

Institution: Edinburgh Napier University

Unit of Assessment: UoA 3: Allied Health Professions, Dentistry, Nursing and Pharmacy

a. Overview

Organisation: The majority of the research within the Faculty of Health, Life and Social Sciences (FHLSS) at Edinburgh Napier University is being submitted to two Units of Assessment (UoA) in the Research Excellence Framework (REF) 2014: UoA 3 and UoA 7 (Earth Systems and Environmental Sciences).

The Faculty has 10 Professors (Brown, Darlison, Donaldson, Elliott, Huxham, Karatzias, Kennedy, Kilbride, G. Smith and Tangney) and six Readers (Barlow, Chouliara, Cruickshank, Diele, Florida-James and Rae); three of these posts (Chouliara, Diele and G. Smith) are new, as is a Principal Research Fellow (Hanley), and 11 have been promoted internally. Not all Professors are engaged in activities that fit within UoA 3; the work of Huxham and Tangney forms part of our UoA 7 submission, and others have expertise in commercial activity and education. There are also a number of Early Career Researchers (ECRs), six of whom are being submitted here (Fraser, Gray, Leggate, Murray, Stevens and Whittaker), who are supported by the Professors and Readers, reflecting our commitment to developing research careers at a senior level from within the organisation, while recognising the value of introducing research leaders from outside the institution.

The University has made the strategic decision to submit only staff who we believe have published outputs of excellent quality. This is a University-wide decision, but it was also taken in the knowledge that our submissions to Research Assessment Exercise (RAE) 2008, to Nursing and Midwifery (UoA 11) and Allied Health Professions and Studies (UoA 12), lacked focus (34 full-time equivalents (FTE) in total were submitted), which resulted in a long 'tail' of unclassified and 1* and 2* activity. This submission comprises 25 members of staff (24 Category A, and one Category C; equivalent to 22.2 FTE). Since RAE 2008, significant efforts have been made to focus the UoA's research in areas that are applied, relevant to the Scottish and United Kingdom (UK) economies, and the healthcare sector, and where we believe we have a nationally- and internationally-competitive edge.

The FHLSS comprises two large Schools: the School of Nursing, Midwifery and Social Care (SNMSC) and the School of Life, Sport and Social Sciences (SLSSS), and all research activity is embedded within these. Its activities are overseen by a Faculty Executive that comprises a Dean, a Director of Research, two Assistant Deans (one for Professional, Commercial and International Development, and one for Teaching, Quality and Student Experience), two Heads of School, a Head of Business and Administration, and a Human Resources Client Partner. The Faculty Director of Research (Darlison) is responsible for all aspects of research, including strategic decisions, which are taken in consultation with the Faculty Executive, the allocation of the Scottish Funding Council's (SFC's) Research Excellence Grant, 'T stream' (protected time for research within the academic staff workload), approval of research grant applications and, with the appropriate Head of School, research student registrations. A significant proportion of the Research Excellence Grant that the University receives from the SFC, is used to support ECRs and pump-prime new projects.

In December 2010, the whole Faculty moved to a new purpose-built, £60 million campus at Sighthill, in the west of Edinburgh. This investment also included some £1.3 million in new, state-of-the-art, equipment. The most obvious impact of this move is that the two academic Schools are now located together, with ready access to excellent, purpose-built, research laboratories and specialist clinical areas (see section d. below), which is stimulating more interdisciplinary partnerships. The recent restructuring of research into four overlapping themes (see below) has also provided more incentive for relationship building and collaborative working.

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Research themes: Research within the Faculty is organised into four overlapping themes: 'Biomedical Science', 'Health and Wellbeing', 'Human Performance' and 'Environment, Sustainability and Society' (see: <http://www.napier.ac.uk/faculties/health-life-social-sciences/research/Pages/home.aspx>). Staff are encouraged to collaborate across disciplines and where appropriate to align themselves with more than one theme. Each research theme has a Leader, who is responsible in association with the Director of Research for allocation of internal investment for research and ensuring sustainability. Commercial activity is also encouraged, and this is coordinated by the Assistant Dean for Professional, Commercial and International Development, the Head of Business and Administration, and the Director of Research. Commercial opportunities are sourced and communicated to researchers by an Innovation Manager and a Business Development Executive, who are supported by the University's Finance, Planning and Commercial Services department.

