

Supplementary Material

John Atherton Young 1936–2004

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FULL NAME John Atherton YOUNG

BIRTH Brisbane, Queensland, Australia, 18 April, 1936

HONOURS & PRIZES 1994-2000 Officer, Order of Australia
Research Prize of the Alexander von Humboldt Foundation,
Germany Honorary Fellow, Pharmaceutical Society of Australia
Honorary Life Member, Australian Physiological and Pharmacological
Society Annual Orator and Gold Medallion, Menzies School of Health
Research, Darwin

CITIZENSHIP
Australian

EDUCATION AND TRAINING

1943-49	Primary	Eagle Junction State School, Brisbane
1950-53	Secondary	Church of England Grammar School, Brisbane
1954-60	Tertiary	University of Queensland
1961	Professional	Royal Brisbane Hospital
1962-64	Doctoral	Kanematsu Memorial Institute, Sydney Hospital
1965-66	Post-Doctoral	Physiologisches Institut der freien Universität Berlin

ACADEMIC AND PROFESSIONAL QUALIFICATIONS

1954	Matriculated, University of Queensland, State Government Open Scholarship
1958	Bachelor of Science (University of Queensland), Honours I (School of Pathology)
1960	Bachelor of Medicine & Bachelor of Surgery (University of Queensland), Honours I
1961	University of Queensland Medal
1965	Doctor of Medicine (University of Queensland)
1973	Member, Royal Australasian College of Physicians
1975	Doctor of Science (University of Queensland)
1976	Fellow, Royal Australasian College of Physicians
1986	Fellow, Australian Academy of Science

PROFESSIONAL APPOINTMENTS

1961	Junior Resident Medical Officer, Royal Brisbane Hospital
1962- 64	Senior Research Officer, National Health and Medical Research Council of Australia, Kanematsu Memorial Institute, Sydney Hospital CJ Martin Fellow, National Health and Medical Research Council of Australia, Freie Universität Berlin
1965- 66	

1966-71	Senior Lecturer, Department of Physiology, University of Sydney
1972-75	Associate Professor, Department of Physiology, University of Sydney
1976-2001	Professor of Physiology, University of Sydney
1976-80, 85-89	Head, Department of Physiology, University of Sydney
1989-97	Dean, Faculty of Medicine, University of Sydney
1992-93	Interim Director, Kolling Institute for Medical Research
1993	Head of Academic Group C (Health Sciences), University of Sydney
1994-97	Pro-Vice-Chancellor (Health Sciences) (part time), University of Sydney
1997-	Pro-Vice-Chancellor (Health Sciences) (full time), University of Sydney

HONORARY APPOINTMENTS

Hospitals

1969-83	Consultant Renal Physiologist, Sydney Hospital
1985-	Consultant Physiologist, Royal Prince Alfred Hospital
1989-	Consultant Physiologist, Royal North Shore Hospital
1990-	Consultant Endocrinologist, Royal Prince Alfred Hospital
1994-	Consultant Gastroenterologist, Concord Repatriation General Hospital

Foundations

1974-80	Director, Australian Kidney Foundation
1989-92	Governor, Children's Medical Research Institute
1989-93, 96-97	Governor, Heart Research Institute
1989-	Governor, The Medical Foundation, University of Sydney
1989-98	Director, Sir Robert Menzies Memorial Foundation
1990-98	Governor, Centenary Institute of Cancer Medicine and Cell Biology
1992-99	Director, Institute of Respiratory Medicine
1992-97	Trustee, Sir Zelman Cowan Foundation
1995-	Trustee, Arthur T. George Foundation
1995-	Chair, Anzac Health and Medical Research Foundation
1996-97	Director, Northern Medical Research Foundation
2000-	Trustee, Sydney Foundation for Medical Research

Health-Related Boards

1987-88	Member, Sydney Health Service Board	
1989	Member, New South Wales State Cancer Council	
1989-	Director, Royal Alexandra Hospital for Children	
1989-	Member, Central Sydney Area Health Service Board (Chair 1993, since 1 July 1993)	Deputy Chair
1990-91	Director, United Dental Hospital	
1990-93	Member, Advisory Board, Repatriation General Hospital Concord	
1991-95	Member, Accreditation Committee, Australian Medical Council	
1991, 2000-	Member, National Health and Medical Research Council	
1991-97	Member, Australian Army Malaria Research Advisory Board	
1992-97	Chair, Menzies School of Health Research Board	
1998-2000	Deputy Chair, Menzies School of Health Research Board	
1993-	Chair, Medical and Dental Appointments Advisory Committee, Central Health Service	Sydney Area
1994-96	Chair, Committee of Deans of Australian Medical Schools	
1995	Member, Australian Medical Workforce Advisory Council	
1996-97	Member, Australian Medical Council (Executive Committee 1966)	

