THOMAS BURGESS POOL, Ph.D., HCLD

EDUCATION

INSTITUTION	<u>DEGREE</u>	<u>YEAR</u>
Sam Houston State University Sam Houston State University University of Virginia University of Texas Health Science Center at San Antonio	B.S. (Agriculture) M.A. (Biology) Ph. D. (Biology) Postdoctoral Fellow	1970 1973 1976 1976-1978

CERTIFICATION

High-Complexity	Clinical Laborator	/ Director,	1994 - present
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American Board of Bioanalysis Certificate number 6692 Subspecialties: Embryology Andrology

EMPLOYMENT

Scientific Director and Embryologist	1990-present
Fertility Center Laboratory, Inc.	
San Antonio Tevas	

San Antonio, Texas LAP 3942301 (CAP) 45D0501573 (CLIA)

Director, IVF Laboratory 2011-present

BAMC IVF Laboratory Department of Ob/Gyn Brooke Army Medical Center Fort Sam Houston, Texas LAP 2142230 (CAP)

Director, IVF Laboratory 2014 - present

Westlake IVF Austin, Texas

Director, IVF Laboratory United States Air Force 59 th Medical Wing 2200 Bergquist Dr., STE 1 Lackland AFB, Texas	1996 - 2011
Director, The Fertility Program at Methodist Hospital, Southwest Texas Methodist Hospital San Antonio, Texas	1989-1990
Director and Embryologist, Embryology Laboratory Southwest Texas Methodist Hospital San Antonio, Texas	1986-1990
Associate Professor (Tenure), Department of Cellular and Structural Biology, The University of Texas Health Science Center at San Antonio San Antonio, Texas	1984-1986
Assistant Professor, Department of Anatomy The University of Texas Health Science Center at San Antonio, San Antonio, Texas	1978-1984 o
Assistant Instructor, Department of Anatomy The University of Texas Health Science Center at San Antonio, San Antonio, Texas	1978 o
Graduate Teaching Assistant, Department of Biology University of Virginia	1973 -1974
Graduate Teaching Assistant, Department of Biology Sam Houston State University	1970 -1973

TEACHING EXPERIENCE

COURSES TAUGHT

Gross Anatomy and Embryology (Medical)
Gross Anatomy (Physical Therapy)
Gross Anatomy: Regional Anatomy of the Extremities
Microscopic Anatomy (Medical)
Microscopic Anatomy (Dental)
Cell and Quantitative Biology (Graduate)

Colloquium in Cell Biology (Graduate)
Graduate Cell Biology
Graduate Colloquium
Cancer Cell Biology
Comparative Anatomy and Embryology Laboratory(Undergraduate)
Cytology Laboratory (Undergraduate)
Entomology Laboratory (Undergraduate)
Introductory Biology Laboratory (Undergraduate)

Graduate Supervisory Experience:

Member of Graduate Faculty, The Graduate School of Biomedical Science 1978-1986 University of Texas Health Science Center at San Antonio San Antonio, Texas	
Supervisor, Postdoctoral Fellowships	2
Membership on Ph.D. Supervising Committees	6
Membership on M.S. Supervising Committees	3
CONSULTATIONS	
Laboratory Consultant, Jim Thompson, M.D Albuquerque, New Mexico	1995
Laboratory Consultant, Reproductive Endocrinology Department Gamete Lab of MacGregor Medical Association Houston, Texas	1994
Laboratory Consultant, Haroldo Lopez, M.D. Guatemala City, Guatemala, C.A.	1994
Laboratory Consultant, Carlos Felix, M.D., Roberto Santos, M.D. Manuel Garcia, M.D. Manterroy, Maying	1993
Monterrey, Mexico Program Consultant, IVF Program at Houston Northwest	1992-1993
Houston, Texas	1992-1999
Program Consultant, Alvarado Hospital San Diego, California	1992
Embryology Consultant, IVF Program at Harris Methodist Hospital Fort Worth, Texas	1992
Program Consultant, Brandeis Fertility Program, Union Hospital Union, New Jersey	1990
Embryology Consultant, Centro de Salud Reproductiva Buenos Aires, Argentina	1988
Embryology Consultant, Centro de Planejamento Familiar	1988