Although research in the Faculty is organised into four themes, the two Schools have their own specific areas of national and international expertise. For example, research in SNMSC encompasses Public Health, Long-term Conditions, Acute Care, and Nursing Education. The range of research activities in SLSSS is more diverse and includes work on efficacy testing of novel biocides, studies on human diseases such as polycystic ovary syndrome and ischaemia (stroke), the developmental origins of adult disease, toxicology and nanotechnology, and psychology and social science related to health. Work in the area of human performance links with that in biomedical science and researchers in the SLSSS have been collaborating for over a decade on pollution, exercise immunology and performance. There is also significant research activity in the area of environmental sciences, which is being submitted to UoA 7.

The School of Life, Sport and Social Sciences (SLSSS) also has two formal Research Centres: i.) the Centre for Nano Safety, which was opened in 2009 by Scotland's Chief Science Advisor, Professor Anne Glover, who is now Scientific Advisor to the European Union (EU) President, and which examines the impact of nanomaterials, used in new nanotechnologies; and ii.) the Biofuel Research Centre (BfRC), which is producing bio-butanol from waste and, in particular, waste from the Scottish whisky industry. The main objective of the BfRC is the commercialisation of its work. Activities carried out by the Centre for Nano Safety and the BfRC fall within the 'Biomedical Science' and 'Environment, Sustainability and Society' themes, respectively.

b. Research strategy

The Faculty's strategy states that it is: "... committed to supporting programmatic research that is collaborative, international, and multi-disciplinary, and which fits within the four themes of: 'Biomedical Science', 'Human Performance', 'Environment, Sustainability and Society', and 'Health and Wellbeing'. Our research will inform teaching, where it will not only inform the curricula but also drive programme development, enhance the employability of our undergraduates and postgraduates, and generate Intellectual Property that can be harnessed for commercialisation purposes. Through our research, which aligns with Scottish Government priority areas, we also aim to make a major impact on health, medicine, the environment and society". The strategy has been developed to be inclusive and in particular is aimed at supporting and developing ECRs. It aligns with two of the University's six strategic objectives: to be academically excellent; and to create, exploit and transfer knowledge. It addresses the SFC's expectation that research will be carried out in every Higher Education Institution in Scotland, aligns with national priorities, and is characterised by excellence.

Research excellence at Edinburgh Napier University is underpinned by a commitment to various benchmarks of good practice in research design and delivery, including the National Co-ordinating Centre for Public Engagement (NCCPE) Manifesto for Public Engagement, the European Commission's 'HR Excellence in Research' Award (which was gained in 2010), Vitae's Concordat to Support the Career Development of Researchers, and the Universities UK Concordat to Support Research Integrity. The University's research strategy exists to deliver investment directed to areas of demonstrable success, and emergent potential, and to maintain and enhance the University's position in the sector, which includes competitive PhD fee support. As the home of the

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East of Scotland's Knowledge Transfer Partnership (KTP) Centre, Edinburgh Napier is ideally placed to establish, develop and maintain strong research links with the healthcare sector, business and social enterprises of all shapes and sizes.

Investing in and valuing research: The Faculty's research strategy is to recruit and develop researchers at all levels from ECRs to Professors. Recent examples of externally-recruited staff include G. Smith (Professor), Chouliara (Reader), Hanley (Principal Research Fellow), and Aston, Fraser, Gray, Hoyle, Hellenbach, Kaliarntas, Leggate, Murray, Pow, Stevens, and Whittaker (ECRs). ECRs align with one or more of the research themes, and work collegiately with established researchers in these areas. Support and developmental mechanisms for these researchers are outlined in section c. below.

