



BRITISH PHARMACOLOGICAL SOCIETY

Today's science, tomorrow's medicines



Annual Review & Summarized Accounts 2011

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Our Mission

The British Pharmacological Society (BPS) is the primary UK learned society concerned with research into drugs and the way they work. Our members work in academia, industry, and the health services, and many are medically qualified. The Society covers the whole spectrum of pharmacology, including the laboratory, clinical, and toxicological aspects.

The BPS exists to promote and advance pharmacology (including, without limit, clinical pharmacology) and to be the leading Society for the presentation, promotion, and discussion of all matters relating to both pharmacology and clinical pharmacology and therapeutics (CPT). Specifically, the Society is concerned with the discovery, mechanism of action, use, and safety of drugs in humans and animals, in order to contribute to education and the understanding and relief of suffering.

The Society is a registered Charity. The Society's governing document is its Memorandum, Articles of Association, and Rules. In 1994 the Society became a Company Limited by Guarantee.

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British Pharmacological Society

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Company registration number:
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President & Chief Executive's Review



President
*Phil Routledge OBE, MD,
FRCP, FRCPE, FRCGP,
FBTS, FBPharmacols*



Chief Executive
*Kate Baillie BA (Hons),
MA, MBA*

On the 3 July 2011 we marked the 80th Anniversary of the Society. We are pleased to report that we continue to thrive - membership has increased 20% since 2008 and we ended the year with 3090 members, an increase of almost 11% since 2010. We have also recently offered free membership to undergraduates, and have nearly 500 members in this category.

For the first time, we had to open a waiting list for the Winter Meeting as pre-registered delegate numbers topped 877! We were also delighted to welcome our colleagues from the Chinese Pharmacological Society (CPS) to their first joint meeting with the BPS. We have agreed to meet biennially in future years, and we are now in the process of planning the second joint BPS/CPS meeting in Shanghai during July 2013.

Other international meetings during 2011 included the clinical section sponsorship of a symposium on

Clinical Pharmacology and Rational Medicines Use at the EACPT Congress in Budapest. We continued to support EPHAR symposia, its lecture programme and summer school. We exhibited at both Experimental Biology and the Society for Neuroscience in Washington DC, which seeded discussions for the joint BPS/ASPET meeting to be held during Experimental Biology in Boston 2013.

The Winter Meeting featured the first knowledge based assessment, delivered as part of the overall assessment for Clinical Pharmacology trainees.

A further innovation on the Meetings front during the year was the first Industry Committee-organized James Black conference on *Biologics for the New Millennium*. We hosted the 12th International Conference on Endothelin, co-badged with the American Physiological Society and worked with the Faculty of Pharmaceutical Medicine to deliver a meeting on Prescribing without Evidence. Interestingly, over 80% of the delegates attending these meetings were not BPS members, so this presented an ideal opportunity to raise awareness about the work of the BPS and to recruit new members. Further information about BPS meetings is available on p15.

In addition to our established programme of educational workshops, we worked closely with the Society of Biology on its pilot programme to accredit bioscience degrees, particularly those in the *in vivo* area. We also joined the Steering Group of Member Organization funders who support Dr Stephen Benn, the Society of Biology's Director of Parliamentary Affairs. It is hoped that Stephen will be able to work with BPS to enhance the profile of biology and pharmacology in parliament, and

to provide expert guidance on policy issues for BPS. 2011 saw the launch of our long awaited new careers leaflets and our How Do Drugs Work? leaflet for the general public. In due course the leaflets will be hosted on a new website Pharmacologynow.org. The website will provide careers advice, and information about our outreach activities, including a teacher and school zone. We launched a new fund to provide care support bursaries, to enable our members with caring responsibilities to attend scientific meetings. Education activities are featured on p19.

We continued to grow our social media presence during the year with 1308 Facebook fans (868 in 2010), 659 Twitter followers (380 in 2010), and 1654 viewers to our YouTube channel BPSTV (563 in 2010) – we were intrigued to find that our “Klout” rating which measures the effectiveness of social media channels describes BPS as follows: “People count on you to find out what’s happening. You are quick to connect people and readily share your social savvy. Your followers appreciate your network and generosity”.

In terms of public engagement, our regular presence at Cheltenham Science Festival continued in 2011 with *The Science of Cannabis* and our new session *Heart Attack!* saw speakers engaged in discussions with the public for an hour afterwards. Heart Attack! was also presented at the London Science Festival.

The Young Pharmacologists (YP's) continued with their fundraising efforts to raise money for bursaries to enable young African scientists to attend the 2014 WorldPharma Congress in Cape Town. The I ♥ pharmacology T shirts

continue to sell well, and we were delighted to see photographic evidence of the entire IUPHAR Executive wearing them! The YP's also continued to sponsor talks in Life Science departments across the country and worked with their counterparts at the Physiological Society and Biochemical Society to host the Young Life Scientists' symposium on *Autonomic Control in Health and Disease*.

We continued to work closely with the Medical Schools Council to develop the Prescribing Skills Assessment (PSA). During September, four PSA question writing workshops were held and 56 question writers were trained. It is hoped that by July 2012 we will have a bank of around 800 items for use in test equated assessments.

15 sessions have now been placed on the *Prescribe* Website, which is now open for beta testing at www.prescribe.ac.uk. The site includes a virtual learning environment (VLE), library, glossary and links and around 800 medical students from 36 medical schools have already registered on the site.

November saw the launch of *The Guide to Pharmacology* www.guidetopharmacology.org. This publication has created a searchable online database which enables cross reference of data from both the BPS Guide to Receptors and Channels (GRAC) and the IUPHAR nomenclature database (IUPHAR-DB). We are exploring the possibility of collaboration with the Royal Society of Chemistry (RSC) to provide pharmacologists with accurate chemical information and links via "Chem Spider" to biological information.

We were sad to say farewell to Professor Ray Hill and Professor Daniel McQueen as they ended their terms of office as President and Honorary Treasurer respectively and wish to thank them for their tremendous contribution to the Society during their periods in post. Dr Robin Hiley also completed his period as Meetings Vice President but was subsequently confirmed as Honorary Treasurer for the next three years, so we look forward to working with him in this important area.

Professor Humphrey Rang was confirmed as the Society's President-Elect during the AGM. This year's ballot, overseen by the Electoral Reform Society saw an all-time record number of votes cast – 692 in total.

We were also sorry to say goodbye to Annie Geraghty (Education Manager) and Amalie Brown (Meetings Manager) as they left Angel Gate to take up new career opportunities. We welcomed Becky Hughes (Meetings

and Events Officer), Jess Strangward (Head of Education) and Ruth Meyer (Committee Officer) and were also pleased to report the promotion of two staff members – Karen Schlaegel (Head of Meetings and Events) and Jonathan Brüün (Director of Communications and Business Development).

The Society could not continue to grow and thrive without the tremendous support from its members, particularly those who work on a voluntary basis as committee members, Honorary Officers and journal editors and reviewers. We would like to extend our thanks to everyone, including the staff team at Angel Gate for making 2011 another productive year for the BPS.



IUPHAR Executive ♥ Pharmacology

BPS Objectives

1. To ensure the delivery of training and education in pharmacology through -

- provision of high quality scientific meetings
- sponsorship of the meetings of relevant external groups
- provision of high quality educational courses

- delivery of a Diploma in Advanced Pharmacology and its component workshops

- development of an e-learning functionality on the new BPS website to deliver enhanced resources for Continuing Professional Development
- re-platforming of PharmaCALogy

2. To promote pharmacology as a scientific discipline by -

- enhancing the Society's presence at careers fairs, teachers' conferences and science festivals

- developing a portfolio of careers information for A-level students and undergraduates

- development of social networking communities

& Achievements 2011

- BPS delivered seven scientific meetings, four of which involved collaboration with other groups and societies, to ~1329 delegates.
 - BPS sponsored the meetings, lectures and workshops of external groups including EPHAR, New York Academy of Medical Sciences, and Sense About Science among others.
 - BPS continues to deliver, support and maintain high quality in vivo training. We fund 'taster' training courses and short courses in partnership with The Physiological Society, MRC, BBSRC and the Wellcome Trust. We have secured funding for these courses for the next three years from MRC and BBSRC.
 - The Diploma in 2011 has three graduates and seven new students, demonstrating its continuing value. We held five sold out workshops, all receiving positive feedback from the total of 127 delegates. A workshop on Enzymes debuted and will now become a fixture in the workshop repertoire.
 - BPS has concentrated its e learning activity on the Prescribe website in 2011.
 - Options for the re development of PharmaCALogy continue to be assessed by the Education & Training Committee.
-
- BPS attended and sponsored a talk at the Association of Science Education meeting in January in Reading. We were headline sponsor of the Life Sciences Careers Conferences held in Aston (Feb) and York (Oct). We attended careers fairs in London (2), Reading and Manchester and contributed resources for a further three (Cardiff, Glasgow, and Birmingham). We presented popular outreach shows to over 400 members of the public at the Cheltenham and London Science festivals.
 - Our new careers leaflet was widely distributed to schools and career fairs. The accompanying website, www.pharmacologynow.org is in development. We also co developed with other learned societies, 'Next Steps' a careers booklet for undergraduates.
 - Our social networking sites have continued to grow over 2011: Facebook: 1292 fans (868 Dec 2010); Twitter: 638 followers (380 Dec 2010); YouTube: 1638 viewers to our channel BPSTV (563 Dec 2010).

Cont...

BPS Objectives

- engagement with the Society of Biology's accreditation project
- using the enhanced BPS website to promote education
- ensuring that pharmacology is fully represented in government and other agency consultations
- establishing an industry sub-committee to address the needs of pharmacologists in the pharma industry

3. To promote clinical pharmacology as a clinical discipline by -

- developing Prescribe, a web-based training tool for medical students and other health professionals with prescribing responsibilities
- seeking investment partnership in Prescribe
- working with the Department of Health's e-Learning for Health Initiative to deliver a Prescribing Simulator
- working with the MSC and other stakeholders to develop a national Prescribing Skills Assessment scheme for all final year medical students
- The clinical section continues to influence at policy level and contributed to six consultations during 2011.

