

Cumulative Index 1990 - 1998/9

In addition to the list below, in every SCRI Annual Report during this period, there are reports of Mylnfield Research Services Ltd; the Research Services; a General Report including accounts, staff lists, publications, research project lists; Overviews by each Head of Department; and a Report by the Director.

Plant genetics

Quality in potatoes: G.R. Mackay & M.F.B. Dale.....	1990, 9
Anti-nutritional factors in faba beans, forage brassicas and potatoes: J.E. Bradshaw, <i>et al</i>	1990 12
Malting quality of barley: J.P. Camm <i>et al</i>	1990, 16
Low temperature hardiness and avoidance of frost damage in woody perennials: R. Brennan	1990, 20
Progeny testing for resistance to diseases and pests of potato: R.L. Wastie <i>et al</i>	1991, 13
Identifying and exploiting resistance to potato late blight: R.L. Wastie, <i>et al</i>	1991, 16
Breeding for resistance to barley powdery mildew: W.T.B. Thomas <i>et al</i>	1991, 20
Breeding for resistance to premature fruit shedding: R.J. McNicol	1991, 23
Conservation and utilisation of germplasm collections of potato and faba bean: M.J. Wilkinson <i>et al</i>	1992, 13
Breeding to exploit heterosis in swedes: J.E. Bradshaw	1992, 17
The use of <i>Hordeum spontaneum</i> Koch in barley improvement: R.P. Ellis <i>et al</i>	1992, 20
Applications of biotechnology to soft fruit breeding: Julie Graham	1992, 23
Breeding potatoes for warm climates: G.R. Mackay <i>et al</i>	1993, 20
Endosperm cell walls - barriers to malting quality: J.S. Swanston <i>et al</i>	1993, 24
Case studies in the investigation of potential industrial oil crops: S. Millam <i>et al</i>	1993, 26
Potato breeding at SCRI: from wild species to finished cultivars: J.E. Bradshaw <i>et al</i>	1994, 36
Increasing the applicability of tissue culture methods for the improvement of industrial oil crops: S. Millam <i>et al</i>	1994, 40
Aspects of environmental risk assessment for genetically modified plants with special reference to oilseed rape: A.M. Timmons <i>et al</i>	1994, 43
Genetic improvement of trees: R.J. McNicol & M. Van de Ven	1994, 45
Breeding potatoes at SCRI for resistance to PCN: J.E. Bradshaw <i>et al</i>	1995, 30
The adaptation and use of primitive cultivated potato species: M.J. DeMaine <i>et al</i>	1995, 34
Dissecting the <i>Vicia faba</i> genome: G. Ramsay <i>et al</i>	1995, 38
Investigation of feral oilseed rape population: Y. Charters <i>et al</i>	1995, 40
The targeted and accelerated breeding of potatoes: G.R. Mackay <i>et al</i>	1996, 40
Breeding swede, forage rape and kale cultivars with resistance to clubroot (<i>Plasmidiophora brassicae</i>): J.E. Bradshaw <i>et al</i>	1996, 45
Non-transgenic applications of plant tissue culture in potato: S. Millam <i>et al</i>	1996, 50
New brassica cultivars	1996, 53
New potato cultivars	1990, 22 1991, 25 1993, 30 1996, 54 1998, 113
New swede cultivars	1997, 93
New soft fruit cultivars	1993, 32 1994, 47 1995, 43 1998, 113

Breeding and genetics (1997/8 onwards)

Applied Potato Genetics & Breeding: the way ahead for potato breeding: J.E. Bradshaw <i>et al</i>	1997, 76
Genome bioinformatics at SCRI: engineering the datastream: D.F. Marshall & L. Cardle	1997, 81
Potato Genomics: Development of markers for potato genetics and breeding: R. Waugh <i>et al</i>	1997, 86
Blackcurrant breeding and genetics: R.M. Brennan <i>et al</i>	1997, 89
Applied potato genetics and breeding: potato improvement by multitrail genotypic recurrent selection: J.E. Bradshaw <i>et al</i>	1998, 92
Barley domestication – <i>Hordeum spontaneum</i> , a source of new genes for crop improvement: R.P. Ellis <i>et al</i>	1998, 97
Potato Genomics: A general strategy for the molecular genetic characterisation of <i>Solanum</i> germplasm: G. Bryan <i>et al</i>	1998, 101
Cultivar responses to long-cane fruit production in raspberry: T. Gillespie <i>et al</i>	1998, 105
Efficient genetic transformation systems of grain legumes for improved fungal resistance. J. Miller <i>et al</i>	1998, 110

Soft fruit and perennial crops

1990-1995: Relevant articles appear under Plant genetics, Fungal & bacterial diseases, Virology etc.