1999- Member, New South Wales Medical Board
2001- Director, CRC for Asthma

Australian Academy of Science

1984-90 Member, National Committee for Physiology
1989-92 Member of Council
1991-98 Member, National Committee for Medicine
1998-2001 Vice President and Secretary (Biological)

Editorial

1972- Editor, *Proceedings of the Australian Physiological and
75 Pharmacological Society* Editorial Board, *Australian Journal
1972- of Experimental Biology and Medical Science* Corresponding
83 Editor, *Physiological Reviews*
1978- Editor in Chief, *International Review of Physiology, Gastrointestinal
83 Section*
1980- Field Editor, *Pflügers Archiv European Journal of
83 Physiology* Editorial Board, *International
1981- Journal of Oral Biology* Editorial Board,
1999- *Japanese Journal of Physiology*
2000-

Physiology	<i>Gastwissenschaftler, Physiologisches Institut der freien</i>
1965-66	<i>Universität Berlin Gastwissenschaftler, Max Planck Institut für</i>
1971 & 1974	<i>Biophysik, Frankfurt</i>
1972-75	Executive Member of Council, Australian Physiological and
1980-93	Pharmacological Society Chair, Gastrointestinal Commission,
1983-88	International Union of Physiological Sciences Chief Executive Officer,
1990-94	Australian Physiological and Pharmacological Society Member of
1992-94	Council, Federation of Asian and Oceanian Physiological Societies
1993-2001	Visiting External Examiner in Physiology, Chinese University of Hong
1994-98	Kong Member of Council, International Union of Physiological
1998-	Sciences
1995-99	Vice President, Federation of Asian and Oceanian Physiological
Miscellaneous	Societies President, Federation of Asian and Oceanian
1970-78	Physiological Societies President, Australian Physiological and
1985-2000	Pharmacological Society
1987-	Member, Council of Musica Viva
	Australia Governor, Foundation for
	Classical Archaeology
	Governor, Australian Archaeological Institute at Athens (Treasurer since 1999)

APPOINTMENTS AT THE UNIVERSITY OF SYDNEY

University Senate	Fellow of Senate (staff-elected)
1978-81, 84-5, 88-9	Fellow of Senate (ministerial
1990-93	appointment) Senate Buildings and
1980, 84-85, 88-93	Grounds Committee Senate Finance
1988-93	and Planning Committee
Academic Board	Elected
1975-76	member
1976-96	Professorial
1978-80	member Deputy
1976-79	Chair
1978-80	Chair, Library
1976-79	Committee Chair,
1978-80	Admissions Committee
1978-80	Chair, Matriculation
1978-80	Committee
1978-80	Chair, Orientation Week
1978-80	Committee Chair, Cancer
Faculty of Medicine	Research Committee Chair,
1989-97	PhD Committee
1978-89	Dean
1986-89	Sub-Dean (Academic Affairs)
	Chair, Board of Postgraduate Studies

University Departments

1976-82 86-89	Head of Department of Physiology
1988-89	Head of Department of Histology and Embryology

The Sydney Association of University Teachers

1976-78	Member of Council
1977	President

SOCIETY MEMBERSHIPS

1962-	Australian Society for Medical Research
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1967- Australian Physiological and Pharmacological Society
1990- The Physiological Society (UK)
1990- American Physiological Society
1991- Deutsche Physiologische Gesellschaft (Korrespondierendes
Mitglied)

Publications of Professor J.A. Young

Original Monographs

1978 Young, J.A. & Van Lennep, E.W. (1978) *The Morphology of Salivary Glands*. London: Academic Press.

Theses

1958 Young, J.A. (1958) *The Effects of Certain Chemicals on the Developing Chick Embryo*. Brisbane: BSc(Hons) Thesis, University of Queensland.

1960 Young, J.A. (1960) *The Effects of Propyl Thiouracil Induced Hypothyroidism on Developing Chick Embryo Bones*. Brisbane: Essay, University of Queensland.

1965 Young, J.A. (1965) *Stop-Flow Studies and Amino Acid Transport in the Rat*. Brisbane: MD Thesis, University of Queensland.

1974 Young, J.A. (1974) *Transepithelial Transport*. Brisbane: DSc Thesis, University of Queensland.

Textbooks

1991 Young, J.A., Cook, D.I., Conigrave, A.D. & Murphy, C.R. (1991) *Gastrointestinal Physiology*. Sydney: Rainforest Publishing.

Edited Monographs

1982 Case, R.M., Gamer, A., Tumberg, L.A. & Young, J.A. (1982) *Electrolyte and Water Transport Across Gastrointestinal Epithelia*. New York: Raven Press.

1983 Young, J.A. (1983) *Gastrointestinal Physiology IV, International Review of Physiology, Volume 28*. Baltimore: University Park Press.

1984 Case, R.M., Lingard, J.M. & Young, J.A. (1984) *Secretion: Mechanisms and Control*. Manchester: Manchester University Press.

