

## Curriculum Vitae

### ROBERT GILMORE MCKINNELL

#### *Personal*

Birthdate: 9 August 1926  
Place of Birth: Springfield, Missouri, U.S.A.

Married To: Beverly Walton Kerr (deceased 2005)

Children: Nancy Elizabeth  
Robert Gilmore  
Susan Kerr  
and 5 splendid grandchildren

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568 Diehl Hall, 505 Essex Street  
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#### *Education*

University of Notre Dame, Indiana	BS	1946	Naval Science
Drury College, Springfield, MO	B.S.	1949	Biology with Honors
National Cancer Institute Pre-doctoral Fellow, University of Minnesota, Mpls, MN	Ph.D.	1959	Developmental Biology
Postdoctoral Fellow, Fox Chase Cancer Center, Philadelphia, PA		1958-1961	Cancer Biology

#### *Military Service*

Apprentice Seaman to Ensign, USN, 1944-1947  
Bachelor of Naval Science, University of Notre Dame, 1946, Commissioned at  
graduation as Ensign, USN

Lieutenant (junior grade) to Lieutenant, USN, 1951-1953, duty in Korea on USS Iowa (BB 61)

***Professional Positions Held***

Morse/ Alumni Distinguished Professor of Genetics, Cell Biology and Development, University of Minnesota, 1992 to 1999, Emeritus 1999 -- \_\_\_\_\_  
Senior Scientist, Naval Medical Research Institute, National Naval Medical Center, Bethesda, MD, Summer, 1988.

North Atlantic Treaty Organization (NATO) Visiting Scientist, Department of Radiotherapy and Nuclear Medicine, Akademisch Ziekenhuis, Ghent, Belgium, 1984.

Royal Society of London Guest Research Fellow, Nuffield Department of Pathology, John Radcliffe Hospital and School of Medicine, University of Oxford, Oxford, England, 1981-1982

Visitor, Nuffield Department of Pathology, John Radcliffe Hospital, University of Oxford, Oxford, England, Spring, 1980.

Professor of Genetics and Cell Biology, University of Minnesota, 1976-1992.

Guest, Department of Zoology, University of California, Berkeley, Spring 1979.

Visiting Scientist, BioMedical Research and Industrial Medicine, Dow Chemical U.S.A., Freeport, Texas, Winter, 1976.

Professor of Zoology, University of Minnesota, 1970-1976

North Atlantic Treaty Organization (NATO) Senior Science Fellow, Saint Andrews University, Saint Andrews, Scotland, 1974.

Assistant Professor of Biology through Professor of Biology, Newcomb College of Tulane University, New Orleans, 1961-1970.

Research Associate, Institute for Cancer Research (now the Fox Chase Cancer Center), Philadelphia, 1958-1961.

National Institutes of Health (National Cancer Institute) Pre-doctoral Research Fellow, University of Minnesota, 1956-1958.

***Previous Funding (none active now):***

National Cancer Institute, American Cancer Society, Inc., Damon Runyon Cancer Research Foundation, National Science Foundation, Division of Research Resources (N.I.H.), Grotto Foundation, Association pour le - Développement de la Recherche sur le Cancer (Ministère de Affaires Etrangères France), Merck Sharp and Dohme, Smith Kline Beecham, Dow Chemical U.S.A., Council for Tobacco Research--USA, Inc., Legislative Commission on Natural Resources (State of Minnesota)

***Teaching Assignments (immediately prior to retirement, not currently taught):***

Biology of Cancer (Genetics and Cell Biology 3008); (also taught as Nursing 5881)  
Lecturer in Healthcare Administration Education (Public Health 5781)  
History of Cancer (Honors Seminar 3020)

