

Curriculum Vitae

COLIN G. SCANES

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DEGREES

1969	Hull University (U.K.) B.Sc. (Hons.) First Class in Biological Chemistry & Zoology
1972	University of Wales (U.K.). Ph.D., 1972
1985	Hull University (U.K.) D.Sc.

CITIZENSHIP US**POSITIONS**

1972–1978	Lecturer in Animal Physiology & Nutrition, University of Leeds, U.K.
1978–1995	Rutgers—The State University of New Jersey (1978–1982, Associate Professor; 1982–1987 Professor; 1987–1995, Professor II/Distinguished Professor 1981–1995 Chairman, Department of Animal Sciences.
1994–1995	Director, Center for Animal Damage Control, Rutgers University
1995–2000	Executive Associate Dean/Associate Director College of Agriculture/Agricultural Experiment Station, Iowa State University
1999–2001	Interim Director, Plant Science Institute
1995–2004	Professor, Departments of Animal Science and Biomedical Science, Iowa State University (with continuing courtesy appointments)
2004 -2007	Vice President for Research, Mississippi State University
2007 - 2011	Vice Chancellor for Research and Economic Development/Dean of the Graduate School, University of Wisconsin, Milwaukee
2007 to date	Professor of Biological Science and on-going faculty status at Iowa State University (Collaborator professor) and Mississippi State University (Adjunct professor)

AWARDS AND HONORS

1986 Rutgers University Board of Trustees Excellence Award for Research.
1990 Paper cited as Citation Classic in Current Contents.
1991 Poultry Science Association, Merck Award for Achievement.
1995 Cook College (Rutgers University) Award for Academic Innovation.
1995 Member International Jury for the Belgian National Fund for Scientific Research quinquennial prizes for medical and biological sciences.
1996 Honorary Professor, National Agricultural University of Ukraine.
1997 Cook College (Rutgers University) Team Award - Equine Aging Research.
2000 Iowa Soybean Promotion Board Award for Service to the Industry
2001 Iowa Corn Growers Association Award for Outstanding Achievement
2002 Fellow of the Poultry Science Association
2002-2012 Judge for John Chrystal & Ahmanson Awards (World Food Prize)
2004 Fellow of the American Association for the Advancement of Science
2004 American Society of Animal Science - Bouffault International Animal Agriculture Award
2013-2016 External examiner for the University of Hong Kong

GOVERNMENT SERVICE (Federal)

1982 - date Member of National Science Foundation Panels
1985 - date Member of USDA Competitive Grants Panels (6 panels, manager of 3)
1988 National Research Council Committee on Animal Growth Biology.
1989–1990 Office of Technology Assessment Panel on Emerging Technologies in Animal Agriculture
1991 Review of USDA ARS Avian Physiology Laboratory at Beltsville.
1995 Review of the USDA ARS (Beltsville) Germ Plasm Laboratory.
1999–2001 Member Board of Directors, Sustainable Agriculture and Natural Resource Management Collaborative Research Support Program (SANREM CRSP)
2000 - date Invited Presentations to Government agencies, legislators, NGOs, scientists, & journalists on agricultural biotechnology for USDA/State Department [e.g. at US Embassy in London, Royal Society for Agriculture of England (Stoneley), Nordic countries (Estonia, Finland and Latvia), Saudi Arabia and members of the Gulf Cooperation Council.
2000-2001 DOE Biobased Products and Bioenergy Roadmapping committee
2013 EPA FQPA (Food Quality Protection Board) Science Review Board Member

GOVERNMENT SERVICE (State)

2000 Member Advisory Board of Iowa Industries of the Future program
2000 Member Iowa Governor's Life Sciences Advisory Committee
2004-2007 Member Mississippi University Research Authority (MURA) Board (President 2004)

GOVERNMENT SERVICE (International)

1992	Review of Cellular and Molecular Biology, AFRC Institute of Animal Physiology and Genetics Research, UK.
1993	Review of all (UK) Ministry of Agriculture, Food and Fisheries Research on Animal Genetics & Reproduction.
1999	Member of World Bank group evaluating the Organization and Future of Agricultural Research in the Ukraine

