CURRICULUM VITAE

Stephen Woodward BSc (Hull) PhD (London) CBiol FSB

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Date of Birth:	05-June 1956	Place of birth:	Stoke-on-Trent,	. England			
WORK EXPERI	IENCE						
2013 –	Professor: pers	onal chair, Plant and So	oil Science, Institu	ute of Biological and Environmental			
	Sciences, Unive	rsity of Aberdeen					
2008 – 2013	Reader, School	of Biological Sciences,	University of Abe	erdeen			
2002 – 2004	Head of Agricu	lture and Forestry , Sch	ool of Biological	Sciences, University of Aberdeen			
2000 – 2002	Research Grou University of Al	p Leader , Plant Patholo perdeen.	egy Research Gro	up, Department of Agriculture and Forestry,			
1995 – 2008	Senior Lecturer	Senior Lecturer, University of Aberdeen.					
1989 – 1995	Lecturer (Fores	Lecturer (Forest Pathology and Urban Forestry), Department of Forestry, University of Aberdeen.					
1986 – 1989	Research Office	er , Oxford Forestry Inst	itute, Departmer	nt of Plant Sciences, University of Oxford.			
1983 – 1986	Postdoctoral R University of O	Postdoctoral Research Assistant, Oxford Forestry Institute, Department of Plant Sciences, University of Oxford.					
EDUCATION							
1979 – 1983		Wye College, Unive	ersity of London	PhD: Plant Pathology			
1974 – 1977		University of Hull BSc: Plant Biology and Zoology					

MEMBERSHIP OF PROFESSIONAL BODIES

Fellow of The Society for Biology (elected April 2012) British Society for Plant Pathology British Mycological Society Mediterranean Phytopathological Union

MAJOR RESEARCH FUNDING (>£10,000)

Year	Funding Body	Amount	Funding Type	Project Title	Collaborators
2018	Council for the	£270,000	Marie Skľodowska-	Pathogen-informed	Dr. L. Grenville-Briggs
	European		Curie International	Resistance to Oomycete	(SLU), Dr A-M.
	Community		Training Network	diseases in Ecosystems,	Vettraino (UNITUS) +
				Agriculture and Aquaculture	16 others
2017	ESCO-KIVU	£39,100	Studentship	Verticillium wilt of cocoa in	Dr E. Boa (UoA)
			support	DR Congo and Uganda	
2017	Cocoa Resarch UK	£21,500	Grant	_	
2014	BBSRC	£148,000	Grant	Promoting resilience of UK	Lead: S. Cavers (CEH
				tree species to novel pests	Edinburgh); multiple
				and pathogens	collaborators
2014	BBSRC	£338,000	Grant	New approaches for the	Lead: R. Mumford
				early detection of tree pests	(Fera); multiple
				and pathogens	collaborators
2014	EUPHRESCO	£99,000	Fellowship	Detection and management	P. Bonants (Plant
				of soil-borne pathogens in	Research
				the nursery trade	International, NL); E.
					Воа
2013	DEFRA	£305,235	Grant	Social and economic	UK Forest Research,
				analyses supporting the	FERA, Scion (New

