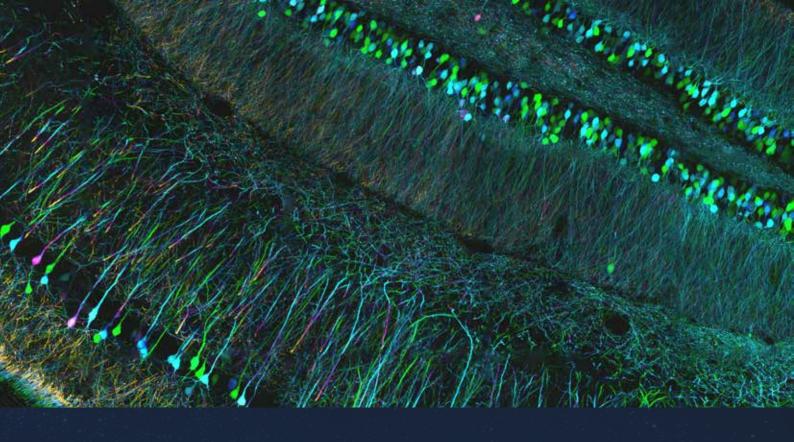




BECKLEY FOUNDATION SCIENTIFIC PROGRAMME 2021



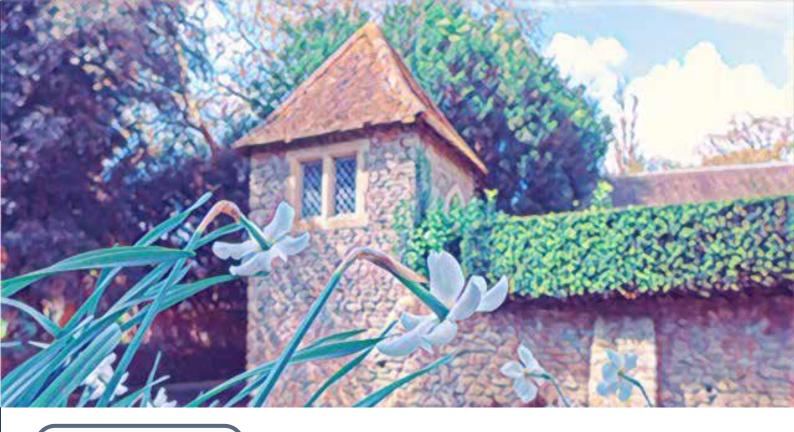
About the Beckley Foundation

The Beckley Foundation is a charitable organisation set up by Amanda Feilding in 1998 to initiate and carry out pioneering research into the therapeutic potential of psychedelics, and to create a scientific base for global drug policy reform. The work of the Foundation relies entirely on donations.

Our mission

Our aim is to harness the power of science in order to integrate psychoactive substances into society as safe and effective tools, to treat a broad range of health conditions and enhance wellbeing.

"What we have done so far is open the door. However, there is an immense wealth of knowledge to continue mining." - Amanda Feilding



THE TIME FOR PSYCHEDELIC RESEARCH IS NOW Psychedelics have the potential to create a revolutionary paradigm shift in mental health. There is now a unique window of opportunity to accelerate research so that the therapeutic value of these compounds may be recognised and used to their full potential.

EXPANDING
THE FRONTIERS
OF PSYCHEDELIC
KNOWLEDGE

Amanda Feilding is committed to using this momentum to further push the limits of scientific knowledge, with a wide spectrum of ongoing projects investigating LSD, psilocybin, ibogaine, 5-MeO-DMT and ayahuasca.

PREPARING FOR THE FUTURE OF PSYCHEDELIC THERAPY

Our aim is to facilitate a broad access to psychedelicassisted therapies for those in need through the exploration of alternative, more practical ways to use these compounds in therapy.

Many thanks to our donors!

To advance our knowledge of psychedelics and their therapeutic potential, and to ensure that governments, and indeed the public and private sectors, are properly informed, the Beckley Foundation relies exclusively on the generosity of our supporters. Donations of any amount are greatly appreciated and help us develop and expand our science, policy and outreach programmes.



Hold your phone camera up to the QR code to access our website and support the work of the Foundation.

To donate, please visit beckleyfoundation.org/donate

Message from the Director: Amanda Feilding



In 1966 I met an exceptional Dutch scientist, with whom I worked for the next 25 years, trying to understand better the physiology and the psychology of the human brain, and how psychedelics change its working capacity, and how, with certain knowledge, one can gain control of that increased capacity. It was the most exciting study I had ever done, and I am still doing it.

My aim then, as it is now, was to increase our understanding of the mechanisms underlying the effects of psychedelics, so that we are better able to use them as tools to treat illness and enhance wellbeing.

When I established the Beckley Foundation in 1998, I did so with a vision of working with leading scientists from around the world, in order to break the taboo surrounding psychedelics by providing robust scientific evidence as to their true effects, thereby integrating them into society.

I am proud that the ground-breaking studies that have been carried out through the Beckley Foundation Research Programmes – from the first neuro-imaging studies of LSD, MDMA and DMT, to the first study looking into the potential of psilocybin-assisted psychotherapy to overcome treatment-resistant depression (and addiction)— have helped bring about the Psychedelic Renaissance, and raised the profile of the entire field, widening the space in which other researchers and policy experts can act.

