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Asking the right questions, finding information and finding theoretical solutions

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The contribution that research makes to the world and the lives of the people living in it





Impact against the SDGs

232,484

4% of the UK's

Accredited

as a Living Wage employe

research on the SDGs

across all 17 SDGs

over the past decade



-(0)















15 IN LAND























SUSTAINABLE GOAL

40,140 480,000

current students former studen

in more than 190 countries

he UK's most inclusive

University for Lesbian, Gay, Bi- and Trans-ec

Signatory







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第Ⅱ部 (14:20-17:30) 基項課簿2 From Agency to Enterprise in American Higher Education デリック・アンダーソン:アンアのCARPREN

パネルディスカッション











#### **UN Sustainable Development Goals - People**





















Agricultural Biological

Agro Food Safety Climate-Smart Food Systems Sustainable Food Processing

Waste Management

Water-Smart Food Production Environmental Health

Health Economics

Public Health Education

Occupational Health and Safety

HIV and AIDS Immunotherapies and Vaccines Infectious Diseases

Child Health and Human

Public Health Policy

Disaster and Emergency Medicine Public Mental Health

Family Medicine and Primary Care Digital Health

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Digital Education Digital Scholarship

Educational Psychology

Leadership in Education Special Educational Needs

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### **UN Sustainable Development Goals - Prosperity**

















Freshwater Science Wastewater Managemen

Bioenergy and Biofuels

Solar Energy

**Energy Systems and Policy** Process and Energy Systems Engineering

Indoor Environment

Wind Energy

Carbon Capture, Storage, and

Nanoenergy Technologies and Materials

Smart Grids Energy Storage

Hydrogen Storage and Production Structural Sensing Structural Materials

Engine and Automotive

Historic Preservation and

Computer-Aided and Digital Manufacturing Technologies

Composite Materials

Sustainable Design and

**Bridge Engineering** Hydrosphere

Digital Architecture Farthquake Engineering

Transportation and Transit

Wind Engineering and Science

#### **UN Sustainable Development Goals - Planet**











Science and Environmental

Interdisciplinary Climate Studies Marine Ecosystem Ecology Deep-Sea Environments and

Ocean Engineering, Technology and Solutions for the Blue Economy

Marine Conservation and Sustainability

Marine Affairs and Policy Coral Reef Research Marine Fisheries, Aquaculture and

Marine Pollution Global Change and the Future Coastal Ocean Processe

Ocean Observation Marine Systematics and

Microbial Symbioses Quaternary Science Geomorphology and

Science and Environmental

Soil Processes

Conservation

Toxicogenomics Atmospheric Science

Air Pollution

Metabolomics Green and Environmenta

Environmental Toxicology



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Home » About Frontiers » Frontiers journals support UN Sustainable Development Goals

#### Frontiers journals support UN Sustainable Development Goals

Posted on November 13, 2017 in About Frontiers, Frontiers Announcements, Sustainability



As a leader in Open Science, Frontiers is well placed to drive sustainability solutions. Image: Shutterstock

A new series of interdisciplinary Frontiers journals and sections aims to speed up solutions for sustainable development — the greatest global challenge of our time. Covering the 17 UN sustainable development goals (SDGs), our Open Science for Sustainability initiative makes rigorously peer-reviewed sustainability research articles openly and freely available to everybody in the world in order to accelerate the scientific and technological solutions we so urgently need to build a sustainable future.

#### Urgent need for solutions

As the world population grows from 7.4 to nearly 10 billion people by 2050, the earth is entering the Anthropocene — the first period in history in which a single species has placed basic earth systems in danger. We are in a race against time to find new solutions for tackling climate change and protecting the environment while at the same time ending poverty and fighting inequalities. The UN SDGs provide a framework for governments, cities, businesses and communities to achieve these goals by 2030.

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#### THE University Impact Rankings 2019 by SDG: partnerships for the goals methodology

April 2, 2019

This ranking looks at the broader ways in which universities support the SDGs through collaboration with other countries, the promotion of best practices and the publication of data. Unless all partners work together towards the SDGs, they cannot be achieved.

This is the only compulsory SDG for inclusion in the overall rankings. It is also worth a smaller proportion of the final score in the overall table.

View the methodology for the University Impact Rankings 2019 to find out how these data are used in the overall ranking.

#### Metrics

#### Research (27%)

- · Proportion of academic publications with co-author from other country (14%)
- Number of publications that relate to the 11 SDGs (13%)

The first metric measures the proportion of academic publications that are coauthored by someone from another country.

The second metric measures the number of publications that relate to the 11 SDGs that are part of the first Times Higher Education University Impact Rankings.

