

## Leverhulme Trust's Grants to institutions agreed in 1999

Grant holder	Purpose	Total allocation (£)	Duration (months)
<b>Research: Applied sciences [including architecture]</b>			
<i>University of Birmingham (Professor A Sloman)</i>	Evolvable virtual information processing architectures for human-like minds	104,340	36
<i>Loughborough University (Dr S N B Hodgson)</i>	New generation, ormoecer hybrid photovoltaic cells	59,120	24
<i>University of Nottingham (Dr P D Crittenden)</i>	Cape fur seals and the ecology of the Namib lichen fields	58,090	24
<i>University of Edinburgh (Dr S A West)</i>	The importance of learning in the agricultural pest <i>Helicoverpa armigera</i>	50,310	18
<i>University of Cambridge (Dr T M A Alboussiere)</i>	Transition between 2D turbulence and 3D turbulence under a steady magnetic field	81,591	36
<i>University of Leeds (Dr R Mortimer)</i>	Suboxic nitrification and microbial recycling processes in marine sediments	120,190	24
<i>University of Aberdeen (Professor J I Prosser)</i>			
<i>University of Newcastle upon Tyne (Professor N J P Owens)</i>			

<i>University of Salford</i> (Dr F M Danson)	Monitoring land-use change in relation to disease in Central China	14,190	6
<i>University of Liverpool</i> (Dr Y Huang)	A novel free-space time-domain technique for dielectric properties measurement	54,070	24
<i>University of East Anglia</i> (Dr S Dorling)	Neural network modelling for improved air quality prediction	58,947	24
<i>University of Oxford</i> (Dr C D Bain)	Vibrational spectroscopy of boundary lubricants & thin films under confinement	35,490	24
<i>University of Edinburgh</i> (Dr P A Furley)	Reconstruction of environmental change in the tropical wetlands of Belize	56,580	24
<i>Royal Holloway College, London</i> (Dr R Imrie)	Architects and disabling design in the built environment	41,480	15
<i>University College London</i> (Professor F T Smith)	Boundary-layer analysis of flow near the water-line of a surface piercing body	90,020	24

**Research: Basic sciences**

<i>University of Bristol</i> (Professor M J Benton)	Prosauropod dinosaurs from England & Brazil: origins of dinosaurian herbivory	92,270	
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<p><i>King's College, London</i>  (Professor S Sarkar)  University of Oxford  (Dr N E Mavromatos)  University of Wales, Swansea  (Dr S Hands)  University of Glasgow  (Dr I Barbour)</p>	<p>Non-abelian gauge interactions in  strongly correlated electron systems  49,050</p>	<p>24</p>
<p><i>University of Liverpool</i>  (Dr M J Fisher)</p>	<p>Modification of polypeptides by  sterol in the nematode  <i>Caenorhabditis elegans</i></p>	<p>69,050</p>
<p><i>British Museum (Natural History)</i>  Dr P Mordan</p>	<p>Evolution of pulmonate land  snails</p>	<p>54,310</p>
<p><i>University of Durham</i>  (Professor A D Martin)</p>	<p>The physics of new heavy unstable  particles at present and future colliders  114,480</p>	<p>18</p>
<p><i>University of Manchester</i>  (Dr F Papoff)</p>	<p>Micro-particles trapping and self-  assembly by using localized light states  97,470</p>	<p>36</p>
<p><i>MRC Cognition &amp; Brain  Sciences Unit, Cambridge</i>  (Dr R P Carlyon)</p>	<p>Segregating concurrent sounds in  acoustic and electric hearing  94,630</p>	<p>36</p>

*University of East Anglia*  
(*Dr M W Hounslow*)

High resolution analysis of cyclicity in  
Upper Triassic lake sediments  
61,310

26

*University of the West of England,*  
(*Dr S J Neil*)

Plasma membrane proteins that modulate  
abscisic acid responses in plants  
86,030

36

*University of Bristol*  
(*Dr J L Bamber*)  
*University of Southampton*  
(*Dr A J Payne*)

Greenland ice sheet dynamics: rapid  
response to climate change  
87,960 24

*University of Oxford*  
(*Dr Harry L Anderson*)

Synthesis of free-floating ultra-thin  
polymer nets  
87,900

36

*University of Hull*  
(*Dr J Brasington*)