Conducting research that impacts on the world beyond academia: The UoA's four research themes align with the Scottish and UK Government's priority areas, and a significant proportion of our research is applied. This is particularly evident in the health arena, where our research on sexual health, psychological trauma, mental health and learning disabilities, and compassionate care has direct relevance. In the biomedical science area, work is also frequently applied in nature, with programmes on reproductive health, infection control and stroke, as well as collaborative work with researchers in the 'Human Performance' theme on improving athletic performance. We have also developed clinical researcher pathways, which include joint academic and clinical posts and PhD studentships. These are flexible and sustained arrangements, which allow researchers, at all levels, to maintain their links with practice. Our research strategy encourages researchers to develop a portfolio of activity based on commissioned and academic-led research. Researchers engage with key stakeholders so as to capitalise upon the impact of their research outside academia. This includes initiatives such as involving service users as co-applicants on grant proposals, public lectures and seminars, membership of National Health Service (NHS) and other influential committees, giving evidence to Government Select Committees, and meetings with practitioners, managers and patients, with the aim of implementing the outcomes of research to have impact within the wider community.

Conducting excellent research: The UoA's aspiration is that all of our research should have at least international significance and reach. This is achieved by developing partnerships with world-leading research institutes, either at an organisational or researcher-led level (for details, see section c. below). The Faculty has also recently invested in a new Professorial post (G. Smith), who is based in Hong Kong and who has a role in establishing research links with Hong Kong Universities, as well as in mainland China, Taiwan and Singapore. Collaboration is supported by the provision of state-of-the-art video conferencing and teleconferencing facilities, Conference and travel grants, sabbaticals and support for visiting researchers.

c. People, including:**i. Staffing strategy and staff development**

We appoint research-active staff by internal promotion, replacement of staff who have left or retired and attraction of researchers from outside the University. This applies at all levels, from ECRs to Professors. During 2010, our Human Resources policies and procedures for Recruitment and Selection, Equality and Diversity, and Interview Preparation were reviewed to ensure that they aligned with the Concordat Principles for equal opportunities for researchers. The University is also committed to the principles of Athena Swan, which promotes gender equality for women in SET (science, technology, engineering, mathematics and medicine) research. The University also hosts and provides funding support for the Scottish Resource Centre for Women in SET.

Staff development strategy: In 2010, Edinburgh Napier University received the European Commission's 'HR Excellence in Research Award'. In 2012, the University successfully retained this award for a further two years due to continued progress against its Concordat Action Plan. A Concordat Working Group has been created, which comprises researchers at a variety of career stages. This group reports directly to the University's Research and Knowledge Exchange Committee (RKEC), and provides a further route for communication between researchers and the University. The strategic approach to Effective Researcher Development, endorsed by the

University's RKEC, Research Degrees Assessment Board and Academic Strategy and Enhancement Committee (in 2011) proposed an integrated approach to researcher development across the University. This strategy takes an inclusive approach to the development of ECRs, to include research students, their supervisors, and established researchers. To support and implement the University-wide staff development strategy, a dedicated full-time Researcher Developer role has been established.

In 2011, the University developed a Researcher Development Programme that comprises events that map onto the Researcher Development Framework created by Vitae (www.vitae.ac.uk). Approximately 20 events are held each Trimester, including sessions on writing for publication, winning research funding, and developing public engagement activities, all tailored to our researchers. This fosters the research culture across the University by bringing researchers together to share best practice. The University has also increased online provision of resources, including topics such as induction, research ethics and integrity. Researcher Development Conferences on topics such as 'Supporting Researchers at Edinburgh Napier', and 'Fostering Interdisciplinarity in Learning, Teaching and Research at Edinburgh Napier', have also been held, and these are aimed at building research culture. Our achievements in this area have been recognised nationally through a Times Higher Education award, in 2010, for Outstanding Support for ECRs; this was awarded to the Universities Scotland Research Training Sub-committee, of which Edinburgh Napier University is a member.

Supervisor training and development: The University runs several dedicated sessions each Trimester for research supervisors. Our three-day 'Supervising Research Degrees' course has been formally recognised by the Staff and Educational Development Association (SEDA), allowing participants to gain an externally-accredited award upon completion of the course. New research supervisors also receive informal mentoring through participation in research student supervisory teams, allowing them to gain experience and, thus, growing supervisory capacity.

Research integrity and ethics: University-level and Faculty-level Research Integrity Committees, which meet four times a year, are charged with all aspects of research integrity and ethics, including the ethical review of research project proposals. The University has recently revised its Code of Practice on Research Integrity, and this is currently being 'rolled out' to all staff via Workshops. This provides advice on day-to-day ethical issues that our researchers may encounter, including authorship, ethical guidelines, informed consent, etc. The models and events described above promote delivery of the provision of generic and subject-specific skills across the University.