Sao Paulo, Brazil	
Consultant, Laboratory for In Vitro Fertilization	1983-1984
Department of Obstetrics and Gynecology	
University of Texas Health Science Center at San Antonio	
San Antonio, Texas	
Acting Director, Laboratory for Human In Vitro Fertilization	1983
Department of Obstetrics and Gynecology	
University of Texas Health Science Center at San Antonio	
San Antonio, Texas	

COMMITTEE MEMBERSHIP AND ADMINISTRATIVE EXPERIENCE

Member, Practice Committee, Society for Assisted Reproductive Technology, American Society for Reproductive Medicine	2007-present
Chairperson, College of Reproductive Biology, American Association of Bioanalysts	2000-2001
Chairperson, Southern Region, College of Reproductive Biology, American Association of Bioanalysts	1997-2001
Member, Program Committee, Reproductive Biology Professional Group, American Society of Reproductive Medicine	1996
Member, Practice Committee, Society for Assisted Reproductive Technology, American Society for Reproductive Medicine	1996
Inspector, CAP/AFS Reproductive Laboratory Accreditation Program	1994-present
Member, Scientific Advisory Board, Irvine Scientific, Inc. Santa Ana, CA	1995-1999
Member, Position Placement Committee American Society for Reproductive Medicine	1994-1996
Member, Executive Committee South Central Texas Chapter March of Dimes	1989-1980
Southwest Texas Methodist Hospital:	
Member, Fertility Program Committee Department of Obstetrics and Gynecology	1990-1991
Member, Institutional Review Board	1986-1990 1993-1994
Member, Maternal/Child Health Product Line Committee	1987-1988

University of Texas Health Science Center at San Antonio:	
Chairman, Institutional Research Grant Committee	1985-1986
Member, Institutional Research Grant Committee	1984-1986
Chairman, Grant Task Force	1985-1986
Department of Cellular and Structural Biology	
Member, Subcommittee on Graduate Studies	1984-1985
Department of Cellular and Structural Biology	
Member, Committee on Graduate Studies	1978-1986
Department of Anatomy	
Department of Cellular and Structural biology	
Member, Preclinical Promotions Committee	1984-1986
Medical School	
Member, Physical Safety Subcommittee	1983-1984
Institutional Safety Committee	
Member, Graduate Faculty Nominating Committee	1984
Graduate School of biomedical Science	
Member, Faculty Search Committee	1984-1985
Department of Obstetrics and Gynecology	
Member, Graduate Cell Biology Committee	1984-1986
Department of Cellular and Structural biology	
Chairman, Seminar Committee	1983-1984
Department of Cellular and Structural Biology	
Course Director, Colloquium in Cell Biology	
Department of Cellular and Structural biology	
Course Director, Gross Anatomy: Regional Anatomy of the Extrem	iities
Department of Cellular and Structural Biology	
Course Co-Director, Graduate Colloquium	
Department of Cellular and Structural Biology	
Conference Organizer, IX International Cell Cycle Conference	
San Antonio, Texas	1982

PROFESSIONAL SOCIETY MEMBERSHIP

The American Association of Bioanalysts (Active)

Chair, College of Reproductive Biology (2000-2001)

Chair, Southern Region, College of Reproductive

Biology, American Association of Bioanalysts (1997-99)

The American Society for Reproductive Medicine (Active)

Pacific Coast Fertility Society (Active)

The Texas Assisted Reproductive Technology Society (Active)