				implementation of the Great	Zealand)
				Britain Dothistroma needle	
				blight strategy	
2013	Joint National	£116,305	Grant	Ash Dieback – impacts on	James Hutton
	Committee on			species which depend on, or	Institute
	Conservation			are associated with ash	
2012	DEFRA	£44,417	Scoping	Accelerated detection and	Several
				diagnosis of invasive alien	
				pests and pathogens in	
				imported plants	
2011	British Trust for	£10,000	Grant	Do birds vector	
	Ornithology			Phytophthora ramorum?	
2011	Forestry Commission	£35,000	PhD grant	Susceptibility of Scots and	
	Scotland			Lodgepole pine provenances	Dr Anna Brown,
2011	Scottish Forestry	£35,000	PhD grant	to Dothistroma	Forest Research
	Trust	,	0	septosporum.	
2010	Council for the	£11,000	Tender	Forest Disturbances Caused	BioIntelligence
	European	,		by Biotic Agents	Service (France):
	Community			,	BOKU (Austria)
2010	Council for the	£425.000	FP7 RTD	ISEFOR: Increasing	19 partners: SW
	European	-,	[coordinator]	sustainability of European	leads: L. Belbahri, J.
	Community		[00010	forests: Modelling for	Stenlid, P. Capretti.
				security against invasive	A. Vannini. I.
				pests and pathogens under	Nowakowska
				climate change.	
2010	Knowledge Transfer:	£114.235	Knowledge Transfer	Improving vields of	Marcel Jaspars
	BBSRC/Department	,00		nematodes for the control	(Chemistry): Becker-
	for Trade & Industry			of slug pests	Underwood
2009	Council for the	£130,000	FP7 RTD	BACCARA: Biodiversity And	Multiple; Aberdeen:
	European	,		, Climate Change, A Risk	A. Taylor
	Community			Analysis	,
2008	, Cooperation in	approx.	COST Action	Established and Emerging	Multiple. SW leads
	Science and	£400,000		Phytophthora:	•
	Technology	,		Increasing Threats to	I
	07			Woodland and Forest	
				Ecosystems in Europe	
2008	Council for the	£133,300	Marie Curie	SYBHES: Systems Biology of	Fellow: Guiliana
	European	,	Fellowship	the <i>Heterobasidion</i> -Spruce	Deflorio:
	Community			Interaction.	Marcel Jaspars, Mark
	,				Law, Carl Fossdal.
2008	British National	£60,000	Research grant	An Implementation Test on	Prof. David Miller
	Space Centre/UK		(scoping)	"Forest Species	(Macaulay Insitute);
	Forestry Commission			Discrimination. Disease	Dr A.D. Cameron. Dr.
	/			Indication and Canopy	M. Aitkenhead
				Closure"	
2008	Scottish Natural	£46,800	Studentship	The hazel gloves fungus in	David Genney (SNH);
	Heritage	+£6,000 ex		Atlantic hazel Woodlands	Brian Coppins
	0	Macaulav			(RGBE): Ian Andreson
		Institute			(Macaulay); Gareth
		+£6,000 ex			Griffith
		RBGE			(Aberystwyth)
2007	Bransby Home of	£78,611	Studentship	Common Ragwort in	. , , ,
	Rest For Horses		•	Pasture: Potential for	
				Biological Control Using	
				Fungal Pathogens	
2006	Australian Research	£92,700	Research grant	Linking environmental stress	Dr. C. Mohammed,
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2000	Council	[+£44,200 in kind]	Studentshin	in pine plantations to bark stripping by browsers and fungal attack: developing novel options for management	(lead, University of Tasmania); ENSIS; Forestry Tasmania; DPI, NSW; Prof P. Bonello, Ohio State University.
2006	Research Institute & University of Aberdeen	£59,422	studentsnip	involved in stabilizing sandy soils of the Machair	SCRI
2004	Forestry Commission	£40,800	Studentship	Distribution and biology of Anisogramma virgultorum on birch in Scotland.	Dr. Sarah Green, Forest Research, Roslin
2001	Council for the European Community	£291,650	Quality of Life Programme, RTD	Resistance of spruce to root and butt rot disease	SLU, Uppsala; IMGPF, Firenze; FRI, Norway; Skogforsk, Sweden; FRI, NAGREF, Athens.
2001	Council for the European Community	£120,850	Quality of Life Programme, Concerted Action	Modelling of <i>Heterobasidion</i> infection in European forests: a decision-support tool for the forest manager.	FC Research; Joensuu; FRI Thessaloniki; DiVAPRA Torino; FRC Vienna; Uppsala; INRA Nancy; Univ. Poznan.
1999	British Ecological Society	£80,000	Studentship + travelling expenses	Responses to damage affecting regeneration of dipterocarps in rainforests of Sabah	Dr. M.A. Pinard
1999	Malaysian Government	£27,469	Studentship	Invasion of wounds and decay of timber in logged dipterocarp forests of Malaysia	Dr. M.A. Pinard
1999	Scottish Forestry Trust	£24,680	Studentship	Distribution of <i>Peridermium</i> pini in north-east Scotland	Dr. D. Miller, MLURI
1997	Government of Taiwan	£55,000	Studentship	Molecular biology of resistance to <i>Heterobasidion</i> <i>annosum</i> in spruce	
1997	Scottish Forestry Trust	£15,000	Consumables	Molecular detection and identification of damping-off fungi in Scots pine forests	Dr. C. Leifert
1996	University of Aberdeen (Research Committee)	£27,000	Studentship	Damping-off fungi in naturally regenerating Scots pine forests	Dr. C. Leifert
1994	Council for the European Community	£128,000	AAIR Concerted Action	Heterobasidion annosum in European Forests: Prospects for Effective Control	Profs. J. Stenlid (Uppsala), R. Karjalainen (Helsinki), A. Hüttermann (Gőttingen)
1993	Scottish Forestry Trust	£36,081	Studentship	Fungal spoilage of kiln dried timber in Scottish sawmills	Dr. J.A. Petty
1993	University of Aberdeen (Research Committee)	£25,000	Studentship	Bacterial ecology of Sitka spruce stumps	
1991	Forestry Commission	£27,997	Studentship	Fungal ecology of Sitka spruce stumps	Dr. D.B. Redfern (Forestry Commission)

1991	Natural Environment	£15,265	Research Grant	Genetic fingerprinting of	Dr. K.R. Mitchelson
	Research Council			Peridermium pini	

OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

2014 – 2018	Vice Chair COST FP1406 Pine pitch canker - strategies for management of Gibberella Circinata in greenhouses and forests (PINESTRENGTH)
2014 – 2018	Management Committee member, COST Action FP1401 'Global Warning'
2014 – present	College of Life Sciences and Medicine 'Champion' for European Funding
2013 – 2015	Member of the Scottish Tree health Advisory Group
2012 – 2013	Member of UK Department for Environment, Food and Rural Affairs (DEFRA) Task Force on Tree Health and Plant Biosecurity (Chair: Prof. C.A. Gilligan, University of Cambridge)
2012 – 2013	Member 'Ash Dieback Expert Group', Government Office for Science (advising UK Government Chief Scientific Adviser, Prof. Sir John Beddington).
2011 – 2015	Management Committee member, COST Action FP1102: Determining Invasiveness and Risk of Dothistroma
2010 – 2014	Management Committee member, COST Action FP1002: Pathway Evaluation and Pest Risk Management in Transport
2008 – 2012	Chair COST Action FP0801 Established and Emerging Phytophthora: Increasing Threats to Woodland and Forest Ecosystems in Europe
2009 – 2012	External examiner for distance learning forestry degree programmes, University of Cumbria.
2007 – 2011	External examiner for forestry degree programmes, UHI Millenium Institute, Inverness
2007 -	Editor-in-Chief, Forest Pathology.
2007 – 2009	North East Scotland Agriculture Advisory Group, committee member
2005 – 2015	Trustee of the Scottish Forestry Trust
2001 – 2006	Management Committee, COST Action C15
2001 – 2003	Professional Development Committee, Institute of Biology, Scotland Branch
1999 – 2000	Universities representative (substitute) to Forestry and Arboriculture Training Council
1998 – 2003	UK Representative to International Society for Plant Pathology, Forest Tree Pathology Division
1997 – 2000	UK Representative to COST Action C3, Working Group 3
1994	Visiting scientist, Forest Health Management Centre, Karura Forest Station, Nairobi, Kenya
1993	Visiting scientist, Institute of Microbiology, Marie Curie- Sklodowska University, Lublin, Poland
1991	Visiting scientist, Department of Forest Mycology and Pathology, Swedish University of Agricultural Sciences, Uppsala, Sweden.
1987 – 1988	Member of Forest Research Co-ordinating Committee sub-group on tree physiology. (<i>Chairman</i> : Professor J.P. Cooper CBE FRS).
1985 – 1987	Technical Editor of Translations for Biomass News International.

