

Reviews journals:

A vital library resource for students, faculty and researchers

Your researchers have an increasing focus and responsibility to contribute towards solving the world's most pressing challenges. Some research fields are huge, so how do your students know what is the most important and relevant content to their disciplines? How can experienced researchers follow key trends and discoveries? Reviews journals are a unique resource and teaching tool provided by libraries and used by students and faculty members alike to help accelerate learning, and make original research more accessible.

This 1-hour webinar with Jill Adie, Senior Publishing Manager and Mina Razzak, Editorial Director Nature Reviews at Nature Research will explore how these journals play an increasing role in collaborative approaches across scientific publishing as well as discussing developments and 'real-life' impact.

Today's Speakers



Dr. Jillian Adie Senior Publishing Manager Nature Research, Springer Nature

Jill Adie is a Senior Publishing Manager at Nature Research, based in London. She has a PhD in structural biology and BSc in pharmacology from the University of Edinburgh, and previously worked as a Science Communication Product Manager at Springer Nature. Jill has 9 years of experience working in STEM publishing, and currently manages the Nature Reviews portfolio of journals and new Nature launches. She works closely with editorial, production, sales and marketing teams, to ensure the Nature Reviews titles provide best-in-class service for authors and readers.



Dr. Mina Razzak
Editorial Director Research Reviews
Nature Research, Springer Nature

Mina Razzak is the Editorial Director of the Nature Reviews portfolio of journals. Following her degree in biomedical science from Victoria University of Wellington, NZ, Mina received her PhD in organic chemistry from the University of Cambridge, UK. After a postdoctoral research position at UT Southwestern Medical Center at Dallas, Texas, USA, she returned to the UK and joined Nature Research. Since then, Mina has worked in the editorial teams of several Reviews journals, and was the launch editor of Nature Reviews Disease Primers, a role she held for 5 years. As Editorial Director, she oversees the editorial operations of the Nature Reviews titles.

Poll Question 1

Where are you joining us from today?

Agenda

1	What are Nature Reviews journals?
2	Making original research more accessible and accelerating learning
3	Collaborative approaches across scientific publishing

Poll Question 2

Are you familiar with the differences between Nature Research journals and Nature Reviews journals?

What are the Nature Reviews journals?

Differences between Research and Reviews journals

Nature Research Journals

- Present the most up-to-date and innovative research
- Research of the highest quality & impact
- Submitted by authors directly
- Audience are active researchers

Nature Reviews Journals

- Synthesize original research to create a overview
- Great teaching tool that makes original research more accessible
- Filter & highlight the latest research
- Commissioned by the editorial team
- Enhanced with supporting figures
- Audience are researchers and students