Genetically modified food: J. Graham	1996, 58
<i>Rubus</i> breeding and genetic research: R.E. Harrison <i>et al</i>	1996, 63
Interactions between plant resistance genes, pest aphid populations and beneficial aphid predators: A.N.E. Birch <i>et al</i>	1996, 68
Transgenic resistance to raspberry bushy dwarf virus in <i>Nicotiana</i> species: J.E. Angel-Diaz <i>et al</i>	1996, 73
The increasing importance and control of wingless weevils as pests in temperate world horticulture: S.C. Gordon <i>et al</i>	1996, 75

Molecular biology

Genetic markers: W. Powell <i>et al</i>	1990, 25
Components of the plant pre-messenger RNA splicing machinery: J.W.S. Brown & R. Waugh	1990, 28
Somatic hybridisation of potato by protoplast fusion: S. Cooper-Bland <i>et al</i>	1990, 31
Genetic transformation in plants: A. Kumar <i>et al</i>	1991, 29
Measuring genetic diversity in crop plants: R. Waugh <i>et al</i>	1991, 32
Doubled haploids: their role in the location and analysis of polygenically controlled traits in barley: W. Powell <i>et al</i>	1991, 36
Low temperature sweetening and invertase genes in potato: G. Machray <i>et al</i>	1991, 40
Pre-mRNA splicing in plants: J.W.S. Brown <i>et al</i>	1991, 42
Genetic approaches to mapping genes conferring resistance to plant pathogens and pests: R. Waugh <i>et al</i>	1992, 28
A foundation linkage map of barley with particular reference to developmentally important genes: W. Powell <i>et al</i>	1992, 31
Plant regeneration and transformation studies in groundnut (<i>Arachis hypogaea</i> L.): S. Cooper-Bland <i>et al</i>	1992, 33
Removal of non-intron AU-rich sequences by splicing: C. Simpson & J.W.S. Brown	1992, 36
An RNA helicase multigene family from potato: G. Clark <i>et al</i>	1992, 37
Development of a generic microsatellite-based PCR assay for the detection of genetic variation: W. Powell <i>et al</i>	1993, 35
Characterisation of the S-adenosylmethionine decarboxylase (SAMDC) gene of potato: A. Kumar <i>et al</i>	1993, 36
Genetic basis of water use efficiency discovered for barley: B.P. Forster <i>et al</i>	1993, 39
A salt tolerant mutation in barley: H. Packniyat <i>et al</i>	1993, 40
PCR methods for the analysis of expression from plant multigene families: G.C. Machray <i>et al</i>	1993, 42
Branchpoint sequences are required for plant pre-mRNA splicing: C.G. Simpson <i>et al</i>	1993, 44
Transgenic plants in the analysis of plant spliceosomal proteins: A.D. Turnbull-Ross <i>et al</i>	1993, 46
Molecular ecology of tropical tree species: detection of interspecific gene flow between <i>Gliricidia sepium</i> and <i>G. maculata</i> using PCR: I.K. Dawson <i>et al</i>	1994, 52
The <i>Ty1-copia</i> group retrotransposons in plants: A. Kumar <i>et al</i>	1994, 53
Molecular marker techniques for barley genome analysis and breeding: W. Powell <i>et al</i>	1994, 57
Genetic control of albinism in barley regeneration: B.P. Forster <i>et al</i>	1994, 59
Mapping genes of economic importance in spring barley: W.T.B. Thomas <i>et al</i>	1994, 60
Isolation of a cDNA clone encoding polygalacturonase inhibitor protein from kiwifruit: C.G. Simpson & R.C. Gardner	1994, 65
Synthesis of intraspecific somatic hybrid plants between dihaploid lines of <i>Solanum tuberosum</i> : A. Kumar <i>et al</i>	1994, 66
Molecular characterisation of the spliceosomal proteins, U1A and U2B": G.G. Simpson <i>et al</i>	1994, 68
Organisation of spliceosomal components in plant nuclei: G.G. Simpson <i>et al</i>	1994, 69
Novel genomic organisation of plant U14 small nucleolar RNA genes: D.J. Leader <i>et al</i>	1994, 70
Evidence for branchpoint involvement in plant intron splicing: C.G. Simpson <i>et al</i>	1995, 48
snoRNAs and pre-rRNA processing: D.J. Leader <i>et al</i>	1995, 49
Molecular characterisation of plant PRP8 genes: J. Hamilton <i>et al</i>	1995, 51
Regulation of invertase gene expression in potato: A. Maddison <i>et al</i>	1995, 52
Expression of heterologous protein in potato: G. Randhawa <i>et al</i>	1995, 53
Isolation, characterisation and use of SSRs as genetic markers: M. Macaulay <i>et al</i>	1995, 54
Simple sequence repeats provide an exact indicator of pollen-mediated gene flow in the leguminous tropical tree species <i>Gliricidia sepium</i> : I.K. Dawson <i>et al</i>	1995, 55
Chloroplast simple sequence repeats: genetic markers for population, ecological and evolutionary genetics: W. Powell <i>et al</i>	1995, 57
Detection by AFLP analysis of major and minor effects controlling the genetics of resistance to scald (<i>Rhynchosporium secalis</i>) in barley: W.T.B. Thomas <i>et al</i>	1995, 59
Genetic variation in barley starch: R.P. Ellis & J.S. Swanston	1995, 63
A molecular approach to study the role of polyamines in plant development: A. Kumar <i>et al</i>	1995, 64
A molecular approach to clone a wide spectrum nematode resistance gene (the <i>Hero</i>) of tomato: A. Kumar <i>et al</i>	1995, 66
Linkage analysis in tetraploid potatoes using 'single dose' PCR-based markers: R. Waugh <i>et al</i>	1995, 68
Development of a simple sequence repeat-based linkage map of barley: R. Waugh <i>et al</i>	1996, 82
The use of AFLPs to examine genetic relatedness in barley: R.P. Ellis <i>et al</i>	1996, 84
Molecular breeding: applications to barley: W. Powell <i>et al</i>	1996, 86
Locating genotypes and genes for abiotic stress tolerance in barley: maps, markers and the wild species: B.P. Forster <i>et al</i>	1996, 88
BarleyDB - a new genome database: L. Cardle & R. Waugh	1996, 91
Chloroplast simple sequence repeats: applications to the population genetics of Scots pine: J. Provan <i>et al</i>	1996, 93