Protected time for research: Dedicated time for research is provided by a scheme called 'T stream'. Each year, individuals are encouraged to apply for an allocation that corresponds to up to 25% of their time. These bids must specify how the time will be used (for example, the writing of manuscripts, grant proposals, etc.), and also what was achieved with the previous year's allocation (if they received one). These are considered by a small committee of academics that is chaired by the Director of Research. To reward exceptional performance in any one year, the committee can grant an additional amount of 'T stream' (up to a maximum of 40%).

Other activities: A Research Away Day is held each year; our last meeting (held on 22nd July 2013) had presentations on Intellectual Property, KTPs, Horizon 2020 funding and Open Access Publishing. Time was given over to consider impact, and how this could be built upon for the next REF exercise. Theme Leaders hold regular meetings with their staff; in addition, regular (weekly in term-time) research seminars, research clinics and journal clubs are held for academic staff, postdoctoral workers and research students. The latter attend as part of their Professional Development Portfolio. A shared seminar programme is also organised by the four institutions involved in the Clinical Academic Research Career scheme (see below).

All staff are subject to an annual Professional Development Review (PDR), including a Personal Developmental Plan. Identified staff development needs are supported from School budgets. PDRs are carried out by an appropriate line manager, so that discussions can be had as to how

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best to utilise the researcher's 'T stream' allocation. Academics who do not have an advanced degree, can study part-time for a postgraduate qualification (for example, MSc by Research or PhD degree) and time in their workload is provided to encourage this. Tuition fees for such part-time study are covered by School budgets. Support for both ECRs and more experienced academics, is also provided by Research Support, who are proactive in encouraging and supporting applications to external funding agencies and who offer a complete 'pre-award' service to applicants. In addition, advice and support on EU funding (including Horizon 2020 funding) is provided by a dedicated Project Development Manager. A University Research and Knowledge Transfer Office also provides support in areas such as Intellectual Property, KTPs and commercialisation.

Finally, staff are encouraged to become involved in public engagement via the Beltane Public Engagement Network (see: <http://www.beltanetwork.org/>). The Beltane is supported by the four Edinburgh universities: Edinburgh Napier University, the University of Edinburgh, Heriot-Watt University, and Queen Margaret University. The Network builds on the work of the Edinburgh Beltane Beacon for Public Engagement project, which was one of six UK Beacons for Public Engagement funded by Research Councils UK, the Research Councils and the Wellcome Trust. The Beacons were established in 2008 to bridge the gap between researchers working at the 'cutting edge' and the people who are impacted by the research. The Faculty currently has one Beltane Fellow (Charles, who is a forensic psychologist); Claveirole (not submitted here) was also appointed as a Beltane Fellow in 2010 to improve public involvement in mental health issues.

Research collaboration within the Faculty: Researchers within UoA 3 collaborate not only across Schools, but also across disciplines. This is evidenced by the work of Aston (in SLSSS) whose work on addiction is closely aligned with that of Elliott and Whittaker (in SNMSC). The work of Cooper (SLSSS) on neuropsychology also fits with addiction and mental health (Katazias and Chouliara). Murray's (SLSSS) work on glucose facilitation of memory aligns with that of Kilbride (SNMSC; not submitted) on diabetes, and the developmental origins of glucose intolerance investigated by Rae (SLSSS). Dickson's research (SLSSS) on spinal cord trauma links to that of Kennedy (SNMSC) on pain relief and spinal cord compression. Leggate (a recent ECR appointment) and Florida-James are sports scientists whose research is directly linked to health - in particular cardiovascular health, exercise physiology and immunology. Florida-James has been instrumental in providing advice to British Olympic athletes (via UK Sport and British Olympic Associations) prior to their competing in the polluted atmospheres of Beijing (2004) and Athens (2008).