nature reviews materials

nature reviews drug discovery

All editorial decisions are made by a team of full-time professional editors



The Nature Reviews journals at a glance

Clinical Sciences



Life Sciences

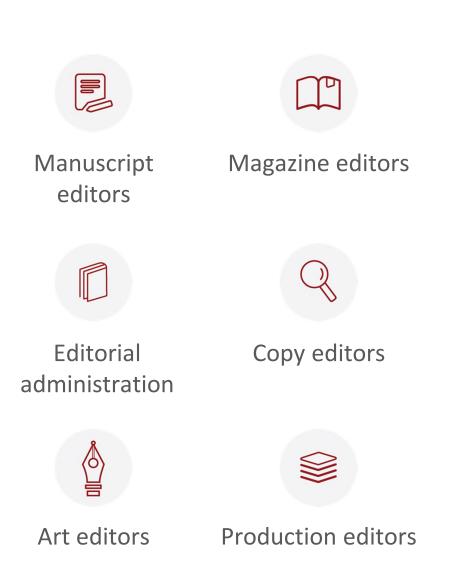


Physical Sciences





All Nature journals have in-house professional editors

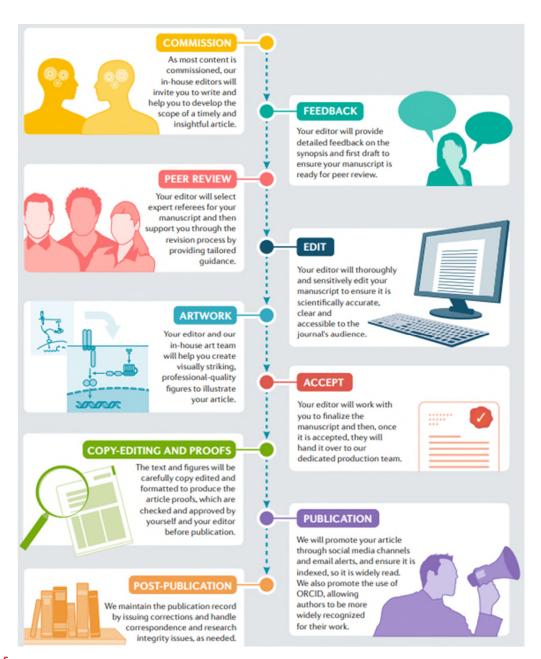




Our publishing process

A team of approximately 110 staff work hard to create the high-quality, accessible review articles published in the Nature Reviews journals each month

There are several steps in our publishing workflows that are unique to the Nature Reviews journals



Review articles in Nature Reviews

- Review articles are a great way for researchers and students to stay up to date and navigate the constant flood of information from research papers, and useful for those who want to learn more about a new field.
- Our reviews are:
 - Authoritative
 - Balanced and reliable
 - Accessible
 - Excellent teaching tools

Reviews as a teaching tool

1. Glossary

Healthy eating index

(HEI). An a priori diet quality score based on adherence to the US Dietary Guidelines.

Alternate HEI

(aHEI). An a priori diet quality score based on overall chronic disease prevention guidelines.

Dietary Approaches to Stop Hypertension

(DASH). An a priori dietary pattern based on the dietary recommendations employed in the DASH randomized controlled trial, which demonstrated a significant effect of the diet intervention on blood pressure.



NATURE REVIEWS | CANCER

Dietary patterns and cancer risk

Susan E. Stecko and E. Angela Murphy

Abstract | Over the plast decade, the search for dietary factors on which to base cancer prevention guiddines has led to the rapid expansion of the field of dietary patterns and cancer. Multiple systematic reviews and meta-analyses have reported epidemiological associations between specific cancer types and both data-driven dietary patterns determined by empirical analysis and investigator-defined dietary indexes based on a predetermined set of dietary components. New developments, such as the use of metabolomics to identify objective biomarkers of dietary patterns and novel statistical techniques, could provide further insights into the links between diet and cancer risk. Although animal models of dietary patterns are limited, progress in this area could identify the potential mechanisms underlying the diseasespecific associations observed in epidemiological studies. In this Review, we summarize the current state of the field, provide a critical appraisal of new developments and identify priority areas for future research. An underlying theme that emerges is that the effectiveness of different dietarypattem recommendations in reducing risk could depend on the type of cancer or on other risk factors such as family history, sex, age and other lifestyle factors or comorbidities as well as on metabolomic signatures or gut microbiota profiles.

cancer¹. Indeed, the study of individual nutrients or focus for future research. phytochemicals has revealed associations between certain dictary factors and cancer risk. However, individual tratton of the diet as a whole, as to done in dietary putterms research, could yield stronger effect estimates and However, with the evolution of the DGAs and the subguiddines.²⁴. The popularity of dictary patterns research (for example, on different types of feet)²⁴, stronger epidemi-ts reflected in the inclusion of dictary patterns in the latest reports, such as the 2018 World Cancer Research Fund/American Institute for Cancer Research (WCRIV AICR) Third Expert Report and the 2015 Dietary guidelines of other countries or organizations (for examgutdelines for Americans (DGAs)*. The 2018 WCRF/ the American Cancer Society cancer prevention guide-lines score, healthy exting index (HEI)-2005, alternative Mediterranean diet (aMED) score, and the WCRF/AICR that is too limited to permit a probable or convinc- example, scores related to dietary inflammatory poten effect") for a decreased risk with greater adherence to hyperinsultraemia or glycaemic index**). the four dictary and/or lifestyle patterns'. Given these

Diet is an established risk factor for multiple types of its particularly timely and is needed to identify areas of