OTHER BOARDS

1995 – 2000	North Central Rural Development Center Board of Directors
2005 – 2007	EPSCoR Board of Directors
2006 – 2007	Research Partnership for Secure Energy for America - Board of Directors
2006 – 2009	Oak Ridge Associated Universities - Board of Directors
2004 - 2007	President Mississippi State University Research and Technology Corporation
2004-2007	Member Mississippi Research Council Board
2007 to date	Laser Interferometer Gravitational Wave Observatory (LIGO) Oversight Committee
2008 - 2011	BIOFORWARD - Board of Directors
2008 to date	Wisconsin Security Research Consortium - Board of Directors
2008 to date	Green Energy Summit - Executive Committee (Co-Chair)

ADMINISTRATIVE EXPERIENCE

Responsibilities at University of Wisconsin Milwaukee

2007 - 2011	Vice Chancellor for Research and Economic Development/Dean of the Graduate School with the following responsibilities: <ul style="list-style-type: none"> • Graduate school of 5100 masters and doctoral students with multiple new programs (4 masters; 7 doctoral) approved and with students admitted; • Oversight of the University's research and economic development programs and budget; • Charged with increasing research expenditures (increased 26.6 % in 2009/2010); • University Wide Centers and Institutes in social, physical and life sciences and engineering report to the VCR; • Sponsored Programs Administration; • Associated responsibilities <ul style="list-style-type: none"> ○ Metropolitan Milwaukee Advanced Manufacturing Council ○ University of Wisconsin Milwaukee Research Foundation Board
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Responsibilities at Mississippi State University

2004 - 2007	Vice President for Research with the following responsibilities: <ul style="list-style-type: none"> • Establishing Research Priorities for Federal and other initiatives; • Oversight of the University's \$150 research budget;
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- University Wide Centers and Institutes in social, physical and life sciences and engineering report to the VP Research and Graduate Studies;
- Sponsored Programs Administration;
- Faculty Start-up packages;
- Research Compliance (e.g. Human subjects, Animal Use, Ethical conduct of research);
- Laboratory animal care;
- Health and human safety (radiation, biological agents, chemical waste etc.);
- Research commercialization, technology based economic development and the research park.
- Member of the university strategic planning committee.

Iowa State University

1995–2000	Executive Associate Dean/Associate Director (see below for responsibilities)
1998–2001	Member, Board of Directors/Executive committee, National Alliance for Food Safety (partnership of 19 universities + USDA ARS)
1999–2001	Representing ISU to National Agricultural Biotechnology Council (NABC)

Interim Director, Plant Sciences Institute (1999–2000)

- Developed University wide initiative to propel Iowa State University to be among the very best in plant sciences. [Achieved: \$98 M endowment, increased state funding by \$5M/per year and increased grant funding by \$12M/year]

1 * Establish 5 new Centers (Plant Genomics, Transformation/Gene Expression, Breeding, Bioinformatics and Responses to Environmental Stresses).

2 * New laboratory building completed.

3 * Established new strategic partnerships including:

- Midwest Consortium for Sustainable Biobased products and Bioenergy [with Argonne National Laboratory, University of Illinois, Urbana-Champaign, Michigan State University, and Purdue University];
- Partnerships with International Wheat & Maize Breeding Center (CYMMIT), Fudan University (Shanghai), Frei Universität Berlin, University of Bristol, UK.

Administrative Responsibilities as Executive Associate Dean/Associate Director, Iowa Agriculture and Home Economics Experiment Station, Iowa State University (1995–2000)

- 1 . Internal dean with day-to-day responsibility for teaching, research and extension budgets of the College of Agriculture (COA), (budget COA ~\$19million/year, IAHEES \$78M).
 - 4 * College/AES budget and accountability reports.
 - 5 * Oversight of external grants/contracts, reviews of departments.
- 2 . Acting Dean in absense (e.g. 4 month periods) or at request of Dean.
- 3 . Research centers reported to CGS>

- 4 . Work with State agencies (e.g., Iowa Department of Economic Development) for economic development.
- 5 . National Association of State Universities and Land-Grant Colleges (NASULGC) Board on Agriculture committees: Biotechnology Committee, NRSP-8, National Animal Genome Research Project, Partnerships Committee, Committee on Budget, Legislative, Advocacy and Marketing]. North Central Regional Association of Agricultural Experiment Station Directors Research Committee (Chair, 1998–1999).