Forces controlling gravel movement and  
fine sediment ingress in river beds  
68,160

24

*University of Durham*  
(*Dr K M Elborough*)

Down regulation of DNA repair to  
overcome species barriers in plant  
breeding  
96,106

36

*University of Birmingham*

*Dr J A Preece*

Novel liquid crystals based on boronate  
esters and anhydrides  
66,280 24

*University of Oxford*

*(Professor J M Brown)*

The properties of carbon chain molecules  
studied by infrared spectroscopy  
63,980 24

*British Museum (Natural History)*

*(Dr A P Vogler)*

A molecular phylogeny of Coleoptera  
119,020 48

*University of Leeds*

*(Dr A Nelson)*

Strategies for asymmetric synthesis:  
sequential and parallel kinetic resolutions  
55,220 24

*Imperial College of Science, Technology  
and Medicine, London*

*(Dr T Welton)*

Ionic liquids: non-volatile,  
environmentally friendly  
solvents for chemistry  
96,150 36

*University of Newcastle upon Tyne*

*(Dr P Farrimond)*

Sedimentary hopanoids: marker  
compounds for past environments  
86,270 36

<i>Queen Mary and Westfield College, London</i> (Dr C G Faulkes)	Inbreeding avoidance and the evolution of eusociality in the Damaraland mole-rat	94,610	36
<i>University of Leeds</i> (Dr J Krause)	Differential costs and benefits relating to spatial positions within fish shoals	44,770	24
<i>University of Glasgow</i> (Dr G D Buxton)			
<i>St George's Hospital Medical School, London</i> (Dr M K Richardson)	Patterns of evolutionary change in vertebrate embryonic development	88,000	36
<i>University College, London</i> (Dr M Coates)			
<i>University of the West of England,</i> (Dr H Macdonald)	Guard cells as a model system for investigating auxin signalling	13,270	6
<i>University of Wales, Cardiff</i> (Dr U Hahn)	Testing representational distortion - a new theory of similarity	10,480	6
<i>University of Warwick</i> (Professor N Chater)			
<i>University of Bristol</i> (Dr G W Neilson)	Hydrophobic hydration and the hydrophobic effect: methane/water mixtures	52,950	24

<i>Royal Institution of Great Britain</i> ( <i>Professor C R A Catlow</i> )	Solid state and computational chemistry 488,170	60
<i>Zoological Society of London</i> ( <i>Dr P Armbruster</i> )	The influence of environmental and genetic interactions on extinction dynamics 25,420	12
<i>University of Leicester</i> ( <i>Professor P H Williams</i> )	The role of norepinephrine in the pathogenesis of bacterial infections 84,190	24
<i>Imperial College of Science, Technology and Medicine, London</i> ( <i>Professor M R Palmer</i> )	Variations in iron isotope compositions in the natural environment 101,040	36
<i>University of Glasgow</i> ( <i>Dr D I Stott</i> )	The mechanism of somatic hypermutation in germinal centre B-cells 66,380	24
<i>University of Sussex</i> ( <i>Professor M F Lappert</i> )	New spectator ligands and their metal complexes as novel catalysts 62,640	24
<i>University of Manchester</i> ( <i>Dr T Mullin</i> )	An experimental study of the transition to turbulence in a circular pipe 96,420	36

<p><i>Scottish Crop Research Institute</i>            (Dr R Waugh)            MRC Laboratory of Molecular Biology,            Cambridge            (Dr P Dear)</p>	<p>High throughput, high resolution            physical mapping in plants</p> <p>209,570</p>	<p>36</p>
<p><i>Dyson Perrins Laboratory,            University of Oxford</i>            (Dr A Fairbanks)</p>	<p>The stereoselective synthesis of cis 1,2            glycosides by molecular tethering</p> <p>57,500</p>	<p>24</p>
<p><i>University of Nottingham</i>            (Dr J L Dunn)</p>	<p>Understanding vibronic coupling in            Fullerenes and related materials</p> <p>80,540</p>	<p>36</p>
<p><i>University of Southampton</i>            (Professor M T Weller)</p>	<p>Synthesis in liquid ammonia at high            temperatures and pressures</p> <p>55,540</p>	<p>24</p>
<p><i>Queen Mary and Westfield College, London</i>            (Dr K J Donovan)</p>	<p>One dimensional charge transport in self            organising discotic liquid crystals</p> <p>56,730</p>	<p>24</p>
<p><i>University of Bristol</i>            (Professor R S J Sparks)            Open University            (Professor C J Hawkesworth)</p>	<p>Magmatic history of the Soufriere Hills            volcano, Montserrat, W.I.</p> <p>68,890</p>	<p>24</p>
<p><i>University of Hull</i>            (Dr J E Nicholls)</p>	<p>Nanocrystal-polymer structures for            model microcavity lasers</p> <p>87,900</p>	<p>36</p>



