

BIOS

centre for the study of bioscience, biomedicine, biotechnology and society

Annual Report 2006-07



Foreword: Sir John Sulston



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Sir John Sulston, former director of the Sanger Centre, Wellcome Trust Genome Campus, Hinxton

Working in laboratory to purify DNA

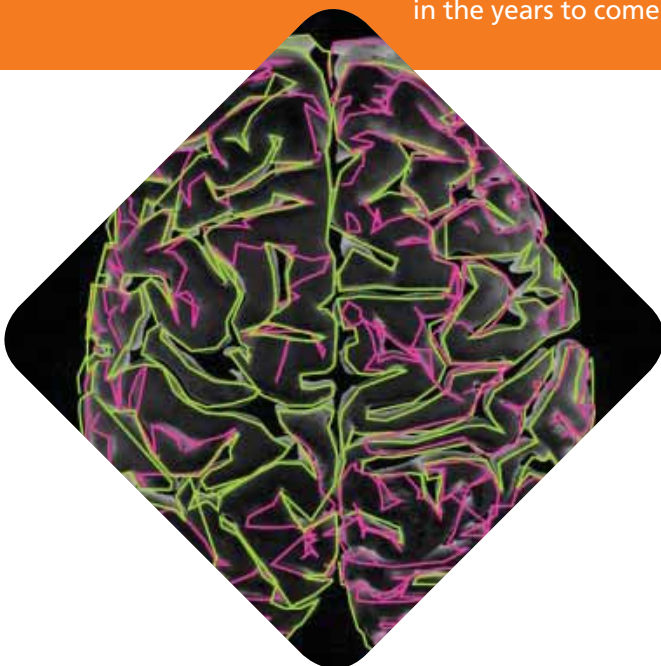
It has been a privilege for me to serve on the Advisory Board of BIOS since it was founded in 2003. During that time the Centre has grown in size, vigour, and both national and international reach. It now conducts a wide range of research in the relationship between the three bios (bioscience, biomedicine, biotechnology) and society. In so doing it is exploring some of the most significant effects of scientific advance on the human condition.

It is particularly pleasing to see how the Centre has grown in independence, and has been successful in attracting a variety of high value grants – a success due of course to the excellent quality of the staff and students. This independence is essential for the Centre to have a respected voice in the controversial topics with which it deals.

Neuroscience was designated a key area of the Centre's work from the beginning. Developments in neuroscience, leading at some point to an understanding of the human brain, are likely to provide the greatest socio-political challenges of biological research in the coming decades. It is critical to have sane voices to interpret the findings and give wise guidance to policy makers.

The Centre is active in many other areas, but none more important than the dialogue between Europe and Asia on ethical governance in the life sciences, as leader of the BIONET programme. International accord is essential for the success of ethical policy.

From this auspicious beginning, I wish the Centre every success in the years to come.



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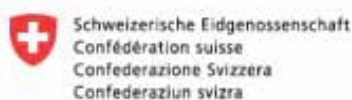
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Sponsors

BIOS gratefully acknowledges the support of the following organisations:



European Commission Sixth Framework Programme



Swiss Federal Department of Defence, Civil Protection and Sport



A message from the directorate

Since its launch in 2003, the mission of the BIOS Centre has been to place the intellectual resources of LSE at the heart of contemporary debates about the implications of recent advances in the life sciences, biomedicine and biotechnology. For the past five years we have worked to build a world-class research Centre that is at the forefront of contemporary thought concerning the social dimensions of what some have called 'the age of biology'. Our aim over the next five years is to consolidate and develop our work in our key priority areas, to continue to forge the concepts and methods necessary to analyse these developments, and to generate rigorous empirical evidence that will enable them to be characterised and evaluated, to build on our links with the scientific and clinical communities, to increase our input into policy deliberations, and, crucially, to ensure that our research has a robust, resilient and durable institutional base.

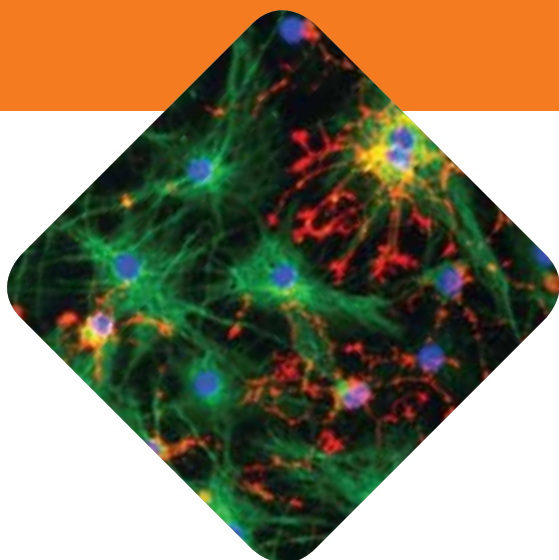
Since our last Annual Report (2004-5), BIOS has increased its research income to over £3m and more than doubled in size. This step-change in scale has been most evident as the growth of our community – meaning there are more of us about to enjoy our enhanced physical facilities as well as our ever-busy schedule of events.

The appointment of Dr Ilina Singh to the first-ever Wellcome Lectureship in Social Science, Professor Emily Jackson to a BIOS-linked position in the Law Department, and Sabrina Fernandez as our new Centre manager have been accompanied by eight new appointments in research, teaching and administration in the past two years.

Our flagship international conference, Vital Politics II, held in September 2006, was one of several noteworthy events over the past two years through which we have continued our effort to sustain and promote high quality research and debate about innovation in the life sciences. Like many of the high-profile speakers you will read about in this report – including Helga Nowotny, Sheila Jasanoff, Stephen Minger, Debora Spar, Eric Kandel, Ian Wilmut, and Craig Venter – BIOS continues to prioritise the importance of its location at LSE to encourage lively debate and discussion of developments in bioscience, biomedicine and biotechnology.

We hope you will be inspired by reading our report to join us in our future activities, to subscribe to our popular newsletter, and to visit us online where our latest research, news and event schedules can be downloaded.

Nikolas Rose, director
Sarah Franklin, associate director
Ilina Singh, associate director



BIOS five year highlights

BIOS: five years in numbers

Over £3m from 26 grants from 14 funding bodies

102 publications including 6 books and 64 articles

Expansion to 44 staff and associates

3 PhD graduates and 17 PhDs in progress

11 public lectures and debates

37 MSc graduates entering our 5th year

28 seminars, 12 conferences

6 issues of BIOS News

24,000 hits a month to the BIOS website



BIONET: ethical governance of biological and biomedical research: Chinese-European co-operation

Project team: Professor Nikolas Rose, Dr Ayo Wahlberg
Funder: European Commission 6th Framework Programme
Amount: £476,857
Start date: October 2006
Duration: 3 years

Advanced biological and biomedical research focusing in particular upon reproductive and regenerative medicine, clinical trials and the genomics of disease susceptibility is a key national, commercial and scientific priority in both China and Europe. Such research raises many challenges for ethical governance of scientific and medical practice, many of which have particular relevance to ensuring best practice in EU-China scientific collaborations. BIONET is a Consortium of 21 EU and Chinese partners examining the challenges facing the ethical governance of research in the life sciences and biomedicine in China and the EU. It is funded under the European Commission Sixth Framework programme.

Web: www.bionet-china.org
Contact: Ayo Wahlberg a.j.wahlberg@lse.ac.uk



Brain, Self and Society:

The Social and Political Implications of the New Brain Sciences

Project team: Professor Nikolas Rose, Dr Joelle Abi-Rached, Rachel Bell
Funder: ESRC
Amount: £511,116
Start date: September 2007
Duration: 3 years

This three-year research programme has been made possible by the award of an ESRC Professorial Research Fellowship to Nikolas Rose. It will explore whether the 'new brain sciences' are having as significant an impact on the 21st century as the birth of psychological conceptions of personhood did in the 20th century. There has been much speculation about these issues but less empirical sociological research. This project will chart the emergence and spread of this way of thinking about human beings, their minds and brains, and the new techniques of intervention that are being developed.

Web: www.lse.ac.uk/collections/brainSelfSociety
Contact: Joëlle Abi-Rached j.m.abi-rached@lse.ac.uk

ensn

europaean neuroscience and society network

Project team: Professor Nikolas Rose, Dr Giovanni Frazzetto, Dr Scott Vrecko, Dr Linsey McGoey, Caitlin Connors
Funder: European Science Foundation
Amount: €575,000
Start date: June 2007
Duration: 5 years

Funded by the European Science Foundation, the ENSN brings together leading European neuroscientists and social scientists to enable cross-disciplinary analysis of the social, political and economic implications of developments in the neurosciences. By assisting in the development of research strategies and by organising conferences, exchange visits, workshops and 'neuroschools,' the network facilitates formal engagement with these issues within the European social sciences, with a focus on neuroethics and politics, neuroeconomics and markets, neurochemical selves and identities, and public health implications of the changing neurosciences.