& Achievements 2011 (Continued)

- BPS has two members on the SB Accreditation Panel and continues to collaborate on the implementation of *in vivo* Accreditation, to ensure graduates are highly trained and work ready.
 - Education & careers account for three of the top 20 most accessed pages on the BPS website.
 - BPS contributed to eight UK and EU consultations in 2011, and made public statements on a variety of science policy issues including research funding, tier 1 migration, REF maternity arrangements and the ABPI code of practice.
 - The Industry Committee initiatives include: James Black meeting on Biologics, Sept 2011; complimentary membership for those affected by the contraction of big pharma industry; and Learned Society collaborative initiatives to support skills and training.
-
- www.prescribe.ac.uk is now online as a beta test site containing 15 e learning sessions on clinical pharmacology. The site has 796 registered users from 36 medical schools in the UK & Ireland, all of whom have registered free of charge.
 - Exploratory discussions on investment in *Prescribe* have been held with two organizations over the course of 2011.
 - Work on the Prescribing Simulator is ongoing, with the DoH undertaking the development of this resource.
 - This project has gathered pace in 2011. We currently have 50 trained question writers delivering 600 peer reviewed questions, initially for online pilots of the PSA. Pilots begin in medical schools in April through to June.
 - encouraging the training and appointment within the Universities and NHS of clinical pharmacologists who will contribute (as appropriate) to the delivery of healthcare, research, education in therapeutics/prescribing, and medicines policy at local, regional and national level
 - Jeff Aronson's meeting, Planning a 5 year Agenda for UK Clinical Pharmacology and a subsequent meeting at EACPT has culminated in recommendations for encouraging clinical pharmacology as a specialty over the next few years. Several actions are already underway including: Clinical Pharmacology Special Study Modules in the UK: A Survey, sent to 29 clinicians throughout the UK; a meeting collaboration with the Faculty of Pharmaceutical Sciences (Prescribing Without Evidence), and a CPT online community planned with a launch date of early 2012.

BPS Objectives

4. To maintain and develop services for members by -
- assessing the viability of the Society's Special Interest Groups, and replacing them if necessary
 - developing the links between the Society's journals and its meetings
 - increasing the impact factor of the Society's journals
 - developing the content and propagation of the society's newsletter, Pharmacology Matters
 - developing and extending links with sister societies nationally and internationally

& Achievements 2011 (Continued)

- Special interest groups are supported by the Connected Community. There are signs that certain key groups are becoming more active, including Industrial Pharmacologists, Project Licence Holders, and the Clinical Section which will soon be served by its own e-group.
- Our journals regularly receive review content from BPS sponsored or organized meetings, and have, over the course of 2011, successfully proposed symposia for the 2012 Winter Meeting. Twice yearly Joint Publications meetings map journal content against the Society's activity, including its meetings.
- Unfortunately, impact factors for our journals fell numerically in 2011. The British Journal of Pharmacology (BJP) now stands at 4.925 (5.204 in 2010), while the British Journal of Clinical Pharmacology (BJCP) has an IF of 3.063 (3.246 in 2010). This is under constant review by the Editorial Board and the Executive Committee.
- We published three issues of Pharmacology Matters during 2011: Pharma Futures, A Pharmacological Education, and An Industrial Revolution. The newsletter has undergone a subtle redesign over the year, and we are encouraging authors to write articles that are accessible, not only to our membership, but to a wider lay readership. The newsletter which runs in parallel with Pharmacology Matters is now sent to around 4000 inboxes. Co-operation with our Sister societies allows this medium to be a valuable means for increasing co operation and awareness of activities across the Biosciences.
- BPS met with the American Society for Pharmacology and Experimental Therapeutics (ASPET), The Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT), The Chinese Pharmacological Society and The Federation of European Pharmacological Societies (EPHAR) over the course of 2011, as well as meeting regularly with organizations including the MSC, PhySoc, Society of Biology, Association of British Pharmaceutical Industry (ABPI), BIA and the British Neuroscience Association. We also exhibited at EACPT, Experimental Biology and the Society for Neuroscience meeting, using the opportunities to interact with a number of national and international organizations.



Membership

In 2011 we offered free membership to undergraduates for the first time. This gave us a great opportunity to promote the BPS to students and the policy was an instant success, increasing our undergraduate membership by 68% within a few months.

Other initiatives recruited new members from Experimental Biology 2011 and Neuroscience 2011, both held in Washington, and the Twelfth International Conference on Endothelin.

We converted complimentary subscriptions into full paying members from those who took advantage of one years' Journal Author Membership.

In December 2011 the AGM noted the elections of the following new Honorary Fellows; Professor Joe Collier; Professor Janice Marshall; Dr Patricia McElhatton (posthumously); Professor Salvador Moncada; Professor R North; Dr Rashmi Shah and Dr Michael Walker.

Dr Richard Barrett-Jolley was elected a Fellow, and 222 new members and 538 new Associate members (including undergraduate and postgraduate students) were elected during the year.

The total BPS membership on 31 December 2011 was 3090 representing an 11% increase on 2010. There were 700 members of the Clinical Pharmacology Section, of whom 147 are undergraduate or postgraduate Associate members.

The deaths of ten members were reported.

We now publish the names of our Fellows and Honorary Fellows on the website. Those featured were contacted for their permission. If your name is missing and you would like to be included amongst the published names please contact the Membership and Awards Officer.

Resources

BPS Members

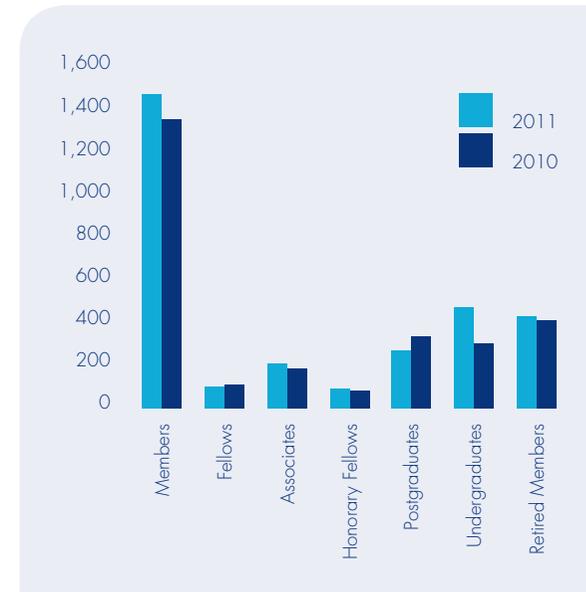
<http://www.bps.ac.uk/members>

Honorary fellows

<http://www.bps.ac.uk/details/membersPage/1297735/HonoraryFellows-of-the-Society.html?cat=bps131b3cb55e1>

Fellows

<http://www.bps.ac.uk/details/membersPage/1055145/Fellows-of-the-Society.html?cat=bps131b3ac7486>



BPS Membership increased across most categories during 2011



Scientific Meetings

James Black Meeting: Planning a 5-year Agenda for UK clinical Pharmacology, Oxford

20 – 22 June 2011, organized by Dr Jeff Aronson

- 49 registrations, which included 26 speakers
- Two sponsors

“Overall, it was a good meeting. I felt heartened about the state of clinical pharmacology”

“Good spread of topics, relaxed but productive meeting”

Novel cAMP Signalling Paradigms: New Insights into the Development and Progression of Chronic Inflammatory Diseases, London

7 – 8 July 2011, organized by Professor Dr Martina Schmidt

This focused meeting attracted many delegates from Europe and received positive feedback from delegates for the subject-matter and the setting of the event.

- 52 registrations, which included 13 speakers

“Good programme, good variety”

The Twelfth International Conference on Endothelin, Cambridge

11 – 14 September 2011, organized by Professor Matthias Barton and Dr Anthony Davenport

The Endothelin conferences have alternated between three continents during the last twenty years, in cities including: London, Montreal, Houston, Bergamo, Kyoto and Tsukuba. Delegates who arrived early on the first day of the meeting were able to enjoy the experience of punting along the river Cam, viewing the medieval colleges at their best. The Meeting also offered prizes for Young Investigators, providing younger scientists with the opportunity to be involved in this prestigious meeting.

- 139 registrations, which included 33 speakers
- Seven exhibitors and sponsors

“Perfect, seamless experience for attendees”
“Excellent programme with good selection of speakers”

James Black Meeting: Biologics for the New Millennium, Cambridge

19 – 20 September 2011, organized by Dr Matthew Sleeman and Dr Martin Todd

Organized as the first BPS Meeting of the Industry Committee, this event was held at Murray Edwards College in Cambridge, with the conference dinner taking place in Magdalene College's historic 16th century Hall.

- 109 registrations, which included 22 speakers
- One sponsor

“Although I came to this meeting to see colleagues I have been impressed with the scientific content – this is what will bring me back to another meeting of this kind”

Prescribing Without Evidence, London

27 September 2011, Jointly organized with the Faculty of Pharmaceutical Medicine

This one day conference tackled the complex issues around prescribing in the absence of adequate data. Topics discussed included the ethics of prescribing in data-poor groups e.g. in pregnancy and in children, the medical law surrounding prescribing and patient attitudes to prescribing without evidence.

- 81 registrations

BPS Winter Meeting 2011, London

13 – 15 December 2011

The BPS Winter Meeting, London 2011 returned to the Queen Elizabeth II Conference Centre.

The conference comprised of nine symposia, four oral communication sessions and four poster sessions. As in previous years, Undergraduate Bursary winners were again welcomed to present at the meeting.

The Society was pleased to again welcome the AHPPI as co-hosts of a symposium, with 2011 also including a joint symposium with the Chinese Pharmacological Society.

In 2011, the Annual Dinner and Prize Giving took place at the award-winning Church House Conference Centre. Guests enjoyed a prize reception in the Hoare Memorial Hall, followed by dinner in the Grade II listed Assembly Hall.