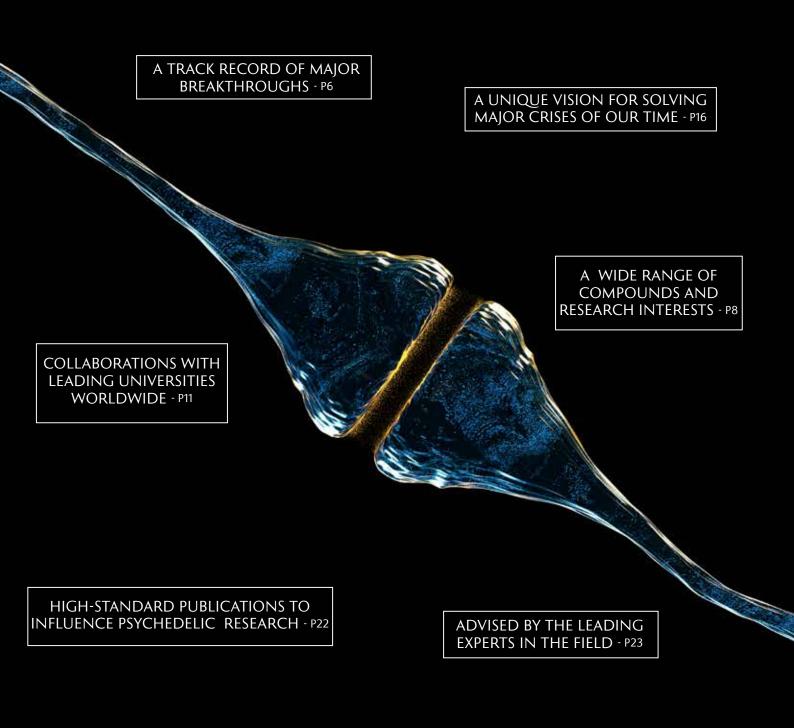
Ever more evidence from rigorously conducted research is confirming the high therapeutic value of psychedelics, with potential benefits that extend far beyond the field of psychiatry. We mustkeep the momentum going and bring about a paradigm shift in society that facilitates access to the medical use of these compounds to those in need.

Following over a decade of significant breakthroughs with the Beckley/Imperial Research Programme, I am now expanding the work with new collaborations around the world, making use of a wide range of cutting-edge technologies and investigational approaches.

I look forward to the future with great excitement, and conviction of the possibility to improve the human condition.

Faithful to its original mission, the Beckley Foundation will continue pushing the limits of our knowledge by conducting the best possible exploratory and clinical research, and daring to explore new and taboo territories. This endeavour cannot be achieved without the contribution of visionary philanthropists that share our pioneering vision and mission to transform humanity, currently suffering from a pandemic of mental health disorders, into a healthier and happier species.

Why Support Us?



DRUG POLICY INITIATIVES - P24

A FAR-REACHING GLOBAL VOICE & HIGHLY INFLUENTIAL PRESENCE IN THE MEDIA - P9

A Track Record of Major Breakthroughs

Amanda Feilding has been studying the mechanisms underlying the effects of psychedelics since 1966. In 1998, she set up the Beckley Foundation, which she has since led, in order to open the doors of scientific research into the potential benefits of psychedelics, and to develop a scientific evidence base to help reform global drug policies, so that these compounds will be integrated into society and made available to those in need.

Amanda collaborates with Prof Franz Vollenweider on a study investigating psilocybin's effects on changes in cerebral circulation using PET.

Amanda Feilding establishes the Beckley/Bristol Research Programme with ProfDavid Nutt and herself as codirectors.

Amanda establishes the *Beckley/Imperial Research Programme* with Prof David Nutt and herself as co-directors, and appoints Dr Robin Carhart-Harris as Principal Investigator. The first fMRI study of psilocybin is conducted as part of the Beckley/Imperial Research Programme, identifying for the first time crucial changes in the organisation of functional brain networks during the psychedelic experience.









1998 2005 2008 2012

2002 2005 2006 2015



Amanda sets up a series of international seminars, 'Society and Drugs', at the House of Lords.



Amanda sets up a collaboration with Berkeley, California, which gained the first ethical approval for a brain imaging study with LSD in humans.



Amanda convenes the global *Cannabis Commission* which results in the seminal report *Cannabis Policy: Moving Beyond the Stalemate*, later presented at the UN. Starts investigating CBD.



Amanda's collaborative research with UCL on the effects of CBD vs THC is featured in the Channel 4 documentary The Cannabis Trial.

Psychedelic Milestones

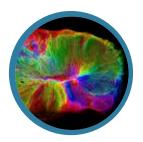
The Beckley/Imperial Research Programme publishes first ground-breaking results on psilocybin-assisted therapy for treatment resistant depression.

Ahe Beckley/Imperial Research
Programme publishes the first images
of the human brain on LSD. Amanda
Feilding's collaboration with Johns
Hopkins produces the first scientific
evidence for the successful outcome
of psilocybin-assisted therapy for
overcoming nicotine addiction.

First results from Beckley/ Brazil demonstrating the effect of LSD on synaptogenesis in labgrown minibrains, and enhancement of cognitive functions in rats







2016 2016 2019

2017 2018 2020



Amanda sets up the Beckley/Brazil and the Beckley/Maastricht Psychedelic Research Programme, investigating the potential of LSD and other compounds.