Web: www.lse.ac.uk/collections/ENSN
Contact: Caitlin Connors ensn@lse.ac.uk

Ethical frameworks for embryo donation in IVF/PGD

Project team: Professor Clare Williams (PI), Professor Sarah Franklin, Professor B Farsides, Professor S Wainwright, Dr K Ehrich
Funder: Wellcome Trust
Amount: £200,000
Start date: August 2007
Duration: 3 years

This project explores professional views of the ethics of embryo donation to human embryonic stem cell derivation by patients in IVF and PGD programmes as expressed by clinicians, scientists, embryologists, and other health professionals at three of the UK's leading derivation facilities. One of a number of studies of this important area, it draws on the views of professionals active in this field to identify key ethical issues and strategies. Using interviews, site visits, and focus groups to explore areas of concern and strategies for improving practice, the project is based on an innovative and unique interdisciplinary collaboration.

Web: www.kcl.ac.uk/schools/sspp/interdisciplinary/cbas/research/projects/emb.html

Contact: Dr Kathryn Ehrich kathryn.ehrich@kcl.ac.uk

Ethics in the making: a study of the development of psychopharmacological enhancement technologies in relation to social, scientific, and corporate conduct

Project team: Dr Scott Vrecko
Funder: Wellcome Trust
Amount: £162,467
Start date: December 2006
Duration: 3 years

Taking a case study approach, this project undertakes a grounded analysis of the everyday, practical decisions involved in the development and application of emerging technologies of psychopharmacological enhancement by investigating ethical problems as they arise and are dealt with by two key groups of actors: (i) scientific and commercial producers, and (ii) prescribers and consumers. In doing so, it will contribute to establishing an empirical foundation useful in the creation of bioethical and regulatory principles that are informed by and responsive to the mundane, day-to-day decisions and practices of psychopharmacological intervention.

Web: www.lse.ac.uk/collections/BIOS
Contact: Scott Vrecko s.vrecko@lse.ac.uk



Genome-based therapeutic drugs for depression: ethical, legal and social issues (GENDEP)

Project team: Professor Nikolas Rose, Dr Ilina Singh, Dr Michael Barr
Funder: European Commission 6th Framework Programme
Amount: £351,306
Start date: March 2004
Duration: 3 years

BIOS collaborated with the Institute of Psychiatry to investigate genomic markers associated with efficacy of antidepressant medication. This is the first comprehensive Europe-wide study of the social and ethical issues raised by pharmacogenomics in the treatment of depression. The BIOS team's work focused on the social and ethical implications of the scientific developments. The BIOS team studied the process of research ethics committee approval in several European sites participating in the study, with a focus on informed consent. In addition, we held focus groups and interviews (working with SURE, at the IoP) on a range of public perspectives on pharmacogenomics of depression.

Web: www.lse.ac.uk/collections/BIOS/research/GENDEP.htm
Contact: bios@lse.ac.uk



The IVF-stem cell interface: a sociology of embryo transfer

(ESRC Senior Research Fellowship)

Project team: Professor Sarah Franklin
Funder: ESRC
Amount: £235,189
Start date: March 2007
Duration: 2 years

This project uses the occasion of the 30th anniversary of the first successful human birth from IVF to offer a social and political evaluation of the legacy of that technique and the 'reproductive revolution' with which it is associated. For her ESRC Fellowship under the ESRC Stem Cell Initiative, Sarah Franklin addresses both the future of IVF and its past, by exploring the kinds of 'embryo transfers' that have enabled not only IVF but also stem cell derivation, human embryo research and cloning.

Web: www.york.ac.uk/res/sci/fellowships/res350270006/franklin.htm
Contact: Sarah Franklin s.franklin@lse.ac.uk



Human Embryonic Stem Cell Coordinators' Network

Project team: Professor Peter Braude, Professor Sarah Franklin, Glenda Cornwell
Funder: Medical Research Centre
Amount: £35,000
Start date: October 2004
Duration: 3 years

The Human Embryonic Stem Cell Coordinators' project has established a unique nationwide network of clinicians, scientists, nurses, policy makers and social scientists to improve practices related to human embryonic stem cell derivation and its translation into clinical practice. Providing a forum for the exchange of information and the improvement of professional practice related to derivation, including patient information, the network has increased national coordination of best practice in this sector since 2004. Social scientists from BIOS at LSE and from CBAS at King's (Professor Clare Williams) have worked closely on the HESCCO initiative with clinicians and health professionals to improve practices related to embryo donation to stem cell research.

Web: www.ukstemcell.net

Contact: Sarah Franklin s.franklin@lse.ac.uk

Behavioural neuroscience and neuroculture: a scientific, sociological and cultural perspective

Project team: Dr Giovanni Frazzetto
Funder: Society in Science – The Branco Weiss Fellowship
Amount: CHF 600,000
Start date: October 2004
Duration: 5 years

This project is aimed at researchers from the life sciences who want to challenge disciplinary boundaries and extend their scientific and personal perspectives by incorporating social and cultural aspects into their work. Giovanni's research focuses on gene-environment interactions underlying behaviours such as anxiety and the impact that this branch of experimentation, as well as psychotropic drugs, have on notions of 'normality', 'equality' and 'authenticity'. Of particular interest are ways in which concepts from neuroscience are assimilated in the collective imaginary and popular culture in what he likes to call a neuroculture, or the predominant tendency to attribute to our brain the repository of our essence and subjectivity.

Web: www.society-in-science.ethz.ch;
www.neuroculture.org

Contact: Giovanni Frazzetto G.Frazzetto@lse.ac.uk

SCOPE

SCOPE: scientists on public engagement: from communication to deliberation

Project team: Professor Sarah Franklin, Dr Kevin Burchell, Kerry Holden
Funder: Wellcome Trust
Amount: £226,276
Start date: September 2006
Duration: 3 years

The SCOPE project responds to the increased advocacy of 'deliberative' approaches to public engagement in the context of science policy-making. A form of public engagement with science, 'dialogue events' involve structured discussions between experts, policy-makers, the public and other stakeholders – frequently conducted as contributions to policy-making. Public deliberation is seen to offer an alternative to more conventional expert-oriented approaches to science policy-making, and the top-down communication models that have traditionally characterised related public outreach and consultation. Through interviews with life scientists, SCOPE examines the value of deliberation from the perspective of biomedical scientists who participate in this new mode of public consultation.

Web: www.lse.ac.uk/collections/BIOS/scope/scope.htm

Contact: Kevin Burchell k.burchell@lse.ac.uk

Translating Neurobiological Research

Project team: Professor Nikolas Rose, Professor Sarah Franklin, Dr Ilina Singh, Dr Jim Ottaway
Funder: Medical Research Council
Amount: £120,293
Start date: September 2007
Duration: 18 months

The Medical Research Council has funded this research project with the aim of clarifying the means by which medical research translates into biomedical practice (health) and contributes to economic competitiveness (wealth). We explore these questions through a case study of research at the Institute of Psychiatry, Kings College, University of London. This takes the form of a critical assessment of existing methods of assessing medical and scientific outputs to clarify appropriate evaluation criteria, and enable us to propose alternative models for determining 'value' in the context of MRC knowledge production both within and beyond 'health and wealth indicators'.

Web: www.lse.ac.uk/collections/BIOS

Contact: Jim Ottaway j.ottaway@lse.ac.uk

VOICES

voices on identity, childhood, ethics
and stimulants: **children join the debate**

VOICES: voices on identity, childhood, ethics and stimulants: children join the debate

(Wellcome Trust University Lectureship in Bioethics
and Society)

Project team: Dr Ilina Singh, Sinead Keenan
Funder: Wellcome Trust
Amount: £276,976
Start date: October 2006
Duration: 5 years

VOICES investigates the implications of stimulant drug medication for ADHD children's moral self-understandings (personal responsibility, agency, authenticity, and self-concept). A primary aim of the study is to understand whether children's perspectives and experiences support claims about the potential harms of stimulant medication. Up to 100 children ages 9-14 will be interviewed in two national contexts: the US and the UK. Three groups of children will be interviewed: children who are taking stimulants for a diagnosis of ADHD; children who have a diagnosis of ADHD but are unmedicated; and children without a diagnosis of mental disorder.