1988 Wong, P.Y.D. & Young, J.A. (1988) *Exocrine Secretion*. Hong Kong: Hong Kong University Press.

1990 Wong, P.Y.D. & Young, J.A. (1990) *Exocrine Secretion II*. Hong Kong: IUPS Gastrointestinal Commission (ISES).
Young, J.A. & Wong, P.Y.D. (1990) *Epithelial Secretion of Water and Electrolytes*. Berlin: Springer-Verlag.

1994 Poronnik, P., Cook, D.I. & Young, J.A. (1994) *Studies in Honour of Karl Julius Ullrich. An Australian Symposium*. Sydney: Laboratory of Exocrine Physiology and Biophysics.

Original Articles in Refereed Publications

- 1964** Young, J.A. & Edwards, K.D.G. (1964) Stop-flow analysis of phenolsulphonphthalein excretion and visual localization of the site of maximal urine acidification in the rat nephron. *Australian Journal of Experimental Biology and Medical Science* 42: 539-542.
- Young, J.A. & Edwards, K.D.G. (1964) Stop-flow analysis of renal tubular function in the rat undergoing osmotic diuresis due to creatinine loading. *Australian Journal of Experimental Biology and Medical Science* 42: 667-688.
- Young, J.A. & Edwards, K.D.G. (1964) Studies on the absorption, metabolism and excretion of methyl-dopa and other catechols and their influence on amino acid transport in rats. *Journal of Pharmacology and Experimental Therapeutics* 145: 102-112.
- 1966** Young, J.A. & Edwards, K.D.G. (1966) Clearance and stop-flow studies on histidine and methyl-dopa transport by rat kidney. *American Journal of Physiology* 210: 667-675.
- Young, J.A. & Edwards, K.D.G. (1966) Competition for transport between methyl-dopa and other amino acids in rat gut loops. *American Journal of Physiology* 210: 1130-1136.
- Young, J.A. & Schögel, E. (1966) Micropuncture investigation of sodium and potassium excretion in rat submaxillary saliva. *Pflügers Archiv European Journal of Physiology* 291: 85-98.
- 1967** Fromter, E., Young, J.A., Schögel, E. & Hamann, K.F. (1967) Resorption of sodium and secretion of potassium by the main excretory duct of the rat submaxillary gland. *Modern Problems in Pediatrics* 10: 118-124.
- Young, J.A., Fromter, E., Schögel, E. & Hamann, K.F. (1967) A microperfusion investigation of sodium resorption and potassium secretion by the main excretory duct of the rat submaxillary gland. *Pflügers Archiv European Journal of Physiology* 295: 157-172.
- 1968** Young, J.A. (1968) Microperfusion investigation of chloride fluxes across the epithelium of the main excretory duct of the rat submaxillary gland. *Pflügers Archiv European Journal of Physiology* 303: 366-374.
- 1969** Shagrin, J. & Young, J.A. (1969) A micropuncture investigation of the cation content and osmolality of colloid from single rat thyroid acini. *Pflügers Archiv European Journal of Physiology* 307: 204-210.
- 1970** Cooke, H.J. & Young, J.A. (1970) Development of glomerular filtration rate and electrolyte and osmolal clearance in the late-embryonic and newly hatched chicken. *Pflügers Archiv European Journal of Physiology* 318: 315-324.
- Hayden, L.J., Shagrin, J.M. & Young, J.A. (1970) Micropuncture investigation of the anion content of colloid from single rat thyroid follicles. A micromethod for the simultaneous determination of iodide and chloride in nanomole quantities. *Pflügers Archiv European Journal of Physiology* 321: 173-186.
- Tuck, R.R., Setchell, B.P., Waites, G.M.H. & Young, J.A. (1970) The composition of fluid collected by micropuncture and catheterization from the seminiferous tubules and rete testis of rats. *Pflügers Archiv European Journal of Physiology* 318: 225-243.
- Waites, G.M.H., Setchell, B.P., Tuck, R.R. & Young, J.A. (1970) The fluid in the seminiferous tubules and excurrent ducts of the testis of the rat and sheep. *Advances in Andrology* 1: 116-118.
- Young, J.A., Hayden, L.J. & Shagrin, J.M. (1970) Micropuncture investigation of the effect of altered thyroid function on the cation concentrations and equilibrium potentials in rat thyroid colloid. *Pflügers Archiv European Journal of Physiology* 321: 187-196.
- Young, J.A., Martin, C.J., Asz, M. & Weber, F.D. (1970) A microperfusion investigation of bicarbonate secretion by the rat submaxillary gland. The action of a parasympathomimetic drug on electrolyte transport. *Pflügers Archiv European Journal of Physiology* 319: 185-199.