Professional travel to: Australia, Belgium, Bosnia and Herzegovnia, Canada, Colombia, Croatia, Czech Republic, Estonia, Finland, France, Germany, Greece, Hungary, Indonesia, Italy, Ireland, Kenya, Lithuania, Malaysia (Sabah), The Netherlands, New Zealand, Norway, Poland, Portugal, Peru, Russia, Serbia, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Tanzania, Turkey, USA.

RESEARCH AND SCIENTIFIC WORK

RESEARCH EXPERIENCE: I have thirty nine years of experience in research, principally in plant pathology, with additional experience in plant tissue culture. This experience has included work towards my PhD, followed by nearly seven years in post-doctoral work prior to my appointment as lecturer in forest tree pathology at the

University of Aberdeen in 1989. Subsequently, I have carried out personal research and supervised postdoctoral fellows, doctoral, masters and undergraduate students in research.

RESEARCH PHILOSOPHY: The main goal of my research is to develop an in depth understanding of the interactions between microorganisms and plants, in terms of host defence against pathogens, and the macro- and micro-ecology of the environment in which the initial defence responses occur. I aim to apply the most up-to-date methods available to investigate these themes, including state–of-the-art chemical analyses (e.g. metabolomics; ionization mass spectrometry) and molecular biology techniques including metagenomics, to investigate microbial diversity and ecology to understand the host resistance response.

PRIMARY RESEARCH FIELDS: The physiology and ecology of plant–pathogen interactions. The main focus of my research is on fungi attacking roots, including *Phytophthora* spp., *Pythium* spp. and *Fusarium* spp. (primary roots), and *Heterobasidion annosum* and *Armillaria* spp. (secondary roots). Host species studied include *Pinus sylvestris*, *Picea sitchensis*, several broadlaved trees and various horticulture crops. Work on *Heterobasidion* has included investigation of the bacterial and fungal ecology of spruce stumps in relation to colonization by the pathogen, modelling disease development in relation to the application of control methods, and the physiology and molecular biology of host responses (resistance) to infection. To date, work on fine root pathogens has focused on the occurrence and ecology in semi-natural and plantation forests. Research has also included projects on rust diseases, cankers and foliar pathogens of trees.

Over the last 10 years, my work has focused on alien invasive pathogens that threaten woodland and forest ecosystems globally.

I have supervised a number of PhD students from tropical countries, in work on the occurrence and ecology of diseases in native forests of Sabah, Malaysia, and on genetic improvement of *Pterocarpus* in Zambia. Work on agricultural and horticultural crops focuses on Fusarium diseases of species including rice, tomato, gladiolus and maize. I am also involved in research on the use of white rot fungi, including *Trametes, Armillaria* and *Heterobasidion*, to degrade complex pollutants and for potential in phytoremediation.

SIGNIFICANT PUBLICATIONS: A number of my research publications have been highly influential in progressing our understanding of the biology of tree diseases:

- Papers on the response to root pathogens in Sitka spruce, published in 1988 (Woodward & Pearce, 1988: *Physiological and Molecular Plant Pathology* 33, 127-149; and *Physiological and Molecular Plant Pathology* 33, 151-162), particularly the first of these, established the significance of antifungal responses in the host tree against root pathogens.
- The publication by Kasuga *et al.* (1993: *Current Genetics* **24**:433-436) was the first paper of significance to report the use of molecular methods to distinguish European species of *Heterobasidion*.
- Work on ecological aspects of the multitrophic nature of host-pathogen responses are illustrated in several papers, including Johnson et al. (2003: *Oecologia* 134:388-396) Murray & Woodward (2003: *Forest Pathology* 33:53-67; 2007: *Forest Pathology* 37:217-235) and Woods et al. (2005: *Forest Pathology* 35:213-229; 2006: *Mycological Research* 110:854-868).
- Numerous papers on the development of new techniques for understanding tree-pathogen interactions, including:
 - Martin et al. 2005: *Tree Physiology* **25**: 1331-1338.
 - Deflorio et al. 2011. *Physiological and Molecular Plant Pathology* **75**:180-187.
 - o Deflorio et al. 2012. Analytical & Bioanalytical Biochemistry 402:3333-3343
 - Siebold et al. 2012. Analytical & Bioanalytical Chemistry **402**:3233-3331.
- Bodles et al. (2006: *Tree Physiology* **26**: 775-782) describes the use of real-time (quantitative) PCR to accurately quantify *Heterobasidion* in Sitka spruce; it is also the first paper to describe the quantitation of a fungus in living wood tissues of a conifer.