<p><i>University of Oxford</i> (<i>Professor A Kacelnik</i>)</p>	<p>Ecological, cognitive and neural correlates of tool use in New Caledonian crows</p>	66,119	24
<p><i>University of Birmingham</i> (<i>Dr A P Mackenzie</i>) <i>University of Cambridge</i> (<i>Dr S R Julian</i>)</p>	<p>Oxides: the science and technology of strongly correlated electrons</p>	346,240	60
<p><i>University of Cambridge</i> (<i>Dr D B Norman</i>)</p>	<p>New Middle Jurassic dinosaur trackway and microvertebrate fossils at Ardley Quarry</p>	53,353	24
<p><i>University of Birmingham</i> (<i>Dr Q Guo</i>)</p>	<p>Properties of self-organised Metalloporphyrin films on solid surfaces</p>	66,723	24
<p><i>University of Southampton</i> (<i>Professor J M Dyke</i>)</p>	<p>Fundamental studies of molecular ions</p>	100,589	36
<p><i>University College, London</i> (<i>Dr C J Danpure</i>) <i>University of Wales, Cardiff</i> (<i>Dr M W Burford</i>) <i>Zoological Society of London</i> (<i>Mr A A Cunningham</i>)</p>	<p>Molecular adaptation of the alanine:glyoxylate amino transferase gene in mammals</p>	106,707	36
<p><i>University of Durham</i> (<i>Dr D Hyde</i>)</p>	<p>Acclimatisation in <i>Carcinus</i>: photoperiod and thermal interactions</p>	84,526	36

*University of Glasgow*  
*(Professor M Cowling)*

Elucidation of the role of surface  
topography in biofouling  
70,212 24

*Royal Holloway College, London*  
*(Dr R A Kemp)*

Argentinian loess-palaeosol records of  
past changes in climate  
107,902 30

*Imperial College of Science, Technology  
and Medicine, London*  
*(Dr R H A Coutts)*

Bacterial diversity of leaf epiphytes and  
pathogens: host and geographic factors  
59,237 24

*Heriot-Watt University*  
*(Professor A J Welch)*

Experimental mapping of the  
mechanisms of carbametallaborane  
isomerisations  
96,969 36

*University of Liverpool*  
*(Dr R H Crompton)*

A mechanical model of the foot of apes,  
applied to the fossil record  
86,370 36

*University of Oxford*  
*(Dr S Newbury)*

Functional analysis of a novel protein  
that modulates RNA turnover in the  
fruit-fly *Drosophila*  
91,286 36

<i>University of Sussex</i> (Professor R J Andrew)	Memories on the right and the left of the brain, and their interaction	41,416	18
<i>University of Edinburgh</i> (Professor R M Maizels)	Abundantly expressed genes from <i>Toxocara</i> : novel candidates for parasite immune evasion	90,424	36
<i>University of East Anglia</i> (Dr M Dzamonja)	Cardinal spectra and their relation to infinitary mathematics	68,077	24
<i>British Museum (Natural History)</i> (Professor T M Embley)	Evolutionary origin of fungal hydrogenosomes	69,150	24
<i>University of Leeds</i> (Professor P G Stockley)	Molecular dissection of model virus assembly pathway	106,598	36
<i>University of Cambridge</i> (Dr M Tester) <i>University of Oxford</i> (Dr M Knight)	Development of channel-aequorin fusions to identify calcium channels in plants	59,858	24
<i>Queen Mary and Westfield College, London</i> (Professor I C Percival)	Dynamics of quantum measurement	114,439	36