- 1971** Henning, R.D. & Young, J.A. (1971) Electrolyte transport in the seminiferous tubules of the rat studied by the stopped-flow microperfusion technique. *Experientia* 27: 1037-1039.
- Martin, C.J. & Young, J.A. (1971) A microperfusion investigation of the effects of a sympathomimetic and a parasympathomimetic drug on water and electrolyte fluxes in the main duct of the rat submaxillary gland. *Pflügers Archiv European Journal of Physiology* 327: 303-323.
- Martin, C.J. & Young, J.A. (1971) Electrolyte concentrations in primary and final saliva of the rat sublingual gland studied by micropuncture and catheterization techniques. *Pflügers Archiv European Journal of Physiology* 324: 344-360.
- Young, J.A. & Martin, C.J. (1971) The effect of a sympatho- and a parasympathomimetic drug on the electrolyte concentrations of primary and final saliva of the rat submaxillary gland. *Pflügers Archiv European Journal of Physiology* 327: 285-302.
- 1972** Alexander, J.H., Van Lennep, E.W. & Young, J.A. (1972) Water and electrolyte secretion by the exorbital lacrimal gland of the rat studied by micropuncture and catheterization techniques. *Pflügers Archiv European Journal of Physiology* 337: 299-309.
- 1973** Alexander, J.H., Young, J.A. & Van Lennep, E.W. (1973) The ultrastructure of the duct system in the rat extraorbital lacrimal gland. *Zeitschrift für Zellforschung und Mikroskopische Anatomie* 144: 453-466.
- Cooke, H. & Young, J.A. (1973) Amino acid transport in the developing chicken kidney. *Australian Journal of Experimental Biology and Medical Science* 51: 199-207.
- Field, M.J. & Young, J.A. (1973) Kinetics of Na transport in the rat submaxillary main duct perfused *in vitro*. *Pflügers Archiv European Journal of Physiology* 345: 207-220.
- Kaladelfos, G. & Young, J.A. (1973) Micropuncture and cannulation study of water and electrolyte excretion in the isotonic-secreting cat sublingual salivary gland. *Pflügers Archiv European Journal of Physiology* 341: 143-154.
- Lingard, J.M., Rumrich, G. & Young, J.A. (1973) Kinetics of L-histidine transport in the proximal convolution of the rat nephron studied using stationary microperfusion techniques. *Pflügers Archiv European Journal of Physiology* 342: 13-28.
- Lingard, J.M., Rumrich, G. & Young, J.A. (1973) Reabsorption of L-glutamine and L-histidine from various regions of the rat proximal convolution studied by stationary microperfusion: evidence that the proximal convolution is not homogenous. *Pflügers Archiv European Journal of Physiology* 342: 1-12.
- Martin, C.J., Fromter, E., Gehler, B., Knauf, H. & Young, J.A. (1973) The effects of carbachol on water and electrolyte fluxes and transepithelial electrical potential differences of the rabbit submaxillary main duct perfused *in vitro*. *Pflügers Archiv European Journal of Physiology* 341: 131-142.
- 1974** Gyory, A.Z., Lingard, J.M. & Young, J.A. (1974) Relation between active sodium transport and distance along the proximal convolution of rat nephrons: evidence for homogeneity of sodium transport. *Pflügers Archiv European Journal of Physiology* 348: 205-210.
- Kaladelfos, G. & Young, J.A. (1974) Water and electrolyte excretion in the cat submaxillary gland studied using micropuncture and duct cannulation techniques. *Australian Journal of Experimental Biology and Medical Science* 52: 67-79.
- Lingard, J.M., Turner, B., Williams, D.B. & Young, J.A. (1974) Endogenous amino acid clearance by the rat kidney. *Australian Journal of Experimental Biology and Medical Science* 52: 687-695.
- 1975** Denniss, A.R. & Young, J.A. (1975) The action of neurotransmitter hormones and analogues and cyclic nucleotides and theophylline on electrolyte transport by the excretory duct of the rabbit mandibular gland. *Pflügers Archiv European Journal of Physiology* 357: 77-89.
- Lingard, J.M., Gyory, A.Z. & Young, J.A. (1975) Microperfusion study of the kinetics of reabsorption of cycloleucine in early and late segments of the proximal

convolution of the rat nephron. *Pflügers Archiv European Journal of Physiology* 357: 51-61.

Sewell, W.A. & Young, J.A. (1975) Secretion of electrolytes by the pancreas of the anaesthetized rat. *Journal of Physiology* 252: 379-396.