Web: www.addingvoices.com

Contact: Ilina Singh i.a.singh@lse.ac.uk

Mammalian embryology in the UK since 1945

Project team: Professor Martin Johnson, Professor Sarah Franklin, Dr Nick Hopwood
Funder: Wellcome Trust
Amount: £25,000
Start date: May 2008
Duration: 8 months

Martin Johnson (PI) and Nick Hopwood at Cambridge and Sarah Franklin from BIOS have begun a pilot project investigating the postwar study of mammalian development and embryology in the UK and its translation into human applications. Based on interviews with key players both in scientific research, and later in Parliamentary debate of human fertilisation and embryology, the project charts the changing social and cultural values, and personal and professional networks, that have shaped understandings of mammalian development. This project will yield a unique archive of publicly available materials related to the technological control of both human and animal reproduction.

Contact: Sarah Franklin s.franklin@lse.ac.uk



Future mix: imagining the next generation through art and science

Project team: Dr Caterina Albano, Professor Sarah Franklin, Dr Chris Mason, Carl Stevenson
Funder: Wellcome Trust
Amount: £30,000
Start date: September 2007
Duration: 12 months

Future Mix is an art and science project led by Dr Caterina Albano of ArtAkt, focuses on transgenic research and advanced biotechnology. The project offers a fresh approach to the potentials, challenges, and questions of this cutting edge research, explored through art. Based at South Camden Community School, artist Carl Stevenson, scientist Chris Mason and sociologist Sarah Franklin collaborated with year 10 pupils to explore the themes of Future Mix through scientific presentations and artistic experiments. The project culminated in a web-artwork created by the pupils who collaborated on the project, and a series of events, including lectures and an exhibition

Web: www.futuremix.co.uk

Contact: Sarah Franklin s.franklin@lse.ac.uk



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National data collection processes for CBM submissions

Project team: Dr Filippa Lentzos, Angela Woodward
Funder: Swiss Federal Department of Defence, Civil Protection and Sport (Directorate for Security Policy)
Amount: £10,650
Start date: July 2007
Duration: 6 months

The Confidence Building Measures (CBM) information exchange process is an important transparency mechanism for the Biological Weapons Convention and provides States Parties with useful information concerning compliance with the Convention. This study provided quantitative and qualitative data on national processes for the annual collection of this data in ten States Parties, in order to draw out the experience and perspectives of those tasked with preparing the CBM return and to provide concrete examples of problems and solutions, of models, and of lessons learned in the submission process.

Web: www.lse.ac.uk/collections/BIOS/biosecurity/projects/CBM_submissions.htm
Contact: Filippa Lentzos f.lentzos@lse.ac.uk



Preparing the ground for the CBM content debate: what information builds confidence?

Project team: Dr Filippa Lentzos
Funder: Swiss Federal Department of Foreign Affairs (Political Affairs Secretariat)
Amount: £19,100
Start date: April 2008
Duration: 9 months

Building on the 2007 CBM study, this project considers the information requested on the CBM forms and the information submitted by States Parties in practice. Centred primarily on information related to national research facilities and biodefence programmes, it draws on focus groups with national experts of different backgrounds (defence scientists, academic scientists, security specialists) to explore what experts can conclude from the information typically provided, which aspects of the information are relevant and to whom, whether the information engenders a false sense of security, and what additional information would help build more confidence.

Web: www.lse.ac.uk/collections/BIOS/biosecurity/projects/building_confidence.htm
Contact: Filippa Lentzos f.lentzos@lse.ac.uk

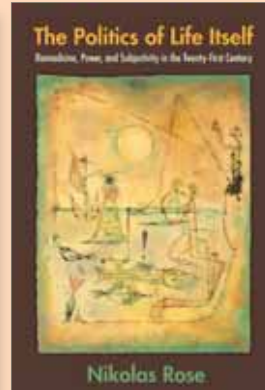
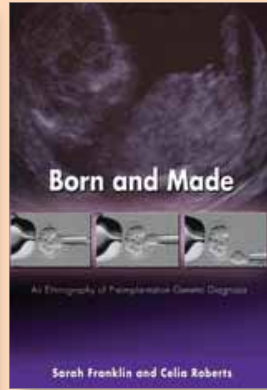
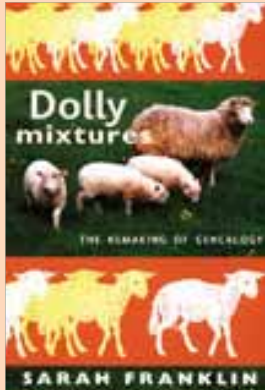
Managing risks of misuse: biomedical research, national security concerns and scientific autonomy in post-9/11 policies

Project team: Professor Nikolas Rose, Dr Filippa Lentzos
Funder: Wellcome Trust
Amount: £25,836
Start date: May 2007
Duration: 1 year

The misuse of biomedical research has become a prominent policy concern in many countries following the 9/11 attacks and the ensuing anthrax letters in the US and alarms about biotreats in the UK and elsewhere. This preliminary study considers the different policy approaches adopted to deal with the risks of misuse. It focuses on value judgements embedded within the different policy approaches, and in particular judgements about scientific autonomy and national security. To explore these, the study investigates how the risks of misuse and appropriate responses to those risks have been constructed by different actors in the policy debates in Britain and the United States.

Web: www.lse.ac.uk/collections/BIOS/biosecurity/projects/managing_risk.htm
Contact: Filippa Lentzos f.lentzos@lse.ac.uk

Research publications



Books by BIOS members



BIOS newsletters

To sign up for e-copies of BIOS News email
bios@lse.ac.uk

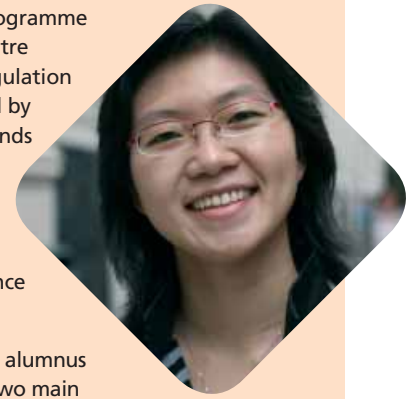
Taught postgraduate degree (MSc)

The **BIOS MSc in Biomedicine, Bioscience and Society** was among the first of its kind to be established in 2004. It is an interdisciplinary programme of training that aims to introduce those without a social science background to the area, as well as providing the basis for developing specialist knowledge for those who are already social scientists but have not done extensive work on the social studies of the biosciences. The MSc programme extends the graduate curriculum of LSE into new and important areas for the social sciences, from reproductive medicine, to intellectual property in genes, cloning, and bioweapons, whilst keeping the focus firmly on the relations between bioscience, biotechnology and society. The programme focuses on these and other issues in a medium and long term perspective, and in a global context.

The intake on this MSc has risen to a stable state of around 20 students a year, predominantly from overseas, with many students coming from established careers in the health and life sciences and related policy areas. An extensive web based learning environment has been constructed to enhance the MSc, including online feeds from science news sources, online media, discussion pages, the entire syllabus interfaced to the library and electronic gateways, all course lectures, extensive hotlinks to background scientific reading for every topic, and a course newsletter. Two core courses introduce students to key issues in theory and method in the social study of the life sciences.

Profile: Yueyue (Joy) Zhang

This pioneering MSc programme offered by the BIOS centre concentrates on the regulation and ethical issues raised by bio-techniques. It responds to the developmental paradoxes associated with bioscience that perplexed me during my medical science training in Beijing.



Before I came to LSE, an alumnus told me that there are two main characteristics of LSE: one is the emphasis on depth and rigour of thought; the other is the conversational academic atmosphere. After a year studying here, I have found both to be very true. What I cherish most are the 'LSE events', which are optional seminars and lectures held by the School or the department in the evening. A wide range of experts are invited to campus, such as prominent academics, religious leaders, artists, journalists, and business people. Such events offer every student the luxury of communicating with the world's leading figures within the distance of a handshake.

The academic platform LSE offers is both exciting and challenging. I particularly benefited both from the analytical approach to solving social problems associated with bioscience and from the comprehensive theoretical knowledge I have gained, especially from the courses and departmental seminars. After this spectacular academic year, I am looking forward to another exciting three years in BIOS as a PhD student!