The FDA grants breakthrough therapy designation for psilocybin and treatment-resistant depression, based on the *Beckley/Imperial* research with treatment-resistant depression.



Ground-breaking results from our lab-based LSD microdosing research programme demonstrating for the first time some beneficial effects of LSD on mood, vigilance, neuroplasticity (BDNF) and pain tolerance.

A Wide Range of Compounds and Research Interests



A Global Voice





3,500+

Articles on our LSD research in international & national press, including The Sunday Times, The Guardian, Washington Post, The Financial Times, CNN and Scientific American



2000+

Articles on Psilocybin for depression including The Guardian (78,000 shares), The Spectator, The Mail Online, The Mirror, CNN and The Sun



6 million+

Views of The Guardian's "LSD's impact on the brain revealed in ground-breaking images"



500,000+

Twitter impressions per month. Followers include politicians, international journalists, healthcare professionals, academic researchers and leading research institutions.



40,000+

Facebook fans include scientists, policymakers, top journalists and medical cannabis campaign groups. Beckley research videos have been watched over 500,000 times.

Amanda Feilding's Collaborations with Leading Universities and Research Institutes Worldwide

Beckley/UCL

Since 2012

Research on MDMA and self-compassion. Neuroimaging study of the effects of THC and CBD.

Beckley/Johns Hopkins

Since 2008

First psilocybin-assisted therapy for smoking cessation. 80% abstinence rate at 6 months.









Imperial College London

University College London

King's College London

University of Oxford

University of Exeter

University of Bristol

ICEERS

Johns Hopkins University

D'Or Institute, Rio de Janeiro

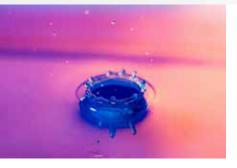
University of Maastricht

Berkeley University

Sant Pau Hospital, Barcelona

Sechenov Institute, St Petersburg

University of Alberta



Collaboration with Chicago University

A new collaboration set up in 2019 to investigate LSD microdosing for depression.





Beckley/ICEERS

Since 2014

Observational research on longterms effects of ayahuasca ceremonies.

Beckley/San Pau

Since 2013

Research on ayahuasca. First ground-breaking evidence for effects of ayahuasca on neurogenesis and mindfulness.

Beckley's Major Collaborations Highlights

BECKLEY/IMPERIAL

Set up in 2008, co-directed by Amanda Feilding and Prof David Nutt

The Beckley/Imperial Research programme, which in 2019 evolved into the Imperial Centre for Psychedelic Research, built on over a decade of pioneering work in this area carried out by the Beckley/Imperial research programme, including the first neuroimaging study with LSD (see appendix p 27) and a clinical trial that has kick-

started global efforts to develop psilocybin therapy into a licensed treatment for depression

(see appendix p 26)

Key achievements:

First neuroimaging study with LSD. Psilocybin-assisted therapy for treatment-resistant depression. Over 60 peer-reviewed publications.

Ongoing projects:

Self-blinded microdosing study.



BECKLEY/BRAZIL

Set up in 2017

Ongoing projects:

Translational research in brain cells, cerebral organoids, animal models and humans exploring new therapeutic applications for psychedelics.

BECKLEY/MAASTRICHT

Set up in 2017

Key achievements:

LSD microdosing dose-finding study (see p.13-14) Psilocybin multimodal neuroimaging study.

Ongoing projects:

Investigation of the effects of repeated LSD microdosing in healthy volunteers on mood, cognition and pain, and multimodal assessment of changes in neuroplasticity



Spotlight on Our Microdosing Research Programme

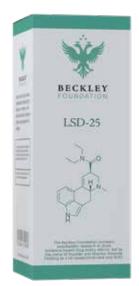
About Microdosing

The practice of microdosing entails taking low doses of psychedelics, which are usually one-tenth of a hallucinogenic dose. For example, a microdose of LSD would be between 10 and 20 μ g.

While this practice is growing in popularity, there is however very little research to support the validity of certain claims, which include improved cognition, productivity and mood.

Amanda Feilding and her research partners are seeking to uncover more information, both to assist with harm reduction among those microdosing in their daily lives, and, importantly, to support the evidence base for the introduction of possible psychedelic medicines.





"I was introduced to LSD in 1965. In the years that followed, other than the mystical, or peak experience, my aim was to hit that 'sweet spot', where vitality and creativity are enhanced, while leaving me in control of my concentration. I grew to love this state. It was, in a way, comparable to what people are doing today with microdosing." – Amanda Feilding

THE BECKLEY MICRODOSING RESEARCH PROGRAMME



LSD microdosing dose-finding study Beckley/Maastricht Investigating the effects of various small doses of LSD (5, 10, 20 µg) on mood, cognitive functions, and tolerance to pain





Self-blinding microdosing study Beckley/Imperial
An innovative procedure to combine the rigour of placebocontrolled studies with the high number/low cost advantage of naturalistic studies



Repeated LSD microdosing Beckley/Maastricht Effects on brain activity, neuroplasticity, long-term changes



LSD microdosing for depression Beckley/Chicago A study in individuals with high depression scores



Microdosing research platform For surveys, observational studies and remote interventions (see p.15 for more information)



Studies under development
Optimising microdosing
therapeutic use, and exploring
novel applications