External collaborations: Researchers within UoA 3 collaborate with colleagues at the Universities of Bristol, Birmingham, Edinburgh, Glasgow, Leicester, Loughborough, Manchester, Newcastle, Imperial College London and University College London. Many also work internationally, for example, Barlow is collaborating on development of novel anti-influenza treatments with the United States Centres for Disease Control and Prevention, and the University of Edinburgh. He also works with academics in the Centre for Nano Safety. Rae collaborates with colleagues at the University of Edinburgh, assessing and understanding the impact of the intrauterine environment in the pre-programming of health in offspring in later life. He has also established links with Murdoch University, in Australia, to develop better assessment of the reproductive status of endangered Australian species. Elliott collaborates with the MRC Public and Social Science Research Unit, in Glasgow, and colleagues at Harvard University, and the Burnett Institute, Melbourne, Australia, on families and young people. Hanley is part of an internationally-recognised team, which includes the University of Edinburgh and leads on research in 'tele-health'. Darlison has recently turned his attention to unravelling the molecular events that occur following ischaemia, with the vision of developing novel treatments for stroke patients; he collaborates with researchers at the University of Leon, in Spain. Florida-James continues to collaborate with staff at the University of Houston, in the area of exercise immunology.

Clinical-academic career pathways: Edinburgh Napier University has an excellent relationship with the NHS and this has facilitated researchers in the NHS working with us in developing joint posts, which meets their needs as practitioners and researchers. Thus, we have developed a number of

joint posts (ENU and the NHS) which allow staff to continue with their clinical commitments, while developing their research careers. These include two posts at Professorial level (Karatzias and Brown), a Principal Research Fellow at Reader level (Hanley) and one Postdoctoral Fellow. During the assessment period up to REF 2014, research in FHLSS was also supported by the Centre for Integrated Health Care Research (CIHR). CIHR was established, at a cost of £2.9m, by the SFC, and was one of three consortia set up in Scotland to develop research capacity and capability in Nursing, Midwifery and the Allied Health Professions. It comprised Edinburgh Napier University, Queen Margaret University and the University of Edinburgh, three health boards (NHS Lothian; NHS Borders, and NHS Lanarkshire) and was supported by the Chief Scientist's Office (CSO). A total of £549,000 was invested in Edinburgh Napier by the end of 2010.

Clinical academic research career (CARC) scheme: Since RAE 2008, we have led the development of a programme called the CARC scheme, which provides practitioners from the NHS with the opportunity to either undertake a PhD or develop their postdoctoral skills. This scheme developed out of the relationships that were built up through CIHR and is supported by the NHS and three Universities (Edinburgh Napier, University of Edinburgh and Queen Margaret University). The CARC scheme has sustained one postdoctoral fellow and a PhD student in each University and targets health issues that are of strategic importance to the NHS and where there already existed research expertise and capacity in each institution. At Edinburgh Napier University, this expertise was in Public Health (Addictions).

ii. Research students

This Unit had 29 PhD completions during the REF reporting period. Since RAE 2008, the Faculty's research population has grown steadily and we currently have approximately 90 research students in total. All students initially register for a generic research degree and depending either on progress or the student's wishes, subsequently transfer to either an MSc by Research, MPhil or PhD degree programme. Each student has a Director of Studies, usually supported by one or two other academics and where applicable, clinical supervisors are encouraged. Within six months (full-time) or nine months (part-time) of registration, research students complete a project proposal and progress is monitored through regular progress reviews. Students are encouraged to take advantage of the Research Postgraduate Grant awarded by the SFC, which supports their attendance at conferences, workshops, etc. This budget is held by Faculty Director of Research who allocates funding to students on a case-by-case basis.

Each year, the Faculty Director of Research provides funding for the Postgraduate Research Student Conference, at which all research students are expected to attend and to which academic staff and external speakers are invited. This full-day event is organised by a team of students who are responsible for organising all aspects of the event (including venue, registration, programme and catering). All students must present at this annual conference three times during the course of their PhD studies (one poster presentation and two oral) in an environment akin to that of a large international symposium. In addition, PhD students usually attend and present at one or two external conferences during their period of study. The Faculty Research Degrees Coordinator is the first point of contact for all research students and supervisors and is the Chair of the Research Degrees Management Group. She organises Faculty-specific seminars on topics such as literature reviewing, the conceptual development of a thesis, qualitative and quantitative research methods, statistics, and research ethics. All research students have full access to electronic library and research facilities, their own desk space and computer (desktop or laptop).