- Woodward et al. (2007: *Tree Physiology* **27**:1701-1710) demonstrates the use of morphological responses to infection and host monoterpenes components as markers for relative susceptibility of Sitka spruce to *Heterobasidion annosum*.
- Chavarriaga et al. (2007: *FEMS Microbiology Letters* **276**:67-74) provides evidence for the presence of the potentially highly damaging pathogen, *Phytophthora cinnamomi* in pine forests of northern Scotland. This pathogen represents a major threat to forest ecosystems in a time of increasing temperatures.
- Several publications (notably Maalej *et al.*, 2009; Khlifi *et al.*, 2009, 2010) illustrate the abilities of white rot fungi to degrade textile industry wastes; this work has been taken further, with UK isolates of *Armillaria* showing considerable promise in this field.
- Major contributions on peroxidases, proteases and ABC transporters to the Heterobasidion genome project (Olson et al. 2012. *New Phytologist* **194**: 1001-1013).
- In depth analyses of invasive alien pathogens threatening the integrity of Europe forst ecosystems (Santini et al. 2013. *New Phytologist* **197**: 238–250).
- Development of an ecosystem-wide analysis of the impact of invasive pathogens on biodiversity (e.g. Mitchell et al. 2014. *Biological Conservation* **175**: 95-109).
- Overviews of the impacts of alien invasives on biodiversity (e.g. Roy et al. 2017; Santini et al. 2018).

My most influential publication is the book (senior editor): Woodward *et al.* 1998: Heterobasidion annosum: *Biology, Ecology, Impact and Control.* CABI, Wallingford. Supported with EU funding that I obtained and coordinated, this monograph reviews all work published on *Heterobasidion* up to 1997, providing the background for all subsequent research. The book maintains a very high level of citation in the literature.

ACTIVITIES IN THE ACADEMIC COMMUNITY

Editor of Journals: Forest Pathology Editor-in-Chief (2007-present); associate editor (1998 – 2007); senior editorial board of *European Journal of Plant Pathology* (2010 – present) and *Phytopathologia Mediterranea* (2008 – 2017); *Journal of Plant Pathology* (1997-2007); *Ghana Journal of Forestry* (2006-). Advisory board *Folia Forestalia Polonica* (2010 – present).

Referee to Journals: Forest Pathology; Journal of Plant Pathology; Mycological Research; Mycopathologia; The New Phytologist; FEMS Microbiology Letters; Journal of Biotechnology; Plant Cell, Tissue and Organ Culture; Plant Pathology; European Journal of Plant Pathology; Plant Disease; Forest Ecology and Management; Journal of Eukaryotic Biology; Journal of Heredity; Forestry; New Zealand Journal of Forest Research; Scandinavian Journal of Forest Science; Journal of Tropical Forest Science; Annals of Botany; Annals of Applied Biology; Phytopathologia Mediterranea; Biomass and Bioenergy; Seed Science and Technology; Faculty of Forestry Records, Tanzania; BioControl; Chemosphere; Applied Biochemistry and Biotechnology; Canadian Journal of Forest Research; Physiological and Molecular Plant Pathology.

Referee for Research Funding Applications: Natural Environment Research Council (NERC); Biological and Biotechnology Sciences Research Council (BBSRC); National Science Foundation, USA (NSF); Norwegian Research Foundation; Portuguese Research Council (FCT); Scottish Executive Environment and Rural Development Department (SEERAD); Ohio State University; Polish-Swiss Research Programme; Swiss COST-support programme. EU Forestry funding Evaluator (2007-present). COST programme. Also acted as scientific auditor to completed EU RTD projects.

Conferences

Conference talks are listed in the publications (below). I have also chaired numerous sessions at conferences and helped to organize many sessions.

TEACHING and SUPERVISION

UNDERGRADUATE AND POSTGRADUATE TEACHING AND SUPERVISION:

Undergraduate and postgraduate taught courses to which I contribute/have contributed:

Level	Course	Role	Lecture/Tutorial Hours p.a.	Practical hours
Current	Teaching Commitments		•	
1	Plant Diversity	Lecturer	9	6
2	Plants, Humans and the Environment	Lecturer	4	0
3	Plant-Envirnment Interactions	Co-ordinator	36	4
4	Biology Honours Research Projects	Co-ordinator	n/a	n/a
Previou	s Teaching Commitments:			
1	Molecular Biology (Plant defence)	Lecturer	3	9
1	Sustainable Production	Lecturer	9	0
2	Plant Diversity	Lecturer	9	9
2	Dendrology (Tree Identification)	Co-ordinator	3	15
3	Introduction to Forestry	Lecturer	8	0
3	Arboriculture	Co-ordinator	40	8
3	Forest Protection I: Pathology	Co-ordinator	36	18
3	Tree Production	Lecturer	18	9
3	Forest Planning	Lecturer	12	0
3	Forest Management	Lecturer	12	0
3	Study Tour of Southern Britain	Co-ordinator	n/a	14 days
3	Biology and Ecology of Plant Disease	Coordinator	12	0
4	Urban Forestry Management Plan	Co-ordinator	n/a	12 days
4	Urban Forestry Overseas Study Tour	Co-ordinator	n/a	9 days
4	Special Topics in Forestry	Tutor	4	0
4	Biology and Ecology of Forest Health	Co-ordinator	40	8
4	Trees in the Urban Environment	Co-ordinator	40	8
4	Physiological Plant pathology	Tutor	8	0
5*	Arboriculture	Co-ordinator	40	8
5	Forest Protection	Co-ordinator	40	8
5	Trees in the Urban Environment	Co-ordinator	40	8
*.100011	E - taught Masters programme			

*: Level 5 = taught Masters programme

Supervision of Undergraduate Research Projects: Sixty seven undergraduate project students supervised between 1989 and 2018.

Supervision of Taught Masters Dissertations: Thirty one masters research dissertations supervised between 1992 and 2018.

