

CONTENTS

Preface	xiii
John C. Walker	1
About Dr. John Charles Walker	1
List of Publications	7
George F. Sprague	33
Curriculum Vitae	34
List of Publications	37
Sir Kenneth Blaxter	43
Biographical Sketch	43
List of Publications	47
Jay L. Lush	67
Curriculum Vita	68
List of Publications	71
Karl Maramorosch	81
Biographical Information	81
Recent Publications (since 1996)	85
Viruses, Vectors, and Vegetation: An Autobiography	90
John O. Almquist	121
Curriculum Vitae	121
Description of Scientific Activities	123
Henry A. Lardy	135
Curriculum Vitae	135
Publications	137
The Main Scientific Achievements	170

Glenn Wade Salisbury	171
Brief Description of Scientific Contributions	171
Essential Biography	172
Citation	172
Wendell L. Roelofs	173
Curriculum Vitae	174
List of Publications	177
Cornelis T. De Wit	207
In Memoriam	207
List of Publications	208
Don Kirkham	219
Expanded Curriculum Vitae	220
Description of Scientific Contribution	221
List of Publications	227
Robert H. Burris	245
Scientific Background	245
Curriculum Vitae	246
List of Most Significant Publications	250
Sir Ralph Riley, F.R.S.	251
Curriculum Vitae	251
Brief Description of Scientific Contribution	253
Essential Biography	254
Scientific Contributions	254
Ernest R. Sears	257
Curriculum Vitae	257
Chromosomal Engineering of Wheat for Higher Agronomic Performance	259
Theodor O. Diener	263
Curriculum Vitae	264
List of Significant Publications	264
Description of Scientific Contribution	265
Ernest John Christopher Polge	271
In Memoriam	271
Biographical Data	273
Brief Description of Scientific Contribution	274
List of Significant Publications	275

Charles Thibault	277
Biographical Data	277
Description of Scientific Achievements	279
List of Significant Publications	282
Peter M. Biggs	285
Narrative Curriculum Vitae	285
List of Publications	287
Peter M. Biggs – An Appreciation (by B.W. Calnek)	298
Michael Elliott	303
Curriculum Vitae	304
Brief Description of Scientific Achievements	306
List of Publications	309
Jozef Stefaan Schell	321
Curriculum Vitae	322
List of Publications since 1990	328
Transformation of Plant Science in Our Time — The Contribution of Jozef S. Schell (1935–2003) (by Richard Flavell)	351
Shang Fa Yang	355
Curriculum Vitae	355
In Memoriam	356
List of Publications	359
Shang Fa Yang: Pioneer in Plant Ethylene Biochemistry (by Kent J. Bradford)	376
John E. Casida	383
Autobiographical Sketch and Selected Publications	383
Phosphorus-32 Pentasulfide: Preparation by Isotopic Exchange and Conversion to Thiophosphoryl-32 Chloride and Phosphorus-32 Trichloride	400
Biological Activity of a Tri- <i>o</i> -Cresyl Phosphate Metabolite	402
Oxidative Metabolism of Pyrethrins in Mammals (and E.C. Kimmel, M. Elliott, N.F. Janes)	404
Toxaphene Insecticide: A Complex Biodegradable Mixture (and R.L. Holmstead, S. Khalifa, J.R. Knox, T. Ohsawa, K.J. Palmer, R.Y. Wong)	406
Dichloroacetamide Antidotes for Thiocarbamate Herbicides: Mode of Action (with M.-M. Lay, J.P. Hubbell)	408
Novel Activation Mechanism for the Promutagenic Herbicide Diallate (with I. Schuphan, J.D. Rosen)	411