The data are provided by Elsevier's Scopus dataset and normalised across its range using z-scoring. It includes all indexed publications between 2013 and 2017.

#### Relationships to support the goals (23%)

- · Policy development with government or NGOs (4.6%)
- Promoting cross-sectoral dialogue with government or NGOs (4.6%)
- Collaborating internationally to capture data relating to SDGs (4.6%)
- Working internationally to promote best practice around SDGs (4.6%)
- Supporting the education of NGOs with respect to the SDGs (4.6%)

We asked for evidence that universities gather data on the progress of the SDGs internationally and promote best practices and cross-sectoral dialogue in support of the goals.

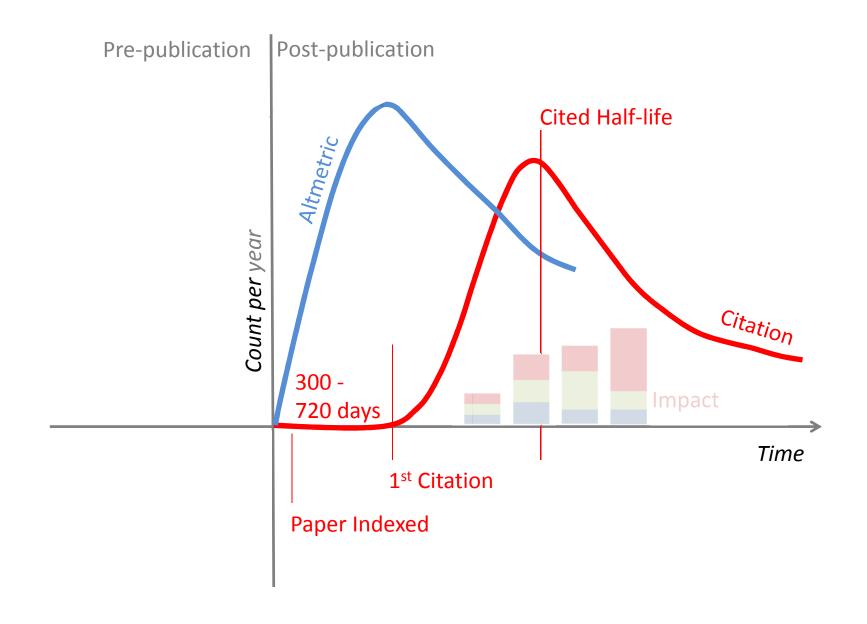
This data and evidence were provided directly by universities. The evidence was evaluated and scored by Times Higher Education and is not normalised.

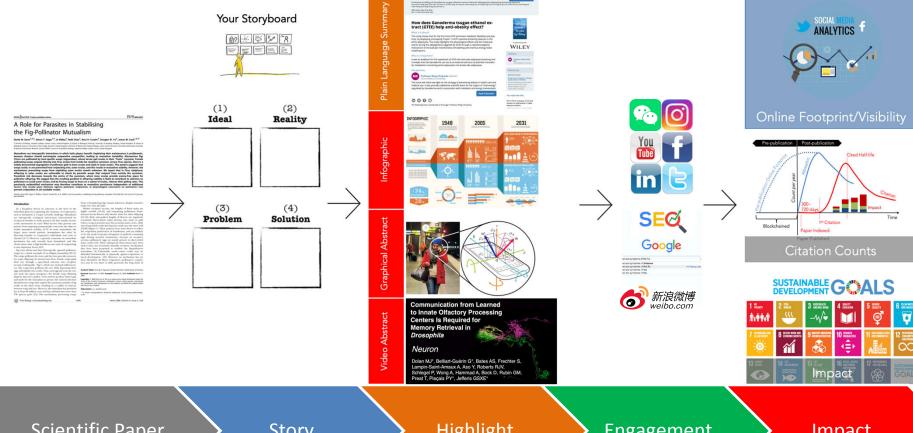
#### Publication of SDG reports (50%)

We asked institutions whether they published specific data on their performance against each of the 10 SDGs included in the first Times Higher Education University Impact Rankings (excluding SDG 17 on partnerships for the goals).