- 1976** Healy, J.K., Fraser, P.A. & Young, J.A. (1976) Inhibition of sodium transport by angiotensin II in the main duct of the rabbit mandibular gland isolated and perfused *in vitro*. *Pflügers Archiv European Journal of Physiology* 363: 69-73.
- 1977** Harris, P.J. & Young, J.A. (1977) Dose-dependent stimulation and inhibition of proximal tubular sodium reabsorption by angiotensin II in the rat kidney. *Pflügers Archiv European Journal of Physiology*, 367: 295-297.
- 1978** Denniss, A.R., Schneyer, L.H., Sucanthapree, C. & Young, J.A. (1978) Action of adrenergic agonists on isolated excretory ducts of submandibular glands. *American Journal of Physiology* 235: F548-F556.
- Denniss, A.R. & Young, J.A. (1978) Modification of salivary duct electrolyte transport in rat and rabbit by physalaemin, VIP, GIP and other enterohormones. *Pflügers Archiv European Journal of Physiology* 376: 73-80.
- Kitson, N., Van Lennep, E.W. & Young, J.A. (1978) Gap junctions in human sebaceous glands. *Cell and Tissue Research* 190: 115-121.
- Lingard, J.M., Cook, D.I. & Young, J.A. (1978) A mathematical analysis of the role of passive diffusion in the renal absorption of amino acids and other organic compounds under free flow conditions. *Australian Journal of Experimental Biology and Medical Science* 56: 395-408.
- Sewell, W.A. & Young, J.A. (1978) The effect of cycloheximide on cholecystikinin-evoked pancreatic juice of the anaesthetized rat. *Australian Journal of Experimental Biology and Medical Science* 56: 385-394.
- 1979** Coroneo, M.T., Denniss, A.R. & Young, J.A. (1979) The action of physalaemin on electrolyte excretion by the mandibular and sublingual salivary glands of the rat. *Pflügers Archiv European Journal of Physiology* 381: 223-230.
- Van Lennep, E.W., Kennerson, A.R., Young, J.A. & Hales, J.R.S. (1979) Morphology, histochemistry and physiology of the major salivary glands in the echidna *Tachyglossus aculeatus* (Monotremata). *Journal of Morphology* 159: 205-220.
- Young, J.A., Cook, D.I., Jones, G., McGirr, J. & Thompson, C. (1979) The effect of phenylephrine on excretion of fluid and electrolytes by the parotid and mandibular glands of the rat. *Australian Journal of Experimental Biology and Medical Science* 57: 555-562.
- 1980** Case, R.M., Conigrave, A.D., Novak, I. & Young, J.A. (1980) Electrolytes and protein secretion by the perfused rabbit mandibular gland stimulated with acetylcholine or catecholamines. *Journal of Physiology* 300: 467-487.
- Compton, J.S., Nelson, J., Wright, R.D. & Young, J.A. (1980) A micropuncture investigation of electrolyte transport in the parotid glands of sodium-replete and sodium-depleted sheep. *Journal of Physiology* 309: 429-446.

- Coroneo, M.T., Denniss, A.R., Maier, H. & Young, J.A. (1980) The action ofophysalaemin on electrolyte secretion by the mandibular and sublingual salivary glands of the rat. *Archiv für Klinische und Experimentelle Ohren-, Nasen-, und Kehlkopfheilkunde* 227: 670-674.
- Morris, B.J., De Zwart, R.T. & Young, J.A. (1980) Renin in mouse but not in rat submandibular glands. *Experientia* 36: 1333-1334.
- 1981** Case, R.M., Conigrave, A.D., Hunter, M., Novak, I., Thompson, C.H. & Young, J.A. (1981) Secretion of saliva by the rabbit mandibular gland *in vitro*: the role of anions. *Philosophical Transactions of the Royal Society of London, Series B: Biological Sciences* 296: 179-192.
- Compton, J., Martinez, J.R., Martinez, A.M. & Young, J.A. (1981) Fluid and electrolyte secretion from the isolated, perfused submandibular and sublingual glands of the rat. *Archives of Oral Biology* 26: 555-561.
- 1982** Case, R.M., Conigrave, A.D., Favalaro, E.J., Novak, I., Thompson, C.H. & Young, J.A. (1982) The role of buffer anions and protons in secretion by the rabbit mandibular salivary gland. *Journal of Physiology* 322: 273-286.
- 1983** Case, R.M., Hunter, M., Novak, I. & Young, J.A. (1983) A comparison of the mechanisms of electrolyte secretion in pancreas and salivary glands. *Scandinavian Journal of Gastroenterology* 18 (Supplement 87): 57-67.
- Cook, D.I. & Young, J.A. (1983) The numerical solution of epithelial transport models applied to Na/Cl cotransport in a secreting epithelium. *Scandinavian Journal of Gastroenterology* 18 (Supplement 87): 1-6.
- Lingard, J.M. & Young, J.A. (1983) β -Adrenergic control of exocrine secretion by perfused rat pancreas *in vitro*. *American Journal of Physiology* 245: G690-G696.
- 1984** Case, R.M., Hunter, M., Novak, I. & Young, J.A. (1984) The anionic basis of fluid secretion by the rabbit mandibular gland. *Journal of Physiology* 349: 619-630.
- Levine, R.A., Levine, G.D., Healey, A.P., Cook, D.I., Kuchel, P.W. & Young, J.A. (1984) Proton nuclear magnetic resonance spectroscopy of isolated rabbit fundic glands. *Biochimica et Biophysica Acta* 804: 324-330.
- 1985** Case, R.M., Cook, D.I., Hunter, M., Steward, M.C. & Young, J.A. (1985) Transepithelial transport of non-electrolytes in the rabbit mandibular salivary gland. *Journal of Membrane Biology* 84: 239-248.
- Schneider, G.T., Cook, D.I., Gage, P.W. & Young, J.A. (1985) Voltage-sensitive, high-conductance chloride channels in the luminal membrane of cultured pulmonary alveolar (type II) cells. *Pflugers Archiv European Journal of Physiology* 404: 354-357.
- 1986** Cook, D.I., Towner, S.P. & Young, J.A. (1986) Patch-clamp studies of cultured salivary cells. *Biomedical Research* 1 (Supplement 2): 203-207.
- Evans, L.A.R., Pirani, D., Cook, D.I. & Young, J.A. (1986) Intraepithelial current flow in rat pancreatic secretory epithelia. *Pflugers Archiv European Journal of Physiology* 407 (Supplement 2): S107-SI 11.
- Murakami, M., Novak, I. & Young, J.A. (1986) Choline evokes fluid secretion by perfused rat mandibular gland without desensitization. *American Journal of Physiology* 251: G84-G89.
- Novak, I. & Young, J.A. (1986) Two independent anion transport systems in rabbit mandibular salivary glands. *Pflugers Archiv European Journal of Physiology* 407: 649-656.
- Seow, F.K.T., Lingard, J.M. & Young, J.A. (1986) The anionic basis of fluid secretion by rat pancreatic acini *in vitro*. *American Journal of Physiology* 250: G140-G148.
- Young, J.A. & Cook, D.I. (1986) Secretion of salt and water by glandular epithelia.