Podcasts and vodcasts of the Meeting are available via the BPS website

- 877 registrations, which included 67 speakers
- 25 exhibitors and sponsors

"Brilliantly organized - the best winter meeting in 25 years"

"Exciting symposia with ideal schedule and timings"

Resources

BPS Meetings

<http://www.bps.ac.uk/meetings>

BPS Meeting resources

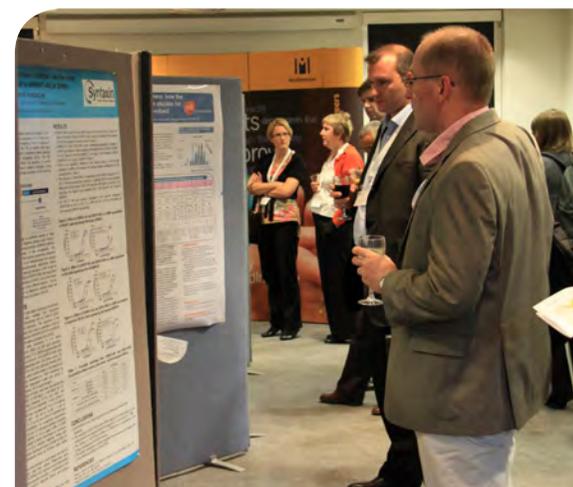
<http://www.bps.ac.uk/details/meetingsPage/1456061/Meetings-resources.html?cat=bps1353463fff0>

BPS Podcasts

<http://www.bps.ac.uk/details/resourcesPage/861369/Video-resources.html?cat=bps12be40a625f>

BPS Vodcasts

<http://www.bps.ac.uk/details/resourcesPage/861369/Video-resources.html?cat=bps12be40a625f>



Delegates enjoying poster sessions at the Winter Meeting 2011

Selected symposia and lectures

- **GSK Prize lecture:** "Hardening of the arteries: an inflammatory issue" by Dr Ian Wilkinson
- **AstraZeneca Women in Pharmacology lecture:** "A Blast of Hot Air: a career in respiratory pharmacology" by Professor Maria Belvisi
- **ASCEPT lecture:** "Ageing: a new frontier for drug discovery" by Professor David Le Couteur
- **Gaddum Prize lecture:** "The birth and postnatal development of purinergic signalling" by Professor Geoffrey Burnstock
- **J R Vane lecture:** "Adrenoceptors – Black Boxes to black boxes over my lifetime" by Professor Ian McGrath
- **President's lecture:** "Mini-symposium on 'The future of drug discovery in the UK'" co-ordinated by Professor Ray Hill
- **Paton lecture:** "John Vane, pharmacologist" by Professor Rod Flower
- **MSD lecture:** "Translational Neuropharmacology: The use of human isolated gastrointestinal tissues" by Professor Gareth Sanger
- **Gary Price memorial lecture:** "Voltage-gated calcium channel alpha2delta subunits and the elusive mechanism of action of gabapentin" by Professor Annette Dolphin

Symposia

- Therapeutic potential of family B G protein-coupled receptors
- Pharmacology in drug development and regulation
- Medical cannabidiol - is there anything it can't do?
- SpRs symposium: Making sense of the numerical aspect of CPT
- Working towards the understanding of TRPA1
- Clinical pharmacology of drug development and pharmacological research in China*
- Stem cells - pharmacology and therapeutics
- Gasotransmitters as physiological mediators and therapeutic agents: the challenges ahead
- Targeting the resolution of inflammation: opportunities for innovative drug discovery programmes
- The cannabinoid system as a target for cardiovascular disease
- Clinical pharmacology and rational medicines use - EACPT

Industry Report

The Industry Working Group became an official committee of the BPS in 2011 to represent the needs and views of our industry members. The Committee aim to act as a steering and coordination group developing priorities and working through industry representatives on each of the BPS Committees.

Activities in 2011 included organizing meetings, contributions to *Pharmacology Matters*, outreach to potential industry members, policy responses, discussions around pre-competitive data sharing and establishing an industrial pharmacology e-group.

In September the Industry Committee organized a James Black Meeting, *Biologics for the New Millennium*, which attracted 107 delegates. Many of these delegates were not BPS members; it is hoped such meetings will be a means of attracting members from the boarder community at work in drug discovery. The Committee organized a symposium at the Winter Meeting, *Pharmacology in Drug Development & Regulation*.

The Committee hope to ensure industry members affected by recent upheaval in the pharmaceutical industry remain engaged with BPS. Following the offer of one years free membership to those affected by the Pfizer research site closure 52 people took up the offer. Currently there are 63 members with complimentary membership.

Education & Training

Diploma in Advanced Pharmacology

The Diploma continues to attract new applicants and we currently have 26 registered candidates. Three Diploma students graduated at the Winter Meeting, London 2011: Juan Antonio Gilabert, Oladipupo Adeyemi and Darren Riddy.

Educational Workshops

We ran five workshops in 2011:

- Hypertension (30 Jan; University of Edinburgh) 29 delegates
- Integrative Pharmacology (4 April; University of Bristol) 20 delegates
- General and Advanced Receptor Theory (21-22 July; University College London) 23 delegates
- Enzymes as Drug Targets (21 Oct; Kings College, London) 14 delegates
- General and Advanced Receptor Theory (15-16 Dec; QEII Conference Centre London) 25 delegates

Prescribe e-Learning for Healthcare

This project, which aims to provide e-learning materials to help medical students (and students of other healthcare professions) to develop a firm grounding in the principles of basic and clinical pharmacology, is in the testing phase. If you are a UK medical student, you can take part in the pilot. Please sign up at: prescribe.ac.uk.

Prescribing Skills Assessment (PSA)

The BPS and Medical Schools Council continue to develop the PSA project. Four item writing training workshops were held in September, which resulted in over 60 trained authors who will be able to write and review questions at a Peer Review Event in 2012. The national pilot of this novel exam will begin in Autumn 2012.

PharmacALogy

The revision of key PharmaCALogy e-learning modules is ongoing.

Educational Leaflets

During 2011 we launched two new BPS outreach leaflets:

Careers in Pharmacology

This leaflet is aimed at students making their A-level choices and current students thinking about their next steps after university. This leaflet showcases the range of careers that pharmacologists are eligible for. It helps students find out what subjects they will need to study, what their future career path could be, and contains interviews with a number of different scientists who have pharmacology-based jobs.

How Do Drugs Work?

This leaflet explains simply what happens when a drug enters your body, and it talks about how natural products have inspired some of our most well known drugs. Both of these leaflets will be available at the Society's

outreach events, to help raise the profile of pharmacology and its importance to people's everyday lives.

Association for Science Education Annual Conference

(6-7 Jan, University of Reading)

BPS co-organized a *Biology in the Real World Design for Life* symposium at this major science education event with other Society of Biology member organizations. The 2011 talk was given by Professor Martin Wilkins from Imperial College London and was entitled: *Personalised Medicines - the promise and the problems*.

Careers fairs

We travelled around the country during 2011 talking to students in schools, universities and at careers fairs. Our key objectives were: to inform students about Pharmacology, inspire students to consider a career in Pharmacology and promote the supportive role of the Society. Together with our sister societies, we exhibited at these events:

- National Careers Guidance Show (3-4 Mar, Emirates, London)
- UCAS fairs (15-16 March, Exeter; 23-24 March, Northern Ireland; 5-6 April, Bristol; 20 June, Sheffield)
- NatureJobs Careers Expo (22 Sep, Business Design Centre, London)
- The Engineering, Science & Technology Fair (20 Oct, Manchester)

Bioscience: Next Steps Careers Booklet

To help support bioscience graduates, the BPS collaborated with our sister societies to produce a leaflet giving guidance to graduates on what to do after completing their bioscience degree. The leaflet contains valuable advice on how to write CV's in preparation for the world of work.

Life Sciences Careers Conferences

Alongside our sister societies* we organized two Life Sciences Careers Conferences for bioscience undergraduates and postgraduates. Held at Aston University (2 March 2011) and University of York (16 November 2011). These conferences showcased the wide range of careers open to bioscience graduates from academic research to science communication, working in industry to science policy. They attracted around 200 delegates each.

* The Biochemical Society, The Physiological Society, the Society for Endocrinology, the Society for Experimental Biology and the Society of Biology.

Promoting women's careers

AstraZeneca Prize for women in pharmacology
Professor Maria Belvisi was the recipient of the 2011 prize and presented 'A blast of hot air: a career in

respiratory pharmacology' at the 2011 Winter Meeting.

Mentoring Scheme

The mentoring scheme continues to attract participants, successfully pairing 11 mentors/mentees in 2011.

Managing your career break workshop

This career break workshop took place on 8 October at Angel Gate. Facilitated by Sam Pringle from Beeleaf Consulting, the workshop was an opportunity to look at career transitions and equipped delegates with the skills to effectively manage career breaks. The feedback from attendees was positive, and all expressed an interest in attending future training events.

Consultations

Maternity leave and the REF (Research Excellence Framework in Higher Education, HEFCE consultation)
The Women in Pharmacology Committee responded to the consultation on draft panel criteria for the REF, which the committee thought had not adequately covered time taken during maternity leave. After receiving an overwhelming response the four UK funding bodies took an early decision to take account of maternity leave in the REF.

Royal Society of Edinburgh inquiry into Women in STEM
The group responded to the Royal Society Call for Evidence: lifting barriers to women in Science, Technology, Engineering and Mathematics: A strategy for Scotland.

Supporting *in vivo* training

Integrative pharmacology fund

In 2004, a consortium of three pharmaceutical

companies (AstraZeneca, Pfizer and GlaxoSmithKline) established the £4-million BPS Integrative Pharmacology Fund (IPF). In 2011 the fund was used to support high quality *in vivo* research and training in UK academic institutions in the following ways:

- Additional funds to support the *in vivo* costs of 18 MRC PhD and 28 MRes projects at the Universities of Bristol, Cambridge, Glasgow, Liverpool, Imperial College London and Queen Mary, University of London
- Continued support of the Integrative Mammalian Biology Centres which have been established at Imperial College London, King's College London, and the consortia between the Universities of Manchester and Liverpool and of Glasgow and Strathclyde
- Strategic Skills Awards
The BPS continued to work alongside the BBSRC and the MRC developing the Strategic Skills Award scheme for *in vivo* science. This scheme, which was launched in 2010, provides supplementary research council funding to MRC and BBSRC PhD studentships, supporting research training in advanced integrative mammalian biology

In vivo training fund

This fund supported *in vivo* training courses at six universities in 2010 (Bath, Bristol, Glasgow, Kings College London, Leeds and Manchester).

In total £35,763 was committed to support students. This funding was only possible with generous support from the Integrative Pharmacology Fund, AstraZeneca, Eisai, Lilly, Huntingdon Life Sciences, Novartis, Pfizer, and Takeda.

BPS/Physiological Society in vivo short courses

Three annual short courses, offering *in vivo* training to those who cannot access it at their home institutions, were held at King's College London, the University of Glasgow and Bristol University. 27 students attended in 2011.

Higher education

Accreditation

We continued to work closely with the Society of Biology as they launched their pilot scheme to accredit bioscience degrees, in particular their *in vivo* science degree pilot programmes. BPS members and Angel Gate staff occupy key roles on accreditation planning committees and we continue to be consulted as Accreditation moves into the next phase.

PhD standardization

The Bologna Process of consolidating and harmonizing degree courses across Europe is now looking at the potential for standardization or harmonization of PhD education. A framework for PhD harmonization, which would include Pharmacology PhD's, is being developed by ORPHEUS (Organization for PhD Education in Biomedicine and Health Sciences in the European System). In 2010, Nick Goulding surveyed our membership to gauge their response to some of the guidelines. The results led to a discussion workshop hosted at Angel Gate on 15 April 2011. The discussions mirrored the survey results – the pharmacological community is disinclined to adopt the proposed model. It is imperative in 2012 and beyond that the bioscience community remain engaged in this process to ensure the BPS', and UK's view is heard.