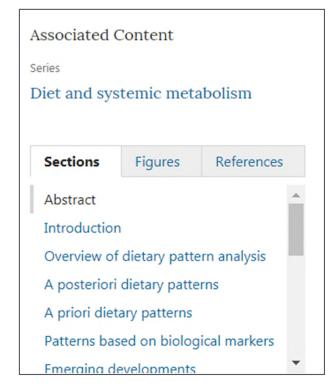
REVIEWS

In the early years of dietary patterns research, few substantial associations with cancer were observed in dictary constituents are intercorrelated and interact with epidemiological studies, in particular, the HEL, which each other to influence disease risk. By contrast, examine to designed to reflect the DGAs, was not associated with cancer risk in early studies based on the 1995 DGAs*. results that can be more readily translated into dietary sequent inclusion of more specific guidance in the HEI ple, cancer mortality^{11,23}. Multiple other dietary patterns and indexes have been developed to reflect the dietary ple, the World Health Organization (WHO) healthy AICR Third Expert Report examined the evidence for diet indicator, the new Nordic diet and the Chinese food pagoda) or to focus specifically on chronic discuse atten gutdelines (for example, the attemate HII (aHEI) and the Dietary Approaches to Stop Hypertension cancer prevention guidelines in relation to 15 types (DASH))104. Other dictary pattern scores are focused of cancer. The report concluded that the evidence was on cultural ways of eating that are believed to be healthy too scarce to draw conclusions for all cancer types, (for example, the Mediterranean diet and vegetarian except for cancers of the mouth, pharyna and laryna, for or vogan diets) or on biological markers or processes which there was limited evidence (defined as "evidence" that are known to be involved in carcinogenesis (for ing causal judgment but is suggestive of a direction of tital "cis, exclusive balance", outrogen metabolism to and

In this Review, we summarize the epidemiology conclusions and the rapid expansion of the field of die-literature on dietary patterns and cancer risk by focus tary patterns and cancer risk, a review of the literature - ing mainly on systematic reviews and meta-analyses

VOLUME 30 FERRUARY 3030 129

2. Reading companion



3. Discovery tools



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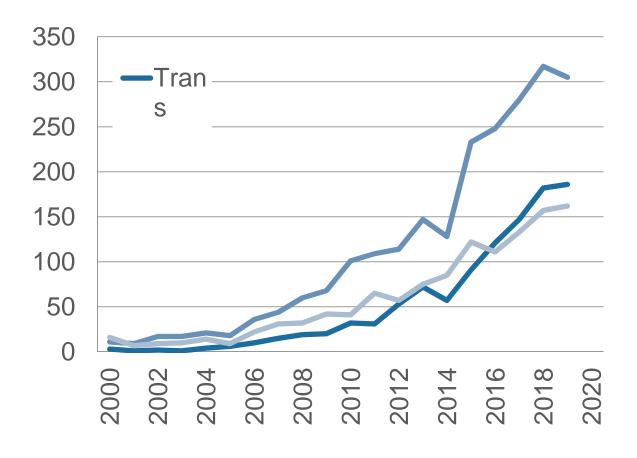
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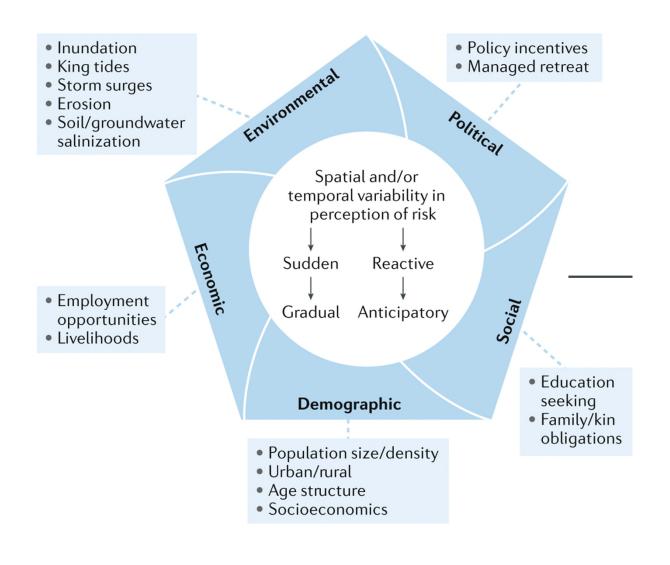
Collaborative approaches across scientific publishing