Research degrees (MPhil, DPhil)

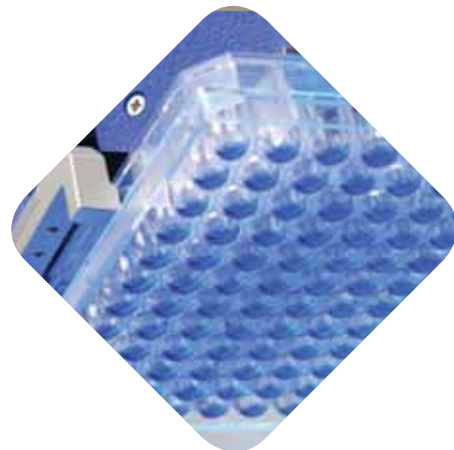
In addition to its taught postgraduate programme, BIOS welcomes applications from those who wish to study for research degrees (MPhil, DPhil) in any of our priority areas. Research on social aspects of the life sciences is a rapidly developing area, as all industrialised countries seek to promote bioscientific and biomedical innovation and the cultural, legal, ethical and political aspects of the 'biosociety' are debated by national governments, lobby groups, the private sector and the general public. The social study of bioscience, biomedicine and society – in short biosocial studies – are increasingly important for those who are either already working, or interested to pursue a career in areas such as technology management and innovation, policy making and regulation, health research, environmental regulation, bioeconomics, the pharmaceutical sector, and bioethics. Research in this area is highly interdisciplinary – drawing on the theories and methods of a range of social science disciplines as well as the life sciences as they apply to these developments. Researchers in this field must also be innovative – developing the new conceptual tools and methodologies appropriate to understanding these novel issues.

Our research student community functions at a very high level and offers a unique and supportive environment for the pursuit of a research degree. BIOS research students produce a regular newsletter, available on our website, run reading groups, regularly win grants to host research workshops (for example on 'Evidence Based Medicine in Psychiatry' and on 'The Challenges of Interdisciplinarity') and, most impressively, regularly publish their work, even in their second year of study, in peer reviewed journals (see the publications list in the Appendices). This demanding and vibrant culture is made possible by the co-location of all our researchers in a single open planned space, in which each has their own carrel and computer, and by a convention that all our researchers spend a good part of their week working in the Centre.

We place great emphasis on career development of our research students, and encourage them to give seminar and conference presentations at home and abroad, to apply for grants for specific activities, to organise workshops and conferences, and of course to publish. We also seek to help them develop career paths, and, as noted earlier, have been very successful in obtaining postdoctoral fellowships and other research positions for our graduates.

Profile: Dr Linsey McGoey

I recently completed my PhD thesis at BIOS, under the supervision of Nikolas Rose, and it was one of the most rewarding, challenging and stimulating experiences of my life. BIOS is a place like no other – filled with collegial and constructive colleagues who are always willing to take time to discuss practical concerns and theoretical ideas, and to support each other during occasional moments of doubt about one's progress. As a Canadian student living in London, my BIOS colleagues became family to me. Following completion of my thesis, I have taken up a postdoctoral fellowship at Oxford. Despite the distance, I remain in regular contact with BIOS members, and constant in my mind is the hope that, as I carry on in my academic career, I may have the chance to spend more time at BIOS as a researcher. It is a wonderful place to study and work, and an extremely hard place to leave!



Events

Public lectures

- On 15 June 2006, Professor Sheila Jasanoff, Pforzheimer Professor of Science and Technology Studies at Harvard University's John F Kennedy School of Government, gave the inaugural BIOS Annual Lecture under the title 'Experiments Without Borders: biology in the labs of life'.
- On 16 May 2007, Professor Eric R Kandel gave a public lecture on the theme 'In Search of Memory – The Emergence of the New Science of the Mind'. Eric R Kandel is Kavli Professor and University Professor at Columbia University and senior investigator at the Howard Hughes Medical Institute and was awarded the Nobel Prize in Physiology in 2000 for discoveries concerning signal transduction in the nervous system.
- On 11 June 2007, Professor Helga Nowotny, vice-president of the European Research Council, gave the second BIOS Annual Lecture on 'How Concepts Behave: the potential of the life sciences and their impact on society'. Professor Nowotny, one of the most senior sociologists in Europe overseeing science policy, addressed the question of future directions in EU science policy from the point of view of how its 'potential' is to be defined both sociologically and in technical terms.

'The BIOS Centre is doing something extremely valuable in London. I can't think of another institution able to muster this sort of high-octane discussion **around**, rather than on contemporary science issues.'

Event attendee

Public debates

- On 24 October 2007, BIOS hosted a panel discussion on 'Beyond the Genome: the challenge of synthetic biology' in association with the Royal Society of Arts, London, and Penguin Books. The main speaker was Dr Craig Venter, director of the J Craig Venter Institute, well known for his role in sequencing the human genome. Venter was joined in discussion by Dr Chris Mason, tissue scientist, UCL, on the translational challenges; Professor Peter Lipton, philosopher, University of Cambridge, on the ethical challenges and by Professor Sarah Franklin from BIOS. The panel was chaired by Professor George Gaskell (LSE BIOS and Methodology Institute).

'I would like to see closer links in the future between researchers at UCL working in the cutting edge fields (eg, synthetic biology, stem cells and nanotechnology) with the world-class team at LSE. I think that this would greatly benefit my fellow scientists and clinicians.'

Chris Mason MBBS, PhD, FRCS
Advanced Centre for Biochemical Engineering
University College London

- On 23 October 2007 BIOS collaborated with The European Dana Alliance for the Brain to present a lecture entitled: 'Spare Parts: one day you might need them' with speakers Ruth Warwick, British Association for Tissue Banking and Richard Reynolds, UK MS Tissue Bank.
- On 3 October 2006 Dr Stephen Minger and Dr Debora Spar gave a lecture on 'Reproduction: an issue of human rights'. This lecture was held in conjunction with the Centre for the Study of Human Rights.



Conferences and workshops

Conferences

Vital Politics II: health, medicine and bioeconomics into the 21st century

7-9 September 2006, LSE

Funder: LSE, Wellcome Trust, Dana Foundation
Organisers: BIOS

This international conference, the second in our flagship Vital Politics series held every three years, focused on present forms of practice in the life sciences from a comparative and global perspective. Presentations explored the character and genealogy of contemporary transformations in health, illness, vitality, and pathology, with a particular focus on: social science of regenerative medical technologies; neuroscience and society; bioeconomics and biocapital. Keynote speakers included Charis Thompson (University of California, Berkeley); Peter Braude (King's College London); Elizabeth Wilson (University of New South Wales, Sydney); Paul Fletcher (University of Cambridge); and Jack Price (King's College London). The conference also hosted a special Meeting of Minds panel with Steven Rose (The Open University), Sue Burne (Meeting of Minds), Gerrit Rauws (King Baudouin Foundation), Robert Smith (Meeting of Minds), and Tom Ziessen (Dana Centre).

Neurosocieties: the rise and impact of the new brain sciences

12-13 November 2007, London

Funder: European Science Foundation
Organiser: ENSN

BIOS hosted this international conference to mark the inauguration of the European Neuroscience and Society Network (see page 6). The November meeting was the first in a series of international workshops and conferences bringing together leading neuroscientists, philosophers and social scientists for sustained discussions and cross-disciplinary dialogue on the following themes: neuroscience and society: framing the agenda in Europe; public health and the politics of the neurosciences; neuroeconomics: markets, choice and the distribution of neurotechnologies; sources of the neurochemical self: consciousness, personhood and difference. The meeting attracted some 100 delegates, and speakers from sociology, philosophy, history and neuroscience, from across Europe and North America.



Workshops

Making Biosociality

20 February 2006, LSE

Funder: Wellcome Trust
Organisers: Carlos Novas (BIOS) and Sahra Gibbon (UCL)

This international research workshop brought together scholars interested in theoretically and empirically charting the particular social forms through which ethics are negotiated and the ways in which they are embedded in a range of social practices that have come about or are emerging as a result of innovations in genomic knowledge and technology.

Searching for Gold Standards: the construction and governance of RCTs and EBM in psychiatry

8-9 June 2006, LSE

Funders: Nuffield Foundation and the Foundation for the Sociology of Health and Illness
Organisers: Nikolas Rose, Derek Bolton, Linsey McGoey and Ayo Wahlberg

In June 2006 an inter-disciplinary group of around 50 researchers gathered at LSE for a two-day symposium on evidence-based medicine (EBM) and the randomised controlled trial (RCT). Organised by the Institute of Psychiatry, King's College London and the BIOS Centre, LSE, the aim of the symposium was to bring together social scientists, clinicians and researchers to debate some of the most pressing issues surrounding EBM and RCTs in psychiatry.

The Challenges of Interdisciplinarity – Tools for Studying the Life Sciences

5-6 September 2006, LSE

Funder: Wellcome Trust
Organiser: Megan Clinch

This postgraduate student event focused on one of the key words for the social study of the life sciences: interdisciplinarity. The organisers asked: "As researchers in the field, we need to become literate in writings and languages of disciplines that are not our own. Conversely, we seek to communicate through disciplinary conventions that are often illegible to our collaborators from other disciplines. How these new kinds of relationships emerge and become 'inter-literate' is a process that mirrors a wider set of engagements – between patients and genetic counsellors, scientists and the 'general public', expert and 'lay' communities, activists and policymakers, and a myriad of other sites of interaction. How do we forge these interdisciplinary relationships? What can we expect to learn from them? How is the concept of interdisciplinarity misused? What is 'best interdisciplinary practice'?" The object of this workshop was twofold. Firstly, to provide a space for postgraduate students to discuss and

Events

exchange ideas about their nascent research, conceptual frameworks and methodological strategies in a collegial and productive environment and secondly, to embark on a series of workshops where the definition issues and implementation of interdisciplinarity could be explored.