Resources

BPS Education

<http://www.bps.ac.uk/education>

Promoting women's careers

http://www.bps.ac.uk/details/aboutPage/758781/Promoting-womens-careers.html?cat=bpspageabtbps2_promote

Diploma in Advanced Pharmacology

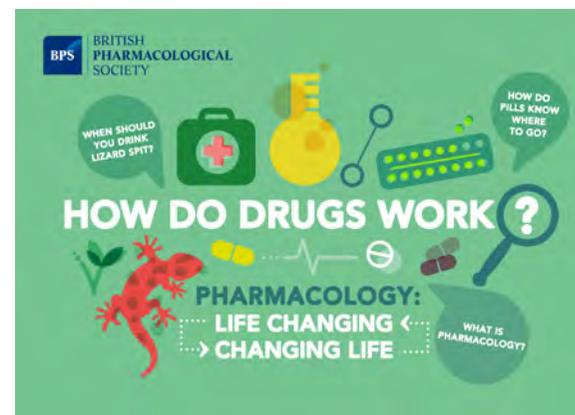
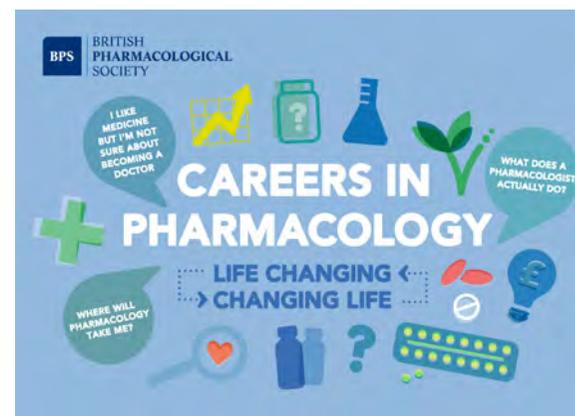
<http://www.bps.ac.uk/details/educationPage/843983/Diploma-in-Advanced-Pharmacology.html?cat=bps12aae045be1>

Workshops

http://www.bps.ac.uk/details/educationPage/843977/Workshops.html?cat=bpspageedu2_diploma#743467

Prescribe e-learning

<http://www.prescribe.ac.uk>



Our new outreach leaflets are proving very popular



External Affairs

In 2011 the BPS, through its External Affairs Committee, increased its engagement with the international community of pharmacologists and bio-scientists through a range of shared activities.

International Relations

BPS continued to promote pharmacology across Europe by providing financial support to the Federation of European Pharmacological Societies (EPHAR). In 2011, we funded four lectures, three symposia and an instructional summer course on subjects including Standards for PhD Education, the Pharmacological Treatment of Alzheimer's, and the Design of Pharmacologically Active Peptides.

The External Affairs committee were also active in building links with our US counterparts, the American Society of Pharmacology and Experimental Therapeutics (ASPET) by arranging discussions on shared activities, including joint meetings and symposia, and shared concerns, such as the retention of young members moving into employment. Actions from those meetings will be followed up in 2012 and beyond.

BPS also extended its international reach, and its presence alongside allied disciplines, by exhibiting at the Experimental Biology and Society for Neuroscience meetings, both of which were held in Washington DC. Over the course of these events, BPS CEO Kate Baillie, and Director of Communications and Business Development Jonathan Brüün were joined by BJP Editor-

in-Chief Professor Ian McGrath, and VP External Affairs Professor Chris Garland to raise awareness of the Society's meetings, journals, educational activities and membership. The Society picked up new members as a result of these conferences, and developed relationships with potential sponsors for our meetings and other initiatives. We also used the opportunity to Tweet fellow delegates about BPS services and initiatives, including the Young Pharmacologist's I ♥ Pharmacology T-shirt fund raiser.



Neuroscience PhD Student Shelley Fan shows off her I ♥ Pharmacology t-shirt, which she won at the Society for Neuroscience meeting, after following the BPS on Twitter

These activities, alongside the joint symposium arranged with the Chinese Pharmacological Society at the BPS Winter Meeting, and discussions with the Japanese, Australian, and Austrian Pharmacological Societies about closer collaboration on joint activities, indicate that 2011 was a year of international engagement for the External Affairs committee and the BPS as a whole.

Science Festivals & Outreach

The Cheltenham Science Festival offered BPS the perfect environment to engage with members of the public on issues related to medicines and health. Over 360 people saw our presentations, and many others spent time with BPS presenters in the 'Talk Zone' to discuss their health concerns, and to find out how drugs work.

Science of Cannabis featured pharmacologist Professor Clive Page, Chemist Prof Andrea Sella, Materials Scientist Dr Mark Miodownik, and Dr David Potter of GW Pharmaceuticals alongside a range of pungent, potted cannabis plants. Our presenters encouraged audience participation and interaction – inviting questions on issues such as the use of medicinal cannabis in the relief of pain and spasticity in patients with Multiple Sclerosis. Audience members were also encouraged to touch and smell the plants, closely watched by the police escort who had accompanied the cannabis plants from their top secret lab! When combined with a broad discussion on the potential for cannabinoid therapies, an explanation of why hemp makes great rope, and an attempt to extract cannabis oil using liquid CO₂, the latter

from behind a blast screen, the event made for a very enjoyable and enlightening evening for festival-goers.

"This year's talk has certainly been my favourite so far. Andrea and Mark have a wonderful rapport and can easily and entertainingly illustrate abstract chemical concepts. Clive and David obviously have tremendous experience in the pharmacology of marijuana, and together have enlightened me about the remarkable properties of this controversial plant"

- UCL Blogger Jennifer Love on Science of Cannabis

In *Heart Attack*, our second presentation at Cheltenham, Pharmacologist Dr Mark Christie, and Clinical Pharmacologist Professor Emma Baker explained to a packed room what happens when your heart goes into arrest, and how a combination of aspirin and expert clinical care can put you back on the road to recovery. This presentation was popular among older festival-goers at Cheltenham, and was produced for a second time in front of an audience of young scientists at the London Science Festival – proving that pharmacology has a role to play in helping people of all generations understand the importance of medicines in human health.

Online services

The re-developed BPS website, which went live in late 2010, received just short of 53,000 unique visits during the course of 2011 and hosted visitors from 163 international territories. With a healthy mix of new visitors (55%) and returning visitors (45%), we are confident that the site is providing a service to members wishing to access our journals, find out about scientific meetings and educational services and communicate with each other, and also to members of the public who turn to the BPS for help and advice on pharmacological issues.

Throughout 2011, we worked to enhance our wider web presence through a range of social media channels, in order to interact with a broad audience of members and non-members. Users of our Facebook, Twitter and YouTube channels increased by 97%, with live tweeting of events including the Libel Reform meeting at the Houses of Parliament, careers events and our own Winter Meeting proving an effective way of engaging people in pharmacology and driving traffic to our main website.

Science Policy

In order to promote the discipline of pharmacology among policy makers and collaborative organizations, BPS established a Rapid Response Policy Group (RRPG) in 2011. The RRPG comprises the President, President-Elect, VP External Affairs and a Trustee with an interest in science policy (currently Professor Donald Singer), and

is tasked with discussing and advising upon key issues as and when they arise, and on which BPS is asked to express a view. Throughout 2011, the group contributed to a number of initiatives, including:

- A call for learned societies to be included in discussions on mandated open access – this call was taken forward to David Willetts MP, Minister of State for Universities and Science
- A decision to support Society of Biology as a signatory on the Wellcome Trust / Academy of Medical Sciences joint submission to House of Commons Health Select Committee inquiry on public health
- A European Commission Consultation on Scientific Information in the Digital Age, which fed into an EC Communication and Recommendation on access to and preservation of digital scientific information

Throughout the year, we continued our close collaboration with the Campaign for Science and Engineering (CaSE), and represented the discipline of pharmacology on issues such as Non-EU Migration for Tier 1 and Tier 2 scientists, and on government funding for research in our sector.

Our work with CaSE was supplemented through increased policy engagement with the Society of Biology. In mid 2011, BPS agreed to co-fund the appointment of Dr Stephen Benn as Director of Parliamentary Affairs for

the Society of Biology, and is now part of the steering group that contributes to Dr Benn's agenda, and works with collaboratively with him on major parliamentary initiatives. Dr Benn will also be on hand to the BPS to provide expert analysis and comment on parliamentary or policy issues which affect pharmacology, and we look forward to working with him in the coming years.

Media

BPS continued to improve upon its media interaction through 2011. By developing contacts with news outlets and working with the Science Media Centre we were able to respond to a significant number of stories as and when they arose, and push the agenda for pharmacology in the national and international press. We also organized advanced media training for some of the scientists who regularly engage with the press on our behalf, and had excellent feedback from delegates at our first session.

We also continued to deliver an integrated approach to developing news coverage, and promoted stories involving the BPS, pharmacology as a whole, or the policy work that we have been involved with, to a wider audience using our Twitter and Facebook feeds.

Resources and Archiving

A large deposit of historic BPS documents were analysed, catalogued, reduced and shipped to a central archive at the Wellcome Trust during 2011. It is intended that the documents will be digitized and made available online for researchers to access free of charge, as a lasting record of the way in which our Society has been managed, has grown over the years, and of developments within the field of pharmacology.

2011 also saw the expansion of the BPS video library, which is freely available to members and general public through the BPS website, and our YouTube channel. Key symposia and speaker interviews were filmed at the BPS Winter Meeting, while other outreach events such as the 'Science of...' series were also captured. A new short film, which uses vox pop interviews to explain pharmacology in lay terms, and to emphasise the role pharmacology plays in the health and wealth of the nation, is now achieving a large number of views across these public video channels.

Resources

BPS website

www.bps.ac.uk

BPS Connected Community

<http://community.bps.ac.uk>

Our Facebook page

<http://www.facebook.com/britpharmsoc>

Our Twitter page

www.twitter.com/britpharmsoc

Our YouTube channel, BPS TV

www.youtube.com/britpharmsoc

LinkedIn

www.linkedin.com/company/british-pharmacological-society

Consultations 2011

March

- Liberating the NHS: Developing the healthcare workforce, Department of Health

April

- Ensuring the safe transfer of information about medicines, Royal Pharmaceutical Society

June

- Consultation on Good practice in prescribing medicines and devices, General Medical Council

July

- Transposition of EU Directive, Bioscience Sector Coalition which includes the Society of Biology, AMRC, BBSRC, MRC, ABPI, UAR and the Wellcome Trust.