Supervision of research students

Name	YEAR	TITLE
Istiaq Ahmed	Current	Multitrophic interactions in the rhizosphere of rice in determining susceptibility to <i>Fusarium</i> infections
Alexandre	Current	Impacts and management of Verticillium dahliae on potato in Rwanda
Rutikanga		
Aisha Al-Shatti	Current	Mechanisms of action of rhizosphere prokaryoties in plant disease reduction
Anne-Sophie	Current	Understanding the biology of Verticillium wilt of cocoa
Bouchon		
Mai Marefi	writing	Peroxidases in brown rot fungi.
Alexandre	2017	Quantitation of Oomycete plant pathogens in the plants for planting pathway.
Puertolas		
Faizah Alezi	2018	Enhancement of antibiotic effects in biological control using natural adjuvants.
Michelle Stamp	2016	Diversity of Oomycota in fresh and brackish-water habitats.

Stuart Fraser	2015	Variation in susceptibility of Scots and lodgepole pine provenances to Dothistroma
		septosporum.
Alexandra	2015	Degradation of mineral oil processing wastes by white rot fungi
Widdowson		
Adnan A. Lahuf	2015	Control of potato virus Y (SCRI)
Andrew Madigan	2014	Masters: Endophytic fungi in hardy woody Oleaceae.
Katie Grundy	2014	Ecological intereactions affecting the disctribution of hazel gloves fungus in the Atlantic Hazel Woodlands of Scotland
Susan Jarvis	2013	Fungal diversity in Scots pine forests
Aqeel N. Barbar	2013	Molecular biology of the potato-potato virus Y interaction (SCRI)
Sunday Popoola	2012	Arbuscular mycorrhiza-pathogen-host interactions in agroforestry systems.
Karen Pearson	2011	Root pathogens as potential biological control agents for common ragwort.
Walid Nosir	2010	Sustainable control methods for fine root pathogens in soil-less culture for Gladiolus.
M. Thorsen	2010	Fungal diversity and soil binding properties in the Machair environment.
N. Bouqellah	2011	Physiology of the <i>Brevibacillus brevis-Fusarium oxysporum</i> f.sp. <i>lycopersici</i> interaction on tomato roots
J. Mohd	2010	Responses to damage affecting the distribution and regeneration of dipterocarps in the rainforests of Sabah
H. de Silva	2008	Distribution and biology of Anisogramma virgultorum on birch in Scotland
E. Kasumu	2005	Genetic improvement of Pterocarpus angolensis
M. Sudin	2005	Invasion of wounds and decay of timber in logged dipterocarp forests of Malaysia
D. Moseley	2004	Peridermium pini in the Forests of North-East Scotland
D. Tsatzikis	2003	Targetted use of biological control agents against leaf and root pathogens
D. Chavarriaga	2003	Biological Control of Fine Root Pathogens in Forest Nurseries
T. Daggas	2002	Masters: Biological control of root disease pathogens in glasshouse crops of northern Greece
E. Brudi	2001	Masters: Longitudinal prestresses in Tilia cordata and Acer pseudoplatanus
W.J.A. Bodles	2000	Damping-off Fungi in Natural Regeneration of Scots Pine Forests
A.C. Murray	1998	Bacterial Ecology of Sitka Spruce Stumps in Relation to Fungal Degradation
C.M. Woods	1996	The Fungal Ecology of Sitka Spruce Stumps
C.J. Payne	1996	Fungal Spoilage of Kiln Dried Softwoods in Scottish Sawmills
T. Kasuga	1995	Molecular fingerprinting of pine, spruce and fir strains of Heterobasidion annosum
K.R. Spanos	1995	Clonal Propagation of Cupressus Species, and Resistance to Seiridium Canker
V.R. Nsolomo	1990	Masters: Use of cultured <i>Pinus</i> embryos to investigate resistance mechanisms against infection by <i>Heterobasidion annosum</i> and <i>Peridermium pini</i>

Postdoctoral Research Fellows and Research Assistants

Name	Years	Project	FUNDING SOURCE
Dr Amani	2017	Characterization of Ophiostomatoid fungi	COST Global warning STSM
Bellarich		associated with Platypus cylindrus in Tunisia	
Dr Tugba	2014	Distribution of elements in needles of Scots pine	COST DIAROD STSM
Dogmus		showing differential susceptibility to Dothistroma septosporum	
Dr Funda Oskay	2014	Population structure of <i>Dothistroma septosporum</i> in Turkey	COST DIAROD STSM
Dr Zuzana	2014	Histology of defence responses to Dothistroma	COST DIAROD STSM
Heckova		septosporum in needles of Scots pine	
Dr Mostafa Ezzat	2014-16	New approaches for the early detection of tree pests and pathogens	BBSRC/LWEC
Dr Marta Belka	2013	Which common woody Oleaceae are susceptible to Hymenoscyphus pseudoalbidus?	FRAXBACK COST Action (STSM)
Dr Jorge Martin-	2012	Influence of soil temperature on infection of holm	Spanish Government
Garcia		oak by <i>Phytopthora</i>	
Dr Eleni Siasou	2010-13	Increasing sustainability of European forests	EU Framework 7
Dr Colette Jones	2010-13	Increasing sustainability of European forests	EU Framework 7
Dr. Exildah Chisa-	2010-11	Genetic variation in the biofuel woody species	Commonwealth Scholarship
Kasmumu		Jatropha	
Dr Jenna Ross	2010-11	Improving yields of nematodes for the control of	BBSRC + Becker-Underwood