Workshop on Biological Weapons, Governance and Civil Society

12 March 2007, LSE

Organiser: Dr Filippa Lentzos

This workshop considered public and civic engagement with biological disarmament as well as the governance of R&D involving biological agents, genetically modified micro-organisms and pathogens, in today's environment – an environment characterised by the limited success of multilateral treaty-making, a heightened policy focus on biological weapons especially on proliferation and terrorism, and the involvement of new civil society actors. The workshop brought together a younger generation of academics and NGOs, who have served on national delegations and UN secretariats or as advisors to other international organisations, to consider what civil society can do practically and collectively in the coming months and years to build on and further the efforts that have already been made.

Research Workshop on Tissue Engineering in Europe: products, processes and public participation

21 March 2007, LSE

Funder: STEPS (Systems Approach to Tissue Engineering Products and Processes)

Organiser: Professor Sarah Franklin

This event was co-sponsored by BIOS and STEPS, Europe's leading Tissue Engineering consortium. The workshop was part of a mutual effort by BIOS and STEPS (Systems Approach to Tissue Engineering Products and Processes) to forge stronger interdisciplinary links between bioscience and social sciences and to give a unique opportunity to those interested to participate in a dialogue about one of the most significant areas of emerging bioscience with some of Europe's leading experts in the field.

Research seminars

ESRC Seminar Series on Neuroscience, Identity and Society

In 2006 and 2007, BIOS (together with colleagues at the University of Nottingham) co-hosted the Neuroscience, Identity and Society seminar series funded by the ESRC – a series of five national multidisciplinary events on the challenges that are posed by contemporary neuroscience to the social sciences, through its reconstruction of ideas of human agency, human affects and desires, normality and abnormality, the basis of social interaction and the foundations of society. The Neuroscience, Identity and Society seminar series mapped out this challenge, sought areas of potential common ground, and stimulated critical engagement. The series aimed to analyse the development of contemporary neuroscience from a range of different disciplinary perspectives; assess the implications of new scientific knowledge about the working of the brain/mind for individuals, society and public policy, and explore the challenges this poses to the social sciences; investigate the possible contribution of the social sciences to key debates within the neurosciences; map the state of the field in social studies of neuroscience; and develop agendas for further research.



BIOS seminars

2005-06

- *Depression Paradigms: historical ontology of mood disorders*
Dr Ilpo Helen, Department of Sociology, University of Helsinki
- *Choreographies of Knowledge: Public science events as policy instruments towards a techno-scientific society*
Dr Priska Gisler, Swiss Federal Institute of Technology Zurich/BIOS Centre, LSE
- *Eclipse of the Gene and the Return of Divination: dealing with risk estimates for late onset complex disease*
Professor Margaret Lock, Department of Anthropology, McGill University
- *Contentious Liminalities: embryonic stem cell research in India and the UK*
Dr Aditya Bharadwaj, School of Social and Political Studies, University of Edinburgh
- *Resolving Bioethical Controversies: clues from the institutional nature of the patent system*
Ms Shiva Thambisetty, Law Department, LSE
- *We Need Nothing Less Than a New Philosophy of Medical Knowledge*
Professor Uffe Juul Jensen, Department of Philosophy and History of Ideas, Aarhus University, director of research centre: Health, Humanity and Culture
- *What Is a Surplus Embryo?*
Professor Lene Koch, Institute of Public Health, University of Copenhagen
- *Reflecting on the 'Euro' in 'Euro-American' Kinship*
Dr Jeanette Edwards, Department of Social Anthropology, Manchester University
- *Technology, Morality and Crime Control: genetic identification and criminal suspicion*
Dr Robin Williams, School of Applied Social Sciences, University of Durham
- *Putting Biotechnology in its Place: the experimental geography of Cuban bioscience 1981-2002*
Dr Simon Reid-Henry, Department of Geography, Queen Mary, University of London

2006-07

- *Bio Science: genetic genealogy testing and the pursuit of African ancestry*
Dr Alondra Nelson, Departments of African American Studies and Sociology, Yale University
- *Imaging Brains – Interacting Minds: from brain research to biopower*
Andreas Røepstorff, Centre for Functionally Integrative Neuroscience and Department of Social Anthropology, University of Aarhus

- *Stories, Nuances and dilemmas: creative responses to disability and bioethics*
Dr Tom Shakespeare, University of Newcastle
- *Negotiating Ethics and Ethnography*
Professor Michael Parker, ETHOX Centre, Oxford University
- *Biotechnology in the Public Spot Light: reflections on ten years of research*
Professor George Gaskell and Dr Martin Bauer, Institute of Social Psychology, LSE
- *Representation and Invention: models, texts and clones in the history of patent law*
Mr Alain Pottage, Department of Law, LSE

2007-08

- *Biology Under Control: magic bullets as agents of medical and social transformation*
Dr Scott Vrecko, BIOS Centre, LSE
- *Rejecting the Sanctity Principle and Rethinking the Wrongness of Killing*
Professor Emily Jackson, Law Department, LSE
- *'A Certain Amount of Engineering Involved': scientific governance, the participatory turn and the new genetics*
Dr Kathrin Braun, Sociology Department/BIOS Centre, LSE
- *Understanding Public Dialogue on Science and Technology*
Dr Kevin Burchell, BIOS Centre, LSE
- *Risky Bioscience?: national security versus scientific autonomy in Anglo-American policies on the life sciences*
Dr Filippa Lentzos, BIOS Centre, LSE



Who we are now

Core faculty and associates

Dr Kathrin Braun

Temporary lecturer for MSc in Biomedicine, Bioscience and Society

Professor Sarah Franklin

Associate director of BIOS, Professor in Sociology
Convenor for the MSc in Biomedicine, Bioscience and Society

Professor Emily Jackson

Professor in Law

Professor Nikolas Ros

Director of BIOS
Professor of Sociology
Co-editor of *BioSocieties*

Dr Ilina Singh

Associate director of BIOS
Wellcome Trust University Lecturer in Bioethics and Society



Centre management

Victoria Dyas

Administrative assistant

Sabrina Fernandez

Centre manager



Research staff

Dr Jöelle Abi Rached

Research officer
Project: Brain, self and society: the socio-political implications of the new brain sciences
Funder: Economic and Social Research Council (ESRC)
October 2007 – March 2010

Dr Michael Barr

Research fellow
Project: GENDEP – genome based therapeutic drugs for depression
Funder: European Commission Sixth Framework Programme
December 2004 – December 2006

Dr Kevin Burchell

Research fellow
Project: ScoPE: scientists on public engagement: from communication to deliberation
Funder: Wellcome Trust
September 2006 – October 2009

Dr Giovanni Frazzetto

Postdoctoral fellow
Project: Behavioural neuroscience and its sociological and cultural implications
Funder: 'Society in Science' The Branco Weiss Fellowship

Kerry Holden

Part-time research assistant
Project: ScoPE: scientists on public engagement: from communication to deliberation
Funder: Wellcome Trust
January 2007 – July 2009

Sinead Keenan

Part-time research assistant
Project: VOICES
Funder: Wellcome Trust
February 2007 – February 2009

Dr Filippa Lentzos

Senior research fellow
Project: Managing risks of misuse: biomedical research, national security concerns and scientific autonomy in post-9/11 policies
Funder: Wellcome Trust
Project: National data collection processes for CBM submissions under the BWC
Funder: Swiss Federal Department of Defence, Civil Protection and Sport (DDPS)
Managing editor, *BioSocieties* – an interdisciplinary journal for social studies of life sciences
October 2003 – October 2008

Dr Carlos Novas

Research fellow
Project: The political economy of hope: private enterprise, patient's groups and the production of values in the contemporary life sciences
Funder: Wellcome Trust
October 2004 – October 2007

Dr Jim Ottaway

Research officer
Project: Translating neurobiological research
Funder: Medical Research Council
September 2007 – March 2009

Dr Scott Vrecko

Research fellow
Project: Ethics in the making: a study of the development of psychopharmacological enhancement technologies in relation to social, scientific, and corporate conduct
Funder: Wellcome Trust
December 2006 – November 2009