Conservation genetics of a tropical tree: Mahogany (<i>Swietenia humilis</i> Zucc.): G. White <i>et al.</i>	1996, 95
Simple sequence repeat marker location on a genetic linkage map of potato: R.C. Meyer <i>et al.</i>	1996, 96
Identification of genetic markers linked to quantitative resistance to late blight and white potato cyst nematode in tetraploid potato: D. Milbourne <i>et al.</i>	1996, 98
A potato pollen-specific promoter: A. Maddison <i>et al.</i>	1996,100
Exon definition and co-operativity in plant pre-mRNA splicing: C.G. Simpson <i>et al.</i>	1996,102
Processing of plant snoRNAs is splicing independent: D.J. Leader <i>et al.</i>	1996,104
New barley cultivar.....	1996,105

Plant molecular and cell biology (1997/8 onwards)

The barley genome: a source of genes for breeders and biotechnologists: W. Powell	1997, 64
New insights into the plant secretory pathway using virus-delivered green fluorescent protein: P. Boevink <i>et al.</i>	1997, 67
Splicing regulation of a potato invertase mini-exon: C.G. Simpson <i>et al.</i>	1997, 71
The sink-source transition in leaves - new insights: A.G. Roberts <i>et al.</i>	1998, 76
Plant genes for the spliceosomal protein, PRP8: J.I. Hamilton <i>et al.</i>	1998, 80
Promoting plant promoters: G.C. Machray <i>et al.</i>	1998, 82
Transparent plants: an NMR case-study of Blackcurrants: S.M. Glidewell <i>et al.</i>	1998, 86