#### The metrics:

- 1. Research (14%)
- 2. Relationships to support the goals (23%)
- 3. Publication of SDG report (50%)





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Science Pitch

Impact Report









#### Claim this publication

Self-organization process in newborn skin organoid formation inspires strategy to restore hair regeneration of adult cells

Mingxing Lei, Linus J. Schumacher, Yung-Chih Lai, Wen-Tau Juan, Chao-Yuan Yeh, Ping Wu, Ting-Xin Jiang, Ruth E. Baker, Randall Bruce Widelitz, Li Yang, Cheng-Ming Chuong

Proceedings of the National Academy of Sciences, August 2017, Proceedings of the National Academy of Sciences

DOI: 10.1073/pnas.1700475114

# Technique to restore the regenerative ability of adult skin and hair follicles

#### What is it about?

To understand how the progenitor cells (stem) from newborn mouse skin were regulated to form skin with appendages (like hair follicles). Using the 3D in vitro organoid model, the self-organization ability of the newborn mouse cells was learned and was used to partially restore the adult mouse cells to form hairs

#### Why is it important?

Previous studies were focusing on using different sources of cells to regenerate skin and hair follicles with inconsistent outcome. This multi-disciplinary approach helps to learn the nature of self-organization ability of the newborn mouse cells comprehensively. Through such learning, the regenerative ability of the adult mouse cells could be partially restored. This finding will provide one step closer in regenerating human skin and human hair follicles with the potential of the same to be applied in treating burn injury and alopecia

#### Perspectives



This study opens a new avenue to improve the ability of adult skin cells to form a fully functional skin, with clinical applications. The principles uncovered here are likely to function in other organ systems and will inspire us to view organoid morphogenesis, embryogenesis, and regeneration differently. The application of these findings will enable the rescue of robust hair formation in adult skin cells, thus eventually helping patients in the context of regenerative medicine

**Read Publication** 









The following have contributed to this page: Dr. Mingxing Lei



#### **Authors**



Dr. Mingxing Lei

China Medical University

#### Resources

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Supporting Information: Selforganization process in newborn skin organoid formation

Videos and descriptions of this research

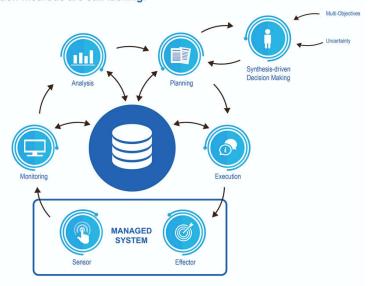
#### You might also like...

Generation and Characterization of Multipotent Stem Cells from Esta lightight on the technical method Culture Lightight on the technical method Clifford Lawrence et al.,

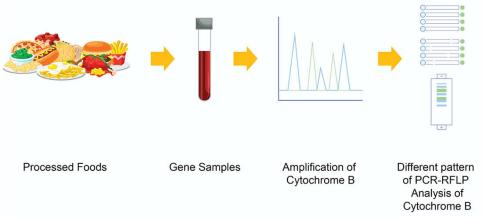
Cyclic dermal BMP signalling regulates stem cell activation during hair regeneration

Maksim V. Plikus et. al.. Baker, Philip K. Maini, Robert Maxson, Cheng-

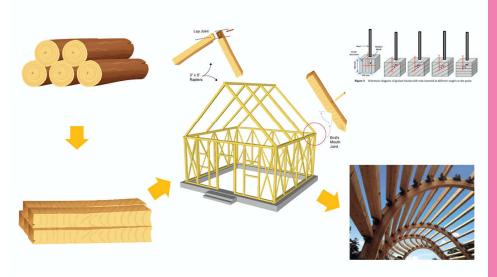
### Generating optimal decision codes automatically is a complex and challenging task. The existing generation methods are still lacking.

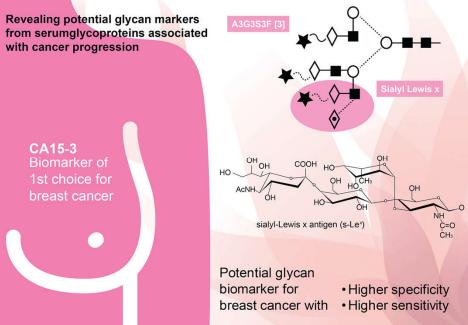


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The Discovery of CMU Taiwan



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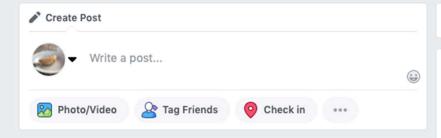
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#### The Discovery of CMU Taiwan

Published by KC Tang [?] · December 30, 2018 at 12:30 AM · @

A potential therapeutic candidate for Osteoarthritis disease was found.

Click for research highlights: https://go.nature.com/2DyzCZy

Full research at: https://doi.org/10.1038/srep43205



#### GO.CREATEDACARD.ME

Effectively decreased monocyte infiltration and prevented cartilage degradation and inflammatory model



✓ Get More Likes, Comments and Shares Boost this post for RM60 to reach up to 2,000 people.