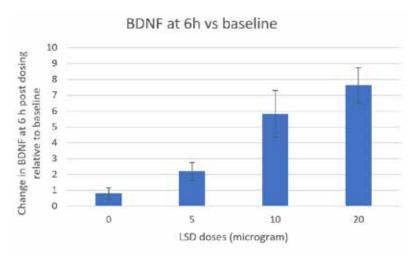
Spotlight on Our Microdosing Research Programme

Groundbreaking results

First evidence for an effect of LSD microdosing on neuroplasticity in humans

Given the interest in BDNF (Brain-derived neurotrophic factor) as a key player in several neurodegenerative and neuropsychiatric disorders, our *Beckley/Maastricht* dose-finding microdosing study included, among other measures, that of changes in BDNF plasma levels following low doses of LSD (5, 10, and 20 µg) and a placebo, in healthy volunteers.

The findings demonstrated an increase in BDNF starting 4h after LSD administration. 6h after administration, the increase in BDNF level was proportionate to the dose of LSD administered, a remarkable result that warrants studies in patient populations.





Important role of BDNF regulation in health and disease

Various studies have shown possible links between BDNF and conditions such as depression, obsessive-compulsive disorder, Alzheimer's disease, diabetes, and eating disorders. Conversely, higher levels of the protein are associated with improved cognitive functioning, mental health, and short- and long-term memory.

Microdosing improves mood and vigilance

Our results also demonstrate that small doses of LSD - particularly the highest dose we investigated (20 µg) - significantly enhanced positive mood as well as vigilance in our group of healthy participants.

Related ongoing and future work

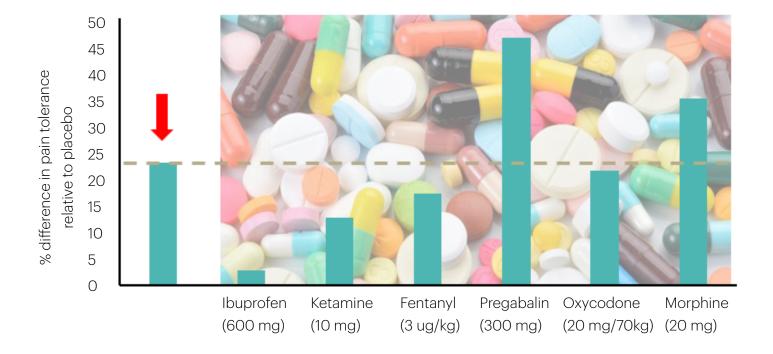
Repeated LSD Microdosing LSD Microdosing for depression

Microdosing for brain pathologies

Spotlight on Our Microdosing Research Programme

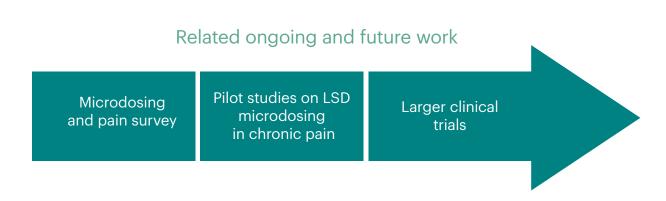
First evidence for the analgesic properties of LSD microdosing

Another measure collected throughout the dosing days as part of our dose-finding microdosing study was that of pain tolerance. The study consistently indicated that a $20\mu g$ dose of LSD significantly reduced pain perception, as compared to the placebo.



"The present data suggests low doses of LSD could constitute a useful pain management treatment option that is not only effective in patients but is also devoid of the problematic consequences associated with current mainstay drugs, such as opioids. Over 16 million people worldwide are currently suffering from Opioid Use Disorder and many more will become hooked as a result of oversubscription of pain medication. I am encouraged by these results as I have long believed that LSD may not only change the sensations of pain but also our subjective relationship with it. We must continue to explore this with the aim of providing safer, non-addictive alternatives to pain management, and to bring people in pain a step closer to living happier, healthier and fully expressed lives."

— Amanda Feilding



Development of an online platform for research and harm reduction

COVID-19 has come with many challenges to research, but also brought many opportunities. Virtual research constitutes a new way of conducting science, with access to a much larger number of participants for a fraction of the cost of lab-based studies. Concerns over the quality of the data collected this way are becoming obsolete, as new wearable technology is developing at a fast pace.

The Beckley Foundation is in the process of developing its own online remote platform to conduct a range of exciting virtual studies (e.g. surveys & observational studies in psychedelics users) in order to further explore the various possible uses of psychedelics.

Tech, gizmos, and gadgets are at the heart of virtual research, from smartphone apps to wearables and e-diaries. Virtual trials will benefit from the wealth of technology on the market, facilitating rapid data collection.



Step 1

Surveys and experience collector Example of ongoing surveys:

- Microdosing & pain
- Psychedelic use and changes in beliefs & worldviews

Step 2

Observational studies with wearables and drug testing kit

Example of planned studies:

- Ibogaine microdosing
- Mindfulness and microdosing

Step 3

Large-scale siteless clinical research Example of research under development:

- Natural psilocybin microdosing for anxiety

New Programme of Research

Three major crises of our time

Mental health crisis

We are facing an everworsening mental health epidemic, that is being further fuelled by the COVID-19 pandemic. Rates of anxiety, depression and addiction have never been as high and continue rising.