		slugs	
Dr H. Brangaça	2009-10	Impact of Phytophthora infection on fine root turnover in Scots pine	Portuguese Government
Dr P.W.H.K.P.	2008-09	Molecular biology of the poplar-rust-L-form	Commonwealth Scholarship
Daulagala		bacteria interaction	Foundation
Dr G. Deflorio	2008-10	Resistance of spruce to Heterobasidion	Marie Curie Postdoctoral Fellow
Dr S. Chandel	2005-06	Pathogen-bacterial interactions in the rhizosphere	Commonwealth Scholarship Foundation
Dr D.G. Moseley	2004-05	Resistance of spruce to root and butt rot disease	EU Framework 5
Dr M. de Roman	2005-07	Environmental control of carpophore formation in wild fungi	Spanish Government-funded Fellowship
Mr D.G. Moseley	2002-04	Modelling of <i>Heterobasidion</i> infection in European forests	EU Framework 5
Ms E. Beckett	2001-04	Resistance of spruce to root and butt rot disease	EU Framework 5
Dr W.J.A. Bodles	2001-05	Resistance of spruce to root and butt rot disease	EU Framework 5
Dr A. Jalsrai	1998	Lignin degrading systems of European intersterility groups of <i>Heterobasidion annosum</i>	Royal Society-Mongolian Academy of Sciences Fellowship
Dr W. Mulenko	1993	The role of plant pathogenic fungi in nutrient cycling in native pinewoods	CEC 'Go West' Fellowship
Dr E. Sanchez	1993	Use of <i>Trichoderma</i> for the control of sap-stain fungi	British Council-Spain Agreement
Dr Y.A. Spanos	1993	Impact of <i>Taphrina betulina</i> infections on growth of <i>Betula pubescens</i>	Forest Research Institute, Thessaloniki, Greece
Prof S. von Arnold	1986	Somatic embryogenesis in Picea sitchensis	Swedish Academy Fellowship
Dr P. Mathur	1986-87	Propagation of <i>Leucaena leucocephala</i> using <i>in vitro</i> techniques	British Council

Visiting research students from other institutions

NAME	Home Institute	YEAR	Project
B. Gaggosh	Arid Agriculture University, Rawalpindi, Pakistan	2016	Characterisation of <i>Fusarium</i> and <i>Alternaria</i> isolates from sesame in Pakistan.
Imen Cherak	University of Batna, Algeria	2013 & 14	Identification of canker-associated fungi on <i>Cedrus atlantica</i> in Algeria
M.R. Virdis	University of Sassari, Sardinia	2012-13	Modulating the response of urban trees to wounding using plant growth regulators.
M. Ristetski	University of Skopje, FYR Macdonia	2012	Molecular characterization of Phytophthora isolates from FYR Macedonia (STSM, COST Action FP0801)
D. Belo	Universidade Técnica Lisboa	2011	Oomycota communities in riparian systems in relation to surrounding land use
I. Bacceli	University of Firenze	2010-11	Characterisation of <i>Phytophthora</i> isolates from Aberdeenshire riparian ecosystems
M.P. Arena	University of Foggia	2010-11	Influence of rhizosphere micro-organisms on glycoalkaloid content in tomatoes
V. Martini	University of Firenze	2008	Terpenes as markers for susceptibility of mature Sitka spruce clones to <i>Heterobasidion</i> infection
E. Haramburu	ENITA, Bordeaux	2004	Molecular biology of Heterobasidion annosum
N. Souleti	Institute for Mediterranean Forest Ecosystems, Athens.	2004	Histopathology of wound periderm formation in <i>Picea</i> abies inoculated with <i>Heterobasidion annosum</i>
J.G. Martin	Polytechnic University of Madrid	2003	Histochemistry of resistance to Dutch elm disease in clones of <i>Ulmus</i>

N. Keca	Faculty of Forestry, 2 University of Belgrade	2003-04	Application of molecular methods to the identification of <i>Armillaria</i> species in the National Parks of Serbia		
L. Zamponi	Dipartimento 2002 Biotecnologie Agrarie, Universita degli Studi di		Molecular differentiation of <i>Heterobasidion</i> genets in a severely infected Sitka spruce stand		
E. Cilcustorial	Firenze, Italy				
E. Slivestrini	Genetics, Firenze, Italy.	2001	Heterobasidion infection		

Doctoral/Research Masters Theses Examined

External M. Petterssons	Date 2018	TITLE Christmas tree diseases, with emphasis on Phytophthora root rot & Neonectria canker of fir and Spruce in southern Sweden and north Carolina	Swedish University of Agricultural Sciences, Alnarp
K. Adusei-Fosu	2017	Improving the detection and control of <i>Fusarium</i> oxysporum f.sp. elaeidis	University of Nottingham
C. V. Supramaniam	2016	Molecular interaction of <i>Ganoderma boninense</i> on young oil palm	University of Nottingham Malaysia
S. Akhund	2016	Integrated management of mycotoxins in red chilli	Arid Agriculture University of Rawalpindi, Pakistan
P. Martinez Alvarez	2015	Environmentally friendly methods for the integrated management of pine pitch canker (PPC) disease	University of Valladolid, Spain
M. Mullett	2014	Dothistroma septosporum in the UK	Imperial College London
L.J. Cholerton	2014	Biological control of <i>Leptosphaera maculans</i> on <i>Brassica napus</i> and quantification of the microbes in planta using qPCR	University of Nottingham
Irfan Ahmad	2013	Characterisation of shisham (Dalbergia sissoo) against dieback disease in various ecological zones of Punjab	University of Agriculture, Faisalabad
J. Martin-Garcia	2012	Sustainable management of poplar plantations in Spain.	University of Valladolid, Spain
S. F. Navqi	2012	Development of a rapid diagnostic method for Xanthomonas campestris pv semame and screening of sesame germplasm for resistance	Arid Zone Agricultural University, Rawalpindi, Pakistan
Y. Nadeem	2011	Local and systemic defence responses in trees against pathogenic fungi: Differences revealed at the transcriptional level.	University of Life Sciences, Norway
C. Tellenbach	2011	Natural disease conrol by root endophytes in a changing climate	ETH, Zűrich
L. Lombard	2010	<i>Phylogeny and taxonomy of</i> Calonectria <i>and its</i> Cylindrocladium <i>anamorphs</i>	University of Pretoria
M. Hafeez Ullah	2010	Relationship between charcoal rot disease of sunflower and climatic factors, host resistance and management using biological control agents	University of Agriculture, Faisalabad
R. Hooper	2009	The role of stress and factors contributing to the decline of Eucalyptus wandoo in southwestern Australia	University of Western Australia
M.N. Sajid	2009	Quantification of leaf stripe and rust genes in wheat genotypes in relation to epidemiological factors	University of Agriculture, Faisalabad
N. Samils	2008	Monitoring the Control Methods of Heterobasidion annosum s.l. Root Rot.	Swedish University of Agricultural Sciences, Uppsala
M. Atiq	2008	Prediction of Citrus Canker Disease and its Management	University of Agriculture, Faisalabad
A. Ali Bokhari	2008	Studies on Guava Decline and Disease Management	University of Agriculture, Faisalabad
L. Belbahri	2008	Oomycete Plant Pathogens: environmental survey,	Habilitation Thesis, Technical