### *Scientific Organizations*

Fellow, American Association for the Advancement of Science (Inactive)  
Fellow, Linnean Society of London (Inactive)  
Minnesota Academy of Medicine  
Minnesota History of Medicine Society  
American Association for Cancer Education, Inc., Senior Member  
American Association for Cancer Research, Inc., Emeritus Member  
American Association for the History of Medicine (Inactive)  
Sigma Xi (Inactive)  
International Society for Differentiation, Inc.  
    Editorial Advisory Board, 2000--2015  
    Executive Committee, 1975--1998  
    President, 1994--1996  
    Vice President, 1992--1994  
    Secretary-Treasurer, 1975-1992  
    Organizing Committee, Pisa Conference, 1996  
    Organizing Committee, Vancouver Conference, 1990  
    Organizing Committee, Boulder Conference, 1987  
    Organizing Committee, Heidelberg Conference, 1985  
    Principal Organizer and Secretariat, Minneapolis Conference, 1978  
    Organizing Committee, Copenhagen Conference, 1975  
Lifetime member (emeritus), Indian Society of Developmental Biologists (ISDB)

### *Honors*

Nucleotide sequence of the Lucké renal adenocarcinoma herpesvirus DNA named for McKinnell in honor of a career devoted to herpesvirus research, 2006  
    (GenBank Accession number NC 008211)  
Board of Advisors, Marquis Who's Who, 1999-- , including boards of:  
    Who's Who in America  
    Who's Who in American Education  
    Who's Who in Science and Engineering  
Prince Hitachi Prize for Comparative Oncology, awarded 27 May 1998 in Tokyo, Japan by the Japanese Cancer Institute (Japanese Foundation for Cancer Research)  
Award of Merit, Gamma Sigma Delta, 1996  
Science Advisory Council, Drury College, 1994--  
Doctor of Science, *honoris causa*, Drury College, 1993  
Morse/ Alumni University of Minnesota Award for Excellence in Teaching, 1992  
Featured on cover of *Cancer Research* (16 July 1989)  
Biographical listing in:  
    Who's Who in the World  
    Who's Who in America

Who's Who in Science and Engineering  
Who's Who in American Education  
Who's Who in Medicine and Healthcare  
Who's Who in the Midwest  
Royal Society of London Guest Research Fellow, 1980-1981  
Distinguished Alumni Award, Drury College, 1979  
Cover illustration and featured article, *Medical World News*, 5 May 1972  
Excellence in Teaching Award, Newcomb College of Tulane University, 1970  
U.S. National Cancer Institute Predoctoral Research Fellow, 1956-1958  
Sigerfoos Fellow, University of Minnesota, 1955  
Departmental Honors in Biology, Drury College, 1949

### *Selected Other Services and Activities*

Amphibian Committee, Institute of Laboratory Animal Resources, National Academy of Sciences, 1972-1975  
Advisory Council, Institute of Laboratory Animal Resources, National Academy of Sciences, 1975-1977  
Outside Advisor, Biomedical Training Program, Tuskegee University, Tuskegee, Alabama, 1975-1990.  
Member, American Cancer Society Institutional Research Grants Committee, University of Minnesota, 1974-1982  
Editorial Board, *Differentiation*, Heidelberg-Berlin: Springer-Verlag, 1970-1999  
Conference Secretariat, Third International Conference on Differentiation "Differentiation and Neoplasia", Minneapolis, 28 August-1 September 1978  
Featured guest, McNiel-Leherer News, National Public TV (Washington, DC), 7 April 1978 (program on implications of cloning research)  
Associate Editor, *Gamete Research*, New York: Alan R. Liss, Inc., 1980-1986  
Invited Scientific Expert, Hearing on Developments in Cell Biology and Genetics, Subcommittee on Health and the Environment, *95th U.S. Congress*, 31 May 1978  
Invited Participant, Conference on "Impacts of Applied Genetics: Animal Breeding", Office of Technology Assessment, *U.S. Congress*, 15-17 January 1980, Denver, Colorado  
Reviewer of Love Canal (New York) Cytogenetics Study (invited by Dr. Vilma Hunt, Environmental Protection Agency, 21 May 1980)  
Member of Panel, Genetic and Cellular Resources Program, National Institute on Aging, N.I.H., 1981-1982  
Study Section Member (SSS-Y-R1), National Cancer Institute, National Institutes of Health, Bethesda, Maryland, 1990.  
Contributor of 25 articles to *The Environmental Encyclopedia, 2nd edition*, Gale Research Incorporated, Detroit, 1997.  
Author, Special Report on Cloning, *Science Year 1995*, World Book Publishing, Chicago, Illinois.