Research is evolving and becoming more collaborative



- This also means it is becoming more complex, involving many more disciplines
- This is particularly true for research related to the UN's sustainable development goals, which, in order to have the biggest impact, needs to pull together multiple disciplines to provide a holistic perspective and real-world impact in order to be useful for policy influencers

Nature Reviews Earth & Environment



REVIEWS

Sea-level rise and human migration

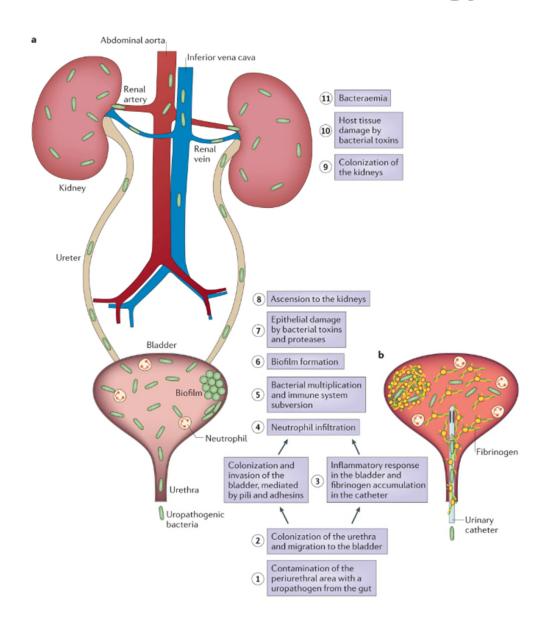
Mathew E. Hauero 1*, Elizabeth Fussell^o, Valerie Mueller^{o, A}, Maxine Bu

Abstract | Arthropogenic was level rise (SLR) is prede ted to impact, and, in m. the global countal popularion projected to surpass one billion people this century, S.R. might be among the most costly and permanent future consequences of climate change. In this Review, we synthesize the sopidly expanding knowledge of human mobility and migration responses to SLR providing a coherent roading for future SLR research and associated policy. While it is often assumed that direct inundation forces amigration, we discuss how mobility responses are instead driven by a diversity of socioeconomic and demographic factors, which, in some cases, do not work in amilgration response. We link SLR hezards with potential mechanisms of migration and the associated governmental or institutional policies that operate as obstacles or facilitators for that migration. Specific examples from the USA, Bangladesh and at oll island nations are used to contextualize these concepts. However, further remarch is needed on the fundamental echanisms underlying SLR migration, tipping points, thresholds and leadhacks, risk perception and migration to fully understand migration responses to SLR.

th of global gross domestic product". The implications of SLR on human migration first

mountains relocation. However, revious other hances associated with SLE will also impact outgration patters and, in fact, will exert their influence considerably score than complete intendation. Hanceds include subwate current projections for the year 2000, for example, range: intrustion into groundwater and agricultural sold-from a low of 0.4m to a high of 2.5m PSFS 4, depend-constal flooding ** **, shifts in sediment regimes**, on

Nature Reviews Microbiology



REVIEWS

Urinary tract infections: epidemiology, mechanisms of infection and treatment options

Ana L. Flores-Mireles*, Jennifer N. Walker*, Michael Caparon and Scott J. Hultgren Abstract | Urinary tract infections (UTIs) are a severe public health problem and are caused by a range of pathogens, but most commonly by Escherichia coli, Klebsiella pneumoniae, Proteus mirabilis, Enterococcus faecalis and Staphylococcus saprophyticus. High recurrence rates and increasing antimicrobial resistance among uropathogens threaten to greatly increase the economic burden of these infections. In this Review, we discuss how basic science studies are elucidating the molecular details of the crosstalk that occurs at the host-pathogen interface, as well as the consequences of these interactions for the pathophysiology of UTIs. We also describe current efforts to translate this knowledge into new clinical treatments for UTIs.