August

- Healthcare Innovation in the UK, Royal Society of Chemistry
- Royal Society of Edinburgh inquiry into Women in STEM, Royal Society
- Science as a Public Enterprise, Royal Society

September

- Consultation on the Expansion of the Accreditation Programme, Society of Biology
- EC Consultation on Scientific Information in the Digital Age, European Commission via Wiley Blackwell

October

- Briefing on the Health and Social Care Bill, The Coalition of UK Medical Specialty Societies
- SoB - BIS consultation on a new regulatory framework for HE, BIS
- REF - consultation on draft panel criteria and working methods, HEFCE

November

- Science as Public Enterprise - Request for Case Studies, Royal Society
- UCAS Admissions Process / Lords Select Committee into Higher Education in STEM subjects, Society of Biology

Press Coverage 2011

12 January 2011

BPS members respond to BMJ Article, Jan 2011: Cardiovascular safety of non-steroidal anti-inflammatory drugs: network meta-analysis

19 January 2011

Professor Les Iversen confirmed as Advisory Council on the Misuse of Drugs Chair. BPS member Dr Paul Dargan newly elected to the Council, bringing BPS representation to four members

07 February 2011

BPS President Emeritus Dr JK Aronson contributed a letter to the Times in response to the announcement that Pfizer's drug development site in Kent will close

07 February 2011

The BPS position paper on the closure of Pfizer's R&D Facility set out initial views on the closure, and its impact on R&D in the UK

07 February 2011

BPS President Professor Ray Hill added his signature to a new Association of the British Pharmaceutical Industry (ABPI) code of conduct. The statement, Evolving the relationship between the medical community and the pharmaceutical industry, aims to support greater openness and transparency in the relationship between industry and healthcare professionals

08 February 2011

BPS member Professor Donald Singer contributed to 'Can paracetamol give your child asthma?' The article was published in the March edition of parenting magazine Junior

01 April 2011

Dr Jeff Aronson, BPS President Emeritus, contributed to Megan Scudellari's article in The Scientist, Teaching an old dog new tricks

18 May 2011

BJCP Press Release - Study highlights dangerous practice in paediatric paracetamol prescribing

24 May 2011

Jeffrey Aronson, President Emeritus of the BPS, contributes to Andrew Wansley's Ecologist article, Popular antibiotic ciprofloxacin linked to UK deaths, highlighting the adverse reactions associated with ciprofloxacin.

25 May 2011

BJP Press Release - Why Caffeine Can Reduce Fertility in Women

08 June 2011

BJCP article - Child doses of paracetamol set to be revised

21 July 2011

BJP Press Release - How Maternal Smoking or Nicotine Use Increases the Risk of Cardiovascular Disease in Later Life

29 September 2011

BJP Press Release - Alcohol-Related Behaviour Changes – Blame Your Immune System

14 November 2011

Professor Ray Hill, BPS President joined other key figures from our sector in signing a letter requesting that the government review its propositions on settlement rights for immigrants

15 November 2011

BJCP press release - New Technology Aids Evidence Gathering on Safety of Swine Flu Vaccination

22 November 2011

BJCP press release - Paracetamol: Repeated Ingestion of Slightly Too Much Can Be Fatal – Recognise and Treat Quickly

20 December 2011

Professor Simon Maxwell contributed to a Daily Mail article discussing the factors that can influence the successful treatment of someone on medications

22 December 2011

BPS member Andrew Herxheimer contributed to an article, published in The Epoch Times, on the state of the Pharmaceutical industry, Health of drugs industry still in question

22 December 2011

Interviews and excerpts from the President's mini-symposium, which took place at the BPS Winter Meeting 2011, formed part of BBC Radio 4's Report programme



Prizes & Awards

Our 2011 winners are detailed below, congratulations to all of them:

Sir James Black Award for Contributions to Drug Discovery

- Professor Raymond Hill and Dr Richard Hargreaves, Merck & Company, Inc

Wellcome Gold Medal

- Professor Roger Pertwee, The University of Aberdeen

BPS J R Vane Medal

- Professor JC (Ian) McGrath, University of Glasgow

AstraZeneca Prize for Women in Pharmacology

- Professor Maria Belvisi, Imperial College London

Lilly Prize

- Professor Robin Ferner, City Hospital

BPS Teaching Prize: "The Rang Prize"

- Dr Marcus Coffey, Cardiff University

Novartis Prize

- Dr Steven Charlton, Novartis

BPS Bill Bowman Travelling Lectureship

- Dr Nicholas Holliday, The University of Nottingham

BPS Vacation Studentships

- Charlotte Hill, University of Cambridge
- Tamara Cairney, The University of Strathclyde
- James Spalton, University College London
- Lara Jones, King's College London
- Deborah Evans, The University of Salford
- Babak Soleimani, The University of Birmingham
- Jessica Ivy, The University of Edinburgh
- Connor Bowbeer, The University of Edinburgh
- Sheridan Davies, Queen Mary, University of London
- Hannah Thompson, University of Bath
- Rebecca Robbins, University of Bath
- Miranda Robbins, Imperial College London
- Jonathan Smith, University of Bristol
- Weronika Stupalkowska, University College London
- Adrienn Gyori, University College London
- Akinrolabu Falase, St George's, University of London

BPS Post-doctoral Support

Dr Hardip Sandhu, Coventry University

BPS Research Collaboration Initiating Grant

Professor Ruth Ross, The University of Aberdeen

BPS AJ Clark Studentship

Simon Bulley, University of Cambridge

Science, Engineering and Technology (SET) Award for Best Pharmacology Student

Charlotte Cooper, University of Leeds

Winter Meeting, London 2011 Prize Winners

GlaxoSmithKline Award for Young Investigator

Ellen Hughes, Imperial College London

GlaxoSmithKline Prize for CPS Oral Communications

Dr Cher Cartwright, The University of Sheffield

AstraZeneca Poster Prize

Sophie Kwan, The University of Hong Kong

Pfizer CPS Poster Prize

Katarzyna Parzych, Imperial College London

The BJCP Young Investigator Prize

Dr Morten Petersen, for the manuscript *Association of beta-adrenergic receptor polymorphisms and mortality in carvedilol-treated chronic heart-failure patients* published in Volume 71, issue 4 (April 2011), pages 556–565

CPS Undergraduate Prize Winners

Examination

- Geoffrey Chilvers, Imperial College London
- Frederick Jarvis, King's College London
- Neil Roberts, Peninsula Medical School (1)
- Fisayomi Shobayo, Peninsula Medical School (2)
- Caroline Delaney, Royal College of Surgeons in Ireland (1)
- Jan Griffin, Royal College of Surgeons in Ireland (2)
- Stefanie Croghan, Trinity College Dublin
- Karen Nora McCarthy, University College Cork
- Fiona Leaf, University College London
- Nigel Fellows, The University of Birmingham
- Katherine Metcalfe, The University of Nottingham
- Alison Bowen, University of Warwick
- Kirsty Allen, University of Warwick
- Justin Scott Chang, St. George's, University of London

Special Study Module

- Lucy Nuttney, Newcastle University
- Andrew McClarey, The University of Edinburgh (1)
- Paul Heron, The University of Edinburgh (2)

Research Project

- Manpreet Kaur Bahra, Barts and the London Medical School
- Shobana Yoganayagam, Cardiff University
- Yasmin Mahmoud, King's College London
- Daniel Henderson, The University of Manchester
- Samuel McGrath, University of Bristol
- Weisang Luo, University of Bristol
- Chun Shing Kwok, University of East Anglia
- Robert Ball, University of Glasgow
- Rebecca Oliver, University of Southampton
- Ashwin Radhakrishnan, University of Southampton
- Peter Forrest, Queen's University Belfast
- Thomas Alexander Pinnell, St. George's, University of London
- Caroline Atherton, The University of Liverpool
- Hing Leong, The University of Liverpool

Prize for the Best National Young Investigators poster in Clinical Pharmacology

1. Peter Forrest, Queen's University Belfast
2. Yasmin Mahmoud, King's College London
3. Samuel McGrath, University of Bristol

With Thanks

We would not be able to offer the variety of prizes and awards without the support of our sponsors.

Resources

BPS Prizes

http://www.bps.ac.uk/details/membersPage/836573/Prizes_.html?cat=bps129c64bddf5#758785

BPS Study Awards

http://www.bps.ac.uk/details/membersPage/841633/Study_awards.html?cat=bps129c64dfdfc#758787

BPS Lectureships

<http://www.bps.ac.uk/details/membersPage/841635/Lectureships.html?cat=bps129c64ea435#758789>

Young Pharmacologists

The Committee organized a number of activities during 2011, an overview can be viewed below:

Sponsored Talks

Student members can request funding of up to £500 to organize a BPS Sponsored Talk at their university. In 2011 we sponsored talks at universities in Glasgow, Edinburgh, Oxford, Bath, Cardiff, and Dundee.

Fundraising for IUPHAR 2014

Fundraising efforts to support young pharmacologists in Africa continued during 2011. The money raised will go towards bursaries for students from countries in Africa to attend WorldPharma 2014, which will take place in Cape Town, South Africa. Combined sales of I heart Pharmacology T-shirts and Winter Meeting donations have raised in excess of £1200 towards the IUPHAR 2014 bursary scheme. Our Young Pharmacologists are set to capitalize on the success of the T-shirts by expanding the I heart pharmacology range of merchandise during 2012.

Winter Meeting 2011

The Young Pharmacologists Winter Meeting symposium, Stem cells: Pharmacology and Therapeutics, attracted around 300 delegates. Professor Doris Taylor gave an interview to Young Pharmacologist Committee member, Daniel Reed, giving her insight into the future of regenerative pharmacology. The interview can be found in the resources section of our website.

Networking events

A networking event was organized at The Twelfth International Conference on Endothelin in September. The event attracted 60 delegates from the meeting, and we were particularly pleased to welcome a broad range of attendees - from students to more senior pharmacologists. Our Winter Meeting, London 2011 networking event was held at the Tattershall Castle on 14 December. We sold 90 tickets to this quiz and buffet networking event.

Undergraduate Bursaries

Undergraduates were offered an opportunity to apply for bursaries to present and attend the Winter Meeting, London 2011. We received 34 applications and awarded bursaries to 29 undergraduates.