model pathosystems, pathogenicity and control University of Cor	npiegne
S. Swanwick 2007 Ecophysiology and production of the biocontrol Cranfield Univers	sity
agent Phlebiopsis gigantea.	
F. Ritchie 2006 Aspects of the biology, epidemiology and control of Scottish Agr	icultural Colleges/
Rhizoctonia solani (Kühn) on potato University of Gla	sgow
G. Reynolds 2006 <i>The vegetative propagation and early development</i> Imperial Colleg	ge of Science and
of dipterocarp cuttings Medicine, Univer	rsity of London
N. Jønk 2005 Defense responses in <i>Picea abies</i> against the KVL, Copenhager	n, Denmark
pathogenic fungi <i>Ceratobasidium bicorne</i> and	
A T McHugh 2004 Genetic transformation of Ulmus proceed SPA using University of Abe	artav Dundee LIK
renorter genes aus and afn by the Aarobacterium	ertay Dundee, OK
tumefasciens method.	
A. Eyles 2003 Wound responses of <i>Eucalyptus globules</i> and <i>E.</i> University of Tas	mania
nitens; anatomy and chemistry.	
R. Pilbeam 2003 Effects of phosphate on disease development and Murdoch Ur	niversity, Western
histological responses in <i>Eucalyptus marginata</i> Australia	
infected with Phytophthora cinnamomi.	
P. Maijala 2000 Heterobasidion annosum and wood decay: University of Hel	sinki, Finland
Enzymology of cellulose, hemicellulose and lignin	
E O'Gara 1998 Infection and disease of Eucalyptus marginata Murdoch Ur	niversity Western
(<i>Jarrah</i>) caused by Phytophthora cinnamomi <i>in</i> Australia	inversity, western
rehabilitated bauxite mines in the south-west of	
Western Australia.	
F. Raziq1998Biological Control of ArmillariaUniversity of Real	ading, UK
K.E. Jayasuriya 1994 Studies on Biological Control of Rigidoporus lignosus University of Edin	nburgh, UK
the Cause of White Root Disease of Rubber Tree	
(Hevea brasiliensis).	
J. West 1994 Chemical Control of Armillaria University of Rea	ading, UK
W. Lindberg 1991 The Resistance of Picea ables Bark to Heterobasidion Swedish Univer	sity of Agricultural
annosum Sciences, oppsai	d
M. Terho 2008 What was behind the bark? – A retrospective University of Hel	sinki Finland
assessment of decay among urban Tilia, Betula and	
	Sind, Finana
Acer trees felled as hazardous in the Helsinki City	
Acer trees felled as hazardous in the Helsinki City Area	
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M.B. Herold	2011	Significance of fungal and bacterial denitrification in arable soil	
D. Auty	2011	Modelling the effects of forest management on the wood properties and branch characteristics	
		of UK-grown Scots pine	
D. Lou-Hing	2010	Arsenic in rice: the role of phosphate in sensitivity and the genetics behind shoot arsenic.	
E. Siasou	2010	Interactions among a soil-borne pathogen, mycorrhizal fungi and rhizobacteria.	
L. Kruitbos	2009	Influence of habitat on the behaviour of entomopathogenic nematodes.	
K. Owusu-Afriyie	2009	Forest Fire incidence, Damage and Control Measures in Ghana.	
L. Villarreal-Ruiz	2006	Biodiversity and ecology of native pinewood ectomycorrhizal fungi across a chronosequence and their in vitro interactions with ericaceous plants.	
P. Torr	2006	Nematodes to control the large pine weevil	
N. Bouqellah	2005	Biological control of powdery mildew (Podosphaera xanthii) on cucumber using Trilogy ® and Brevibacillus brevis.	
J. E. Danaher	2005	Prediction and manipulation of black dot fungus (Colletotrichum coccodes) on Solanum tuberosum.	
B.E.E. Tambe	2004	Mycorrhizal status of Gnetum spp. in Cameroon.	
P. Kyritsis	2003	<i>Epidemiology and pathogenesis of mycelial soil-borne</i> Rhizoctonia solani <i>AG-3 on potatoes</i> (Solanum tuberosum).	
I. Lazaraki	2003	Integrated biological control of grey mould (Botrytis cinerea) on tomato using bacterial antagonists.	
E. Tsomlxoglou	2001	Targeted Bacillus control for protected crops against the grey mould pathogen, Botrytis cinerea.	
M.S. Chidburee	1998	Biological control of soil-borne disease in Soybean by denitrifying antagonistic bacteria: the possible role of reduced nitrogen compounds for control of plant pathogens.	
Z. Ashaari	1995	The structure and properties of rattan in relation to treatment with boron preservatives.	
P.J. Mwitwa	1993	Somatic Embryogenesis and Protoplast Isolation and Culture in Picea sitchensis (Bong.) Carr.	
J.H.R. Heuch	1991	<i>The Tissue Culture and Biology of Bamboos with Special Reference to</i> Dendrolcalamus hamiltonii.	
S.K. Hull	1991	An Investigation into the Causes of Dieback in Non-Woodland Ash Trees.	
D. Birt	1991	Somatic embryogenesis in Conifers	