- 1987** Pirani, D., Evans, L.A.R., Cook, D.I. & Young, J.A. (1987) Intracellular pH in the rat mandibular salivary gland: the role of Na-H and Cl-HCO₃ antiports in secretion. *Pflugers Archiv European Journal of Physiology* 408: 178-184.
Young, J.A., Cook, D.I., Evans, L.A.R. & Pirani, D. (1987) Effects of ion transport inhibition on rat mandibular gland secretion. *Journal of Dental Research* 66: 531-535.
- 1988** Cook, D.I., Day, M.L., Champion, M. & Young, J.A. (1988) Ca²⁺ not cyclic AMP mediates the fluid secretory response to isoproterenol in the rat mandibular salivary gland: whole-cell patch-clamp studies. *Pflugers Archiv European Journal of Physiology* 413: 67-76.
Poronnik, P., Cook, D.I. & Young, J.A. (1988) The use of Cytodex[®] microcarrier beads in patch-clamp studies on cultured epithelial cells. *Pflugers Archiv European Journal of Physiology* 413: 90-92.
- 1989** Cook, D.I. & Young, J.A. (1989) Effect of K⁺ channels in the apical plasma membrane on epithelial secretion based on secondary active Cl⁻ transport. *Journal of Membrane Biology* 110: 139-146.
Novak, I. & Young, J.A. (1989) Acetate stimulates secretion in the rabbit mandibular gland. *Pflugers Archiv European Journal of Physiology* 414: 68-72.
- 1990** Cook, D.I., Poronnik, P. & Young, J.A. (1990) Characterisation of a 25 pS non-selective cation channel in a cultured epithelial cell line. *Journal of Membrane Biology* 114: 37-52.
Seow, K.T.F.P., Case, R.M. & Young, J.A. (1990) Pancreatic secretion by the anaesthetized rabbit in response to secretin, cholecystokinin and carbachol. *Pancreas* 6: 385-391.
- 1991** Poronnik, P., Cook, D.I., Allen, D.G. & Young, J.A. (1991) Diphenylamine-2-carboxylate (DPC) reduces calcium influx in a mouse mandibular cell line (ST885). *Cell Calcium* 12: 441-447.
Wegman, E.A., Young, J.A. & Cook, D.I. (1991) A 23 pS Ca²⁺-activated K⁺ channel in MCF-7 human breast carcinoma cells: an apparent correlation of channel incidence with the rate of cell proliferation. *Pflugers Archiv European Journal of Physiology* 417: 562-570.
- 1992** Cook, D.I., Wegman, E.A., Ishikawa, T., Poronnik, P., Allen, D.G. & Young, J.A. (1992) Tetraethylammonium blocks muscarinically evoked secretion in the sheep parotid gland by a mechanism additional to its blockade of BK channels. *Pflugers Archiv European Journal of Physiology* 420: 167-171.
Wegman, E.A., Ishikawa, T., Young, J.A. & Cook, D.I. (1992) Cation channels in the basolateral membrane of sheep parotid secretory cells. *American Journal of Physiology* 263: G786-G794.
- 1993** Conigrave, A.D., Poronnik, P., Komwatana, P., Delbridge, L., Young, J.A. & Cook, D.I. (1993) An inwardly rectifying K⁺ channel in human adenomatous parathyroid cells. *Cell Calcium* 14: 517-523.
Dinudom, A., Poronnik, P., Allen, D.G., Young, J.A. & Cook, D.I. (1993) Control of intracellular Ca²⁺ by adrenergic and muscarinic agonists in mouse mandibular ducts and endpieces. *Cell Calcium* 14: 631-638.
Dinudom, A., Young, J.A. & Cook, D.I. (1993) Amiloride-sensitive Na⁺ current in the granular duct cells of mouse mandibular glands. *Pflugers Archiv European Journal of Physiology* 423: 164-166.