Ageing crisis

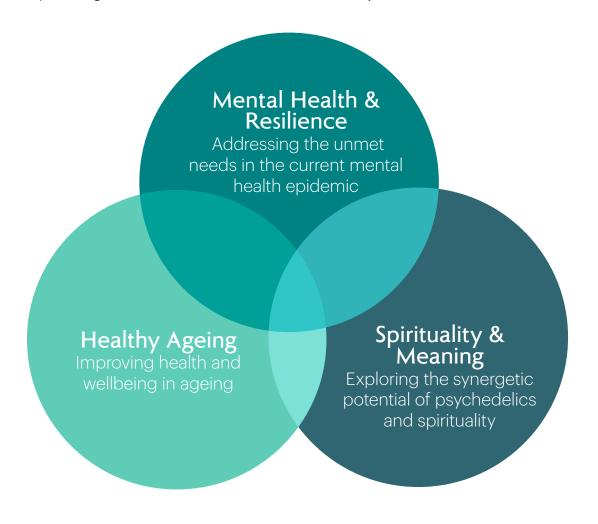
In 2015, 12.3% of the global population was aged over 60. By 2050, this proportion will have increased to 21.3%. Solutions are needed to extend the span of healthy and independent living.

Psycho-spiritual crisis

Western consumer culture is creating a psycho-spiritual crisis that leaves many disoriented and bereft of purpose, creating an unprecedented epidemic of demoralisation and existential distress.

Psychedelics, as research is showing, are uniquely versatile medicines that hold tremendous potential in addressing key aspects of these societal crises.

The Beckley Foundation has always been unique in its wide and exploratory approach to psychedelic research. With our new research programmes, we intend to extend our scope further than ever before, by simultaneously tackling what we consider to be three of the major crises of our time.



Healthy Ageing Research Programme

Psychedelics for a longer and healthier life

Our research suggests that psychedelics positively affect key physiological, psychological & behavioural functions.

> These effects could be beneficial in the treatment of a number of age-related conditions.

Chronic pain



Inflammatory diseases







In healthy individuals, boosting these functions may also have numerous positive effects.



Prevention of cognitive decline



Longevity

Mood and vitality enhancement



Flexibility and resilience

Mental Health & Resilience: Our Three Major Areas of Research Focus

PREVENTION

Can psychedelics be used to promote wellbeing and flexibility, to enhance resilience to stress or pain, and to cope with adverse life events?

TREATMENT

How can we optimise psychedelic-assisted therapy, better understand which patients populations it may benefit most, and ensure these therapies are widely accessible?

MAINTENANCE

What are the best strategies to prolongate the benefits of psychedelic-assisted therapy and avoid relapse?

Amanda Feilding is developing and initiating a range of research projects that will address these essential questions, by making use of the full spectrum of possible approaches, from information gathering via surveys, to the development of pioneering clinical studies, through the carrying out of observational research following psychedelic users in their journey towards recovery.

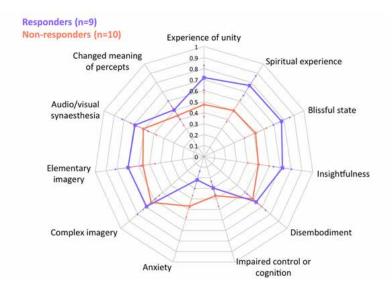
"I believe that if people would learn to use LSD's vision-inducing capability more wisely, under suitable conditions, in medical practice and in conjunction with meditation, then in the future this problem child could become a wonderchild." – Albert Hofmann

Spirituality & Wellbeing Research Programme

How important is the mystical experience in the long-term benefits of psychedelic-assisted therapy?

Recent research on psychedelic-assisted psychotherapy has shown the great promise of this therapeutic approach for the treatment of numerous mental health conditions. Instead of medicating people away from their emotions, it promotes a reconnection with them. In the first clinical study of psilocybin-assisted therapy for treatment resistant depression, carried out by the *Beckley/Imperial* team, we found, for the first time in the history of psychiatry, that the mystical experience lies at the very heart of treatment efficacy.

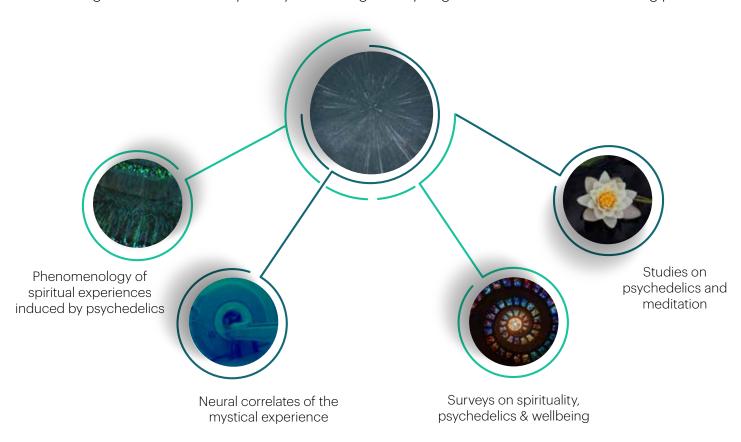
Patients who demonstrated the greatest improvement in their depression scores (See



graphic: blue line - 9 responders) were those who had undergone a greater mystical experience during the psychedelic intervention. Lower 'peak' experiences were reported in those with weaker therapeutic response (red line - 10 'non-responders').