Young Life Scientists Symposium 2011

The 2011 symposium focused on Autonomic Control in Health and Disease and took place on 26 May at Birmingham University. These one day events are organized by small groups of PhD students with administrative support from BPS, Physiological Society and the Biochemical Society. The science 'speed dating' event during the poster presentations provided an opportunity for students to express their excitement and interest in their work.



Professor Doris Taylor and her fellow stem cell speakers at the Winter Meeting 2011

BJP

British Journal of
Pharmacology

BJCP

British Journal of
Clinical Pharmacology



Publications

Our journals saw small decreases in their 2010 impact factors. Although disappointing, the change was slight and we believe, in part, attributable to the increase in submissions both journals experienced during 2010.

The 2011 highlights from both of our journals are detailed below:

British Journal of Pharmacology (BJP)

- Received 1665 articles
- Published 480 articles
- Published 96 review articles
- New GRAC published: Guide to Receptors and Channels, 5th Edition, Volume 164, Issue Supplement s1, November 2011
- 2010 Impact Factor of 4.925
- Published six themed issues/sections
- 19 Editors joined the board
- 18 Editors retired
- BJP published the following themed issue/sections:
 1. Respiratory Pharmacology, Volume 163, Issue 1, May 2011
 2. Cannabinoids in Biology and Medicine Part I, Volume 163, Issue 7, August 2011
 3. Imaging—the Interface with Pharmacology, themed section, Volume 163, Issue 8, August 2011

4. Vascular Endothelium in Health and Disease, themed section, Volume 164, Issue 3, October 2011
5. Translational Neuropharmacology—Using Appropriate Animal Models to Guide Clinical Drug Development, themed section, Volume 164, Issue 4, October 2011
6. Transporters, themed section, Volume 164, Issue 7, December 2011

British Journal of Clinical Pharmacology (BJCP)

- Received 675 articles
- Published 270 articles
- Published 40 review articles
- 2010 Impact Factor of 3.063
- Continued the occasional series on the mechanisms of truly novel recently licensed drugs
- Continued to publish a monthly 'editors' view'
- Published one supplement (containing the abstracts of the 2011 Joint Annual Meeting of the German, Swiss and Austrian Societies for Clinical Pharmacology and Toxicology meeting).
- 12 International Editors and 10 Executive Editors joined the board
- Two Executive Editors retired
- BJCP published the following themed issue/sections:
 1. Drug allergy, themed section, Volume 71, Issue 5, May 2011
 2. Uropharmacology, themed section, Volume 72, Issue 2, August 2011

3. Haemostasis, themed issue, Volume 72, Issue 4, October 2011

- BJCP published the following Abstracts:

1. Abstracts of the 2011 Joint Annual Meeting of the German, Swiss, and Austrian Societies for Clinical Pharmacology and Toxicology, Volume 72, Issue Supplement s1, October 2011
2. Proceedings of the British Pharmacological Society Clinical Pharmacology section 14–16 December 2010 Queen Elizabeth II Conference Centre. Volume 71, Issue 6, pp. 971–994, June 2011

Guide to Pharmacology

The Guide to Pharmacology, launched in 2011, is an online database, which acts as a “one-stop shop” source of quantitative information on drug targets and the prescription medicines and experimental drugs that act on them.

The British Pharmacological Society (BPS) and the International Union of Basic and Clinical Pharmacology (IUPHAR) have collaborated to bring core sets of pharmacological data together online. The collaboration centres on the provision of cross-referenced data from the BPS Guide to Receptors and Channels (GRAC), and the NC-IUPHAR database (IUPHAR-DB) which features classes of drug targets and their ligands. This single BPS-IUPHAR online portal provides access to dynamically updated, searchable versions of GRAC and IUPHAR-DB.

Pharmacology Matters

The following three issues were published during 2011:

Pharma futures, Volume 4(1); April 2011

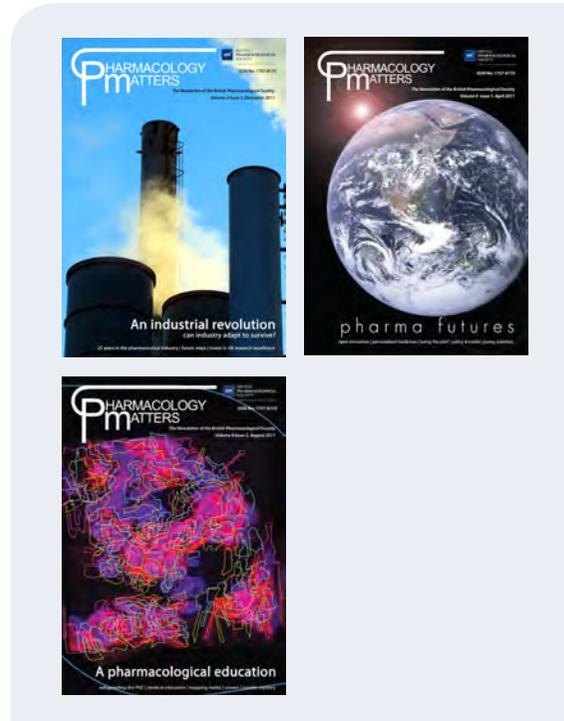
An industrial revolution is underway, the pharmaceutical industry is in transition, and to quote (sort of) Charles Darwin it is those most adaptable to change that will survive. This issue looked at the blurring of traditional boundaries between academia and industry as drug discovery navigates the current economic turbulence.

A pharmacological education, Volume 4(2), August 2011

The BPS is committed to providing lifelong learning support for not only pharmacologists and aspiring pharmacologists, but to anyone for whom an understanding of pharmacology would be useful. In order to provide this support, and encourage a first-rate learning environment, we are building resources to meet the demands and evolving needs of educators and students. This issue, highlighted not only what BPS offers in the way of educational resources, but presents an insight into the future of a pharmacological education.

An industrial revolution; can industry adapt to survive? Volume 4(3), December 2011

The state of UK science is rarely out of the headlines these days. This issue stressed the value of long term commitment and investment in the future of UK Pharma, and argued that the UK can maintain its strong position in world science if it evolves successfully.



Resources

Our Publications

<http://www.bps.ac.uk/publications>

BJP

[http://onlinelibrary.wiley.com/journal/10.1111/28\(ISSN\)291476-5381](http://onlinelibrary.wiley.com/journal/10.1111/28(ISSN)291476-5381)

BJCP

[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1365-2125](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1365-2125)

GRAC

<http://www.brjpharmacol.org/view/0/GRAC.html>

Pharmacology Matters

http://www.bps.ac.uk/details/publicationsPage/870753/Pharmacology-Matters.html?cat=bpspagepub2_pharmatters

Guide to pharmacology

<http://www.guidetopharmacology.org/index.jsp>

Structure Governance & Management

The Society's governing document is its Memorandum, Articles of Association, and Rules. In 1994, the Society became a Company Limited by Guarantee and therefore has no share capital. In the event of its winding up, the members' liability is limited to £1 each. At the Annual General Meeting on 16th December 2010, the members resolved by Special Resolution to adopt modern, revised Articles of Association (incorporating the Memorandum).

The Trustees are legally responsible for the overall governance, strategy, and direction of the Society. In terms of the Charities Act 2006, Trustees are accountable to the Charity Commission for ensuring that the Society's objectives as a registered charity are being met. The Trustees are also the Directors of the British Pharmacological Society. The Council of Trustees, which meets twice a year, comprises the President (Chair), President-Elect, Honorary Treasurer, Chairman of the Committee of Heads of Pharmacology, Chairman of the Heads and Professors of Clinical Pharmacology and Therapeutics, and four elected members (of whom at least one is from industry and one from the clinical section at the time of election). A full list of the 2011 trustees can be found on p37.

Elections to the Council take place each year at the AGM, and any paid up member of the Society, ordinarily resident in the UK, can stand. Trustees are elected to serve for periods of between three and four years, depending on office.

Trustee Induction and Training

A job description has been produced for Council members, which specifies the knowledge, skills, and attributes that are needed by the members. Trustee training is undertaken at regular intervals.

Executive Committee

Council has delegated responsibility to the Executive Committee to oversee the day to day operations of the Society. Members of the Executive Committee are the elected officers of the BPS, together with two members directly elected by the membership. The usual term of office for Executive Committee members is three years.

Committees and Working Groups

The Council (and Executive Committee) also have Committees and Working Groups, to whom powers are delegated. The Committees and Groups report back to Council directly or via the Executive Committee, depending on their constitution. Members of these Committees and Groups comprise both Council and/or Executive Committee appointments, together with other members. The Clinical Pharmacology Section Committee (which is a committee of the Executive Committee) manages the affairs of the Clinical Pharmacology Section. The Journals are managed by the Executive Management Committees of their Editorial Boards.

How the Society is Organized (Management)

The Council has ultimate responsibility for the Society's management, with the exception of those matters that must be decided by a general meeting of the members. The Council focuses on strategy and the Executive Committee is delegated the responsibility for the general management of the Society's activities. The Trustees employ a Chief Executive, who is responsible for executing the decisions of committees and sub-committees and for the day to day management of the Society's resources, including the other employees and the Angel Gate building. At 31 December 2011 we had 11 full time staff and utilized the services of specialist consultants as required. The current staff and their respective job titles can be found on p39. The Chief Executive reports back to Council and Executive Committee on performance against the objectives of the BPS.

The Society benefits from a great deal of voluntary work by its members in the organization of meetings, editing, and refereeing of manuscripts, service on committees and panels, and many other activities.

The Society participates actively in the wider biosciences community, both in the UK and internationally, through a variety of activities, including collaborative funding of research and education initiatives and the hosting of scientific meetings.

Structure Governance & Management

Risk Assessment

The Trustees regularly review the risks to which the Society is exposed, particularly activity, operational, and financial risks, and ensure that procedures and reporting regimes to manage and reduce any identified risks are in place.

The prime risk to which the Society is exposed continues to be financial, particularly in respect of the income from our journals. This risk is the predominant determinate of the level of free reserves held by the Society pursuant to its Reserves Policy.

Donors during 2011

We are most grateful to the following organizations for donations to support our various activities, including meetings, journals, prizes and training courses: Actelion, Abbott, ADInstruments, Echo Pharmaceuticals, Ellegaard Göttingen Minipigs A/S, Gilead, GlaxoSmithKline, GW Pharma Ltd, Heptares, MedImmune, Pfizer, STI Pharmaceuticals, The University of Oxford - Department for Continuing Education, TSE Systems, and Wiley Blackwell.