- Dinudom, A., Young, J.A. & Cook, D.I. (1993) Na⁺ and Cl⁻ conductances are controlled by cytosolic Cl⁻ concentration in the intralobular duct cells of mouse mandibular glands. *Journal of Membrane Biology* 135: 289-295.
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- 1963** Young, J.A. & Edwards, K.D.G. (1963) Stop-flow analysis of renal tubular function adapted to the rat. *Proceedings of the Australian Society for Medical Research* 1: 83.
- 1964** Young, J.A. & Edwards, K.D.G. (1964) The effect of D- and L-methyl dopa on the uptake of histidine by isolated small intestinal loops of the rat. *Proceedings of the Australian Society for Medical Research* 1: 96-97.
- 1973** Denniss, A.R. & Young, J.A. (1973) The action of cholinergic agents on salivary duct electrolyte transport. *Proceedings of the Australian Society for Medical Research* 3: 166P.
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- 1964** Young, J.A., Reid, J. & Edwards, K.D.G. (1964) Separation and quantitation of amino acids using high voltage paper-electrophoresis. *Proceedings of the Australian Association of Clinical Biochemists* 1b: 95-100.
- 1966** Young, J.A., Fromter, E. & Schogel, E. (1966) Electrolyte fluxes and potential differences in the main excretory duct of the rat submaxillary gland. *Pflügers Archiv European Journal of Physiology* 289: 81R.
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- 1971** Young, J.A. & Martin, C.J. (1971) Water and electrolyte excretion in exocrine glands studied by micropuncture and microperfusion techniques. *Proceedings of the International Union of Physiological Sciences* 8: 122-123.
- 1972** Knauf, H., Gehler, B., Martin, C.J. & Young, J.A. (1972) On the mechanism of action of carbachol on Na⁺ transport in rabbit submaxillary duct perfused *in vitro*. *Pflügers Archiv European Journal of Physiology* 335: 60R.
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- 1977** Compton, J.S. & Young, J.A. (1977) Effect of steroids on rabbit mandibular saliva. *Clinical and Experimental Pharmacology and Physiology* 4: 479P-480P.
- Denniss, A.R. & Young, J.A. (1977) Action of gastrointestinal hormones on sodium transport across salivary duct epithelium. *Clinical and Experimental Pharmacology and Physiology* 4: 480P.

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1984 Young, J.A., Sefton, A.J. & Webb, N. (1984) *The Centenary Book of the Faculty of Medicine of the University of Sydney*. Sydney: Sydney University Press.

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1988 Young, J.A. (1988) Henry Priestley (1884-1961). In G. Serie & C. Cunneen (ed): *Australian Dictionary of Biography, Volume 11 (1891-1939)*. Melbourne: Melbourne University Press, pp. 294-295.

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1990 Young, J.A. (1990) Thomas Peter Anderson Stuart (1856-1922). In G. Serie & C. Cunneen (ed): *Australian Dictionary of Biography, Volume 12 (1891-1939)*. Melbourne: Melbourne University Press, pp. 130-132.

1991 Young, J.A. (1991) Virtuoso biography. Review of *James Edward Neild: Victorian Virtuoso*, by Harold Love. *Meta Science* 1: 119-120.

2000 Young, J.A. (2000) Book Review: 'Pansy': A life of Roy Douglas Wright by Peter McPhee (Melbourne University Press, 1999, ISBN 0 522 84626 2). *Medical Journal of Australia* electronic:
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Young, J.A. (2000) *Menzies School of Health Research, Darwin - Annual Oration 2000*. Sydney: University of Sydney.

2002 Young, J.A. (2002) *The History of the Medical Curriculum at the University of Sydney. An Occasional address to the Faculty of Medicine Graduation Ceremony, 10 May 2002*. Sydney: University of Sydney.