Leader, Delegation of Biologists and Physicians to China, 15 October through 1 November 1996 with laboratory and hospital meetings at Beijing, Tianjin, Xi'an, and Shanghai.

Guest, News Hour with Jim Lehere, National Public TV as well as BBC world service short-wave news, BBC domestic and foreign TV, Good Morning America, CBC Sunday Morning, CBS TV news, Fox news, Newton's Apple, National Public Radio, Night Line (ABC), the Discovery Channel, and multiple other television, radio and newspaper interviews (including news articles in the *Washington Post* and the *New York Times*), during late 1996 and early 1997.

Author, 44 short articles, *World of Biology*, 1999, Gale Research, Detroit, Michigan  
Secretariat and Principal Organizer, 6th International Symposium on the Pathology of Reptiles and Amphibians, University of Minnesota, 18 to 20 April 2001

***International Speaking Invitations:***

Session Chair and Introduction for Rudolf Jaenisch, 14<sup>th</sup> Conference of the International Society of Differentiation, Innsbruck, Austria, 2006.

Invited Honored Speaker, Japanese Foundation for Cancer Research, Tokyo, Japan, 28 May 1998.

Plenary Speaker, Conference on Development, Cell Differentiation and Cancer, Pisa, Italy, 2 October 1996.

Invited speaker, Pathology Symposium, Hoorn 65, Alphen a/d Rijn, The Netherlands, March 31 - April 2, 1995

Chairperson & speaker, Conference on Developmental Biology. Differentiation, and Cancer, Hiroshima, Japan, October 22 - 26, 1994.

Invited major address and symposium chairperson, International Symposium on Developmental Biology, University of Poona, India, November 1993

Session Chairperson and presenter, Conference on Cellular Programmes for Growth, Differentiation and Neoplasia, Helsinki, Finland, July, 1992

Seminar, Consiglio Nazionale delle Ricerche, Pisa, Italy, 10/1/91

Invited speaker, IV Internationales Colloquium für Pathologia und Therapie der Reptilien und Amphibien, Bad Nauheim, Germany, 9/28/91

Invited speaker, Institute of Virology, Medical Research Council (MRC), University of Glasgow, Glasgow, Scotland, 9/9/91

Invited seminar speaker, German Cancer Research Center, Heidelberg, Federal Republic of Germany, 1/17/90

Speaker at special seminar, Institute für Genetik und für Toxikologie von Spaltstoffen, Kernforschungszentrum, Karlsruhe, Germany, 6/30/87

Invited speaker, Metastasis meeting, Vitoria, Spain, 4/13/86

Session Chair, IV International Conference on Differentiation, Heidelberg, FRG, 5/2/85