Summary of Administrative Responsibilities at Rutgers University (1981-1995)

- 1 . Chair, Department of Animal Science (1981–1995) developing a strong research program from "scratch"; increasing quality of instruction at the undergraduate & graduate levels;
- 2 . Founding Director, Center for Animal Damage Control (1994–1995).
- 3 . Member of 21 university-wide committees, including animal care (chair, 1987–1989), research, budget, planning, and athletics oversight committee; 13 college committees including strategic planning, department chairs, research, student life, honors, appointment/promotions; and 10 search committees for administrative positions.

INTERNATIONAL EXPERIENCE (excluding government service)

1977	Visiting Fellow at Hungarian Veterinary University, Budapest
1984	Visiting Scientist at Volcani Institute, Rehovot, Israel
1986	Panama Agricultural Technology Development Project (USAID) Team Leader—Livestock Team
1990	NATO Fellowship at Catholic University of Leuven, Belgium
1981–date	International Scientists Visiting Laboratory for Prolonged Period; includes scientists from Hungary, Ireland, Singapore, France, Canada, Mexico, PRC, Romania.
1991 to date	Visiting Professor: Catholic University of Leuven, Belgium (1991); Autonomous University of Mexico (1994)
1996	Organizer, Conference on Agriculture and Agricultural Policy (Kiev)
2003 to date	Invited speaker on agricultural biotechnology in China, Estonia, Hungary, Korea, Latvia, Finand, UAE, UK, Ukraine.

PROFESSIONAL ACTIVITIES INCLUDE

1984–1992	International Committee for Avian Endocrinology (Chairman 1984–1988)
1987–date	Member Editorial Board, <i>Domestic Animal Endocrinology, The Journal of Experimental Zoology, Proceedings for the Society of Experimental Biology, Animal Biotechnology, General and Comparative Endocrinology, Critical Reviews in Poultry Biology, ISRN Endocrinology</i>
2003 to date	Board International Society for Farm Animal Endocrinology
2004 - 2010	Editor in Chief <i>Poultry Science</i>

TEACHING

University of Wisconsin, Milwaukee

Undergraduate - 3 courses (Anatomy and Physiology) per year to 1100 students

Iowa State University

Undergraduate - 4 courses per year: *Graduate* – 1 course per year

Rutgers University

Undergraduate – 2.5 courses per year (freshman to senior): *Graduate* – 1.5 course per year

Graduate Education

Major Advisor to Graduate Students 9 M. S. Graduates; 15 Ph.D. Graduates; 8 Post Docs.

GRANTS AND CONTRACTS**1. Competitive Federal and Industry Research Funding (Rutgers University):**

• Private Industry	\$794,000
• National Institute of Health	\$128,000
• National Science Foundation	\$669,000
• United States Department of Agriculture	\$864,000

2 . Grants (Iowa State University)

• United States Department of Agriculture special grants, ARS cooperative agreements, commodity groups etc.	\$6.8million
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3 . Grants to Mississippi State University with CGS as P.I.

- National Science Foundation (EPSCoR) \$8.95 million
- Other grants \$125,000
- Land gift ~\$1.5 million

4. Grants to University of Wisconsin, Milwaukee

- Small Business Administration funding (\$535,000) for a Water Technology business incubator

PUBLICATIONS

Books 13

Reviews/chapters 73

Refereed papers 272

Abstracts >220

Other publications 58

For full details see below

MONOGRAPHS

1. Growth Hormone: Basic, Clinical and Applied Aspects. S. Harvey, C.G. Scanes and W.H. Daugherday. CRC Press (1994).

BOOKS EDITED

1. Aspect in Avian Endocrinology (Eds. C.G. Scanes, M.A. Ottinger, A.D. Kenny, J. Balthazart, J. Cronshaw and I. Chester Jones). Texas Tech Press (1982).
2. Proceeding of the Third International Symposium on Avian Endocrinology (Eds. A. L. Johnson, P. Pang and C. G. Scanes). 1985 Journal of Experimental Zoology Supplement 1.
3. Development, Maturation and Senescence of Neuroendocrine Systems: A Comparative Approach (Eds. M. P. Scheibman and C. G. Scanes). Academic Press (1989).
4. Progress in Comparative Endocrinology (Eds. A. Epple, C.G. Scanes, and M.H. Stetson) Wiley-Liss, New York (1990).
5. Endocrinology of Birds: Molecular to Behavioral (Eds. Wada, M., Ishii, and Scanes, C.G.). Japanese Scientific Press (1990).
6. The Endocrinology of Growth, Development and Metabolism in Vertebrates (eds. M.P. Schreibman, C.G. Scanes and P. Pang). Academic Press (1993).
7. Handbook on Hormonal Assay Techniques (eds. F. de Pablo, C.G. Scanes and B.D. Weintraub). Academic Press (1993).
8. Perspectives of World Food and Agriculture: 2004 (C.G. Scanes and J. Miranowski) Iowa State Press/Blackwell
9. Perspectives of World Food and Agriculture: Volume 2 (J. Miranowski and C.G. Scanes) Blackwell (2005)

