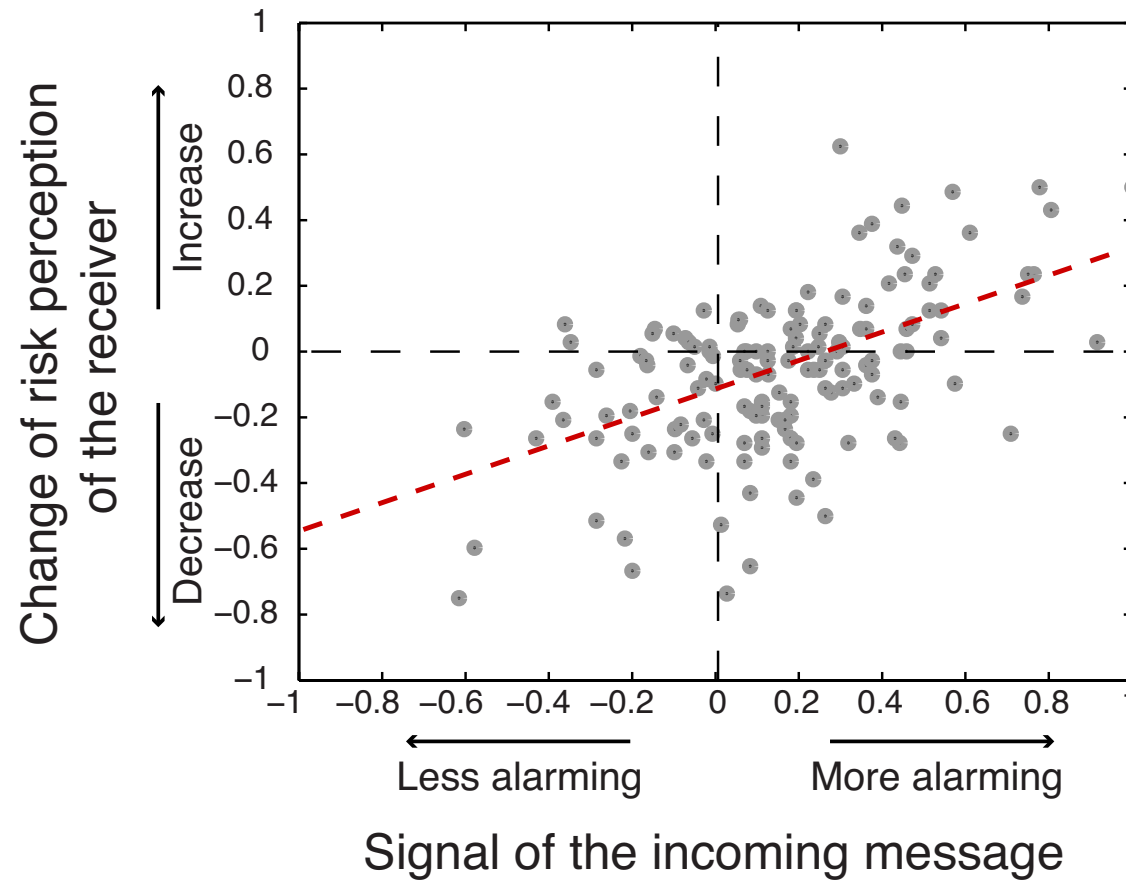
Same piece of information, but different signals:

“This dangerous stuff is everywhere, in toothpaste, in cosmetics.”

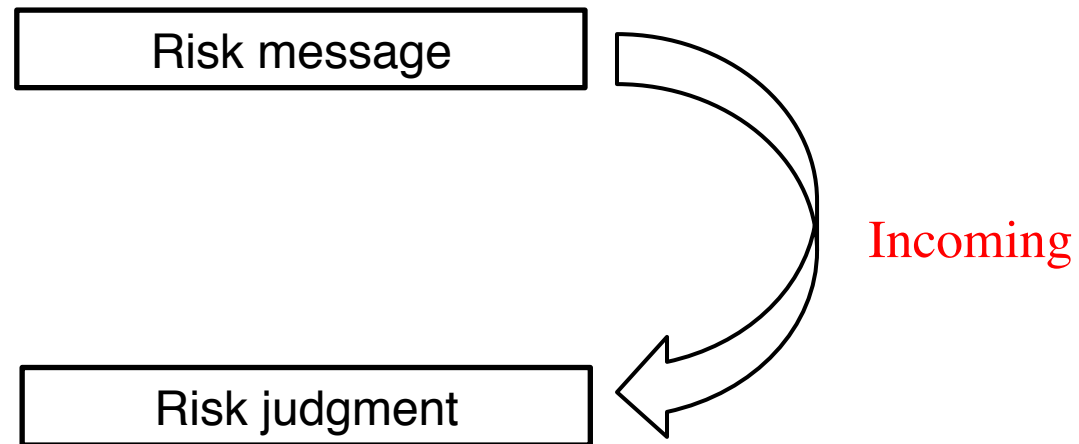
“We use it everyday in toothpaste, it can’t be that terrible.”