Cellular and environmental physiology

Sink to source transition in potato tubers: K.J. Oparka <i>et al.</i>	1990, 36
Calcium and physiological disorders in potato tubers: H.V. Davies	1990, 41
Micro- and minitubers in potato genetics and production: D.K.L. MacKerron <i>et al.</i>	1990, 45
Efficiency of crop root systems in nutrient uptake: D. Robinson	1990, 49
Sucrose starch interconversion in potato tubers: R. Viola & H.V. Davies	1991, 47
Towards an understanding of drought tolerance in potato: R.A. Jefferies & D.K.L. MacKerron.....	1991, 51
Soil micro-fauna and nutrient cycling: B.S. Griffiths	1991, 54
Exploiting the competition between vegetative and fruiting phases of growth in raspberry using cane desiccation: H.M. Lawson & J.S. Wiseman.....	1991, 57
Stable isotopes are naturally revealing: L.L. Handley.....	1991, 59
The route to structure: I.M. Young & A.G. Bengough	1992, 41
The molecular basis of tuberisation in potato: M.A. Taylor <i>et al.</i>	1992, 44
Theoretical biology beyond the straight and narrow: J.W. Crawford	1992, 47
Novel N ₂ -fixing cyanobacteria-plant associations: N.W. Kerby <i>et al.</i>	1992, 51
Plasmodesmata : an open and shut case: K. Oparka & D.A.M. Prior.....	1993, 50
Fungal growth in heterogenous environments: K. Ritz.....	1993, 54
Vegetation dynamics: G.R. Squire	1993, 58
Soil seed banks as monitors of the effects of changes in land management: H.M. Lawson & G.McN. Wright.....	1993, 59
Flexible modelling accessing knowledge and uncertainty: B. Marshall & J. McNicol.....	1993, 62
Strategies for optimising nitrogen fertilisation of potato: D.K.L. MacKerron <i>et al.</i>	1994, 77
Nitrogen transformations in cultivated soils: R. Wheatley & K. Ritz	1994, 81
Uptake and compartmentation of xenobiotics in plant cells: K.M. Wright <i>et al.</i>	1994, 84
The role of pyrophosphate:fructose 6-P,1-phosphotransferase in plant metabolism: R.Viola <i>et al.</i>	1994, 88
Effect of elevated atmospheric carbon dioxide on below ground processes: M. van Vuuren <i>et al.</i>	1995, 75
Exploiting the green fluorescent protein in plants - viruses carry the torch: K.J. Oparka <i>et al.</i>	1995, 78
Unravelling the control of seed dormancy in forest species: S.B. Jarvis <i>et al.</i>	1995, 82
Soil structural heterogeneity, micro-organism movement and volatile diffusion: I. Young & S. Anderson	1995, 86
Lectins of the Amaryllidaceae and their potential uses: J.M.S Forrest <i>et al.</i>	1995, 89
Natural abundances of stable isotopes reveal trophic patterns in soil food webs: R. Neilson <i>et al.</i>	1995, 91
Application of Fourier-transform infrared microspectroscopy to plant science: D. Stewart <i>et al.</i>	1996,110
Predicting the phloem mobility of xenobiotics: K.M. Wright & K.J. Oparka	1996,112
Functions and metabolism of L-ascorbic acid: R. Viola.....	1996,117
A combined theoretical and experimental approach to functional and genetic biodiversity: G.R. Squire & J.W. Crawford.....	1996,121
The potential impact of terrestrial planarians to Scottish agriculture and wildlife: B. Boag & R. Neilson.....	1996,125
Prions, plants and transmissible spongiform encephalopathies: J.M.S. Forrest <i>et al.</i>	1996,127