Dr Ayo Wahlberg

Research fellow
Project: BIONET – ethical governance of biological and biomedical research: Chinese-European co-operation
Funder: European Commission Sixth Framework Programme
January 2007 – September 2009

Who we are now

Research students

Btihaj Ajana

Biopolitics and bioethics of biometrics: ID cards and the will to low risk bodies

Funding: LSE Research Fund

Supervisor: Professor Nikolas Rose

Start: October 2005

Completion: October 2008

Valentina Amorese

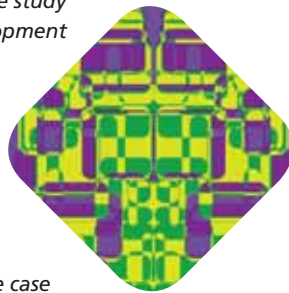
The relationships between public opinion and science, comparative study of public opinion and the development of agricultural biotechnology, in Italy and UK

Funding: LSE Research Fund

Supervisor: Dr Martin Bauer

Start: October 2006

Completion: October 2009



Rachel Bell

Brain, self and society in C21: the case of crime and control

Funding: ESRC

Supervisor: Professor Nikolas Rose

Start: October 2007

Completion: September 2010

Megan Clinch

An ethnography of ambiguity: the promise of genetics and the lived experience of chronic illness, with special focus on thyroid conditions

Funding: LSE Research Fund

Supervisor: Professor Sarah Franklin

Start: October 2004

Completion: October 2008

Amy Hinterberger

The genomics of difference: race, ethnicity and populations in biomedicine

Funding: ORS Award, Social Sciences and Humanities Research Council of Canada Doctoral Fellowship (SSHRC), LSE Research Studentship

Supervisor: Dr Suki Ali (Sociology) and Professor Nikolas Rose (BIOS/Sociology)

Start: October 2006

Completion: April 2009

Mathew Kabatoff

Identity, database, state: social and political implications of new database oriented identity technologies on citizenship and subjectivity

Funding: ORS Award

Supervisor: Professor Nikolas Rose

Start: October 2005

Completion: October 2008

Lamprini Kaftantzi

Selling stem cells: the economic, legal, ethical and social contexts of biotech commercialisation in EU universities (with special reference to stem cell research and regenerative medicine products)

Funding: ESRC

Supervisor: Professor Sarah Franklin

Start: October 2005

Completion: October 2008

Leo (D) Kim

Comparative study of stem cell discourse: UK & Korea

Supervisor: Dr Martin Bauer

Start: October 2007

Completion: October 2010

Kerstin Klein

Globalisation and the politics of the new human genetic technologies. A comparative analysis of stem cell research regulation in China and the EU

Funding: LSE Research Fund

Supervisor: Professor Sarah Franklin

Start: October 2004

Completion: October 2008

John Macartney

Complementary and Alternative Medicine (CAM) and cancer: CAM user's narratives on how they manage their health and identity in the contemporary healthcare context

Supervisor: Professor Nikolas Rose

Start: October 2004 (part-time)

Completion: October 2009

David Reubi

An archaeology of the future: imagining the biomolecular computer

Funding: ORS Award, Leon Studentship (University of London)

Supervisor: Professor Nikolas Rose

Start: October 2003

Completion: October 2008

Shahanah Schmid

Social and cultural changes in the context of new reproductive technologies in Switzerland: a comparative approach

Funding: LSE Research Fund, Swiss National Science Foundation

Supervisor: Professor Sarah Franklin

Start: October 2006

Completion: October 2009

Joy Zhang

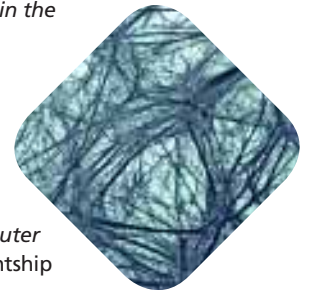
Investigating emerging ethical and regulatory issues in the context of Chinese stem cell science

Funding: Wellcome Trust

Supervisor: Professor Sarah Franklin

Start: September 2006

Completion: September 2009



Associated research students

Vicky Boydell

The social life of the pill: an ethnographic study of the oral contraceptive pill

Supervisor: Professor Sarah Franklin, Dr Fenella Cannell (Social Anthropology, LSE)

Start: October 2004

Completion: October 2007

Astrid Christoffersen-Deb

Coming into being: recognising personhood in the context of new reproductive technologies and stem cell research

Funding: Trudeau Foundation, Canada

Supervisor: Professor Sarah Franklin, Professor Wendy James (Social Anthropology, Oxford)

Start: October 2004

Completion: October 2009

Katherine Dow

Motherhood, nature and money: thinking about surrogacy in Scotland

Funding: ESRC

Supervisor: Professor Sarah Franklin, Dr Fenella Cannell (Social Anthropology, LSE)

Start: October 2004

Completion: June 2008

Anna Smajdor

Regulation of conception with artificial gametes: ethical and socio-cultural perspectives

Funder: The Wellcome Trust

Supervisor: Professor Sarah Franklin, Dr Piers Benn (Imperial College, London)

Start: October 2004

Completion: October 2007

Completed and awarded PhD

Christopher Hamilton

Knowledge, ownership and life: the relationship between 'biopiracy' and intellectual property

Funding: ORS Award, Universities UK

Supervisor: Professor Nikolas Rose

Start: October 2003

Completion: November 2007

Linsey McGoey

SSRIs and the consequences of uncertainty: the fabrication of choice and (in)equality in evidence-based medicine

Funding: LSE Research Fund/ Social Science and Humanities Research Council (Canada)

Supervisor: Professor Nikolas Rose

Start: October 2004

Completion: December 2007

Scott Vrecko

The neurologics of desire: addiction and dependence in the biomolecular age

Funding: Social Sciences and Humanities Research Council of Canada

Supervisor: Professor Nikolas Rose

Start: October 2002

Completion: December 2005

Ayo Wahlberg

Modernisation and its side effects – an inquiry into the revival and renaissance of herbal medicine in Vietnam and the United Kingdom

Funding: Danish Research Agency, Academic Trust Funds

Committee – University of London

Supervisor: Professor Nikolas Rose

Start: October 2003

Completion: September 2006

BIOS visitors

Visiting faculty (2006-07)

Dr Priska Gisler

Visiting senior fellow

Wissenschaftsforschung/Collegium Helveticum, ETH-Zurich

Duration: September 2005 – September 2006

Dr Janice Graham

Visiting senior fellow

Department of Bioethics, Dalhousie University

Duration: October – December 2006

Dr Isabel Karpin

Visiting senior fellow

Department of Law, University of Sydney

Duration: February – March 2006

Professor Lene Koch

Visiting professor

Institute of Public Health, University of Copenhagen

Duration: October 2005 – October 2008

Dr Alondra Nelson

Visiting senior fellow

Assistant Professor of Sociology and African American

Studies, Yale University

Duration: May 2007

Dr Andreas Roepstorff

Visiting senior fellow

Centre for Functionally Integrative Neuroscience and

Department of Social Anthropology, University of Aarhus

Duration: September 2006 – March 2007

Dr (des) Bettina Bock v. Wuelfingen

Visiting postdoctoral fellow

Department of Public Health, University of Bremen

Duration: July – September 2006

Topic: Disorganisation of fertility; models in reproductive genetics

Visiting students

Anelis Kaiser

Department of Neuroanatomy
University of Basle, Switzerland
Duration: September 2005 – September 2006
Title/topic: Brain and gender: an interdisciplinary approach

Uffe Lind

Institute of Public Health, University of Copenhagen
Duration: September – December 2007

Sara Tocchetti

University of Lausanne
Duration: May – July 2007

Dr Giovanni Frazzetto wins John Kendrew Young Scientist Award

Dr Giovanni Frazzetto, Branco Weiss Fellow in the BIOS Centre, and a key member of the Centre's Neuroscience and Society research group, is this year's joint winner of the John Kendrew Young Scientist Award.



Gio was selected for his inspirational and creative achievements, incorporating societal needs in his research as a Society in Science Branco Weiss Fellow at BIOS; establishing the European Neuroscience and Society Network (ENSN); and creating a science-art exhibition in neuroscience.