TEXTBOOKS

1. Biology of growth of domestic animals (C.G. Scanes) Iowa State Press/Blackwell (2003).
2. Poultry Science (C.G. Scanes, G.Brant and M.E, Ensminger) Prentice Hall (2003)
3. Fundamentals of Animal Science. (Scanes, C.G.) Delmar Cengage, Clifton Park, NY. (2011)

CHAPTERS IN BOOKS, REVIEWS AND CONFERENCE PROCEEDINGS

1. Follett, B.K., Scanes, C.G. and Nicholls, T.J. 1972. "The chemistry and physiology of avian gonadotrophins". In: Hormones Glycoproteins Hypophysaire. (M. Jutisz, ed.) Inserm, Paris.
1. Care, A.D., Bates, R.F.L., Swaminathan, R., Scanes, C.G., Peacock, M., Mawer, E.D., Taylor, C.M., DeLuca, H.G., Tomlinson, S. and O'Riordan, J.L.H. 1975. "The control of parathyroid hormone and calcitonin secretion and their interaction with other endocrine systems". Excerpta Medica International Congress Series 346, 100-110.
1. Scanes, C.G., Harvey, S. and Chadwick, A. 1977. "Hormones and growth in Poultry". In: Growth and Poultry Meat Production pp 79-85. (K.M. Boorman and B.J. Wilson, eds.), British Poultry Science, Edinburgh.
1. Scanes, C.G. 1981. Adenohypophyseal Hormones: Their chemistry, physiology and control". pp. 61-72. In: Recent Progress in Avian Endocrinology. (G. Pethes and P. Peczely, eds.). Pergamon Press.

1. Rabii, J., Buonomo, F. and Scanes, C.G. 1981. "Studies on the hypothalamic regulation of luteinizing hormone secretion in the domestic fowl". In: Recent Progress in Avian Endocrinology (G. Pethes and P. Peczely, eds.) Pergamon Press.
1. Scanes, C.G., and Harvey, S. 1981. "Minireview-Growth Hormone and prolactin in avian species". *Life Sciences* 28, 2895-2902.
1. Scanes, C.G., Rabii, J., and Buonomo, F.C. 1982. "Brain amines and regulation of anterior pituitary secretion in the domestic fowl". In: Aspects of Avian Endocrinology. (Eds. C.G. Scanes, M.A. Ottinger, A.D. Keenny, J. Balthazart, J. Cronshaw and I. Chester Jones). Texas Tech Press pp. 13-31.
1. Harvey, S., Chadwick, A., Border, G., Scanes, C.G. and Phillips, J.G. 1982. "Neuroendocrine control of prolactin secretion". In: Aspects of Avian Endocrinology. pp. 41-64.
1. Luck, M.R. and Scanes, C.G. 1982. "Calcium homeostasis and the control of ovulation". In: Aspects of Avian Endocrinology. pp. 263-282.
1. Scanes, C.G. and Harvey, S. 1982. "Hormones, nutrition and metabolism in birds". In: Aspects of Avian Endocrinology. pp. 173-184.
1. Scanes, C.G., 1983. "Growth Hormone in Domestic Animals: Its Role, Physiological Control and Relationship to Nutrition". In: Monsanto Symposium, Present and Future Trends in Animal Nutrition and Feed Manufacturing Technology. In conjunction with the 1983 Arkansas Nutrition Conference. pp. 29-52.
1. Johnson, A.L., Foss, D.C., Scanes, C.G. and Osol, R.G. 1983. Chapter 6—Biochemical Measurements, pp. 43-54. In: Biomeasurements and Experimental Techniques for Avian Species, Northeast Regional Research Project NE-61, Cornell University Agricultural Experiment Station, New York State College of Agriculture and Life Sciences.
1. Scanes, C.G., Lauterio, T.J. and Buonomo, F.C. 1983. "Annual Developmental and Diurnal Cycles of Pituitary Hormone Secretion". In: Avian Endocrinology, Environmental and Ecological Perspectives (Eds. S. Mikami) pp. 307-328. Japanese Scientific Press (Springer Verlag).
1. Scanes, C.G. 1984. "Growth Hormone in Domestic Animals". In: Monsanto Technical Symposium Preceeding the California Nutrition Council Nutrition Conference pp. 35-52.
1. Scanes, C.G., Stockell Hartree, A. and Cunningham, F.C. 1984. "The Pituitary Gland". In: Biochemistry and Physiology of the Domestic Fowl: Vol. V pp. 39-84. (Ed. B. Freeman) Academic Press.
1. Scanes, C.G., Hall, T.R. and Harvey, S. 1984. The Physiology of Growth Hormone In Poultry. *Domestic Animal Endocrinology* 1,201-215.
1. Scanes, C.G. and Bowen, S.J. 1984. The Role of Growth Hormones In: The Domestic Fowl. In: Proceedings of the Thirty-Third Annual National Breeder's Roundtable pp. 42-69.
1. Scanes, C.G. 1984. "Hypothalamic, pituitary and gonadal hormones". In: Reproductive Biology of Poultry (Eds. F.J. Cunningham, P.E. Lake and D. Hewitt) pp. 1-14. British Poultry Science (Longman Group) Harlow, England.
1. Scanes, C.G., Harvey, S., Marsh, J.A. and King, D.B. (1984) Hormones and growth in poultry. *Poultry Science* 63, 2062-2074.
1. Scanes, C.G. and Lauterio, T.J. (1984) Growth hormone, its physiology and control. *The Journal of Experimental Zoology* 232:443-452.
1. Marsh, J.A. and Scanes, C.G. (1984) "Endocrine aspects of the administration of exogenous growth hormone to chicks". Proceedings of the Cornell Nutrition Conference pp 18-26.