Projects Under Development

One of the Beckley Foundation's goals is to explore in depth the link between psychedelics and spirituality – knowledge which could be key to fully harnessing their synergistic transformative and healing potential.



Selected Scientific Articles

BECKLEY/IMPERIAL RESEARCH PROGRAMME

Co-directed by Prof David Nutt & Amanda Feilding

Psilocybin with psychological support for treatment-resistant depression: an open-label feasibility study (2016), Carhart-Harris RL, Bolstridge M, Rucker J, ...Feilding A, ... Nutt DJ, *The Lancet Psychiatry*, 3(7), 619-627

Neural correlates of the LSD experience revealed by multimodal neuroimaging (2016), Carhart-Harris RL, Muthukumaraswamy S, Roseman L, Kaelen M, ..., Feilding A, Nutt DJ, *PNAS*, 113(17), 4853-4858

Neural correlates of the DMT experience assessed with multivariate EEG (2019),

Timmermann C, Roseman L, ..., Nutt DJ, Carhart-Harris R, Scientific Reports , 9, 16324

Increased global functional connectivity correlates with LSD-induced ego dissolution (2016) Tagliazucchi E, Roseman L, Kaelen M, ..., Feilding A, Nutt DJ, Carhart-Harris R, *Current Biology*, 28(8), 1043-1050

Psilocybin with psychological support for treatment-resistant depression: six-month follow-up (2018), Carhart-Harris RL, ..., Feilding A, Taylor D, Curran HV, Nutt DJ, Psychopharmacology (Berl), 235(2):399-408

Increased amygdala responses to emotional faces after psilocybin for treatment-resistant depression (2017), Roseman L, Demetriou L, Wall MB, Nutt DJ, Carhart-Harris RL, Neuropsychopharmacology, pii: S0028-3908(17)30639-1

Altered Insula connectivity under MDMA (2017), Walpola IC, Nest T, Roseman L, Erritzoe D, Feilding A, Nutt DJ, Carhart-Harris RL, Neuropsychopharmacology, 42(11):2152-2162

Neural correlates of the psychedelic state as determined by fMRI studies with psilocybin (2012), Carhart-Harris RL, Erritzoe D, Williams T, ..., Feilding A, Wise R, Nutt DJ, PNAS, 109(6), 2138-214

COLLABORATION WITH JOHNS HOPKINS UNIVERSITY

Pilot study of the 5-HT2AR agonist psilocybin in the treatment of tobacco addiction (2014), Johnson MW, Garcia-Romeu A, Cosimano MP, Griffiths RR, Journal of Psychopharmacology, 28(11); 983-992

BECKLEY/BRAZIL RESEARCH PROGRAMME

Co-directed by S Rehens, S Ribeiro, de Araujo DB and & Amanda Feilding

d-LSD enhances novelty preference by increasing synaptic connectivity: an integrative view on how psychedelics may enhance cognition (In prep),. Ribeiro S, Rehens S, de Araujo DB, Feilding A

BECKLEY/MAASTRICHT RESEARCH PROGRAMME

Co-directed by Prof Jan Ramaekers & Amanda Feilding

Low Doses of LSD Acutely Increase BDNF Blood Plasma Levels in Healthy Volunteers (2020), Hutten N,. Mason N, ..., Feilding A,. Ramaekers J, and Kuypers K, ACS Pharmacology & Translational Science

A low dose of lysergic acid diethylamide decreases pain perception in healthy volunteers (2020), Ramaekers J, Hutten N, Mason N, ...Liechti M, Feilding A and Kuypers K, Journal of Psychopharmacology

Mood and cognition after administration of low LSD doses in healthy volunteers: A placebo controlled dose-effect finding study (2020), Hutten N., Mason N, ..., Feilding A., Ramaekers J, and Kuypers K, Eur Neuropsychopharmacol, 41:81-91

Me, Myself, Bye: Regional alterations in glutamate and the experience of ego dissolution with psilocybin (2020), Mason, N., Kuypers, K.,..., Feilding A, Ramaekers J.., Nature Neuropsychopharmacology 45(12), 2003-2011

BECKLEY/SANT PAU RESEARCH PROGRAMME

Prof Stevens Rehen, Prof Sidarta Ribeiro, Prof Draulio B de Araujo and Amanda Feilding

The alkaloids of Banisteriopsis caapi, the plant source of the Amazonian hallucinogen Ayahuasca, stimulate adult neurogenesis in vitro (2017), Morales-Garcia J, de la Fuente Revenga M, Alonso-Gil S, ..., Feilding A, Perez-Castillo A, Riba J, Scientific Reports, 7: 5309

Assessing the Psychedelic "After-Glow" in Ayahuasca Users: Post-Acute Neurometabolic and Functional Connectivity Changes Are Associated with Enhanced Mindfulness Capacities (2017), Sampedro F, de la Fuente Revenga M, Valle M, ..., Feilding A, Riba J, The International Journal of Neuropsychopharmacology, 20 (9) 698-711

Ayahuasca: pharmacology, neuroscience and therapeutic potential (2016), Domínguez-Clavé E, Soler J, Friedlander P,..., Feilding A, Riba J, *Brain Research Bulletin*, 126(1), 89-101