<i>University of Cambridge</i> (Dr J P Carr)	Inducing resistance to plant viruses: the steps beyond salicylic acid 90,972	36
<i>University of Oxford</i> (Professor J I Silk)	The nature of dark matter 433,134	60
<i>International Livestock Research</i> (Dr R P Bishop) <i>University of Edinburgh</i> (Dr S Welburn)	Isolation of genes encoding secretory pathway proteins of tick salivary glands 89,091	36
<i>University of Cambridge</i> (Dr C J Howe) (Dr A Barbrook) <i>De Montfort University</i> (Dr P Robinson)	STEMMA - Studies on textual evolution of manuscripts by mathematical analysis  101,893	36
<i>John Innes Institute, Norwich</i> (Dr M C McCann)	Cell specialisation in higher plants: a molecular analysis 130,902	24
<i>University of Bristol</i> (Dr M D Ward)	Switching of photoinduced electron and energy transfer in polynuclear complexes 55,570	24
<i>University of Birmingham</i> (Professor I V Lerner)	Interaction effects in disordered mesoscopic structures 88,440	36
<i>University of Cambridge</i> (Professor M Ashburner)	Analysis of the <i>Drosophila</i> Hmr gene from melanogaster complex species	

	16,060	6
<i>University of Warwick</i> (Dr A Rodger)	DNA binding and DNA structure control by novel transition metal helicates 87,900	36
<i>University of Newcastle upon Tyne</i> (Professor B A Connolly)	Lanthanide-based artificial enzymes for cleaving nucleic acids 97,110	36
<i>University of Leeds</i> (Professor M J Pilling)	Chemical kinetics in the diagnosis and regulation of star formation 50,070	24
<i>Liverpool School of Tropical Medicine</i> (Dr P J McCall)	Learning and memory in mosquito vectors 24,470	12
<i>University of Wales, Cardiff</i> (Dr R V North)	In search of the blue signal - studies of the ageing visual pathway 57,440	24
<i>University of Reading</i> (Dr M Pagel)	Darwinian gradualism in the phylogenetic record 52,910	24

**Research: Economics, business studies, industrial relations**

*National Institute of Economic and  
Social Research*

*(Professor M R Weale)*

Student fees and their impact on the  
British University System

158,554

24

*South Bank University, London*

*(Professor G M Caporale)*

Volatility of share prices and the  
macroeconomy: real effects of financial  
crises

50,430

24

*University of Exeter*

*(Dr J Maloney)*

*University of Warwick*

*(Professor B Lockwood)*

*City University*

*(Dr K Hadri)*

Do independent central banks stabilise  
the political business cycle?

22,080

12

*Queen Mary and Westfield College, London*

*(Dr J Haskel)*

*University of Nottingham*

*(Professor R Disney)*

Globalisation and the birth, survival and  
death of manufacturing establishments

57,170

24

*University of Aberdeen*

*(Professor I Theodossiou)*

The dynamics of low pay: a rural-urban  
comparison

43,210

24

*Institute for Fiscal Studies*

*(Dr J Van Reenan)*

Evaluation of the New Deal

88,550

24

*University of Manchester*

*(Dr F Chittenden)*

Compliance costs of business taxes  
in the UK

57,960

24

<i>Luton University</i> ( <i>Professor D J Hamblin</i> )	Key factors impacting on UK manufacturing companies' survival	48,700	30
<b>Research: Education</b>			
<i>King's College London</i> ( <i>Professor B V Street</i> ) <i>Goldsmith's College, London</i> ( <i>Professor E Gregory</i> ) <i>University of Brighton</i> ( <i>Mr D Baker</i> )	Literacy practices at home and at school: community contexts and interpretations of literacy	112,788	36
<b>Research: Fine and performing arts</b>			
<i>National Museums &amp; Galleries on Merseyside</i> ( <i>Miss L Wood</i> )	Seating and upholstered furniture: a study of the Lady Lever collection	23,209	12
<i>University of Surrey :Roehampton</i> ( <i>Dr A Grau</i> )	South Asian dance in Britain: negotiating cultural identity through dance	51,440	24
<b>Research: Humanities</b>			
<i>University of Oxford</i> ( <i>Professor N H Gale</i> )	The sources of, and trade in, tin in the Bronze Age Mediterranean world	60,880	24
<i>Birkbeck College, London</i> ( <i>Dr O Figes</i> )	Russian culture and the development of the Russian national identity	80,150	24