1. Scanes, C.G. and Campbell, R. (1984). "Growth hormone: its role in growth and relationship to nutrition in domestic animals". Proceedings of the Animal Nutrition Research Council. pp. 18-28.
1. Scanes, C.G., Buonomo, F.C. and Rabii, J. (1985). "Hypothalamic Control of Luteinizing Hormone in the Fowl: Influence of Endogenous Rhythms and Stress". In: Current Trends in Comparative Endocrinology. (Eds. B. Loftus and W. N. Holmes). pp. 99-104. University of Hong Kong Press.
1. Scanes, C.G. (1985). "Regulation of Growth in Birds and Mammals". In: Regulation of Growth and Lactation in Animals (Eds. L. A. Schuler and N. L. First). pp. 43-48. University of Wisconsin, Biotechnology Center Series No. 1.
1. Scanes, C.G., Campbell, R., Harvey, S., King, D., Malamed, S. and Perez, F. (1986) "Growth hormone in Birds: A comparative perspective". In Perspectives in Comparative Endocrinology. (Ed. C. L. Ralph) pp. 115-136. Alan R. Liss, New York.
1. Grimminger, P. and Scanes, C.G. (1986) "Protein Metabolism". In: Avian Physiology (Ed. P. Sturkie). pp. 326-344. Springer Verlag, New York.
1. Scanes, C.G. (1986) "Hypophysis" In: Avian Physiology (Ed. P. Sturkie). pp. 383-402. Springer Verlag, New York.
1. Harvey, S., Brown, K.I. and Scanes, C.G. (1986) "Adrenals" In: Avian Physiology (Ed. P. Sturkie). pp. 479-493. Springer Verlag, New York.
1. Hall, T.R., Harvey, S. and Scanes, C.G. (1986). "Control of growth hormone secretion in the vertebrates: A comparative survey". Comparative Biochemistry and Physiology 84A, 231-253.
1. Scanes, C.G., Lauterio, T.J. and Perez, F.M. (1986). "Somatomedins in domestic animals". IRCS Medical Science 14, 515-518.
1. Harvey, S., Scanes, C.G., and Phillips, J.G. (1986) Avian reproduction. In: "Fundamentals of Comparative Vertebrate Endocrinology". Vol. II Reproduction in Non-Mammalian Vertebrates. Eds. I. Chester-Jone, P. Ingleton and J.G. Phillips, Plenum Press, London pp. 125-185.
1. Scanes, C.G., Campbell, R. and Grimminger, P. (1987). Control of energy balance during egg production in the laying hen. Journal of Nutrition 117, 605-611.
1. Scanes, C.G., Hart, L.E., Decuypere, E. and Kuhn, E.R. (1987). Endocrinology of the avian embryo: an overview. Journal of Experimental Zoology Supplement 1, 253-264.
1. Scanes, C.G. (1987) The physiology of growth, growth hormone, and other growth factors in poultry. CRC Critical Rev. in Poultry Biology 1, 51-105.
1. Scanes, C.G. (1989) The hypothalamo-pituitary (growth hormone)—somatomedin axis. In: Development, Maturation and Senescence of Neuroendocrine Systems—A comparative approach. pp 307-331 (Edr. M.P. Schreibman and Colin G. Scanes) Academic Press, San Diego.
1. Scanes, C.G., Aramburo, C. and Campbell, R.M. (1990) Hormonal involvement in avian growth and development: growth hormone and insulin-like growth factor I. In: Endocrinology of Birds: Molecular to Behavioral pp. 93-110. Eds M. Wada, S. Ishii and C.G. Scanes. Japanese Scientific Society Press.
1. Scanes, C.G. and Grimminger, P. (1990) Endocrine-nutrition interactions in birds. Journal of Experimental Zoology Supplement 4, 98-105.