α -Thujone (the Active Component of Absinthe): γ -Aminobutyric Acid Type A Receptor Modulation and Metabolic Detoxification (with K.M. Höld, N.S. Sirisoma, T. Ikeda, T. Narahashi)	414
Structural Model for γ -Aminobutyric Acid Receptor Noncompetitive Antagonist Binding: Widely Diverse Structures Fit the Same Site (with L. Chen, K.A. Durkin)	420
Mapping the Elusive Neonicotinoid Binding Site (with M. Tomizawa, T.T. Talley, D. Maltby, K.A. Durkin, K.F. Medzihradzsky, A.L. Burlingame, P. Taylor)	426
Perry L. Adkisson	433
Curriculum Vitae	433
A Brief Description of the Scientific Achievements	437
List of Publications	439
A Wheat Germ Medium for Rearing the Pink Bollworm (with E.S. Vanderzant, D.L. Bull, W.E. Allison)	454
Physiology of Insect Diapause. XIV. An Endocrine Mechanism for the Photoperiodic Control of Pupal Diapause in the Oak Silkworm, <i>Antheraea Pernyi</i> (with C.M. Williams)	458
Controlling Cotton's Insect Pests: A New System (with G.A. Niles, J.K. Walker, L.S. Bird, H.B. Scott)	473
Carl B. Huffaker	479
Curriculum Vitae	479
Description of Scientific Achievements	483
List of Significant Publications	484
Morris Schnitzer	487
Curriculum Vitae	487
Brief Description of Scientific Achievements	489
Scientific Publications	489
Frank J. Stevenson	519
Curriculum Vitae	519
Description of Scientific Achievements	520
List of Selected Publications	521
Neal L. First	525
Curriculum Vitae	526
Brief Description of Scientific Achievements	527
Selected Publications	528

Ilan Chet	531
Curriculum Vitae	531
List of Publications	543
The 18mer Peptaibols from <i>Trichoderma Virens</i> Elicit Plant Defence Responses (with A. Viterbo, A. Wiest, Y. Brotman, Ch. Kenerley)	571
8 Plant Disease Biocontrol and Induced Resistance via Fungal Mycoparasites (with A. Viterbo, J. Inbar, Y. Hadar)	581
Baldur Rosmund Stefansson	601
Curriculum Vitae	601
Description of the Scientific Achievements	603
List of Publications	605
Gurdev S. Khush	609
Curriculum Vitae	609
Description of Scientific Contributions	613
List of Publications	617
Roger N. Beachy	643
Curriculum Vitae	644
List of Publications	652
Virus Tolerance, Plant Growth, and Field Performance of Transgenic Tomato Plants Expressing Coat Protein from Tobacco Mosaic Virus (with R.S. Nelson, S.M. McCormick, X. Delannay, P. Dube, J. Layton, E.J. Anderson, M. Kaniewska, R.K. Proksch, R.B. Horsch, S.G. Rogers, R.T. Fraley)	675
James E. Womack	683
Curriculum Vitae	683
My Unique Career Path to Agricultural Research: An Autobiographical Sketch	687
List of Publications	705
Dr. James Womack named ACU's Outstanding Alumnus of the Year (by Tamara Thompson)	710
Fuller W. Bazer	715
Key Scientific Papers	715
Uterine Protein Secretions: Relationship to Development of the Conceptus	718
Ovine Osteopontin: I. Cloning and Expression of Messenger Ribonucleic Acid in the Uterus during the Periimplantation Period (with G.A. Johnson, T.E. Spencer, R.C. Burghardt)	725

Keratinocyte Growth Factor is Up-Regulated by Estrogen in the Porcine Uterine Endometrium and Functions in Trophectoderm Cell Proliferation and Differentiation (with K. Hakhyun, L.A. Jaeger, G.A. Johnson, T.E. Spencer)	733
Evidence that Absence of Endometrial Gland Secretions in Uterine Gland Knockout Ewes Compromises Conceptus Survival and Elongation (with C.A. Gray, R.C. Burghardt, G.A. Johnson, T.E. Spencer)	741
Cathepsins in the Ovine Uterus: Regulation by Pregnancy, Progesterone, and Interferon Tau (with G. Song, T.E. Spencer)	753
Estrogen Regulates Transcription of the Ovine Oxytocin Receptor Gene through GC-Rich SP1 Promoter Elements (with J-A.G.W. Fleming, T.E. Spencer, S.H. Safe)	762
Regulation of Expression of Fibroblast Growth Factor 7 in the Pig Uterus by Progesterone and Estradiol (K. Hakhyun, S. Al-Ramadan, D.W. Erikson, G.A. Johnson, R.C. Burghardt, T.E. Spencer, L.A. Jaeger)	775
R. Michael Roberts	785
Curriculum Vitae	785
Autobiography	787
Refereed Publications	803
Graduate Students	845
Steven D. Tanksley	849
Curriculum Vitae	849
Scientific Achievements	850
List of Publications	852
Longping Yuan	871
Curriculum Vitae	871
Biography	872
List of Publications	874
Contributions to the Development of Hybrid Rice	876
Prof. Yuan's Impact on the World Food Security	878
A Preliminary Report on Male Sterility in Rice, <i>Oryza satbra</i> L.	880
The Strategies for Hybrid Rice Breeding	881
Progress in Breeding of Super Hybrid Rice	882
Michel A. J. Georges	903
Curriculum Vitae	903
Main Scientific Achievements and Present Research Activities	904
Major Publications	916
Citation Analysis	928