Roundtable participant, Metastasis, IV International Conference on Differentiation, Heidelberg, Germany, 5/3/85  
Seminar, University of Basel, Basel, Switzerland, 5/10/85  
Woensdagdiskussies speaker, Rijksuniversitat Gent, Belgium, 11/14/84  
Departmental Seminar, Universit e Louvain la Neuve, Belgium, 12/5/84  
Special Institute Seminar, Pasteur Institute, Brussels, Belgium, 12/11/84  
FGWO Contact Group, Symposium: "Are Oncogenes Implicated in Invasion and Metastasis? Temperature Dependent Invasion," Gent, Belgium, 12/16/84  
Invited speaker and session chairman, Developmental Biology Symposium, Museo Nazionale Della Scienza e Della Tecnica " , Sala Cenacolo, Leonardo da Vinci", Milano, Italy, 3/22/82  
Seminar, Renal Physiology Group, John Radcliffe Hospital, Oxford University, England, 5/10/82  
Invited Speaker, German Cancer Research Center, Heidelberg, Germany, 6/2/82  
Invited Speaker, Session chairman, Princess Takamatsu Cancer Research Fund Symposium, Tokyo Japan, 1980.  
Invited Speaker, Sir William Dunn School of Pathology, Oxford University, England, 4/17/80.  
Invited Speaker, Department of Histopathology, John Radcliffe Hospital, Oxford University, England, 4/21/80  
Invited Consultant, Institute of Developmental Biology, Academy of Sciences, Beijing, China, 11/15/80  
Invited Speaker, Conference on Progress in Differentiation, Copenhagen, Denmark, 8/10/75  
Invited Speaker, Roundtable Participant and Session Chair, Conference on Cell Biology, Nice, France, 1971.

***Publication of books and edited volumes:***

Nace, G.W., D.D. Culley, M.B. Emmons, E.L. Gibbs, V. Hutchinson, and R.G.McKinnell, 1974. *Standards and Guidelines for the Breeding, Care and Management of Laboratory Animals: Amphibians*. Washington, D.C., National Academy of Sciences/National Research Council.

McKinnell, Robert G. 1978. *Cloning: Nuclear Transplantation in Amphibia*. Minneapolis: University of Minnesota Press (An alternate selection of the Science Book Club). Note: This book was selected in 2008 to be republished as a Minnesota Archive Edition.

McKinnell, Robert G. 1979. *Cloning: A Biologist Reports*. Minneapolis: University of Minnesota Press. (This book was selected and is currently available as RC 18569 596 1C APH 4-83, a publication for the blind in a series of talking books; alternatively, it is available in Braille). Note: This book

was selected in 2008 to be republished as Minnesota Archive Edition.

- McKinnell, Robert G., M.A. DiBerardino, M. Blumenfeld and R.D. Bergad (eds.) 1980. *Differentiation and Neoplasia*. Results and Problems in Cell Differentiation, Volume 11, Heidelberg and Berlin: Springer-Verlag.
- McKinnell, Robert G., 1981. *Leben aus der Retort*. Karlsruhe, FRG: Verlag G. Braun
- McKinnell, Robert G., 1985. *Cloning of Frogs, Mice, and Other Animals*. Minneapolis: University of Minnesota Press.
- Revotella, R., Robert G. McKinnell, and M.A. DiBerardino (eds.). 1997 Proceedings of the Ninth International Conference of the International Society of Differentiation, Pisa, Italy, *Journal of Cellular Physiology (special issue)*, 173:115-300.
- McKinnell, Robert G., Ralph E. Parchment, Alan O. Perantoni, and G. Barry Pierce. 1998. *The Biological Basis of Cancer*, Cambridge University Press, Cambridge, England and New York. *Second edition*, Cambridge University Press, 2006. *This book was selected by Cambridge University Press to be included in their Academic Corpus for linguistic analysis and research purposes for English language learners throughout the world.*
- McKinnell, Robert G., Ralph E. Parchment, Alan O. Perantoni, and G. Barry Pierce. 2000. *The Biological Basis of Cancer*. Igaku-Shoin, Ltd., Tokyo (Japanese edition of the 1998 Cambridge book).
- McKinnell, Robert G., Ralph E. Parchment, Alan O. Perantoni, and G. Barry Pierce. 2004. *The Biological Basis of Cancer*. Tsinghau University Press, Beijing, China (Chinese edition of the 1998 Cambridge book).
- McKinnell, Robert G. and Debra L. Carlson (editors). 2002. Proceedings of the Sixth International Symposium on the Pathology of Reptiles and Amphibians. Minnesota, Minneapolis.
- McKinnell, Robert G. (2008) *Prevention of Cancer*, Facts on File, New York, NY
- McKinnell, Robert G. (2015) *Understanding, Prevention and Control of Human Cancer: The Historic Work and Lives of Elizabeth Cavert Miller and James A. Miller*. Volume 49, History of Science and Medicine Library. Leiden, The Netherlands: Koninklijke Brill. This book is reviewed in *Isis*, 108 (No. 2):487-489, 2017.