Chemistry

Use of high performance liquid chromatography for the separation of plant proteins: M.J. Allison.....	1990, 54
Nuclear magnetic resonance microscopic imaging: B.A. Goodman.....	1990, 57
Control of differentiation in fibre cells: I.M. Morrison & G.J. McDougall.....	1990, 61
Isolation and identification of plant fibres for industrial uses: I.M. Morrison & D. Stewart.....	1991, 64
Identification of plant volatiles by thermal desorption: G.W. Robertson & D.W. Griffiths.....	1991, 67
Research on free radicals: B.A. Goodman.....	1991, 70
Structural analysis of plant lipids: W.W. Christie.....	1992, 58
Chemical delignification of plant fibres: D. Stewart & I.M. Morrison.....	1992, 61
Applications of NMR spectroscopy: B.A. Goodman.....	1992, 64
Characterisation of copper-containing enzymes by EPR spectroscopy: B.A. Goodman <i>et al</i>	1992, 66
Stable isotope analysis at the molecular level: C. Scrimgeour.....	1993, 70
Control of plant fibre quality: Identification and characterisation of key enzymes in cell wall synthesis: A. Baty <i>et al</i>	1993, 73
Spin-trapping as a tool in free radical research: N. Deighton <i>et al</i>	1993, 77
3-Dimensional nuclear magnetic resonance (NMR) microscopy of soft fruit crops: B.A. Goodman <i>et al</i>	1993, 80
Automated analysis of stable isotopes of sulfur in plants: C.M. Scrimgeour.....	1994, 97
Advances in the theory and practice of silver ion chromatography as applied to lipids: W.W. Christie & G. Dobson.....	1994, 100
Spectroscopic analysis of plant cell walls: D. Stewart <i>et al</i>	1994, 103
Electrospray mass spectrometry: application to the plant sciences: N. Deighton <i>et al</i>	1994, 108
Applications of NMR microscopy to the non-invasive resolution of internal details of Lepidopterous pupae: S.C. Gordon <i>et al</i>	1994, 111
Characterisation of metalloenzymes by EPR spectroscopy: B.A. Goodman.....	1995, 97
Plant leaf surface waxes: T. Shepherd.....	1995, 101
Laboratory accreditation: T. Shepherd.....	1996, 136
Molecular recognition: the role of mass spectrometry: N. Deighton.....	1996, 140
Genetic and environmental effects on the glycoalkaloid content of potato (<i>Solanum tuberosum</i>) tubers: D.W. Griffiths <i>et al</i>	1996, 142

Plant biochemistry and phytochemistry (1997/8 onwards)

Multidisciplinary approaches and the improvement of fruit quality in red raspberry (<i>Rubus idaeus</i> L.): P.P.M. Iannetta <i>et al</i>	1997, 99
Determination of the structures of fatty Acids: W.W. Christie <i>et al</i>	1997, 104
Effect of modified atmosphere packaging (MAP) on soft fruit quality: D. Stewart.....	1998, 119
The use of gas chromatography-mass spectrometry in the study of plant and insect defence compounds: G.W. Robertson <i>et al</i>	1998, 125