“It is contained in toothpaste.”

Social influence

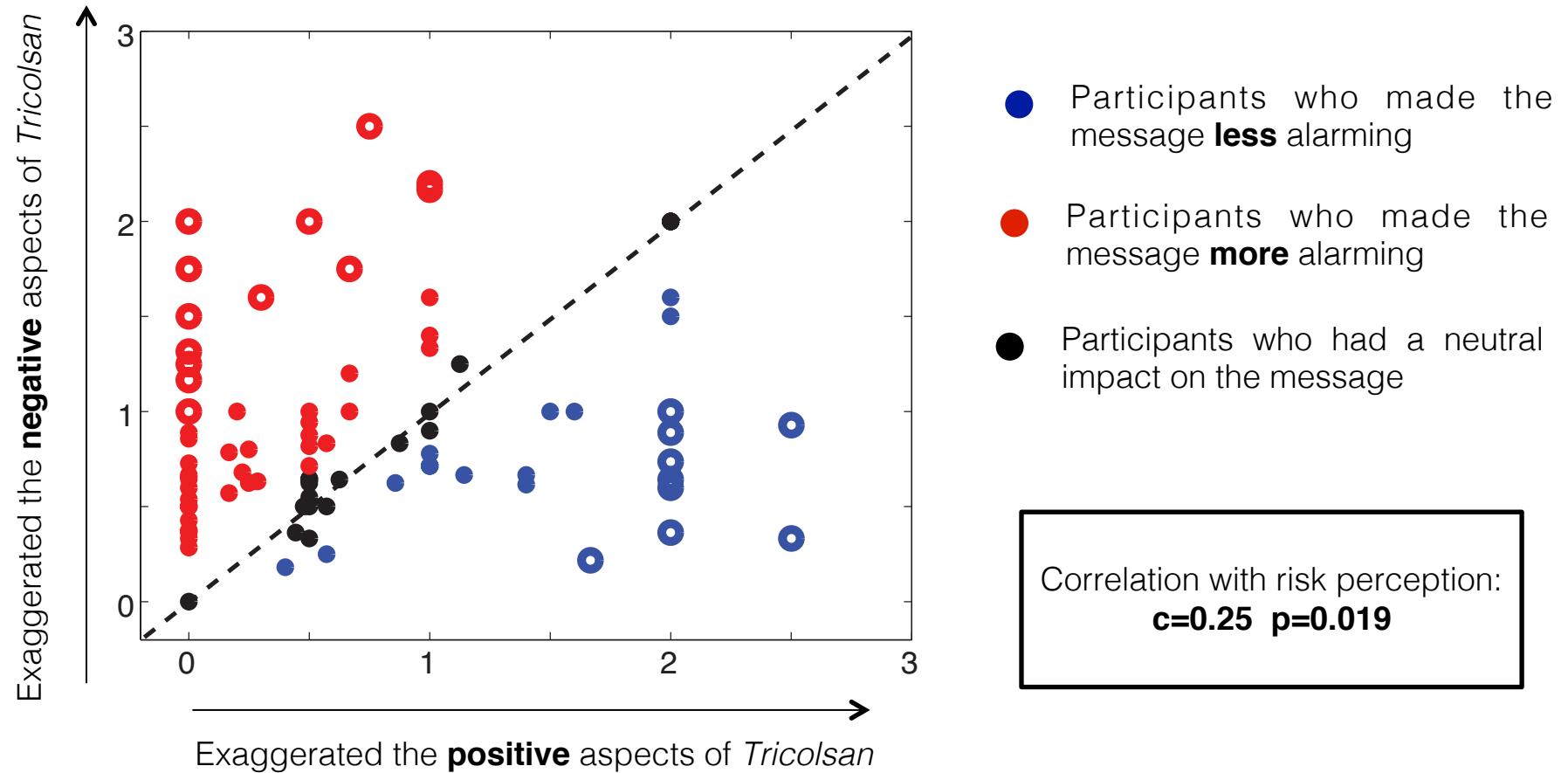


Feedback loop



Mutation of the message

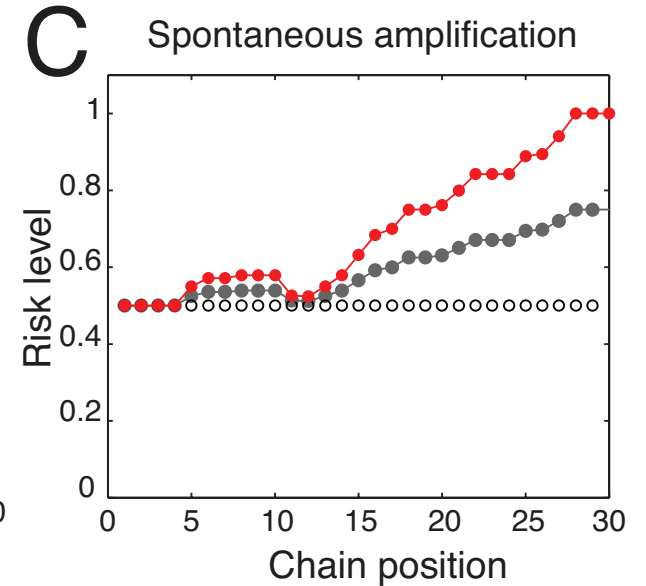
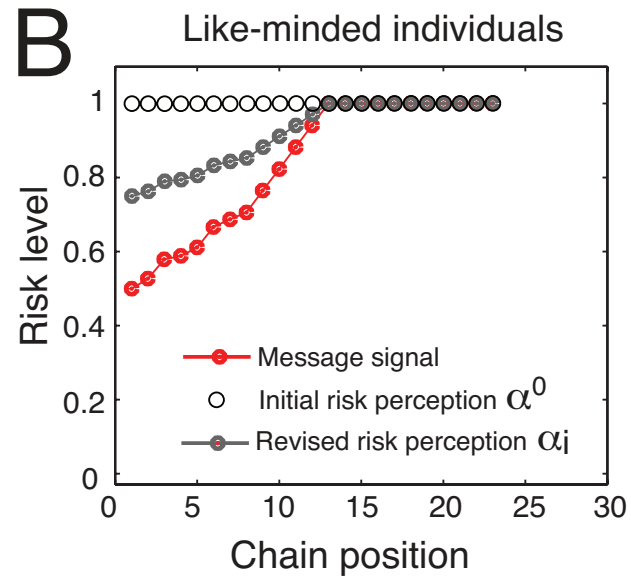
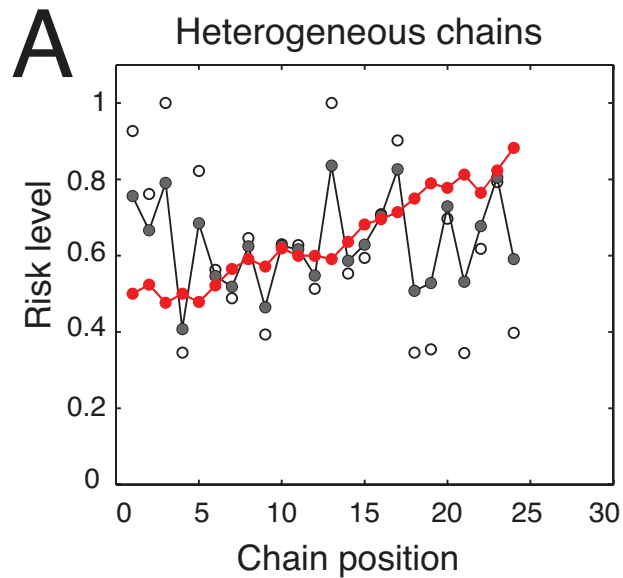
We measured how the participants changed the signal of the message they received



Feedback loop



Simulations



Take-home messages

- (1) Information diffusion is related to judgment propagation
- (2) Transmitted message tends to become more extreme, in the direction of the sender's judgment
- (3) The receiver's judgment tend move in the direction of the received message
- (4) At the large-scale, communication yields to amplification of existing biases



Henry Brighton



Wolfgang Gaissmaier

Extract of a recorded conversation

P1: Yes, in fact it was proved in various studies that with the cosmetic products Triclosan is getting into the body through the skin, so that it can for instance be found in the mother's milk. And it is supposed to trigger allergies as well as confuse the hormonal balance because it affects some endocrine receptors.

P2: That doesn't tell me anything (laughs). Is it more dangerous for women or is it the same for both genders? Because you mentioned the mother's milk.

P1: No, that was just an example of the accumulation in the body. I think it doesn't make a difference. Well, it causes hormonal dysfunctions and has an influence on the level of antibodies, well...

P2: I don't know the medical field so well, so to me it's somehow strange.

P1: Well, yes, it can also be found in waters. With sunlight it can be changed to dioxins, but I don't know if you know about that.

P2: So how big is the probability that something like it can appear? Big or small?

P1: Appear... what?

P2: The allergies, well, the side effects of Triclosan.

P1: I don't know how big it is.

P2: So the articles say to keep your hands off, right?

P1: The overall impression was it should actually not been used.