ADMINISTRATIVE DUTIES AND OTHER ACTIVITIES

Administrative duties

2010 – 2016	MSc Forestry Coordinator	School of Biological Sciences
2002 – 2005	School of Biological Sciences Management Team	School of Biological Sciences
2002 – 2004	Head of Academic Disciplines of Agriculture and Forestry	School of Biological Sciences
2002 – 2004	Teaching Committee	School of Biological Sciences
2002 – 2004	Postgraduate Committee	School of Biological Sciences
2002 – 2016	ERASMUS coordinator for Agriculture and Forestry	School of Biological Sciences
2000 – 2002	Management Team	Department of Agriculture & Forestry
2000 – 2002	Teaching Committee	Department of Agriculture & Forestry
1997 – 2000	Chair, Committee for Course and Curriculum Development	Department of Forestry
1989 – 2000	Convenor, Staff-Student Committee	Department of Forestry
1999	Faculty Level 1 Review Teaching Committee	Department of Forestry
1991 – 1995	Departmental Teaching Timetables	Department of Forestry
1993 – 1995	University Quincentenary Appeal Committee	Department of Forestry
1990 – 1994	Technical arrangements for field courses	Department of Forestry
1991 – 1993	Organisation and timetabling of research seminars	Department of Forestry
1991 – 1993	Reporter to the University News Letter	Department of Forestry
1992 – 1994	Craibstone Arboretum Committee	Department of Forestry

WORK OUTSIDE THE UNIVERSITY

Charity Work:

President of the Friends of the Cruickshank Botanic Gardens (since 2017). The role is to head the trust, which raises funds for special projects based in the Cruickshank Botanic Garden in Aberdeen.

Trustee of the Scottish Forestry Trust, which manages investments of approximately £2.5 million, using the income genereated to benefit forestry in a variety of ways, including research projects, general educational projects and extension work. I sit on the Research and Projects Committee of this Trust.

'University Principal's representative' (trustee) to The EM Cruickshank Trust (2002-2010), a charity which makes donations to students of rural subjects who have particular financial needs or difficulties.

Internal validation of forestry degree courses for the Scottish School of Forestry, University of the Highlands and Islands, Inverness.

From 2005-2008, I was an elected a board member and trustee of the British Society for Plant Pathology, the main organisation representing UK-based plant pathologists.

Extension work and public lectures: Fungal forays for local Nature/Conservation Groups, Botanical Societies and for the Forestry Commission. Lectures on tree physiology, tree pathology (particularly invawsive pests and pathogens), micropropagation and carnivorous plants to interested bodies.

Consultancy Work: Tree inspections for health/liability for the University, for private individuals and for Grampian Regional Council. Inspection and confirmation of dry rot in timbers for private home owners. Recently, I have been involved in consultancies for major land owners, concerning problems with the application of herbicides and with the highly damaging spread of *Phytophthora ramorum* on Japanese larch in the UK.

ACTIVE ROLE IN SOCIETY: Known locally, nationally and internationally as an expert on trees, in plant diseases, and in botanical/mycological issues in general.

DISSEMINATION OF SCIENTIFIC KNOWLEDGE THROUGH OTHER MEANS: Interviewed many times for BBC Radio, both national radio and BBC radio Scotland,

- a news item (*And Finally...*) on a giant puff ball found near to Aberdeen;
- 'Landward', a programme dealing with rural affairs, about the management of Christmas trees;
- concerning the mushroom poisoning of the author Nicolas Evans (*The Horse Whisperer*) and family in Scotland in September 2008
- concerning a 'strange' white fungus-like growth from decaying beech wood.
- 29th October 2012 BBC Radio Scotland. Good Morning Scotland. 7.40 a.m.
- 7th November 2012: BBC Radio Scotland. Good Morning Scotland. 8.20 a.m.
- 9th November 2012: Radio Scotland Drivetime interview; BBC Radio 5 Live Drivetime interview.
- 13th December 2012: BBC Radio 4, Costing the Earth.
- Jan 2013 : Interviewed for BBC Radio 4 *Farming Today*
- May 2013: Interviewed for BBC Radio 4 Farming Today
- April 2013: Interviewed for 'Russia Today'
- July 2013: Interviewed for BBC Radio 4 The Tree Scientist
- June 2014: Interviewed for BBC Radio 4 *Farming Today*

Several appearance on National TV and on BBC Scotland News:

- 29th October 2012: BBC TV Scotland News.
- 4th November 2012: Sky News.
- 10th November 2012: BBC 2 Newsnight.
- 12th November 2012: BBC TV Scotland News.
- 20th November 2012: BBC The One Show.

• 9th December 2012: BBC1 Countryfile

Numerous interviews for national and local newspapers, particularly in the weeks immediately following the discovery of ash dieback in UK woodlands, October 2012. The local Aberdeenshire newspaper, *The Aberdeen Press and Journal*, frequently consults me on all matters relating to trees.

S. Woodward 21st March 2018