Exhibitors during 2011

Ascent Scientific
BMGRP
Buxco
Cambridge Bioscience
Cisbio Bioassays
DMT A/S
DSI UK
Elsevier
Ellegaard Göttingen Minipigs A/S
Guide to Pharmacology
Moor Instruments
Radnoti Ltd
STI Pharmaceuticals Ltd
Tocris
TSE Systems
Wiley Blackwell
World Precision Instruments

Professional Advisers

Bankers: Cooperative Bank plc

Solicitors: Messrs. Boyes Turner

Auditors: French Duncan LLP (Chartered Accountants & Registered Auditors)

VAT Consultants: Haslers (Chartered Accountants)

Investment Managers: Brewin Dolphin

Council 2011



President
Professor Ray Hill



President-Elect
Professor Phil Routledge



Honorary Treasurer
Professor Daniel McQueen



Co-Chair CHOPT
Professor Ian Kitchen



Co-Chair CHOPT
Professor Donald Singer



Elected Trustee
Professor Helen Cox



Elected Trustee
Dr Mark Christie



Elected Trustee (Clinical)
Professor Emma Baker



Elected Trustee (Industry)
Dr Ann Hayes



Co-opted Trustee
Professor Ann Daly



Co-opted Trustee
Dr Christine Williams



Trustee
David O Douglas

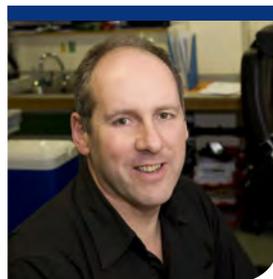
Executive Committee 2011



Vice-President Meetings
Dr Robin Hiley



Vice-President
Academic Development
Professor Nick Goulding



Vice-President
External Affairs
Professor Christopher Garland



Vice-President Clinical
Dr John Thompson



Editor-in-Chief BJP
Professor Ian McGrath



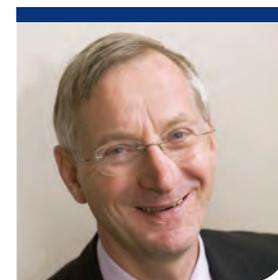
Editor-in-Chief BJCP
Professor James Ritter



Chairman of the
Clinical Section
Dr Peter Jackson



Elected Member
Dr Mike Curtis



Elected Member
Dr Martin Todd



Co-opted (Chair of
Young Pharmacologists
Committee)
Professor Jane Mitchell

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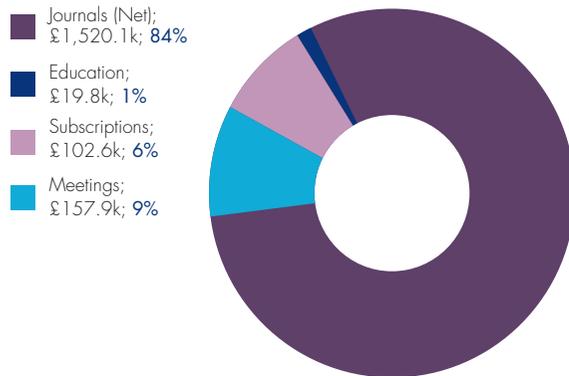


Accounts Administrator
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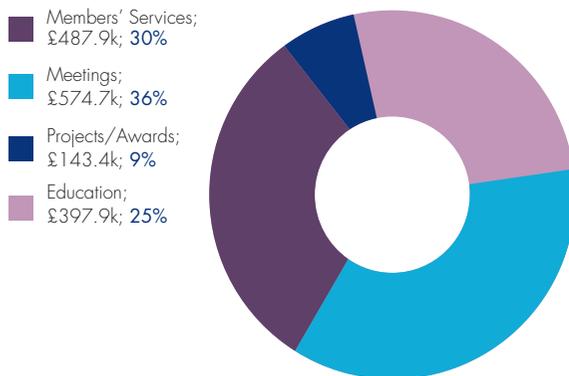


Financial Review

This review compares the finances for the 12 months to 31 December 2011, with the 12 month period to 31 December 2010.



Incoming Resources (including net publishing income)



Charitable Expenditure (excluding publishing costs)

Unrestricted Funds - Result for the year

The Society's "unrestricted" charitable activities (excluding investment transactions) for the 12 month period to 31 December 2011 resulted in a surplus of £328.6k (see "NET INCOMING RESOURCES / (RESOURCES EXPENDED) BEFORE TRANSFERS" in the Statement of Financial Activities), compared with a surplus of £384.2k for the previous 12 month period to 31 December 2010. The result reflects the very positive performance from publishing activities and improved containment of costs.

Income & Expenditure

The charts show the income and expenditure for the period (after netting the income and expenditure on publishing activities). Inclusive of publishing activities, the Society spent £2,774.8k gross (2010: £2,583.3k) on its charitable activities, a little over 89% (2010: 87%) of its incoming resources of £3,103.4k (2010: £2,967.5k). In addition, a transfer of £5.2k was made to Restricted Funds in respect of donations to the *In-Vivo* Teaching initiative (£5.0k) and the J R Vane Medal Fund (£0.2k).

Publications

The British Journal of Pharmacology and the British Journal of Clinical Pharmacology continue to provide the substantive portion of the Society's unrestricted funds. The net income for the period under review (£1,520.1k) compares favourably with that for the 12 month period to

31 December 2010 (£1,485.7k). Both journals continue to maintain enviable renewal rates and in the period under review, 4,855 institutions accessed the journals via the Publisher's licensed sales programmes. As in 2010, the financial result for 2011 reflects further gains from subscription revenues which increased by approximately 4% for both journals during the period under review.

Education Activities and Scientific Meetings

Our Winter Meeting 2011, a joint meeting with the Chinese Pharmacological Society, was a resounding success and for the first time, a registrant waiting list needed to be introduced. Overall, the Society delivered seven scientific meetings to 1329 delegates, with four of the meetings involving collaboration with other groups and societies.

The Society also supported international pharmacology through its grants to EPHAR and the New York Academy of Medical Sciences. The Society provides grants to EPHAR to enable it to hold meetings and educational activities and also contributed funding to Sense About Science, among others. In addition, funds were allocated to our increased public outreach programme, science festivals and the Department of Health's *Prescribe* initiatives.

Unrestricted expenditure on educational activities during the period was £397.9k (2010: £316.3k) including

Financial Review

grants totaling £313.5k (2010: £269.5k) to institutions, and £27.3k (2010:£25.7k) of prizes to science and medical undergraduates.

Bursary grants to individuals totaled £94.7k enabling 104 members to participate in BPS and third-party educational activities.

Society Members continue to enjoy free access to the Society's main meetings and thus revenue derives mainly from non-member registration fees and fees for focused meetings, trade exhibitions and sponsorship. Promulgating excellent scientific research by running high quality scientific meetings is one of the Society's prime objectives. Providing access to such meetings at zero or subsidised cost continues to be a key element of the Society's financial strategy.

Members' Services

Income from membership subscriptions continues to reflect our relatively stable membership portfolio. Total expenditure on services for members in the period under review was £487.9k (2010: £465.3k). Corporate subscriptions to other organizations remained at approximately the same level to those paid in 2010.

Other Costs

Central Office overheads not directly attributable to other activities were in line with expectations and there were no extraordinary expenditure items. Governance costs showed a decrease over 2010 as there was no professional costs associated with the now completed review of the Society's constitutional documents.

Investment Performance

The period to 31 December 2011 was a relatively negative period for our investments when early gains were lost primarily due to instability in the Euro markets in the fourth quarter, resulting in a net loss of £177.1k, compared to net gains of £277.2k in the 12 months to 31 December 2010.

In 2011 we continued our investment strategy and worked with our Investment Manager to ensure the Liquidity Fund met the requirements of our Reserves Policy. Since 1 June 2010 our investments have been split into a Liquidity Fund and a separate Growth Fund. Since the split, the Growth and Liquidity Funds portfolios are measured against the APCIMS (Association of Private Client Investment Managers and Stockbrokers) Balanced and the FTSE Government All Stocks benchmarks respectively. In the period since the portfolios were restructured, these rose by 0.2% and 15.9% respectively, whilst the FTSE 100 Index of Leading Shares fell by 5.7%.

Restricted Funds

Our restricted fund balances remain wholly adequate to support current levels of commitments and liabilities. The largest tranche of restricted funds supports the Integrative Pharmacology Fund which in turn promotes research and training in integrative pharmacology. Major donations during the period (£167.4k) resulted from industry support for the Society's *in-vivo* educational activities and government support for the development of e-learning initiatives for medical students.

Balance Sheet

After accounting for the movements detailed above, the Balance Sheet continues to evidence that the Society has the financial resources required to meet its charitable objects.

Reserves Policy

The Trustees have examined the Society's requirements for free reserves in the light of predominant risks to the Society. These are identified as loss of income from our journals and forward financial commitments to planned Scientific Meetings. In 2009, a decision was taken that the target reserve level should be revised down from four to two years working capital. The Society estimates that it might need two years' working capital (excluding journal activities), to allow for the development of new initiatives (where it would incur significant expenditure in advance of anticipated income). As at 31 December, the ratio of free reserves to annual working capital exceeded the optimum level as a result of cash inflow from our publishing activities – this cash will be utilized for charitable and operational activities in 2011.

Investment Policy

The Society's investments are managed on a fully discretionary basis by Brewin Dolphin Securities.

The current investment strategy is designed to underpin the Society's free reserves requirement, by providing a buffer against sudden loss of income, pending restructuring to a revised, balanced budget, from its traditional activities. We also need to invest to meet

Financial Review

medium/long-term liabilities which may arise from our usual activities, to hedge against future inflation and to provide for major capital expenditure items.

In the period under review and with guidance and assistance from its Investment Manager, the Society continued to review and restructure its invested assets to provide long term growth and income (from a balanced, diversified, medium risk weighted, portfolio); and liquidity (from a portfolio including UK and foreign bonds, government securities and cash).

Public Benefits Test

The Trustees confirm that they have complied with the duty in Section 4 of the Charities Act 2006 to have due regard to the Charity Commission's general guidance on public benefit "Charities and Public Benefit".

The Society is the primary UK learned society concerned with research into drugs and the way they work. The Society's activities support the education of scientists, clinicians, university and school students, the general public and the dissemination of research in pharmacology and clinical pharmacology. Pharmacology is responsible for the discovery and successful use of hundreds of chemicals used in the treatment of disease and the relief of human and animal suffering, as well as contributing substantially to the success of the pharmaceutical and healthcare industries.