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Urinary tract infections (UTIs) are some of the most devices*3. In the United States, 70-80% of complicated ple each year worldwide. In 2007, in the United States for UTI symptoms (constituting 0.9% of all ambulatory visits) and 2-3 million emergency department visits¹⁻¹. Currently, the societal costs of these infections, including health care costs and time missed from work, are approximately US\$3.5 billion per year in the United States alone. UTIs are a significant cause of morbidity in infant boys, older men and females of all ages. Serious sequelae include frequent recurrences, pyetorephritis with sepsis, renal damage in young children, pre-term birth and complications caused by frequent antimicrobial use, such as high-level antibiotic resistance and Clostridium

infections are differentiated into lower UTIs (cystitis) and upper UTIs (pyelonephritis)^{1,7}. Several risk factors are associated with cystitis, including female gender, a prior UTI, sexual activity, vaginal infection, diabetes, obesity and genetic susceptibility. Complicated UTIs are defined as UTIs associated with factors that comprobiota of the vagina and gastrointestinal tract and in the mise the urinary tract or host defence, including urinary obstruction, urinary retention caused by neurological disease, immunosuppression, renal failure, renal transplantation, pregnancy and the presence of foreign bod-

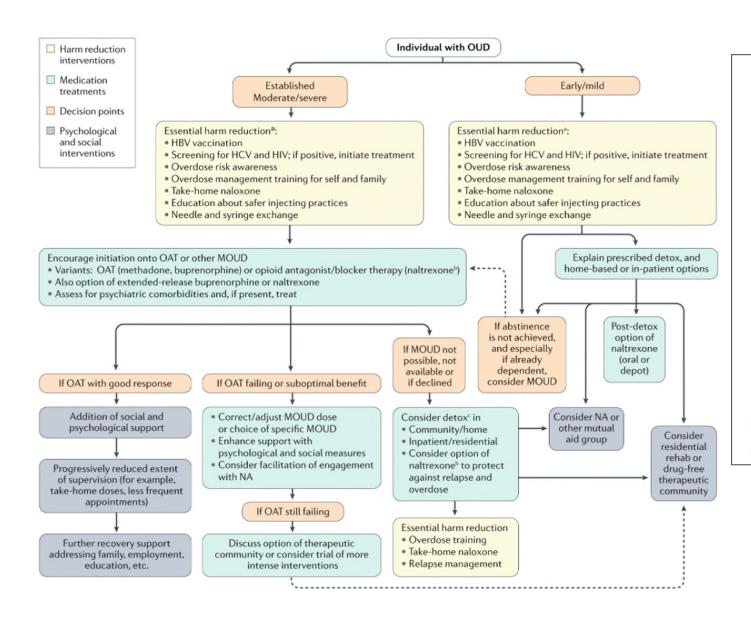
common bacterial infections, affecting 150 million peo- UTIs are attributable to indwelling catheters10, accounting for 1 million cases per year4. Catheter-associated UTIs alone, there were an estimated 10.5 million office visits (CAUTIs) are associated with increased morbidity and mortality, and are collectively the most common cause of secondary bloodstream infections. Risk factors for developing a CAUTI include prolonged catheterization, female gender, older age and diabetes

UTIs are caused by both Gram-negative and Gram positive bacteria, as well as by certain fungi (FIG. 1). The and complicated UTIs is uropathogenic Escherichia coli (UPEC). For the agents involved in uncomplicated UTIs, UPEC is followed in prevalence by Klebsiella pneumoniae, Staphylococcus saprophyticus, Enterococcus faecalis, group B Streptococcus (GBS), Proteus mirabilis, complicated. Uncomplicated uTIs typically affect individuals who are otherwise healthy and have no structural or neurological urinary war described in the control of the complicated uTIs the control of the complicated uTIs, the trail or neurological urinary war described in the control of the complex of the complex of the control of t Candida spp., S. aureus, P. mirabilis, P. aeruginosa and

Patients suffering from a symptomatic UTI are commonly treated with antibiotics; these treatments biota of the vagina and gastrointestinal tract and in the development of multidrug-resistant micr The availability of niches that are no longer filled by the altered microbiota can increase the risk of colonization with multidrug-resistant uropathogens. Importantly ies such as calculi, indwelling catheters or other drainage the 'golden era' of antibiotics is waning, and the need

NATURE REVIEWS MICROSIDIOCO

Nature Reviews Disease Primers



Opioid use disorder

John Strang^{1,3}*, Nora D. Volkow¹*, Louisa Degenhardt⁴, Matthew Hickman⁵ Kimberly Johnson⁶, George F. Koob⁷, Brandon D. L. Marshall⁹, Mark Tyndoll⁹ and Sharon L. Walshin