McKinnell, Robert G. ( ) *A History of Cancer: The Emerging Understanding of Malignant Disease*. Manuscript in preparation.

*Scientific Papers and Articles*

- McKinnell, R.G. 1960. Transplantation of *Rana pipiens* (kandiyohi dominant mutant) nuclei to *R. pipiens* cytoplasm. *Am. Nat.* **94**:187-188.
- King, T.J. and R.G. McKinnell. 1960. An attempt to determine the developmental potentialities of the cancer cell nucleus by means of transplantation. In: *Cell Physiology of Neoplasia*. The University of Texas Press, Austin. pp. 591-617.
- DiBerardino, M.A., T.J. King, and R.G. McKinnell. 1961. Embryonic development and the frog renal adenocarcinoma. In: *Transcript of Proceedings: Frog Kidney Adenocarcinoma Conference*. National Institutes of Health, Bethesda, Maryland. pp. 81-90.
- McKinnell, R.G. 1962. Intraspecific nuclear transplantation in frogs. *J. Hered.* **53**:199-207.
- DiBerardino, M.A., T.J. King, and R.G. McKinnell. 1963. Chromosome studies of a frog renal adenocarcinoma line carried by serial intraocular transplantation. *J. Nat. Cancer Inst.* **31**:769-789.
- Fingerman, M., C. Oguro, M. Miyawaki, and R.G. McKinnell. 1964. The neurosecretory system of the head of the blind cave crayfish *Cambarus setosus* Faxon. *Am. Midland Nat.* **71**:415-421.
- McKinnell, R.G. 1964. Expression of the kandiyohi gene in triploid frogs produced by nuclear transplantation. *Genetics* **49**:895-903.
- Simpson, N.S., and R.G. McKinnell. 1964. The burnsi gene as a nuclear marker for transplantation experiments. *J. Cell Biol.* **23**:371-375.
- McKinnell, R.G. 1965. Incidence and histology of tumors obtained from frogs of the North Central States. *Ann. N.Y. Acad. Sci.* **126**:85-98.
- McKinnell, R.G., and K. Bachmann. 1965. Quantitative DNA determinations of nuclear transplant triploid *Rana pipiens*. *Exp. Cell Res.* **39**:625-630.
- Zambernard, J., A.E. Vatter, and R.G. McKinnell. 1966. The fine structure of nuclear and cytoplasmic inclusions in primary renal tumors of mutant leopard frogs. *Cancer Res.* **26**:1688-1700.