1. Boyd, R.D., Bauman, D.E., Fox, D.G. and Scanes, C.G. (1991) Impact of metabolism modifiers on protein accretion and protein and energy requirements of livestock. *J. Anim. Sci.* 69 Suppl. 2, 56-75.
1. Vasilatos-Younken, R. and Scanes, C.G. (1991) Growth hormone and insulin-like growth factors on poultry growth: required, optimal, or ineffective. *Poultry Science* 70, 1764-1780.
1. Aramburo, C. and Scanes, C.G. (1991) SDS-Polyacrylamide gel electrophoresis for the analysis of proteins (e.g. Variants of avian growth hormone and prolactin). In: *Handbook of Techniques for Reproductive Studies on Pigs, Sheep, Cows, Horses, Chicken, Goats and Rabbits* (P.J. Dziuk and M.B. Wheeler, Eds.), Animal Sciences, University of Illinois, Urbana, Section 12.
1. Aramburo, C. and Scanes, C.G. (1991) Analysis of pituitary hormones by Western blot and immunostaining (e.g. Variants of avian growth hormone and prolactin). In: *Handbook of Techniques for Reproductive Studies on Pigs, Sheep, Cows, Horses, Chicken, Goats and Rabbits* (P.J. Dziuk and M.B. Wheeler, Eds.), Animal Sciences, University of Illinois, Urbana, Section 12.
1. Lacambe, D., Bird, D.M., Scanes, C.G. and Hubbard, K.A. (1991) Plasma growth hormone levels on nestling American Kestrels (*Falco sparverius*). In: *Biology and Conservation of Small Falcons* (Eds. M.K. Nicolls and R. Clarke). pp 90-96. The Hawk and Owl Trust, London
1. Scanes, C.G. and Campbell, R.M. (1992) Evolution of growth related hormones and factors: the insulin and insulin-like growth factor family. In: *The endocrinology of growth, development and metabolism in vertebrates* (Eds. M.P. Schreibman, C.G. Scanes and P.K.T. Pang) pp 559-588. Academic Press.
1. Scanes, C.G. and Baile, C. (1992) Manipulation of Animal Growth. In: *The endocrinology of growth, development and metabolism in vertebrates* (Eds. M.P. Schreibman, C.G. Scanes and P.K.T. Pang) pp 541-557.
1. Scanes, C.G., Fennell, M.J. and Radecki, S.V. (1992) What is the potential for the application of hormones and other metabolism modifiers to poultry production? In: *Proceedings of the Cornell Nutrition Conference* pp 120-126.
1. Scanes, C.G., Radecki, S.V. and Malamed, S. (1992) Mechanisms involved in the avian patterns of growth hormone secretion during growth and development. *Ornis Scandinavica* 23, 214-221.
1. Campbell, R.M., and Scanes, C.G. (1992) Evolution of the growth hormone-releasing factor (GRF) family of peptides. *Growth Regulation* 2, 175-191.
1. Scanes, C.G., Boone, F., McCann-Levorse, L., Marsh, J.A., Kuhn, E.R. and Decuypere, E. (1993) The sex-linked dwarf (dw) chicken: a model for Laron dwarfism? In: *Pediatric and Adolescent Endocrinology* Vol 24 [Lessons from Larson Syndrome (LS) 1966-1992; Eds. Z. Laron and J.S. Parks] pp 313-318, S. Karger, Basel.
1. Hull, K.L., Harvey, S., Marsh, J.A., Boone, F., McCann-Levorse, L. and Scanes, C.G. (1993). Growth hormone receptor gene expression on sex-linked dwarf chickens: a model of Laron-type dwarfism? In: *Pediatric and Adolescent Endocrinology* Vol. 24 [Lessons from Larson Syndrome (LS) 1966—1992; Eds., Z. Laron and J.S. Parks], pp 294-309, S. Karger, Basel.
1. Scanes, C.G., Aramburo, C., Campbell, R.M., Kopchick, J.J. and Radecki, S.V. (1993). Chemistry and physiology of poultry growth hormone. In: *Avian Endocrinology* (ed. P. J. Sharp) pp 261-273, *Journal of Endocrinology*, Bristol.