<p><i>University of Reading</i> (Dr K White)</p>	<p>Locating buried archaeological sites in deserts using orbital radar 84,210</p>	<p>36</p>
<p><i>University of Newcastle upon Tyne</i> (Mr J Crow)</p>	<p>The water supply of Constantinople: investigating the hydraulic technology 105,170</p>	<p>36</p>
<p><i>University of Edinburgh</i> (Dr P Addison)</p>	<p>“The Few”: a biographical study of the Battle of Britain aircrew 8,786</p>	<p>8</p>
<p><i>University of Exeter</i> (Dr A G Brown) <i>University of Leicester</i> (Professor D Mattingley)</p>	<p>Roman vineyards in Britain: a combined stratigraphic-palynological approach 23,360</p>	<p>12</p>
<p><i>University of Newcastle upon Tyne</i> (Professor G N Bailey) <i>Pitt Rivers Museum, Oxford</i> (Dr P J Mitchell)</p>	<p>LSA hunter-gatherer exploitation of riverine resources in the Lesotho highlands 108,190</p>	<p>36</p>
<p><i>University of Warwick</i> (Dr S Swain)</p>	<p>Physiognomy: an interdisciplinary study from Graeco-Roman antiquity to Islam 73,080</p>	<p>24</p>



<i>University of Sheffield</i> ( <i>Professor G McCulloch</i> )	The life and educational career of Sir Cyril Norwood (1875-1956)	43,940	18
<i>University College, London</i> ( <i>Professor J Graham-Campbell</i> )	The art of the face during the Early Medieval Period in Britain and Norway	53,050	24
<i>University of Newcastle upon Tyne</i> ( <i>Professor N C Burton-Roberts</i> )	The representational hypothesis and the architecture of grammar	58,324	24
<i>University of Edinburgh</i> ( <i>Dr C Heycock</i> )	Displacement and gap strategies: a comparative investigation	81,090	36
<b>Research: Law, politics, international relations</b>			
<i>University of Exeter</i> ( <i>Dr J A Vincent</i> )	Older people's participation and influence on national and local political processes in Britain	49,100	12
<i>Royal Holloway College, London</i> ( <i>Dr K Dodds</i> )	The Falklands/Malvinas in a changing world	61,180	24

**Research: Social sciences [including anthropology, geography, social psychology]**

*University of Cambridge*

*(Professor A Cliff)*

*University of Nottingham  
(Dr M R Smallman-Raynor)*

Disease in war, 1850-1990: geographical patterns, spread and demographic impact

7,000

60

*University of Exeter*

*(Dr A Williams)*

International mobility and transition in Central Europe

66,900

24

*University of Wales, Bangor*

*(Professor H H Davis)*

Cultural power and the transition in a Russian region

38,347

18

<i>University of Wales, Cardiff</i> <i>(Professor P A Atkinson)</i>	The everyday life of high culture: opera at work	23,700	24
<i>University of Cambridge</i> <i>(Dr C Humphrey)</i> <i>University College, London</i> <i>(Dr V Buchi)</i> <i>St John's College, Cambridge</i> <i>(Dr C Alexander)</i>	Re-constructing urban life in the cities of post-Soviet Asia	119,540	36
<i>University of Keele</i> <i>(Dr P Werbner)</i>	Saintly followers: the reproduction of Sufi traditions in Britain	32,940	12
<i>University of Manchester Institute of Science and Technology</i> <i>(Professor I T Robertson)</i>	Predicting behaviour better: personality traits in context	86,840	36

<b>Summary of Research Project Grants by Main Field Group</b>	<b>Amount (£)</b>
Applied sciences [including architecture]	1,094,568
Basic sciences	7,051,923
Economics, business studies, industrial relations	1,485,954
Education	363,317

Fine and performing arts	956,856
Humanities	805,155
Law, politics, international relations	2,344,095
Social sciences (incl. anthropology, geography, social psychology]	375,267
Unspecified	679,750
Net commitments made (institutions not yet known)	1,223,135
<b>Total</b>	<b>15,066,865</b>