4,505

141

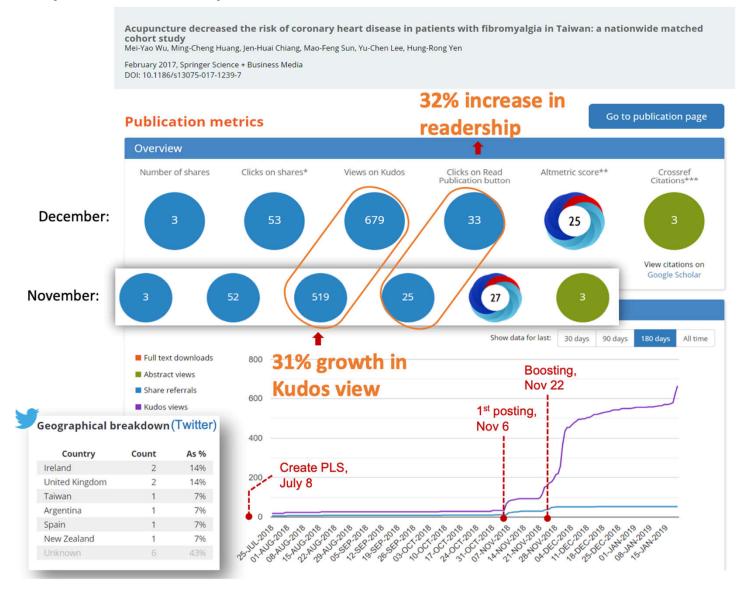
People Reached

Engagements

**Boost Post** 

...

#### **Topic in November: Acupuncture**





No clear over arching and agile gover for STI to synergise actions across min

Lack of total S&T talent planning and development to move STI agenda

Sustainability is not an inherent part of the STI ecosystem

A better start

SUMMAR

MALAYSIA POLICY SCIENCE, TECHNO (202)



Where are we right now? Challenges in STI today

#### STRATEGIC THRUST 7: STI FOR SOCIETAL WELL-BEING & ENABLER FOR SDGS

A decline in the infant mortality rate for Malaysia, 6.7 deaths per 1,000 births in 2017, depicts the significance of STI advancement. The beneficiaries of a developed STI ecosystem does not just boost the economic status but also the healthcare industry of our nation. The structured institutional framework to support societal well-being of Malaysia cover both, longterm and short-term goals of strategic interventions in existing national policies. The active involvement of all members of the quadruple helix by adapting technology application value chain to address distinguished national challenges determines the effectiveness of these strategic interventions Furthermore, a multidisciplinary STI approach needs to be encouraged to achieve all 17 Sustainability Development Goals by 2030.

































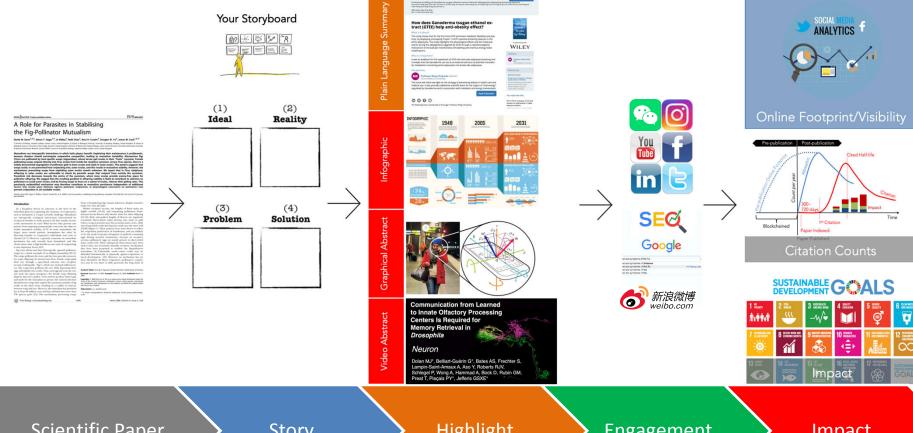












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OPEN & ACCESS Freely available online

PLOS BIOLOGY

# A Role for Parasites in Stabilising the Fig-Pollinator Mutualism

Derek W. Dunn<sup>1,2,3</sup>, Simon T. Segar<sup>1,2</sup>, Jo Ridley<sup>3</sup>, Ruth Chan<sup>1</sup>, Ross H. Crozier<sup>4</sup>, Douglas W. Yu<sup>3</sup>, James M. Cook<sup>1,2,5\*</sup>

1 Division of Biology, Imperial College London, Accot. United Kingdom, 2 School of Biological Sciences, University of Reading, Reading, United Kingdom, 3 School of Biological Sciences, University of Enading, Reading, United Kingdom, 4 School of Materia and Topical Biology, James Cook University, Townsville, Queenstand, Australia, 5 Stanual Imminis