Invited Lectures

1

Invited Participation in International Scientific Meetings

International Union of Physiological Sciences

1971	Munich	Lecture
1974	Paris	Symposium Lecture
1980	Budapest	Symposium Chair
1983	Sydney	Symposium Chair
1986	Vancouver	Symposium Chair
1989	Helsinki	Symposium Chair
1997	St Petersburg	Symposium Chair
2001	Christchurch	Symposium Chair and LecturE

International Union of Physiological Sciences Regional Meetings

1991 Prague Symposium Lecture

GAP Conferences of the National Cystic Fibrosis Foundation of America

1968 New York Symposium
Lecture

1982 San Diego Lecture

Conferences of the National Physiological Institute of Japan

1985 Okazaki Lecture

1988 Okazaki Lecture

1991 Okazaki Lecture

1992 Okazaki Lecture

1996 Okazaki Chair

Wenner-Gren Centre Symposium

1971 Stockholm Lecture

Alfred Benzon Foundation Symposia (Royal Danish Academy of Science)

1973 Copenhagen Lecture

1987 Copenhagen Lecture

1992 Copenhagen Session Chair &
Lecture

New York Academy of Science Symposium

1979 New York Lecture

Royal Society Discussion Meeting

1981 London Lecture

10th International Conference on Oral Biology

1986 Amsterdam Lecture

Nephrologische Gesellschaft

1975 Basel Lecture

Congresses of the Federation of Asian and Oceanic Physiological Societies

1987 Bangkok Lecture

1990 New Delhi Symposium
Chair

1994 Shanghai Symposium
Chair

1998 Brisbane Plenary Lecture

Invited Lectures 2

International Symposia on Exocrine Secretion (ISES)

1966 Birmingham, Alabama (2nd ISES) Lecture

1981 Szekersfehervar (5th ISES) Lecture

1982 Manchester (6th ISES) Lecture

1984 Camden (NSW) (7th ISES) Lecture

1988 Hong Kong (8th ISES) Lecture

1990 Leura (NSW) (9th ISES) Lecture

International Symposia on Epithelial Transport, Otago University

1979 Dunedin Lecture
1990 Dunedin Lecture

**9th World Congress of
Gastroenterology** Lecture
1990 Sydney

**WHO - Japan Medical Education Foundation International Conference on Medical
Education**

1992 Tokyo Lecture

Festschrift K.J. Ullrich, 60er Geburtstag - Max Planck Institute für Biophysik

1985 Frankfurt Lecture

Festschrift K.J. Ullrich, Emeritierung - Physiologisches Institut der Universität Freiburg

1993 Freiburg Lecture

73rd Meeting of the International Association for Dental Research

1990 Singapore Lecture

Festschrift E. Frömter, 60er Geburtstag - J. W. Goethe Universität

1995 Frankfurt Session Chair

Research Students, Post-Doctoral Students and Senior Collaborators

H.J. Cooke	J.M. Lingard	F.T.P. Seow	I. Novak
L.A.R. Evans	E.A. Wegman	A. Dinudom	P. Poronnik

PhD Students

**MSc
Students**

A.R. Denniss	M.T. Coroneo A.D. Conigrave	J. Compton
C.J. Martin	D.I. Cook	
C.H. Thompson		

BSc(Med) and BSc(Dent) Students

J. Shagrin	R.R. Tuck	C.J. Martint	S.B. Freedman
J. Alexander	M.J. Field	R. Henning	G. Kaladelfos
A.R. Denniss	Z.H. Endre	W.A. Sewellt	M.T. Coroneo
A. Jones	C.H. Thompson	A.D. Conigrave	J. Compton
D.I. Cook	J. Gerrard	C. Dave	G. Gard
H. Roby	S. Shahidi	L. Gomes	

BSc(Hons)**Students**

L.J. Hayden

M. Day

D.

Pirani

P.

Samuels

J. Coatsworth

German *Doctoranten*

E. Schögel

K.F. Hamann

Post-Doctoral Research Fellows

P.J. Harris

M. Murakami

Ishikawa

P. Fraser

T.

G. Rurnrich

P.

Komwatana

B. Gebler

D. Martin

Senior Collaborators

R.M. Case (UK)

P.Y.D. Wong (Hong Kong)

Young's students and post-doctoral fellows who subsequently became full professors

Christopher J Martin: Professor of Surgery (Sydney)

A. Robert Denniss: Professor of Medicine (Cardiology, Sydney)

Benedict S Freedman: Professor of Medicine (Cardiology, Sydney)

Zoltan Endre: Professor of Medicine (Renal Medicine, Queensland)

Michael J Field: Professor of Medicine (Renal Medicine, Sydney)

Peter J Harris: Professor of Physiology (Melbourne)

William A Sewell: Professor of Immunology (UNSW)

Minas Coroneo: Professor of Ophthalmology (UNSW)

Ivana Novak: Professor of Physiology (Copenhagen)

David Cook: Professor of Physiology (Sydney)

Arthur Conigrave: Professor of Biochemistry, Dean of Medicine (Sydney)

Campbell Thompson: Professor of Medicine (Adelaide)

E. Frömter (Germany)
M.C. Steward (UK)

J.K. Healey (Qld)

R.A. Levine