- Volpe, E.P., and R.G. McKinnell. 1966. Successful tissue transplantation in frogs produced by nuclear transfer. *J. Hered.* **57**:167-174.
- McKinnell, R.G. 1967. Evidence for seasonal variation in incidence of renal adenocarcinoma in *Rana pipiens*. *J. Minn. Acad. Sci.* **34**:173-175.
- McKinnell, R.G., and B.K. McKinnell. 1967. An extension of the ranges of the burnsi and kandiyohi variants of *Rana pipiens*. *J. Minn. Acad. Sci.* **34**:176.
- McKinnell, R.G., and B.K. McKinnell. 1968. Seasonal fluctuation of frog renal adenocarcinoma prevalence in natural populations. *Cancer Res.* **28**:440-444.
- McKinnell, R.G., and J. Zambarnard. 1968. Virus particles in renal tumors from spring *Rana pipiens* of known geographic origin. *Cancer Res.* **28**:684-688.
- McKinnell, R.G., M.F. Mims, and L.A. Reed. 1969. Laser ablation of maternal chromosomes in eggs of *Rana pipiens*. *Z. Zellforsch* **93**:30-35.
- Zambarnard, J., and R.G. McKinnell. 1969. "Virus-free" renal tumors obtained from pre-hibernating leopard frogs of known geographic origin. *Cancer Res.* **29**:653-657.
- McKinnell, R.G., B.A. Deggins, and D.D. Labat. 1969. Transplantation of pluripotential nuclei from triploid frog tumors. *Science* **165**:394-396.
- McKinnell, R.G. 1969. Lucké tumor: Epidemiological Aspects. In: *Biology of Amphibian Tumors*, Heidelberg: Springer-Verlag. pp. 254-260.
- McKinnell, R.G., and K.S. Tweedell. 1970. Induction of renal tumors in triploid leopard frogs. *J. Nat. Cancer Inst.* **44**:1161-1166.
- McKinnell, R.G., and D.P. Duplantier. 1970. Are there renal adenocarcinoma-free populations of leopard frogs? *Cancer Res.* **30**:2730-2735.
- Mims, M.F., and R.G. McKinnell. 1971. Laser irradiation of the chick embryo germinal crescent. *J. Embryol. Exp. Morph.* **26**:31-36.
- McKinnell, R.G. 1971. "Regeneration: Key to understanding normal and abnormal growth and development" by S.M. Rose. *Tulane Medicine* **3**(4):15.
- McKinnell, R.G. 1972. Nuclear transfer in *Xenopus* and *Rana* compared. In: *Cell Differentiation, Proceedings of the 1st International Conference on Cell Differentiation*, Nice, 1971. Copenhagen: Munksgaard, pp. 61-64.

- McKinnell, R.G. 1972. Frog tumor controversy. *J. Nat. Cancer Inst.* **49**:1471-1472.
- McKinnell, R.G., and V. Ellis. 1972. Epidemiology of the frog renal tumour and the significance of tumour nuclear transplantation studies to viral etiology of the tumour. In: Biggs, P.M., de-The, G., and Payne, L.N. (eds.) *Oncogenesis and Herpesviruses*, Lyon, International Agency for Research on Cancer. pp. 183-197.
- McKinnell, R.G. and V. Ellis. 1972. Herpesvirus in tumors of post-spawning *Rana pipiens*. *Cancer Res.* **32**:1154-1159.
- McKinnell, R.G., V. Ellis, D.C. Dapkus, and L.M. Steven, Jr. 1972. Early replication of herpesvirus in naturally occurring frog tumors. *Cancer Res.* **32**:1729-1733.
- McKinnell, R.G., L.M. Steven, Jr., and E.G. Ellgaard. 1973. Serum electrophoresis of genetic replicate leopard frogs produced by nuclear transplantation. *Differentiation* **1**:173-175.
- McKinnell, R.G. 1973. Nuclear Transplantation. In: *Seventh National Cancer Conference Proceedings*, Lippincott Company, Philadelphia. pp. 65-72.
- McKinnell, R.G. 1973. The Lucké frog kidney tumor and its herpesvirus. *Am. Zool.* **13**:97-114.
- McKinnell, R.G., and D.C. Dapkus. 1973. The distribution of burnsi and kandiyohi frogs in Minnesota and contiguous states. *Am. Zool.* **13**:81-84.
- Ellinger, M.S., D.R. King, and R.G. McKinnell. 1975. Androgenetic haploid development produced by ruby laser irradiation of anuran ova. *Radiat. Res.* **62**:117-122.
- McKinnell, R.G., L.M. Steven, Jr., and D.D. Labat. 1976. Frog renal tumors are composed of stroma, vascular elements, and epithelial cells: What type nucleus programs for tadpoles with the cloning procedure? In: *Progress in Differentiation Research*. (N. Muller-Berat, ed.) New York: American Elsevier Publishing Company, Inc., pp. 319-330.
- McKinnell, R.G., D.J. Picciano, and R.E. Kreig. 1976. Fertilization and development of frog eggs following repeated spermiation induced by human chorionic gonadotropin. *Laboratory Animal Science* **26**:932-935.
- Picciano, D.J., and R.G. McKinnell. 1977. A short-term culture method for the preparation of chromosome spreads from *Rana pipiens*. *Stain Technology* **52**:101-103.