Mutualisms are interspecific interactions in which both players benefit. Explaining their maintenance is problematic, because cheaters should outcompete cooperative compactific, leading to mutualism instability. Monecolous figs (Ficus) are pollinated by host-specific wasps (Agaonidae), whose larvae gall ovutes in their "fruits" (syconia). Female pollinating wasps oviposit directly into Ficus ovutes from inside the receptive syconium. Across Ficus species, there is a widely documented segregation of pollinator galls in inner ovutes and seeds in outer ovules. This patterns suggests that wasps avoid, or are prevented from ovipositing into, outer ovules, and this results in mutualism stability. However, the mechanisms preventing wasps from exploiting outer ovules remain unknown. We report that in Ficus rubiginoso, orfspring in outer ovules are vulnerable to attack by parasitic wasps that oviposit from outside the syconium. Parasitism risk decreases towards the centre of the syconium, where inner ovules provide enemy-free space for pollinator offspring. We suggest that the resulting gradient in offspring viability is likely to contribute to selection on pollinators to avoid outer ovules, and by forcing wasps to focus on a subset of ovules, reduces their galling rates. This previously unidentified mechanism may therefore contribute to mutualism persistence independent of additional factors that invoke plant defences against pollinator ofsposition, or physiological constraints on pollinators that prevent oviposition in all available ovules.

Citation: Dunn DW, Segar ST, Ridley J, Chan R, Crozier RH, et al. (2008) A role for parasites in stabilising the fig-pollinator mutualism. PLoS Biol 6(3): e59. doi:10.1371/journal.ebio.000099

#### Introduction

In a biosphere driven by selection at the level of the individual gene [1], explaining the existence of cooperation, such as mutualism, is a major scientific challenge. Mutualisms are interspecific ecological interactions characterised by reciprocal benefits to both partners [2] that usually involve costly investments by each. What factors thus prevent one partner from imposing unsustainable costs not the other to enable mutualism stability [3–7]? In some mutualisms, the larger, more sessile partner, manipulates the other by directing benefits to cooperative individuals and costs to cheaters [4–7]. However, a general consensus on mutualism persistence has only recently been formulated, and this clearly shows that a high benefit-to-cost ratio of cooperating is one important factor [8,9].

Fig trees (Fieas) and their host-specific agaonid pollinator wasps are a classic example of an obligate mutualism [10,11]. The wasps pollinate the trees, and the trees provide resources for wasp offspring. In monoecious Fieas, female wasps push their way through a specialised entrance into receptive syconia (colloquially, "fige"), which are enclosed inflorescences. The wasps then pollinate the tree while depositing their eggs individually into ovules. Thus, each egg haid costs the tree one seed, but upon emergence, the female wasp offspring disperse that tree's pollen. Trees need to produce both wasps and seeds for the mutualism to persist, but natural selection should farour wasps that exploit the maximum number of fig ovules in the short term, resulting in a conflict of interest between wasp and tree. However, the mutualism has persisted for at least 60 million years and has radiated into more than 750 species pairs [12]. The mechanisms preventing wasps

from overexploiting figs remain unknown, despite intensive study over four decades.

within receptive syconia, the lengths of floral styles are highly variable [13,14], and ovipositing pollinators (foun-feases) favour flowers with shortest styles for their offspring [15-18]. Style and pedicel lengths of flowers are negative orrelated. Short-styled orules develop into seeds are correlated, Short-styled orules develop into seeds are likely of the source of the style or the style or the source of the style or the style or the source of the source was [18,20] (figure 1). These pass of foundersess, and are utilized to be the result of greater elongation of pedicels containing eggs during syconial maturation, became in receptive syonia, pollinators' eggs are mainly present in host-styled inner ovules [16]. These wide-pread observations have been ided to four, not necessarily mutually exclusive, mechanisms that have been proposed to stabilise the fig-pollinator nutualism: (1) Undeatable seeds—outer ovules may be defended biochemically or physically against oriposition or paral development [21]. However, no mechanism has yet been identified, (2) Short ovipositors—pollinators' ovipositors may be to short to fully penetrate the long styles of some styles of the style of the s

Academic Editor: Anurag A. Agrawal, Cornell University, United States of America Received September 14, 2007; Accepted January 22, 2008; Published March 11,

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Abbreviation: s.e., standard error