Ronald L. Phillips	931
Curriculum Vitae	931
Brief Biography	934
General Description of Accomplishments	935
Journal Articles and Other Refereed Publications	944
Potential Selection System for Mutants with Increased Lysine, Threonine, and Methionine in Cereal Crops (with C.E. Green)	961
Plant Regeneration from Tissue Cultures of Maize (with C.E. Green)	965
DNA Amplification Patterns in Maize Endosperm Nuclei during Kernel Development (with R.V. Kowles)	970
Oat-Maize Chromosome Addition Lines: A New System for Mapping the Maize Genome (with E.V. Ananiev, O. Riera-Lizarazu, H.W. Rines)	975
Dissecting the Maize Genome by Using Chromosome Addition and Radiation Hybrid Lines (with R.G. Kynast, R.J. Okagaki, M.W. Galatowitsch, S.R. Granath, M.S. Jacobs, A.O. Stec, H.W. Rines)	981
John Anthony Pickett, CBE, DSc, FRS	987
Curriculum Vitae	987
Scientific Interests	991
List of Publications	991
James H. Tumlinson	1023
Curriculum Vitae	1023
Brief Summary of Research Career	1026
List of Publications	1029
Exploitation of Herbivore-Induced Plant Odors by Host-Seeking Parasitic Wasps (with T.C.J. Turlings, W.J. Lewis)	1053
Diurnal Cycle of Emission of Induced Volatile Terpenoids by Herbivore-Injured Cotton Plants (with J.H. Loughrin, A. Manukian, R.R. Heath, T.C.J. Turlings)	1056
An Elicitor of Plant Volatiles from Beet Armyworm Oral Secretion (with H.T. Alborn, T.C.J. Turlings, T. H. Jones, G. Stenhagen, J.H. Loughrin)	1061
Concerted Biosynthesis of an Insect Elicitor of Plant Volatiles (with P.W. Paré, H.T. Alborn)	1066
Plant Volatiles as a Defense against Insect Herbivores (with P.W. Paré)	1071
Caterpillar-Induced Nocturnal Plant Volatiles Repel Conspecific Females (with C.M. De Moraes, M.C. Mescher)	1078
Airborne Signals Prime Plants Against Insect Herbivore Attack (with J. Engelberth, H.T. Alborn, E.A. Schmelz)	1082
Disulfooxy Fatty Acids from the American Bird Grasshopper <i>Schistocerca americana</i> , Elicitors of Plant Volatiles (with H.T. Alborn, T.V. Hansen, T.H. Jones, D.C. Bennett, E.A. Schmelz, P.E.A. Teal)	1087

W. Joe Lewis	1093
Curriculum Vitae	1093
Summary Statement of Professional Accomplishments and Activities	1101
Description of Scientific Achievements	1102
List of Publications	1109
Host Detection by Chemically Mediated Associative Learning in a Parasitic Wasp (with J.H. Tumlinson)	1126
Use of Learned Odours by a Parasitic Wasp in Accordance with Host and Food Needs (with K. Takasu)	1128
A Total System Approach to Sustainable Pest Management (with J.C. van Lenteren, S.C. Phatak, J.H. Tumlinson)	1130
Sting Operation – How a Bug Expert in Tifton Trains Wasps to Fight in the War on Terror (by L. Dittrich, Illustration by C. Johnson)	1136