- McKinnell, R.G. 1979. Neoplasia and amphibian nuclear transplantation. In: *International Review of Cytology*, (J.F. Danielli and M.A. DiBerardino, eds.) Supplement 9, 179-188.
- McKinnell, R.G., E. Gorham, F. Martin, and J. Schaad, IV. 1979. A major reduction in the prevalence of the Lucké renal adenocarcinoma associated with greatly diminished frog populations. *J. Nat. Cancer Inst.* **63**:821-824.
- McKinnell, R.G., E. Gorham, F.B. Martin, and J.W. Schaad, IV. 1979. Increased prevalence of mature females bearing pigmented oocytes from populations of Minnesota *Rana pipiens*. *Lab. Animal Sci.* **29**:68-70.
- McKinnell, R.G., D.J. Picciano, and J.W. Schaad, IV. 1979. Dominant lethality in frog embryos after paternal treatment with triethylenemelamine. *Environmental Mutagenesis* **1**:221-231.
- Trendelenburg, M.F. and R.G. McKinnell. 1979. Transcriptionally active and inactive regions of nucleolar chromatin in amplified nucleoli of fully grown oocytes of hibernating frogs, *Rana pipiens*. *Differentiation* **15**:73-95.
- Rollins, L.A. and R.G. McKinnell. 1980. The influence of glucocorticoids on survival and growth of allografted tumors in the anterior eye chamber of leopard frogs. *Develop. Comp. Immunol.* **4**:283-294.
- McKinnell, R.G., E. Gorham, and F.B. Martin. 1980. Continued diminished prevalence of the Lucké renal adenocarcinoma in Minnesota leopard frogs. *Am. Mid. Nat.* **104**:402-404.
- Cheh, A.M., A. B. Hooper, J. Skochdopole, C.A. Henke, and R.G. McKinnell. 1980. A comparison of the ability of frog and rat S-9 to activate promutagens in the Ames test. *Environ. Mutagenesis* **2**:487-508.
- McKinnell, R.G., B.T. Kren, R. Bergad, M. Schultheis, T. Byrne, and J. W. Schaad, IV. 1980. Dominant lethality in *Xenopus laevis* induced with triethylenemelamine. *Teratogenesis, Carcinogenesis, and Mutagenesis* **1**:283-294.
- Hird, D.W., S.L. Diesch, R.G. McKinnell, E. Gorham, F.B. Martin, S.W. Kurtz, and C.R. Dubrovlny. 1981. *Aeromonas hydrophila* in wild-caught frogs and tadpoles (*Rana pipiens*) in Minnesota. *Lab. Anim. Sci.* **31**:166-169.
- McKinnell, R.G. 1981. The Lucké renal adenocarcinoma: Environmental aspects. In: *Proceedings of the 11th Annual Princess Takamatsu Cancer Meeting, Tokyo, Japan*, pp. 101-110.