\* To whom correspondence should be addressed. E-mail: james.cook@reading.ac.sk

PLoS Biology | www.plosbiology.org

March 2008 | Volume 6 | Issue 3 | e59

# Your Storyboard

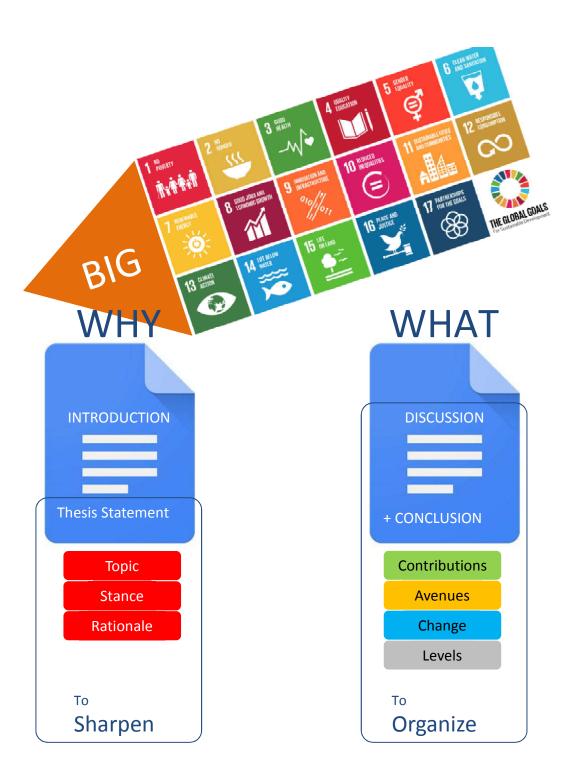


Big Why

Why

What

How



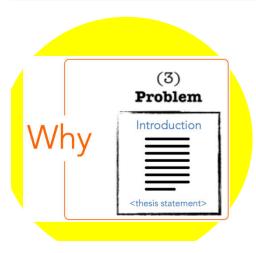


# Killer Thesis Statement (Why)

### What is a Thesis Statement?

- A single sentence that is located at the end of your introduction.
- Tells the reader what your opinion is and what paper is going to prove.
- Directs your reader to the main pieces of evidence you will explore.

Analytical Explanatory/Expository Argumentative



From examining <claim one>, <claim two> and <claim three>, it is clear that <opinion>.



"From examining minions' cramped working conditions, low pay and lack of vacation entitlement, it is clear that Gru is a bad employer whose HR practices should be investigated."

www.vappingo.com

### The Formula

Although most politicians support ongoing funding for the DEA counter argument (opposite of your opinion)

**Topic** 

the war on drugs

Subject

is a travesty of justice

Opinion

Stance

because sentencing laws are discriminatory, more prisons than colleges are built, reason 1 reason 2

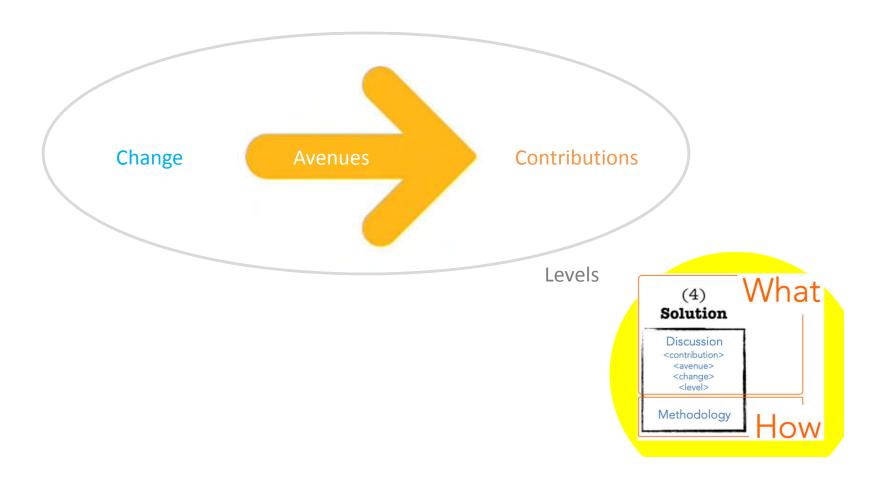
and addiction is treated as a crime rather than a disease.