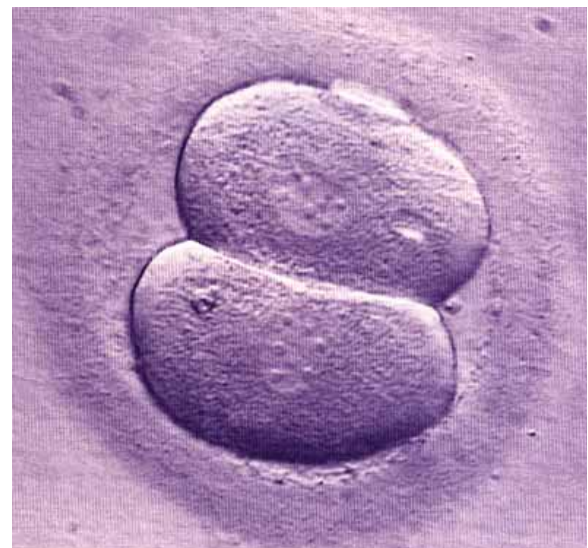
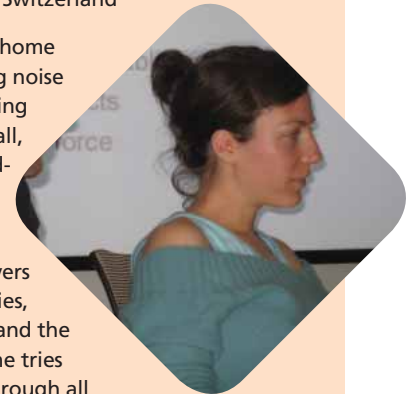
Both Gio and the joint winner, Antonio Giraldez, were former PhD students of the EMBL International PhD Programme and the Board recognised their remarkable performances since leaving EMBL as well as their complementary achievements in research and science communication.

Profile: Sara Tocchetti

University of Lausanne, Switzerland

First BIOS day. Walking home with an incessant typing noise in my head. A disorienting soundtrack, but above all, one question: what-and-why-are-all-these-people-typing?

Step by step, one discovers a list of fascinating stories, which dangerously expand the amount of questions one tries to store in the brain. Through all this typing activity, seated researchers try to capture, reorganise and investigate biological and medical contemporary objects and practices. Ironically, objects that are created in noisy and more chaotic places, with heavy machines and complicated instruments are questioned here as deeply as silently and contextualised through ordered words, long phrases (even too long sometimes) and spider's webs for paragraphs. Daily word and referential knowledges usage have a different depth that, in my experience, makes discussions a place of careful word usage. One shifts from considering disciplinary specialisation a concept to feeling it like an emotion. Despite its enticing simplicity, this description captures only part of the interdisciplinary effort that is carried out at BIOS. Through dynamic collaborations and international projects, different communities are gathered within an optimistic and intelligent culture of discussion, accompanied by a constant questioning. Not an easy task to define or to carry out!



BIOS associates

Richard Ashcroft, Medical Law, Queen Mary College, London

Michael Barr, Policy, Ethics and Life Sciences Research Centre (PEALS), University of Newcastle on Tyne

Martin Bauer, London School of Economics and Political Science

Stefan Beck, Institut für Europäische Ethnologie, Humboldt University

Michel Callon, Centre de Sociologie de l'Innovation, École des Mines de Paris

Veena Das, Krieger-Eisenhower Professor of Anthropology, Department of Anthropology, Johns Hopkins University, Baltimore, Maryland, USA

Lennard Davis, Director, Centre on Biocultures, University of Illinois-Chicago

Alain Ehrenberg, Director, CNRS – CESAMES (UMR 8136), Centre de Recherche Psychotropes, Santé Mentale, Société Université René Descartes Paris V

Carl Elliot, Director, Centre For Bioethics, University of Minnesota

Tim Forsyth, DESTIN, London School of Economics and Political Science

Herbert Gottweis, Professor of Political Science, Department of Political Science, University of Vienna

David Healy, Director, North Wales Department of Psychological Medicine

Athar Hussain, Asia Research Centre, London School of Economics and Political Science

Uffe Juul Jensen, Institut for Filosofi, Aarhus Universitet

Arthur Kleinman, Department of Anthropology, Harvard University

Martin Knapp, LSE Health and Social Care, London School of Economics and Political Science

Toby Kretschmer, Interdisciplinary Institute of Management, London School of Economics and Political Science

Donald Light, Professor of Social and Behavioral Sciences, Centre for Bioethics, Philadelphia.

Margaret Lock, Professor of Anthropology, Department of Social Studies of Medicine, McGill University

Emily Martin, Professor of Anthropology, Department of Anthropology, New York University

Alain Pottage, Department of Law, London School of Economics and Political Science

Lawrence Phillips, Operational Research, London School of Economics and Political Science

Alain Prochaintz, Director, Laboratoire de Développement et evolution du système nerveux (CNRS), École Normale Supérieure

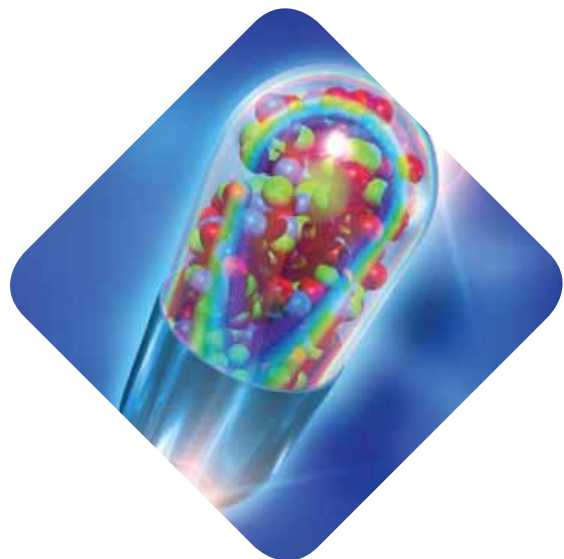
Paul Rabinow, Department of Anthropology, University of California (Berkeley)

Rayna Rapp, Professor of Anthropology, Department of Anthropology, New York University

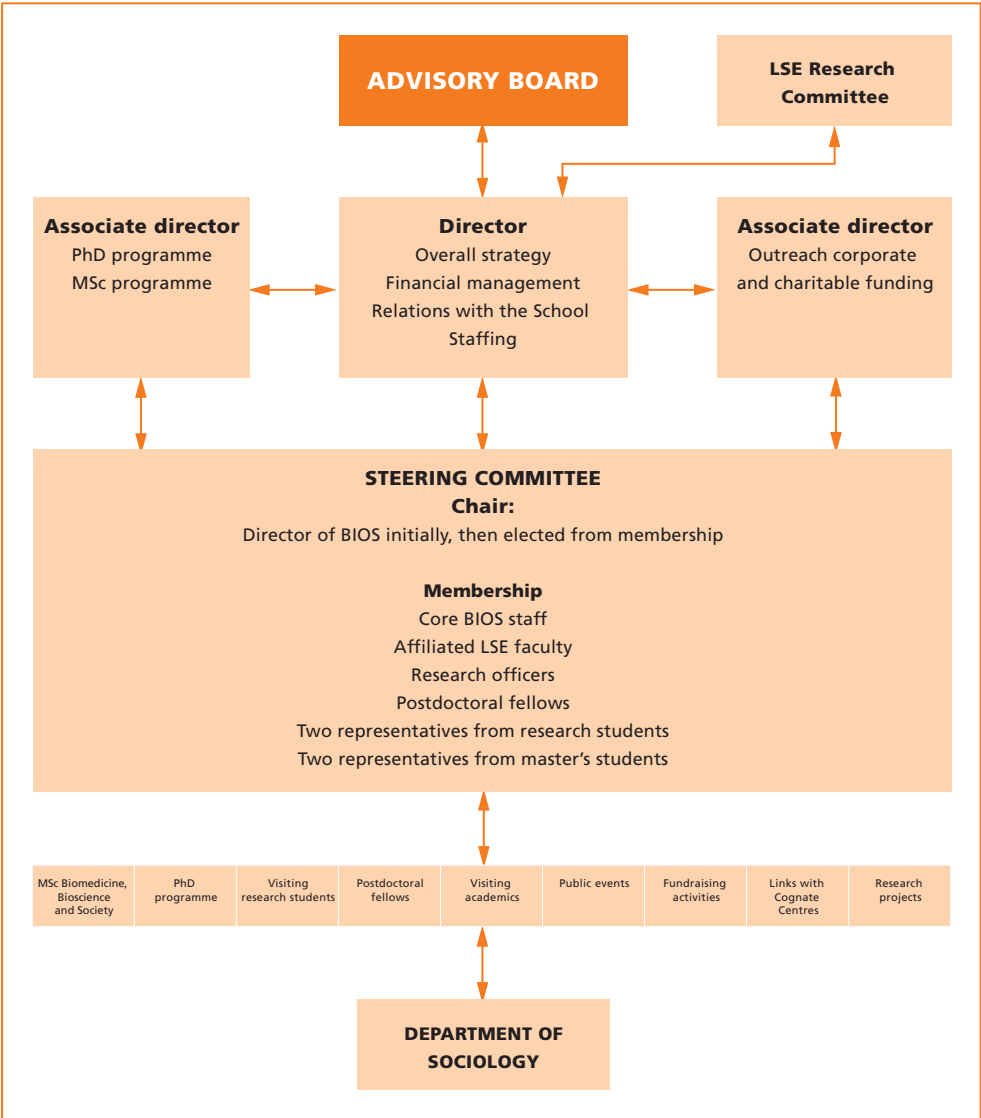
Hans-Jörg Rheinberger, Director, Max-Planck-Institut für Wissenschaftsgeschichte, Berlin