Fungal and bacterial diseases

Biochemical basis of resistance of potatoes to <i>Erwinia carotovora</i> : G.D. Lyon & J. Heilbronn.....	1990, 65
A novel system for controlling plant disease: G.D. Lyon <i>et al</i>	1990, 68
Hot water treatment to control seedborne blackleg and fungal blemish diseases of potatoes: M.C.M. Pérombelon.....	1990, 69
Downy mildew of blackberries and raspberries: B. Williamson & R.C. Shattock.....	1990, 72
Raspberry root rot: A summary of recent progress: J.M. Duncan & D.M. Kennedy.....	1991, 89
Quiescence and grey mould in raspberries: B. Williamson <i>et al</i>	1992, 70
Effects of humidity on <i>Phytophthora infestans</i> and <i>Botrytis cinerea</i> : J.G. Harrison <i>et al</i>	1992, 73
Blemish diseases of potatoes: roots as sources of inoculum: E.P. Dashwood & J.M. Duncan.....	1992, 75
Assessment of blackleg inoculum on potato seed: M.C.M. Pérombelon <i>et al</i>	1992, 78
Potato blackleg : Progress and prospects for research: M.C.M. Pérombelon.....	1993, 85
Interaction of the expression of partial plant disease resistance and the environment: A.C. Newton <i>et al</i>	1993, 89
Grey mould (<i>Botrytis cinerea</i>) of roses: B. Williamson <i>et al</i>	1993, 91
<i>In vitro</i> selection of coffee plants resistant to coffee berry disease: N.E. Nyange <i>et al</i>	1993, 93
A unique form of gene organisation in the Oomycetes: S.E. Unkles.....	1994, 119
Detection of <i>Phytophthora</i> species in horticultural crops: D. Cooke.....	1994, 121
Understanding plant disease epidemics through mathematical modelling: A.C. Newton <i>et al</i>	1994, 124
Pectic enzymes of soft-rot <i>Erwinia</i> species: Isoenzyme profile and immunological relationships of pectate lyase and polygalacturonase: L. Hyman & I.K. Toth.....	1995, 110
Detection systems for <i>Phytophthora nicotianae</i> based on elicitor genes: I. Lacourt.....	1995, 112
Isolation of genes encoding polygalacturonase-inhibiting proteins from raspberry: B. Williamson <i>et al</i>	1995, 115
Stability of R-gene resistance to blight in potato leaves: R. Lowe & J.G. Harrison.....	1995, 117
Heterologous expression of a basic elicitor gene from <i>Phytophthora cryptogea</i> in <i>P. infestans</i> : P.R.J. Birch <i>et al</i>	1996, 148
The uses of ITS regions in <i>Phytophthora</i> species: D. Cooke <i>et al</i>	1996, 151
Typing strains of <i>Erwinia carotovora</i> subspecies <i>atroseptica</i> for epidemiological analysis: I. Toth & L.J. Hyman.....	1996, 154
Potato brown rot in temperate regions - a review: I.K. Toth <i>et al</i>	1996, 157

Plant viruses

Resistance to potato leafroll luteovirus: H. Barker <i>et al</i>	1990, 78
Progress in research on narcissus viruses: W.P. Mowat <i>et al</i>	1990, 80
The genome of raspberry ringspot virus: gene structure and expression: M.A. Mayo.....	1990, 84
Cell to cell movement of viruses and plasmodesmatal permeability: P.M. Derrick <i>et al</i>	1990, 86
Patterns of antigenic variation in whitefly-transmitted geminiviruses: B.D. Harrison.....	1990, 88
Diversity of tobraviruses and their transmissibility by nematodes: D.J. Robinson <i>et al</i>	1991, 77
Detection and diagnosis of potato mop-top virus: L. Torrance <i>et al</i>	1991, 80
Molecular studies on raspberry bushy dwarf virus: M.A. Mayo <i>et al</i>	1991, 83
Okra leaf curl virus: a whitefly-transmitted gemini virus from West Africa: P.F. McGrath <i>et al</i>	1991, 85
The groundnut rosette disease virus complex: aetiology, transmission, diagnosis, and novel approaches to control: A.F. Murrant <i>et al</i>	1992, 85
Parsnip yellow fleck, a possible 'missing link' between plant and animal viruses: B. Reavy <i>et al</i>	1992, 89
Long-distance movement and distribution of potato leafroll luteovirus within resistant and susceptible potato clones: P.M. Derrick & H. Barker.....	1992, 92
Expression and assembly of plant virus-like particles in bacterial cells: D-J. Hwang <i>et al</i>	1992, 94
Experimental approaches to determining roles for the proteins in the particles of PLRV: M.A. Mayo <i>et al</i>	1993, 97
Identification of abutilon mosaic virus variants by DNA fingerprinting: S.M. Macintosh & D.J. Robinson	1993, 100
Exploiting coat protein transgenesis to create improved forms of resistance to two potato viruses: B. Reavy <i>et al</i>	1993, 103
Spontaneous gene deletion events associated with increased symptom severity in a fungus-transmitted virus of cereals: J. Chen <i>et al</i>	1993, 106
Plant viruses and biotechnology: T.M.A. Wilson <i>et al</i>	1994, 131
New immunological reagents from recombinant DNA technology: L. Torrance <i>et al</i>	1994, 136
Investigation of the viral determinants of nematode transmission of pea early browning virus: S.A. MacFarlane <i>et al</i>	1994, 139
Development of potential control measures for Indian peanut clump virus from molecular biological studies: J.S. Miller <i>et al</i>	1994, 141
Prospects for improving resistance to Potato Leafroll Virus by targeted breeding: H. Barker <i>et al</i>	1995, 122
Antibody-like proteins from a phage-display library: A. Ziegler <i>et al</i>	1995, 125
Aphid vector population biology and the control of virus diseases: J.A.T. Woodford <i>et al</i>	1995, 127
Blackcurrant reversion disease - tracking down the causal agent : A.T. Jones <i>et al</i>	1995, 131
Use of plant virus vector for production of foreign proteins in plants: S. Chapman <i>et al</i>	1995, 135
Ultrastructural studies of the transmission of potato leafroll virus by aphids: F.E. Gildow <i>et al</i>	1996, 164
Potato mop-top virus: new insights into transgene-mediated resistance: H. Barker <i>et al</i>	1996, 167
The causal agents of groundnut rosette disease: understanding the complex: D.J. Robinson & M. Taliansky	1996, 170
The green fluorescent protein and cucumber mosaic virus movement: lighting the way: P. Palukaitis <i>et al</i>	1996, 174