1. Callard, I.P., Riddiford, L., and Scanes, C.G. (1993) Use of nonmammalian animal models on endocrine investigations. In: *Handbook of Endocrine Research Techniques* (Edited F. de Pablo, C.G. Scanes and B.D. Weintraub), pp 529-553.
1. Marsh, J.A., and Scanes, C.G. (1994). Neuroendocrine-immune interactions. *Poultry Science* 73, 1049-1061.
1. Scanes, C.G., Aramburo, C., and Capdevielle, M. (1994). The role of growth hormone and insulin-like growth factor in poultry growth. In: *Proceedings of the 9th European Poultry Conference*, Volume 2, pp 304-307.
1. Scanes, C.G. and Lilburn, M. (1994). Poultry Production. In: *Encyclopedia of Agricultural Science* Volume 3, 441-450.
1. Scanes, C.G. and Vasilatos-Younken, R. (1995). Somatotropic axis and growth in broilers. In: *Archiv Fur Geflugel-Kunde (European Poultry Science)* 1995 Supplement, 9-13.
1. Campbell, R.M. and Scanes, C.G. (1995). Endocrine peptides “moonlighting” as immune modulators: roles for somatostatin and GH-releasing factor. *Journal of Endocrinology* 147, 383-396.
1. Scanes, C.G. (1995) Poultry adipose tissue. In: *The Biology of Fat* (Eds. S.B. Smith and D.R. Smith) pp. 113-128. American Society of Animal Science, Champagn, IL.
1. Scanes, C.G., Radecki, S.V. and Aramburo, C. (1996). Growth hormone and growth factors in avian development. In: *Poultry and Avian Biology Reviews* 7, 89-98.
1. Radecki, S.V. and Scanes, C.G. (1997). The hypothalamo-pituitary growth hormone-insulin-like growth factor axis: coupling and uncoupling. In: *Perspectives in Avian Endocrinology* (Eds. S. Harvey and R.J. Etches). pp. 119-130. *Journal of Endocrinology Ltd.*, Bristol.
1. Scanes, C.G. (1997) Ontogeny of the hypothalamic-pituitary (growth hormone)-insulin-like growth factor-I axis in birds. *American Zoologist* 37, 524-535.
1. McNabb, F.M.A., Scanes, C.G., and Zeeman, M. (1998) The Endocrine System. In: *Avian Growth and Development: Evolution within the altricial-precocial spectrum* (eds. J.M. Starck and R.E. Ricklefs) pp. 174-202, Oxford University Press, Oxford.
2. Scanes, C.G. (1999). Hormones and growth in domestic animals. In: *Handbook of Physiology*, Section 7 The Endocrine System, Volume V: Hormonal Control of Growth (Eds. J.L. Kostyo and H.M. Goodman). pp. 99-127, Oxford University Press, New York.
3. Scanes, C.G. (2000) “Introduction to Endocrinology: Pituitary Gland.” In: *Sturkie's Avian Physiology* (Ed. G. C Whittow). pp. 437-460. Academic Press, San Diego.
4. Cogburn, L.A., Burnside, J., and Scanes, C.G. (2000) “Physiology of Growth and Development.” In: *Avian Physiology* (Ed. P. Sturkie), pp. 635-656. Academic Press, San Diego.
5. Scanes, C.G. and McNabb, A.F. (2003) Avian models for toxicological research. *Avian and Poultry Biology Reviews* 14, 21-52.
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