- McKinnell, R.G. 1981. Amphibian nuclear transplantation: State of the art. In: *New Technologies in Animal Breeding* (B.G. Brackett, G.E. Seidel and S.M. Seidel, eds.) Academic Press, New York. pp. 163-180.
- McKinnell, R.G., E. Gorham, and D.G. Binger. 1982. Variation in the incidence of renal adenocarcinoma among *Rana pipiens* held under tumor-promoting conditions. *Am Midl. Nat.* **108**:111-116.
- McKinnell, R.G., W.P. Cunningham. 1982. Herpesviruses in metastatic Lucké renal adenocarcinoma. *Differentiation* **22**:41-46.
- McKinnell, R.G. 1984. The Lucké tumor: A neoplastic disease of frog kidneys with a herpesvirus etiology. In: *Diseases of Amphibians and Reptiles* (G.L. Hoff, ed.) New York: Plenum Press, pp. 581-605.
- Hird, D. W., S. L. Diesch, R. G. McKinnell, E. Gorham, F. B. Martin, and C.A. Meadows. 1983. *Enterobacteriaceae* and *Aeromonas hydrophilia* in Minnesota frogs and tadpoles. *Applied and Environ. Microbiol.* 1423-1425.
- McKinnell, R.G., G. De Bruyne, M. M. Mareel, D. Tarin, and K. S. Tweedell. 1984. Cytoplasmic microtubules of normal and tumor cells of the leopard frog: Temperature effects. *Differentiation* **26**:231-234.
- Tarin, D.R., G. McKinnell, and G.W. Nace. 1984. Artificially induced metastasis by cells from spontaneous Lucké renal adenocarcinoma. *Invasion and Metastasis* **4**:198-208.
- Ogilvie, D.J., R.G. McKinnell, and D. Tarin. 1984. Temperature-dependent elaboration of collagenase by the renal adenocarcinoma of the leopard frog, *Rana pipiens*. *Cancer Research* **44**:3438-3441.
- Shields, S.E., D.J. Ogilvie, R.G. McKinnell, and D. Tarin. 1984. Degradation of basement membrane collagens by metalloproteases released by human, murine, and amphibian tumours. *J. Pathology* **143**:193-197.
- Seppanen, E.D., R.G. McKinnell, D. Tarin, L.A. Rollins-Smith, and W. Hanson. 1984. Temperature-dependent dissociation of Lucké renal adenocarcinoma cells. *Differentiation* **26**:227-230.
- McKinnell, R.G. and D. Tarin. 1984. Temperature-dependent metastasis of the Lucké renal carcinoma and its significance for studies on mechanisms of metastasis. *Cancer Metastasis Reviews* **3**:373-386.
- Mareel, M., R. Bruneel, K. Tweedell, R. McKinnell, and D. Tarin. 1985. Temperature-dependence of PNKT4B frog carcinoma cell invasion *in vitro*. In:

*Treatment of Metastasis: Problems and Prospects.* (K. Hellmann and S.A. Eccles, eds.) London: Taylor and Francis. pp. 335-338.

- Orr, N.H., M.A. DiBerardino, and R.G. McKinnell. 1986. The genome of frog erythrocytes displays centuplicate replications. *Proceedings of the National Academy of Sciences* **83**:1369-1373.
- DiBerardino, M.A., N.H. Orr, and R.G. McKinnell. 1986. Feeding tadpoles cloned from *Rana* erythrocyte nuclei. *Proceedings of the National Academy of Sciences* **83**:8231-8234.
- McKinnell, R.G., M.M. Mareel, E.A. Bruyneel, E.D. Seppanen, and P.R. Mekala. 1986. Invasion *in vitro* by explants of Lucké renal carcinomas cocultured with normal tissue is temperature dependent. *Clinical and Experimental Metastasis* **4**:237-243.
- Juacaba, S.F., R.G. McKinnell, W.J. Hanson, and D. Tarin. 1987. Quantitative study of temperature dependency of metastasis of the Lucké carcinoma by experimental dissemination of labelled tumor cells in warm- and cold-adapted frogs. *Journal of the National Cancer Institute* **78**:259-264.
- McKinnell, R.G., E.A. Bruyneel, M.M. Mareel, K.S. Tweedell, and P. Mekela. 1988. Temperature-dependent malignant invasion *in vitro* by frog renal carcinoma-derived PNKT-4B cells. *Clinical and Experimental Metastasis* **6**:49-59.
- McKinnell, R.G. 1988. Transferencia nuclear en los anfibios: Estado de la cuestión. In: *Neuvas Tecnicas de Reproduccion Animal*, B.G. Brackett, G.E. Seidel, Jr., S.M. Seidel (eds), Editorial Ascribia, S.A., pp. 183-201.
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