Zoology

Modelling pest damage and reproduction: M.S. Phillips <i>et al</i>	1990, 93
Pest prediction as an aid to control: J.A.T. Woodford & S.C. Gordon	1990, 95
Biochemical approaches to assessing nematode heterogeneity: M.S. Phillips & M. Fargette.....	1990, 98
Natural plant products as probes and pesticides: W.M. Robertson <i>et al</i>	1990, 99
Oilseed rape and wildlife: B. Boag <i>et al</i>	1990, 100
The use of molecular markers to identify aphid and nematode biotypes: A.N.E. Birch <i>et al</i>	1991, 95
The perception of flower odours by the raspberry beetle: J.A.T. Woodford <i>et al</i>	1991, 97
New uses for lectins from plants J.M.S. Forrest <i>et al</i>	1991, 99
Tolerance of potato cyst nematode damage: D.L. Trudgill & M.S. Phillips	1992, 100
Pest resistant brassicas; the role of leaf surface chemicals: A.N.E. Birch <i>et al</i>	1992, 104
New Zealand Flatworm in Scotland: B. Boag <i>et al</i>	1992, 106
Thermal time and nematode ecology: D.L. Trudgill	1993, 112
Inter- and intraspecies relationships in root-knot nematodes, <i>Meloidogyne</i> spp.: V.C. Blok <i>et al</i>	1993, 114
The ultrastructure and taxonomic evaluation of eriophyid mites of <i>Ribes</i> : A.T. Jones <i>et al</i>	1993, 116
Transmission of nepoviruses by longidorid nematodes: D.J.F. Brown <i>et al</i>	1994, 149
The role of nematode exudates in plant pathogenesis: W.M. Robertson <i>et al</i>	1994, 152
Molecular ecology of aphids: B. Fenton <i>et al</i>	1994, 153
Effects of aphid feeding behaviour on the transmission of potato leafroll virus: J.A.T. Woodford <i>et al</i>	1994, 155
Molecular biology of the control of potato cyst nematode development: J.T. Jones	1995, 141
Responses to flower volatiles by the raspberry beetle, <i>Byturus tomentosus</i> and field evaluation of white traps for monitoring flight: A.N.E. Birch <i>et al</i>	1995, 144
Effects of plant natural compounds on nematodes: W.M. Robertson <i>et al</i>	1995, 148
A view of genetic diversity in potato cyst nematode in Britain and beyond: V.C. Blok <i>et al</i>	1995, 151
Molecular and adaptive variation in aphid guts: P. Irving & B. Fenton	1995, 154
Nematode-induced promoters: N. Barthels <i>et al</i>	1996, 181
Characterisation of the secretions of the potato cyst nematode and their role in the host-parasite relationship: J.T. Jones <i>et al</i>	1996, 183
A mitochondrial DNA perspective on diversity in the potato cyst nematode <i>Globodera pallida</i> : M.R. Armstrong <i>et al</i>	1996, 188
A major concern for potato production in north-western Europe: the plant-parasitic nematodes <i>Meloidogyne chitwoodi</i> , <i>M. fallax</i> and <i>M. hapla</i> : V.C. Blok <i>et al</i>	1996, 191