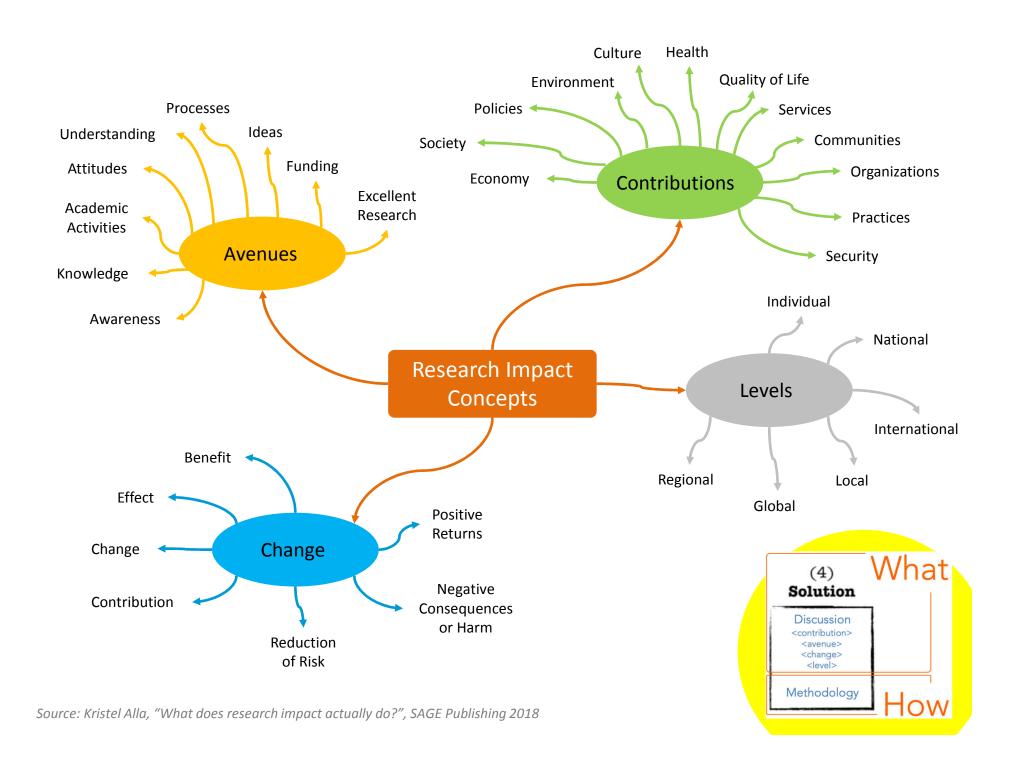
reason 3

# Rationale



What you have done that will bring research impact to society





Big Why =

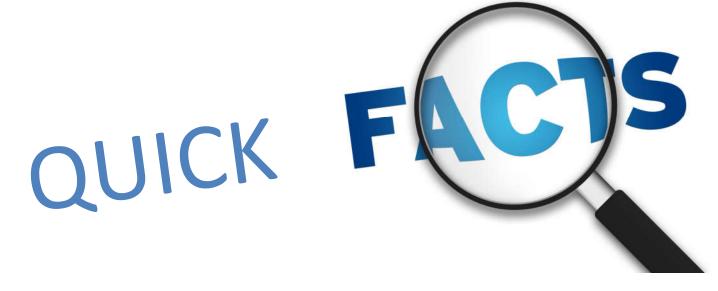
Why = Killer Thesis Statement (last para of Introduction)

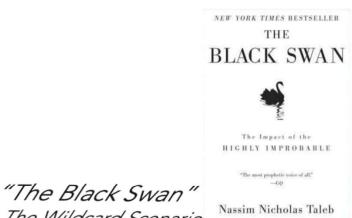
What = Change + Contributions + Avenues + Levels