Exploring the therapeutic potential of Ayahuasca: Acute intake increases mindfulnessrelated capacities (2015) Soler J, Elices M, Franquesa A, A Friedlander P, ..., Feilding A, Pascual JC, Riba J, Psychopharmacology, 233(5), 823-829

Scientific Advisory Board



Sir (Prof) Colin Blakemore

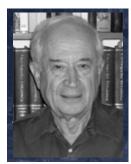
"Amanda has made significant contributions to the field of psychedelic research" Prof David E. Nichols



Prof David Nutt



Prof David E. Nichols



Prof Raphael Mechoulam



Prof Yuri E. Moskalenko



Prof V. S. Ramachandran



Prof Trevor Robbins



Prof Roger Pertwee



Prof Val Curran



Dr Mark Geyer

IN MEMORIAM



Prof Leslie L. Iversen



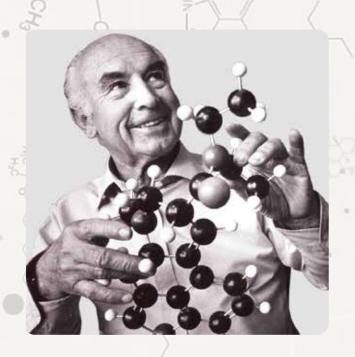
Dr Jordi Riba



Prof Lester Grinspoon

The Beckley Foundation Scientific Advisory Board includes leading international scientists on the topics of consciousness, neuroscience, biochemistry, psychiatry and psychology.

In Memoriam



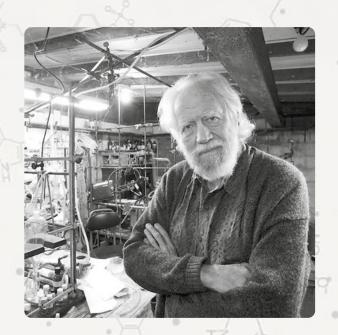
"Through my LSD experience and my new picture of reality, I became aware of the wonder of creation, the magnificence of nature and of the animal and plant kingdom. I became very sensitive to what will happen to all this and all of us."

Dr Albert Hofmann
The Beckley Foundation's first Scientific Advisor

"Use them with care, and use them with respect as to the transformations they can achieve, and you have an extraordinary research tool. [...]
They're not addictive, and they're certainly not escapist, either, but they're exceptionally valuable tools for understanding the human mind, and how it works."

Dr Alexander Shulgin

An early member of the Scientific Advisory Board



Drug Policy Programme



Global Reform

The 'War on Drugs' continues to cause worldwide devastation. Prohibition costs taxpayers billions each year, yet policies have failed to eliminate drugs, instead increasing the risks and harms associated with their use. Unregulated and mired in criminality, the illicit drugs trade is now worth over \$350 billion a year, and is associated with escalating violence, corruption, incarceration, and suffering.

Over the last 20 years, Amanda Feilding and the Beckley Foundation have been at the forefront of global drug policy reform, pioneering a scientific evidence base on which to build balanced alternatives to the prohibitionist approach. We bring together international scientists, politicians, and other experts to explore key issues at influential seminars and produce a range of seminal books, reports, and papers. Collectively, these aim to minimise the harms incurred by current policies, and introduce rational alternatives which encourage research into the medical and social impact of certain psychoactive substances.

Policy Publications

The Foundation has produced over 40 books, reports, and briefing papers on global drug policy issues, which have had a strong role in influencing the UN and various governments and states in their moves towards reform. Our publications present a thorough review of the impact of current prohibitionist policies and shed light on many previously obscured areas of this complex issue, while opening up the avenues for alternative policies.

We present alternatives to prohibition that:

- Promote public health and human rights
- Reduce drug-related crime, violence and corruption
- Enable governments to gain control of, and profit from, one of the world's largest economies
- · Dismantle the barriers to scientific and medical research

Drug Policy Programme

Society & Drugs: A Rational Perspective (2002 - 2011).

This series of 11 highly influential seminars held at the Houses of Lords, brought together for the first time eminent politicians, scientists, policy-makers, and other experts to discuss key policy issues at the national and global levels. Out of these discussions came a series of policy reports and books, that laid the foundations for global drug policy reforms which are currently taking place.

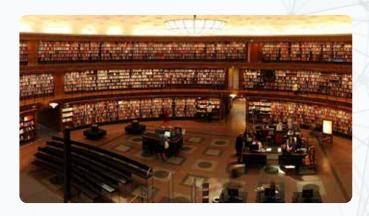
The seminars also paved the way for our ongoing policy programme which has included the following initiatives:



2002 2004 2006

The founding of two leading organisations: the International Drug Policy Consortium (IDPC) and the International Society for the Study of Drug Policy (ISSDP). These were both founded by Amanda Feilding and Mike Trace as part of the Beckley Foundation Policy Programme and launched at the Beckley Foundation Seminar of 2004. Since then they have become independent and flourished.





The Beckley Foundation Global Cannabis Commission was initiated by Amanda in 2006, and launched in 2008 with the report Cannabis Policy: Moving Beyond Stalemate. This report was the first of its kind and has been extremely influential in the regulation of cannabis at UN and national levels. It was later co-published with Oxford University Press.

Drug Policy Programme



The Beckley Foundation's International Advisory Work.