Biomathematics and Statistics Scotland

Computer visions of the future: C.A. Glasby & G.W. Horgan	1990 , 103
Statistical aspects of near infra-red spectroscopy: J.W. McNicol & I. Cowe	1990 , 106
Simulating the power of the brain with artificial neural networks: G.J. Gibson.....	1991 , 103
Plot interference in field experiments: R.A. Kempton <i>et al</i>	1991 , 107
Linking expert judgements with forecasting models: M. Talbot & G.J. Gibson	1992 , 109
Statistical methods in linkage analysis: C. Hackett	1993 , 122
Phylogenetic trees and molecular evolution: F. Wright	1993 , 125
Statistical analysis of molecular marker data: J.W. McNicol.....	1994 , 162
Measurement of the sensory qualities of foods: E.A. Hunter <i>et al</i>	1994 , 166
Improving the accuracy of field trials by modelling spatial trends with generalised additive models: C.A. Hackett & A.C. Newton	1995 , 157
Performance indicators, league tables and the assessment of crop cultivars: R.A. Kempton & M. Talbot.....	1996 , 195
Analysis of codon usage patterns using graphical methods: F. Wright	1998 , 169

Host pathogen interactions and crop protection

(1997/8 onwards)

Engineered antibodies: readily adaptable molecular tools for basic and applied research: L. Torrance <i>et al</i>	1997 , 111
Probing the virus long-distance transport pathway: S. Santa Cruz <i>et al</i>	1997 , 114
Metabolic pathways of the diseased potato: G.D. Lyon	1997 , 118
Nematode transmission of plant viruses - a 30 year perspective: D.J.F. Brown & D.L. Trudgill	1997 , 121
Molecular ecology of the peach-potato aphid and its relatives: B. Fenton <i>et al</i>	1997 , 126
Molecular biology of the tobnavirus genome: S. MacFarlane, <i>et al</i>	1997 , 129
Characterising pathogen-induced signal transduction pathways in plants - opening Pandora's box: P.R.J. Birch <i>et al</i>	1998 , 133
Diagnostics for skin blemish pathogens of potato: D.W. Cullen & K.S. Bell.....	1998 , 136
Heterologous expression systems for the production of functional antibody fragments: A. Ziegler <i>et al</i>	1998 , 139
Plants transformed to express the entire genome of <i>Potato leafroll virus</i> : H. Barker <i>et al</i>	1998 , 142
Variation among aphid vectors of <i>Potato leafroll virus</i> : J.A.T. Woodford, B. Fenton & M.A. Mayo.....	1998 , 146
The novel mitochondrial genome architecture of the potato cyst nematode <i>Globodera pallida</i> : M.R. Armstrong <i>et al</i>	1998 , 150
Progress towards Integrated Crop Management (ICM) for European raspberry production: S.C. Gordon <i>et al</i>	1998 , 153

Plants, soils and environment

(1997/8 onwards)

Physics and physiology of plant growth in the soil: A.G. Bengough <i>et al</i>	1997 , 134
Developing an interpretation for $\delta^{15}\text{N}$ in plants: L.L. Handley <i>et al</i>	1997 , 136
Environmental flows: I.M. Young <i>et al</i>	1998 , 162
Stable isotopes and biological processes: L.L. Handley <i>et al</i>	1998 , 165

Other Articles

The CGIAR system and links between SCRI and the International Agricultural Research Centres: N.L. Innes	1993 , 13
An historical perspective of SCRI: D.A. Perry.....	1994 , 23
A quarter century of plant virus research: B.D. Harrison	1994 , 30
Microscopy: B. Williamson <i>et al</i>	1994 , 172
SCRI at SRT: T.M.A. Wilson	1995 , 24
CHABOS: T. J. W. Alphey	1996 , 36
Development, release and regulation of GM crops: D.J. Robinson <i>et al</i>	1997 , 44
Are diseased and blemished foodstuffs good for you? The need for plant pathology: D.E.L. Cooke <i>et al</i>	1997 , 54
Gene flow in the environment - genetic pollution?: G. R. Squire <i>et al</i>	1998 , 45
Cereal variety mixtures reduce inputs and improve yield and quality -why isn't everybody growing them? A.C. Newton & J.S. Swanston.....	1998 , 55
Organic farming: science and belief: D.K.L. MacKerron <i>et al</i>	1998 , 60