Abstract | Opioid use disorder (OUD) is a chronic relapsing disorder that, whilst initially driven by activation of brain reward neurocircuits, increasingly engages anti-reward neurocircuits that drive adverse emotional states and relapse. However, successful recovery is possible with appropriate treatment, although with a persisting propensity to relapse. The individual and public health burdens of OUD are immense; 26.8 million people were estimated to be living with OUD globally in 2016, with >100,000 opioid overdose deaths annually, including >47,000 in the USA in 2017. Well-conducted trials have demonstrated that long-term opioid agonist therapy with methadone and buprenorphine have great efficacy for OUD treatment and can save lives. New forms of the opioid receptor antagonist naltrexone are also being studied. Some frequently used approaches have less scientifically robust evidence but are nevertheless considered important, including mmunity preventive strategies, harm reduction interventions to reduce adverse seguelae from ongoing use and mutual aid groups. Other commonly used approaches, such as detoxification alone, lack scientific evidence. Delivery of effective prevention and treatment responses is often complicated by coexisting comorbidities and inadequate support, as well as by conflicting public and political opinions. Science has a crucial role to play in informing public attitudes and developing fuller evidence to understand OUD and its associated harms, as well as in obtaining the evidence today that will improve the prevention and treatment interventions of tomorrow

Our understanding of opioid use disorder (OUD) is clinical indications is associated with wider societal costs complicated by strong public and political opinions substantion and an arms to faint public and political opinions about drug use behaviours. It is, therefore, particularly and economic contribution, and increased risk and cost important to use afforcate to guide our response to the office of crime (both from the fligal drug matter per se and global burden of the disorder (the flight drug matter). It is understand individuals using crime to fund their drug use). he aetiology of OUD and to critically examine the scien-

Over the past few decades, the understanding of the the actiology of OUD and so critically examine the science of the content of the effect of interventions. OUD in now meritine civalence for the effect of interventions. OUD in now meritine content of the effect of interventions. OUD in now meritine content in a newthern separation of dependence, addiction and other complications from opinion or condens in anternally occurring compounds such as the resist of the opinion of the use of opinion is naturally occurring compounds such as the resist of the opinion opinion of the opinion of the opinion o semi-synthic paramaciscular apiedos (user in higher colonier or expramphore), and flinicity manifestavet of distributed substances (such as hexino, feritangi and assalogons), Ojolida en ordade of its appropriate clini-cial applications (that is, in the management of severe acute pair or assachessals) as a important physical brails in some given the potential addictiveness of three expressions. The control of the principal color to the extent of assachessals have any operation of severe observed find, the initial transmission are being increasingly assaches pairs of the control of the principal color of the cut of the cut of a final color of the cut of the cut of the cut of the cut of a final cut of the cu and the potential shalls sequelate of drug-use behaviours protect from, or aggravate, progression of OUD can be (for example, HIV and kepsitis Cvirus (HCV) infection (for example, HIV and kepsitis Cvirus (HCV) infection recognized, and influences that create specific drug epi-and treatmission, becreated and context abstinence syndrome). In addition, opioid use outside can be understood.

What other content do Nature Reviews publish?

The Nature Reviews journals publish a variety of content types that appeal to a wide audience, from patients to professors

- Biobusiness Briefs (NRDD)
- PrimeViews (NRDP)
- Comment
- Correspondence
- Editorials
- News in Brief
- Opinion
- Perspective
- Progress
- Research Highlight
- Technical Reviews
- Roadmaps



Poll Questions 3 & 4

Do you see demand directly from your patrons for Reviews journals?

How important is it to you or your users that review articles are OA?

Q&A

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The story behind the image



Antarctica meltdown could double sea level rise

Researchers at Pennsylvania State University have been considering how quickly a glacial ice melt in Antarctica would raise sea levels. By updating models with new discoveries and comparing them with past sea-level rise events they predict that a melting Antarctica could raise oceans by more than 3 feet by the end of the century if greenhouse gas emissions continued unabated, roughly doubling previous total sealevel rise estimates. Rising seas could put many of the world's coastlines underwater or at risk of flooding and storm surges.