d. Income, infrastructure and facilities

Income: The external research income generated by UoA 3 in the reporting period for REF 2014 is £3.72 million, compared with £2.07 million in RAE 2008. This shows very strong growth, with an increase of almost 80% compared to the last reporting period. Since 1st January 2008 large grants have been captured from a number of sources, such as the Medical Research Council (Rae), the CSO (Hanley), the Scottish Government (Karatzias, Brown, Elliot and Kennedy), the National Institute for Health Research (Elliott), the EU (Hutchison), charities (the European Respiratory Society, the Carnegie Trust, and the Nuffield Foundation), the Department for

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Environment, Food and Rural Affairs (DEFRA; Hutchison), as well as grants for KTPs. In this time, the Faculty has contributed £100,000 to the CARC scheme, to which the NHS has invested a further £0.5 million. As a Faculty we have also recently used £0.5 million of external funding to support eight new fully-funded PhD studentships. In addition, during the REF 2014 assessment period, the FHLSS has generated some £2 million of commercial revenue, some of which has been used to support research by providing specialist equipment. Taken together with the 29 PhD completions in this UoA, this indicates a strong increase in research activity and the necessary financial income to underpin it and ensure its sustainability.

Our membership of the Centre for Integrated Health Care Research significantly strengthened our nursing research base. It provided a total of £370,000 for 23 pump-priming studies, eight of which focussed on our key areas of research strength, namely, Public Health (children and young families, and addiction), Enduring Conditions (cancer care, mental health, and diabetes) and Acute Care (wound care), totalling approximately £120,000 of funding awarded to researchers in this UoA. It also created three postdoctoral research posts and six PhD student positions - one postdoctoral worker and two PhD students were supported by Edinburgh Napier University. In addition, CIHR attracted some £4 million in externally-funded research grants of which £2 million was gained by researchers at Edinburgh Napier between 2005 and 2010. It also provided funding to nursing and non-laboratory based allied health professional (NMAPH) researchers to disseminate their work at scientific and clinical meetings internationally.

Infrastructure and facilities: Edinburgh Napier University opened its new £60 million campus in December 2010 as the home of the FHLSS. This building complex provides modern, purpose-built, teaching and research facilities for nursing and the allied health professions, including biomedical science and sport and exercise science. It has dedicated space for molecular biology, tissue culture, microscopy and histology, as well as a dedicated room for safely handling nanomaterials. In addition, the Faculty has an animal facility and general shared research laboratory space, which encourages researchers to communicate and fosters collaboration. There is also dedicated space for sport and exercise science researchers, including a physiology laboratory that is equipped for taking and analysing blood samples, a state-of-the-art environmental chamber, a biomechanics laboratory (the largest of its kind in Scotland) and a 12-camera three-dimensional motion capture system and kinetic force plates. The excellence of these facilities is recognised by external governing bodies. For example, we hold contracts with Scottish Cycling and are recognised as the official Scottish golf biomechanics partner of the Royal and Ancient Golf Club of St Andrews (the world governing body of golf). Research is supported by two dedicated technicians. A further 17 technicians and laboratory assistants oversee the prep rooms associated with each of the various teaching and research laboratories. The Sighthill campus also has modern Information Technology and library facilities that use the latest digital technology and which can be accessed by staff and students from anywhere in the world.

e. Collaboration or contribution to the discipline or research base

Staff in UoA 3 make significant contributions to the nursing, health-related and biomedical science disciplines through a wide range of activities, other than publications in peer-reviewed journals. For example, Cetnarskyj is an invited affiliate member of the Innogen (Innovation Generation in the Life Sciences) Institute at the University of Edinburgh, which explores the social and economic impact of innovation in the life sciences. She is also Chair of the Scottish Genetics Education Network (ScotGEN; since 2008). Chouliara is an Honorary Fellow in the School of Health in Social Science, at the University of Edinburgh (since 2011) and is currently a Visiting Associate Professor at the Hong Kong Polytechnic University. She holds a number of external memberships of psychological societies and working groups, such as the British Psychological Society (BPS) - Scotland Child Sexual Abuse Survivors Working Party (BPSSS; since 2007) and the Care of Burns in Scotland (COBIS) Managed Clinical Network (since 2011). She is Assistant Chief Supervisor for the Health Psychology Qualifications Board, nominated to the Qualifications Standards Committee (2012) and is Chair of BPS - Scotland (since 2012). In addition, she is a member of the Editorial Board of the *Journal of Clinical Research and Governance* (since 2013). Darlison has acted as an International Panel Member for the Research Council of Norway, which