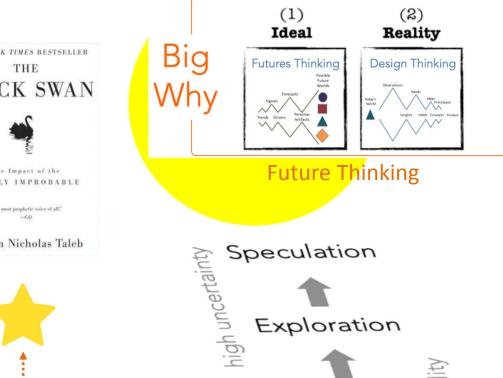
How = The details

PLS = Big Why + Why + What

Abstract = Why + What + How







4. The Wildcard Scenario

"The Star" 3. The Possible Scenario

"The Mountain" 2. The Plausible Scenario

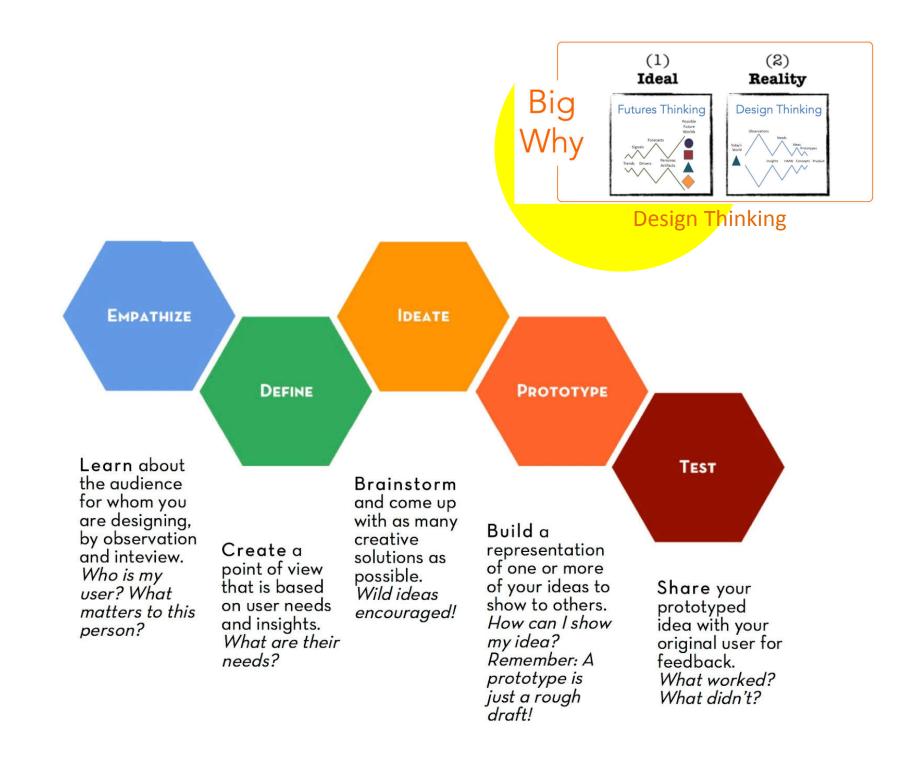
"The Chessboard" 1. The Probable Scenario



Speculation Exploration Projection Prediction

Adapted from: H Tibbs, "Making the future visible", 1999







#### A Role for Parasites in Stabilising the Fig-Pollinator Mutualism

erek W. Dunn<sup>1,2,3</sup>, Simon T. Segar<sup>1,2</sup>, Jo Ridley<sup>3</sup>, Ruth Chan<sup>1</sup>, Ross H. Crozier<sup>4</sup>, Douglas

#### KNOWLED ANTIRETRO

Eric C. Tang<sup>1</sup>, Asha I <sup>1</sup>Columbia Universi

#### INTRODUCT

- Recent studies in heterosexual men a high risk for HIV exposure prophylaxi reduce HIV acquisition These results are
- regarding their use term safety, potential and provider willings Initiation of PrEP re regular risk reduction Effective and safe use
- if providers are not strategy and its risks Currently, there are attitudes or exper prevention

#### **OBJECTIVES**

- 1. To determine the cu
- prevention amongst h To assess internal me PrEP as a method of H

#### internal medicine re **METHODS**

#### 135 internal medicin Center were invited

- Part of a larger study s in New York City 28-question survey co

  - prophyla d. Concerns e. Willingne

# REFERENCE

# Why Animal Models Fail in





Cuyánoga county transportation engineer sa

Husani compares rush-hour traffic to a funnel.

Today, 5.3 million Americans suffer from Alzheimer's. Rates are expected to triple by 2050.

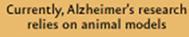
In the last decade, ZERO new drugs have been developed that can effectively treat ALZHEIMER'S

But:

to th

the

back



But animals do not develop the disease as it develops in humans

♠ The pattern

1.9 billion are

(ages 0-15)

too young to work



99.6% of Alzheimer's drugs that test successfully in animals

#### FAIL in human trials

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prescribe PrEP However, more

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lemonstrating its r sex were

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t use before and after sex was found to

rovirals. This may be reflective of the ning. This concern was followed by emonstrating its efficacy and lack of the CDC/DOH. More education ctors-in-training may alleviate some prepare them as they assume more findividuals in need of PrEP

#### **GEMENTS**

apport from the Doris Duke Charitable Fou



Just the right amount

through as fast as it's

of water can go

"The first few drivers could have a said, "Their behavior in the peak tir ripple effect, even if it doesn't look

STEPHEN

430 million are unemployed 577 million than 64 WHAT DO 7 BILLION **PEOPLE** 800 million work industrial jobs DO? 1.7 billion 1.4 billion work in services Funders and Founders sources: cia.gov, census.gov, gemconsortium.org

over 400 million



animation

BIG THINKERS

This Is the Epic



Beginning of Your Li







- 1. Research Impact is the ultimate measurement of research performance
- 2. Publishers, funders and rankers are adjusting their criteria toward impact quantification
- 3. Researchers need to promote their research work after publication for impact evidencing
- 4. Universities need to support such transformation with: research writing skill, and later, the platform

# Than k You

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