Pat Spallone, independent scholar

Shiva Thambisetty, Department of Law, London School of Economics and Political Science



BIOS governance and Advisory Board



Advisory Board members

Chair: Professor George Gaskell
Pro-Director Planning and Resources, LSE

Professor Nancy Cartwright
Director, Centre for Philosophy of Natural and Social Sciences

Sir Howard Davies
Director, LSE

Will Hutton
Chief Executive, The Work Foundation

Professor Martin Johnson
Department of Physiology, Development and Neuroscience, University of Cambridge

Dame Suzi Leather
Chair, Charity Commission

Professor Henrietta Moore
Anthropology, LSE

Professor Elias Mossialos
Co-director, LSE Health and Social Care

Dr Tom Shakespeare
Policy, Ethics And Life Sciences Research Institute (PEALS), Bioscience Centre, Newcastle

Dr Julian Sheather
Deputy Head of Medical Ethics, The British Medical Association

Dr George Szukler
Dean and Head of School, Institute of Psychiatry

Professor Anne West
Director, Centre for Educational Research, LSE

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- Ajana, B** (2007), 'Rethinking community through literature', *Journal for Cultural Research*, 11(2): 99-110.
- Ajana, B** (2006), 'Immigration interrupted', *Journal for Cultural Research*, 10, 3, 259-73.
- Braun, K** (2007), 'Biopolitics and Temporality in Arendt and Foucault', *Time & Society* 17(1).
- Braun, K** (2007), 'Women, embryos, and the good society. gendering the bioethics debate in Germany.' In: Hausman, Melissa and Birgit Sauer (ed), *Gendering the State in the Age of Globalization. Women's Movements and State Feminism in Post-Industrial Democracies*. Boulder & London: Rowman & Littlefield.
- Burchell, K** (2007), 'Boundary work, associative argumentation and switching in the advocacy of agricultural biotechnology', *Science as Culture*, 16(1): 49-70.
- Burchell, K** (2007), 'Empiricist selves and contingent "others": the performative function of the discourse of scientists working in conditions of controversy', *Public Understanding of Science*, 15(2): 145-62.
- Burchell, K** (2006), '[Review of the book] *Risk Management in Post-trust Societies*' – R Löfstedt, *Environment and Planning C*, 24, 5, 171-2.
- Carola V, **Frazzetto G**, Pascucci T, Audero E, Puglisi-Allegra S, Cabib S, Lesch Klaus-Peter and Gross C (2007) 'Identifying molecular substrates in a mouse model of the 5-HTT-by-environment risk factor for anxiety' in *Biological Psychiatry*, in press.
- Carola V, **Frazzetto G**, Gross C (2006) 'Identifying interactions between genes and early environment in the mouse' *Genes, Brain and Behaviour*, 5, 189-99.
- Clinch, M** (2007), '[Review of the book] *The Ontology of Sex: A critical inquiry into the deconstruction and reconstruction of categories*', *British Journal of Sociology* 58(2): 325-6.
- Clinch, M** (2006), '[Review of the book] *Case Analysis in Clinical Ethics*', *New Genetics and Society*, 25, 1.
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- Corneliusson, F** (2006), 'Precautionary principles: preventing the misuse of biological research is now a major policy concern, but the pharma and biotech industries have yet to grasp its severity', *European Pharmaceutical Executive*, May/June, 58.
- Corneliusson, F** (2006), 'Regulating biorisks: developing a coherent policy logic', *biosecurity and bioterrorism*, 4, 2, 160-7.
- Franklin, S** (2007), *Dolly Mixtures: the remaking of genealogy*, Durham, Duke University Press.
- Franklin, S** (2007), "'Crook pipettes": embryonic emigrations from agriculture to reproductive biomedicine', *Studies in History and Philosophy of Biological and Biomedical Sciences* 38(2): 358-73.
- Franklin, S** (2007), 'Visions of frontier knowledge: an interview with Helga Nowotny', *BioSocieties* 2(3): 375-80.
- Franklin, S** (2007), 'Dolly's body: gender, genetics, and the new genetic capital', in Kalof, L and Fitzgerald, A (eds), *The Animals Reader: the essential classic and contemporary writings*, Oxford, Berg.
- Franklin, S** (2006), 'Bio-economies: biowealth from the inside out', *Development*, 49, 4, 97-101.
- Franklin, S** (2006), 'The cyborg embryo: our path to transbiology', *Theory, Culture and Society*, 23, 7-8, 167-87.
- Franklin, S** (2006), 'Embryonic Economies: The Double Reproductive Value of Stem Cells', *BioSocieties*, 1, 1, 71-90.
- Franklin, S** (2006), 'The IVF-stem cell interface', *International Journal of Surgery*, 4,2, 86-90.
- Franklin, S** (2006), 'Mapping biocapital: new frontiers of bioprospecting', *cultural geographies*, 13,2, 301-4.
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- Franklin, S** (2006), 'Shulamith Firestone', Scott, J (ed), *50 Key Sociologists: the contemporary theorists*, London, Routledge.
- Franklin, S** and Kerr, A (2006), 'Genetic ambivalence: expertise, uncertainty and communication in the context of new genetic technologies', Webster, A (ed), *New Technologies in Health Care*, Houndmills, Palgrave.
- Franklin, S** and Roberts, C (2006), *Born and Made: an ethnography of preimplantation genetic diagnosis*, Princeton, Princeton University Press.
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- Frazzetto, G** (2008), 'Genetics of behaviour and psychiatric disorders: from the laboratory to society and back', *Current Science*, in press.
- Frazzetto, G** and Gross, C (2007) 'Beyond susceptibility', *EMBO reports*, Special Issue 'Genes, Brain, Mind and Behaviour', 8(51): 3-6.
- Frazzetto, G**, Di Lorenzo, G, Carola, V, Sokolowska, E, Proietti, L, Siracusano, A, Gross, C and Troisi, A (2007) 'Early trauma and increased risk for physical aggression during adulthood: the moderating role of MAOA', *PLoS One*, 2(5): e486. doi:10.1371/journal.pone.0000486.

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- Frazzetto G** (2007), 'Crossing boundaries', *Nature*, 446, 828.
- Frazzetto G** (2007), 'Verse and universe' *EMBO reports*, 8, 218.
- Gibbon, S and Novas, C (eds) (2007), *Genetics, Biosocialities and the Social Sciences: making biologies and identities*, London, Routledge.
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- Hamilton, C** (2006), 'Biodiversity, biopiracy and benefits: what allegations of biopiracy tell us about intellectual property', *Developing World Bioethics*, 6, 3, 158-73.
- Hamilton, C** (2006), 'Biopiracy as a challenge to intellectual property rights systems', *Development*, 49, 4, 94-100.
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BIOS financial summary

1 August 2006 to 31 December 2007

Funding received				
	No	Financial year 2006 Amount awarded £	No	Financial year 2007 (to Dec 07) Amount awarded £
Research Councils	2	£355,483	1	£511,117
Wellcome Trust	5	£766,887	-	-
European Commission	1	£476,857	-	-
Other sources	1	£95,685	-	-
	9	£1,694,912	1	£511,117
Non-Contract Research Funding				
LSE Funding: Research committee		£14,951		£108,623
LSE Funding: GAIN – administrative support		£38,386		£19,543
		£53,337		£128,166
Total Value of Funding Received		£1,748,249		£639,283

Expenditure statement		
	Financial year 2006 Amount £	Financial year 2007 (to Dec 07) Amount £
Income from:		
Research councils	£62,220.55	£82,872.57
Wellcome Trust	£202,655.13	£112,855.99
European Commission	75,937.02	£35,955.95
Other	£1,863.00	£6,896.44
	£342,675.70	£238,580.94
Non-contract research income		
Other: Vital politics conference	£6,149.00	
	£6,149.00	£0.00
Total income	£348,824.70	£238,580.94
Expenditure		
Staff costs	£284,831.48	£192,280.22
Non-staff costs	£81,292.50	£47,358.27
Total direct costs	£366,123.98	£239,638.49
Overheads	£31,543.72	£18,112.45
Overhead recovery rate as a % of staff costs	11.07%	9.42%
Overhead recovery rate as a % of total costs	38.80%	38.25%



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