Amanda was invited by both the Guatemalan and Jamaican governments to advise them on drug policy reform. This included writing two reports for the President of Guatemala, Otto Perez Molina, one entitled *Paths to Reform*, which the president used at the UN and other international meetings. In Jamaica, Amanda worked closely with the Minister of Justice and the government in the implementation of a regulated cannabis industry.

The foundation has also been involved in advisory work in Mexico and Colombia among other countries.

2008

2013

2020



Licensing and Regulation of the Cannabis Market in England and Wales: Towards a Cost-Benefit Analysis (2013) was the first report to quantify the fiscal and social benefits of a regulated and taxed cannabis market.

Cannabis Policy: Moving Beyond Stalemate (2008) is a pioneering report produced by the Beckley Foundation's Global Cannabis Commission. Since the commission was set up in 2006, it has been demonstrated how draconian drug policies do not curb use. The book laid out for the first time alternative routes towards minimising the harms associated with cannabis: through decriminalisation and the establishment of a legally regulated market.

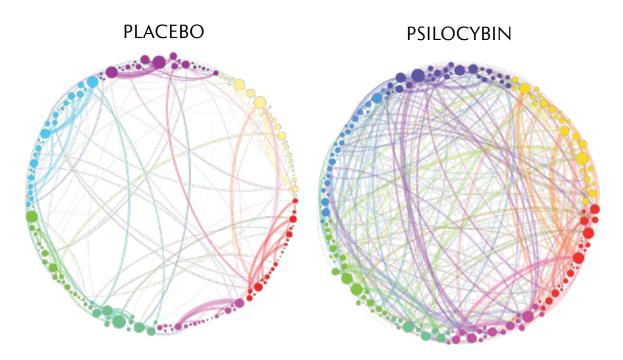


Roadmaps to Regulation: MDMA (2019) The report outlined, for the first time, detailed recommendations for drug policy reform in order to better control the production, distribution, purchase, and consumption of MDMA products.



Appendix: Pioneering Research on Psilocybin for the Treatment of Mental Disorders

In 2012, the findings of the first *Beckley/Imperial* psilocybin study using the latest brain imaging technology were published to international acclaim in the prestigious scientific journal PNAS. This ground-breaking study, initiated by Amanda Feilding, generated over half a dozen articles, each furthering our understanding of the way psychedelics alter consciousness and may constitute invaluable therapeutic tools, and led to the Medical Research Council awarding a grant to study the efficacy of psilocybin for the treatment of depression.



Beckley/Imperial Research Programme 2016

This analysis of data from the first *Beckley/Imperial* psilocybin stud famous images illustrate how psilocybin promotes strong, long-range, functional connections between brain regions which do not communicate significantly in normal consciousness. The psychedelic state is associated with less constrained neural networks, revealing the potential to enhance creativity and treat mental illnesses.

Psilocybin for treatment-resistant depression

The first pilot study was published in 2016 in the Lancet Psychiatry, with remarkably positive results: 67% of subjects with treatment-resistant depression were in remission one week after taking psilocybin, and 42% remained depression-free three months later. This is an unprecedented achievement, as the participants had suffered from depression for an average of 18 years and had failed to respond to any other treatment.

The study was extended to bring the total number of participants to 20 and to observe the longer term effects of the psilocybin treatment. Results supported the earlier findings and helped further elucidate the ways in which psilocybin brings about a beneficial therapeutic outcome.

Appendix: The First Brain Imaging Study to Investigate the Effects of LSD

In 2014, the Beckley/Imperial Research Programme started the first-ever brain imaging study with LSD, a long-standing ambition of Amanda's. Results were published in PNAS in 2016 and launched at the Royal Society, London, to global acclaim. Marked changes were observed in brain blood-flow, neural activity, and network communication patterns that correlated strongly with the drug's hallucinatory and other consciousness-altering properties.

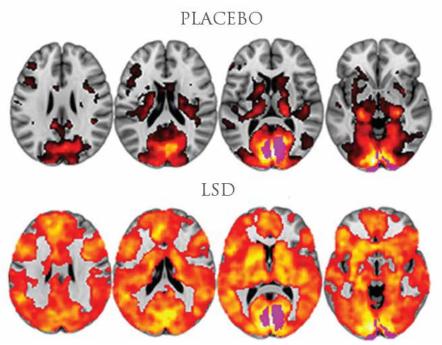


Amanda Feilding, David Nutt and Robin Carhart-Harris at the launch of 'LSD Revealed' at the Royal Society

LSD was shown to decrease connectivity between key regions of the brain's Default Mode Network (DMN) that are involved in processing various aspects of selfhood – such as autobiographical memories and self-awareness, thinking about the past, and planning the future. This effect correlated strongly with the subjective experience of 'ego dissolution', implying the importance of the DMN for maintaining the boundaries of the ego.

At the same time, LSD caused a dramatic increase in connectivity between other regions of the brain that are normally highly segregated. This can induce more free-flowing patterns of cognition, allowing users to become more creative and break free from rigid modes of thought and behaviour – such as those underlying psychological disorders like depression and addiction.

These results have significant implications for the neurobiology of consciousness, as well as for potential applications of LSD as a valuable tool for psychotherapy.



Beckley/Imperial Research Programme - 2016 PNAS
Neural correlates of the LSD experience revealed by multimodal neuroimaging shows dramatically increased connectivity between the visual centre and the rest of the brain.



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