required attendance at panel meetings in Oslo (2008). From 1994-2011 he was a member of the Editorial Board of the journal *Cellular and Molecular Neurobiology* and was an Associate Editor of this journal from 2011 to 2013. He is Edinburgh Napier University's lead (since 2010) for an EU-funded programme 'Kosovo Interdisciplinary Knowledge Triangle Center' (with the University of Ghent and the Medical University of Vienna), aimed at developing a PhD programme and research infrastructure at the University of Prishtina, in Kosovo. In 2013, he was elected a Fellow of the Society of Biology. From 2005 to 2010, Elliott was the Programme Lead at CIHR. In 2008, he joined the Scottish Advisory Committee on Drug Misuse, which advised Scottish Ministers on research priorities required to deliver the new drugs strategy. In 2013, he gave evidence to the Health and Sport Committee, Scottish Parliament, enquiry into teenage pregnancy, which explored what further action may be required to ensure that young people at risk of pregnancy (or who have a baby when they are very young) are able to gain access to appropriate support and services. In 2013, he was appointed Associate Editor for the *Journal of Psychiatric and Mental Health Nursing*.

Florida-James was invited to present at the College of Sport and Exercise Medicine meeting, in London (in 2013) on 'Effects of air pollution on the immune response to exercise' and was recently appointed to the World Commission of Sports - Cycling Science Steering Group. Hanley was invited to speak at the E-health in Action workshop (jointly organised by the Scottish Government/Royal College of Nursing) in 2010, in Edinburgh, on 'The Telescot COPD (Chronic Obstructive Pulmonary Disease) Pilot Study' and in 2013 at the Royal Society of Medicine, Point of Care Testing Event, in Glasgow, on 'Telemonitoring in COPD: Telescot and all that'. Since 2008, Hutchison has been the University's lead member of the Safety of Nanomaterials Interdisciplinary Research Centre (SnIRC), which includes the University of Edinburgh, Heriot-Watt University, the University of Aberdeen, the Institute of Occupational Medicine and the Central Services Laboratory. He is a member of the UK Government's Hazardous Substances Advisory Committee, with a focus on nanomaterials (appointed in 2012) and is a member of the UK Steering Committee for NaNoREG, a common European Approach to the Regulatory Testing of Nanomaterials. He has also recently joined the Editorial Board of the journal *Nanomedicine and Biotherapeutic Discovery*.

Karatzias is an Honorary Research Consultant in Mental Health, NHS Lothian, Royal Edinburgh Hospital (since 2011) and a member of the following: the Economic and Social Research Council (ESRC) Peer Review College (since 2010), the College of Experts of the National Institute for Health Research (since 2008) and the Scottish Government National Reference Group for Survivors of Sexual Abuse (2008-2012). He is also a member of BPSSS, Chair of this Working Party (since 2008), and convenor of the BPSSS Research Group (since 2007). In 2010, Kennedy was a Visiting Professor at the University of Karlstad, Sweden. She gave a keynote address at the Queen's Nursing Institute Scotland Conference, in Glasgow, in 2012, on 'Lessons learned from the review of community health nursing in Scotland', and the keynote address 'Talking together, working together and learning together: improving end of life support and care' at the 3rd International Public Health and Palliative Care Conference in Limerick, Ireland (2013). Since 2012, she has been a member of the national review group for Palliative Care Core Competence Framework, Health Services Executive Ireland. She is also a member of the Editorial Advisory Board of *The British Journal of Community Nursing* and *The Open Nursing Journal*.

Rae is an elected member of the Council of the Society for Reproduction and Fertility, a UK-based international learned society and is currently an organiser of the World Congress of Reproductive Biology 2014. Finally, G. Smith is a Visiting Professor at Tzu Chi University in Taiwan and at Kiang Wu Hospital in Macau, Associate Editor of *Gastrointestinal Nursing* and is currently an Editor of the *Journal of Clinical Nursing*; he has also recently accepted the role of Editor-in Chief for the latter journal.