Honorary Treasurer's Statement

I was pleased on 1 January 2012, to have the opportunity to take over the role of Honorary Treasurer from Professor Daniel McQueen, who was instrumental in developing the Society's current financial strategy and ensuring our investments were substantially protected from the market turbulences in 2011; the Society owes him thanks for his contribution to its wellbeing. The Society's medium term financial strategy is to work within a budget which is determined by our contracted income. Budgets for charitable activities are bid for by our various operational committees and agreed by the Trustees. Expenditure within budgets is delegated to the committees who must account for both spend and value for money in subsequent budget rounds, and this regulated devolved budgetary process is now established and working very well. An overview of the Society's finances, including detailed management reports and cash flow summaries, is provided to the Trustees at regular intervals during the year, and the Finance & Risk Committee reports to the Trustees and Executive Committee on financial prudence, cost control, risk and maximizing efficiency.

I am very pleased to report the Society's finances remain wholly adequate for achieving its charitable objectives and our general funds (reserves) have recovered to very near the value "lost" in 2008 as a result of the fall in world financial markets ("credit crunch"). Markets remain uncertain and quite volatile, with structural budget

deficits in UK and USA a serious concern, so we must continue to take a cautious approach with respect to our expenditure and investments in the short-medium term. Thanks to the outperformance from publishing activities, our charitable expenditure amounted to a little over 89% of incoming resources and the excess revenue will be used to underpin a series of projects in 2012 which are aimed at: improving our ability to communicate with members and the wider community; attracting new members; promoting pharmacology as an education resource, and further developing the Society's services to industry, healthcare and education. We will continue to work with the Department of Health and others to provide e-learning initiatives for junior doctors and other healthcare professionals, especially as regards prescribing.

The improvements in our communication and development tools and initiatives in respect of industry liaison and clinical pharmacology will ensure that the Society continues to lead the field in services for pharmacologists and the wider community.

The Society continues to deliver quality and value for money services in furtherance of its charitable objects, brought about by the hard teamwork of volunteers and all the staff at Angel Gate. I am particularly grateful to Kevin Kearns (the Society's DCEO, Company Secretary and Finance Director) for all his hard work and excellent advice and guidance to the Finance & Risk Committee.

Financial Review

SUMMARY FINANCIAL STATEMENT

The financial information set out in this Summary Financial Statement is only a summary of information derived from the Charity's Annual Accounts. It does not contain additional information derived from the Trustees' Annual Report. It does not contain sufficient information to allow as full an understanding of the results and state of affairs of the Charity as would be provided by the full Annual Accounts and Report.

Members requiring more detailed information can obtain a full copy of the Charity's Annual Accounts and Trustees' Annual Report from the Society Office or from the Member Information section of the Society's website. Members who wish to elect to receive a full copy of the Annual Accounts for all future financial years should contact the Society Office.

Statement of the Independent Auditor to the Members of the British Pharmacological Society

We have examined the Summary Financial Statement for the year ended 31 December 2011.

Respective responsibilities of the trustees and the auditor
The Trustees (who also act as Directors of the Charity for the purposes of Company Law) are responsible for preparing the Summary Financial Statement in accordance with applicable United Kingdom law.

Our responsibility is to report to you our opinion on the consistency of the Summary Financial Statement with the full Annual Financial Statements, and its compliance with the relevant requirements of section 427 of the Companies Act 2006 and the regulations made thereunder.

We conducted our work in accordance with Bulletin 2008/3 issued by the Auditing Practices Board. Our report on the Company's full Annual Financial Statements describes the basis of our opinion on those financial statements.

Opinion

In our opinion the summary financial statement is consistent with the full annual accounts of British Pharmacological Society for the year ended 31 December 2010 and complies with the applicable requirements of section 427 of the Companies Act 2006, and the regulations made thereunder.

FRENCH DUNCAN LLP
Chartered Accountants and Registered Auditors

56 Palmerston Place
Edinburgh
EH12 5AY

STATEMENT OF TRUSTEES

The Auditor has issued unqualified reports on the full Annual Accounts and on the consistency of the Trustees' Annual Report with those Annual Accounts. Their report on the full annual accounts contained no statement under sections 498(2) or 498(3) of the Companies Act 2006.

Signed on behalf of the trustees by:

C R HILEY
Honorary Treasurer

STATEMENT OF FINANCIAL ACTIVITIES (INCORPORATING THE INCOME AND EXPENDITURE ACCOUNT) YEAR ENDED 31 DECEMBER 2011

	Unrestricted Funds	Restricted Funds	Total Funds Year to 31 Dec 11	Total Funds Year to 31 Dec 10
INCOMING RESOURCES				
Incoming Resources from generating funds:				
Voluntary Income		167,409	167,409	43,485
Activities for generating funds	2,934,531		2,934,531	2,835,095
Investment Income	120,6780	11,422	132,100	118,159
Other Incoming Resources	48,205		48,205	42,921
TOTAL INCOMING RESOURCES	3,103,414	178,831	3,282,245	3,039,660
RESOURCES EXPENDED				
Costs of generating funds:				
Investment management costs	(18,139)		(18,139)	(16,653)
Charitable Activities	(2,738,015)	(371,925)	(3,109,940)	(2,898,827)
Governance Costs	(27,245)		(27,245)	(27,245)
Other Resources Expended				
TOTAL RESOURCES EXPENDED	(2,774,781)	(371,925)	(3,146,706)	(2,942,725)
NET INCOMING/(OUTGOING) RESOURCES BEFORE TRANSFERS	328,633	(193,094)	135,539	96,935
Transfer between funds	(5,151)	5,151		
NET INCOMING/(OUTGOING) RESOURCES FOR THE YEAR BEFORE INVESTMENT ASSET DISPOSALS	323,482	(187,943)	135,539	96,935
Realised Gains/(Losses) on disposal of investment assets	(93,997)		(93,997)	(9,000)
NET INCOMING RESOURCES/(RESOURCES EXPANDED) (BEFORE REVALUATIONS)	229,485	(187,943)	41,542	87,935
Gains/(Losses) on revaluations of investment assets	(177,070)		(177,070)	277,174
NET MOVEMENT IN FUNDS FOR THE YEAR (carried forward)	52,415	(187,943)	(135,528)	365,109
<i>Brought Forward</i>	<i>52,415</i>	<i>(187,943)</i>	<i>(135,528)</i>	<i>365,109</i>
RECONCILIATION OF FUNDS				
Total Funds at 1 Jan 2011	4,856,947	1,092,990	5,949,937	5,584,828
TOTAL FUNDS CARRIED FORWARD	4,909,362	905,047	5,814,409	5,949,937

The Statement of Financial Activities includes all gains and losses in the year and therefore a statement of total recognised gains and losses has not been prepared. All of the above amounts relate to continuing activities.

BALANCE SHEET 31 DECEMBER 2011

	2011	2010
	£	£
FIXED ASSETS		
Tangible Assets	641,607	643,148
Investments	<u>2,965,052</u>	<u>3,266,525</u>
	3,606,659	3,909,673
CURRENT ASSETS		
Debtors	685,935	701,692
Investments	1,035,740	334,877
Cash at Bank and in hand	<u>1,349,150</u>	<u>2,115,423</u>
	3,070,825	3,151,992
CREDITORS: amounts falling due within one year	<u>(777,498)</u>	<u>(1,037,177)</u>
NET CURRENT ASSETS	<u>2,293,327</u>	<u>2,114,815</u>
TOTAL ASSETS LESS CURRENT LIABILITIES	5,899,986	6,024,488
CREDITORS: amounts falling due after more than one year	<u>85,577</u>	<u>(74,551)</u>
NET ASSETS	<u>5,814,409</u>	<u>5,949,937</u>
CHARITY FUNDS		
Unrestricted Funds	4,909,362	4,856,947
Restricted Funds	905,047	1,092,990
	<u>5,814,409</u>	<u>5,949,937</u>

These financial statements were approved and signed on behalf of the Trustees on 31 May 2012 by: [C R HILEY](#) Honorary Treasurer
Company Registration Number: 2877400

Our objectives for 2012

Future Developments

For the period 1 January 2012 to 31 December 2012 the Officers of the BPS and the Secretariat will work together to deliver efficiently high quality services to members and external groups, mapped against the Society's strategic objectives. This is to ensure the needs of pharmacologists (basic scientists, clinicians, regulators and industry-based scientists) are met as efficiently and effectively as possible. The objectives are:

1. To maintain and develop services for members by:

- conducting a widely-based membership survey in order to analyse and understand the needs of different member cohorts, and provide targeted benefits for each group
- enhancing online services for our journals through support for the Guide to Pharmacology, exploration of open access journals and a phased move to online only publication of BJP and BJCP
- further improving links between our journals and our meetings
- raising the profile, visibility, and ultimately the Impact Factor, of our journals
- developing the content and influence of our newsletter, Pharmacology Matters

2. To ensure the delivery of training and education in pharmacology through:

- provision of high quality scientific meetings, with attractive topic selections
- continued participation in the meetings of relevant external groups and by arrangement of joint meetings, maximising benefits to members and stakeholders
- mapping clinical, industrial and academic skills needs, and delivering effective and leading-edge educational courses for clinical and basic scientists including provision for CPD
- continued delivery and development of the Diploma in Advanced Pharmacology and its component workshops
- conducting a survey of the teaching of pharmacology at undergraduate and postgraduate level

3. To promote pharmacology as a scientific discipline by:

- building our portfolio of outreach initiatives through enhanced contributions to careers fairs, teachers' conferences, science festivals and other outreach events
- developing our online networking communities
- using our websites, the main www.bps.ac.uk and the specialised www.pharmacologynow.org, to promote careers in, and public understanding of pharmacology
- ensuring that the importance of pharmacology and the views of pharmacologists are fully represented in government and other policy consultations

4. To promote clinical pharmacology as a clinical discipline by:

- developing *Prescribe*, a web-based training tool for medical students and other health professionals with prescribing responsibilities
- working with the Department of Health's e-Learning for Health Initiative to deliver a Prescribing Simulator
- working with the Medical Schools Council and other stakeholders to develop a national Prescribing Skills Assessment for all final year medical students
- encouraging training and appointment within Universities and the NHS of clinical pharmacologists to contribute to the delivery of healthcare, research, education in therapeutics and prescribing, and medicines policy at local, regional and national level

5. To develop collaborative activities with other societies in order to promote pharmacology and clinical pharmacology by:

- actively engaging with the Society of Biology in projects, including accreditation, education, outreach and science policy
- continuing the work of the Industry Committee (with the Society of Biology, Royal Society of Chemistry and Academy of Medical Sciences) to promote the provision and understanding of pharmacology and clinical pharmacology in the pharmaceutical industry
- developing and extending links with sister societies nationally and internationally