The International Cell Cycle Society

The American Society for Cell Biology

The American Association of Anatomists

The American Association for the Advancement of Science

SPECIAL RECOGNITION

Delta Tau Alpha National Honor Society	1968
Beta Beta Beta National Biological Honor Society	1969
Graduate Fellowship, Department of Biology Sam Houston State University	1971-1973
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Sigma XI Graduate Student Research Award	1973
Sam Houston State University	
DuPont Fellowship, Graduate School of Arts and Sciences University of Virginia	1973
Graduate Fellowship, Department of Biology University of Virginia	1973-1974
Predoctoral traineeship, United States Public Health Service National Institute of Child Health and Human Development University of Virginia	1974-1976

CONFERENCES AND SYMPOSIA

Conference Co-organizer Celebrating 20 Years of ART: From Cells and Techniques to Molecules and Innovation Sponsored by Medical Education Collaborative and Organon, Inc. Chicago, Illinois	1998
Technical and Scientific Aspects of the ART Laboratory Sponsored by the College of Reproductive Biology, AAB and the Texas ART Laboratories San Antonio, Texas	1997
State of the ART Then and Now Sponsored by Medical Education Collaborative and Organon, Inc. Chicago, Illinois	1996
ART in the New Millennium Sponsored by Medical Education Collaborative and Organon, Inc. Chicago, Illinois	1998

Symposium Director: Mechanisms of Growth Arrest in Mammalian Cells IX International Cell Cycle Conference San Antonio, Texas	1982
New Approaches to Cell Cycle Studies with Flow Cytometry IX International Cell Cycle Conference San Antonio, Texas	1982
Invited Speaker	
Southwest Embryology Summit	2014
Las Vegas, Nevada Industry Symposium, "Development and Application of the First Embryo Assessment Test: Time-lapse Enabled Technology, Clinical Validation and Generalization". ASRM Annual Meeting, Roston, MA	2013
Boston, MA Auxogyn, Inc. Industry Symposium, ASRM Annual Meeting	2012
San Diego, California 10th Annual Alamo City Cancer Council Breast Cancer Update San Antonia, Taylor	2012
San Antonio, Texas Pacific Coast Fertility Society 60th Annual Meeting	2012
Rancho Mirage, California Human Embryo Culture and Epigenetics Culture Media Study Group, Embryology Special Interest Group, European Society of Human Reproduction and Embryology, London, England	2012
Fertility Summit: Advancing the Science With a Patient Focused Vision, Dublin, Ireland	2011
Post Graduate Course: The IVF Laboratory in the 21st Century Middle East fertility Society	2011
ASRM Annual Meeting, Orlando, FL 24 th Annual Update, In Vitro Fertilization and Embryo Transfer	2011
UCLA School of Medicine, Santa Barbara, CA 23 rd Annual Update, In Vitro Fertilization and Embryo Transfer	2010
UCLA School of Medicine, Santa Barbara, CA American Association of Bioanalysis, College of Reproductive Biology Annual Meeting	2010
Las Vegas, Nevada Midwest Embryology Summit	2010
Madison, Wisconsin Master of Science Graduate Program in Clinical Embryology Jones Institute, Norfolk, Virginia	2010

22 nd Annual Update, In Vitro Fertilization and Embryo Transfer	2009
UCLA School of Medicine, Santa Barbara, CA New England Fertility Society, Annual Meeting Partemouth New Hampshire	2009
Portsmouth, New Hampshire 12 th Annual John W. Betts, M.D. Memorial Lecture Kansas City Gynecological Society Kansas City, Kansas	2008
Pre-Congress Course, Embryology Special interest Group 24 th Annual Meeting, European Society of Human Reproduction and Embryology Barcelona, Spain	2008
American Association of Bioanalysis, College of Reproductive Biology Annual Meeting Las Vegas, Nevada	2008
Southeastern Embryology Society Annual Meeting Charleston, South Carolina	2008
Texas Tech University Health Sciences Center Guest Lecturer, Graduate Student Association, 20 th Annual Student Research Week	2008
14 th World Congress on IVF	2007
Montreal, Canada Post-graduate Course: ART –The Power is in Your Hands. Society for Assisted Reproductive Technology	2007
Annual Meeting, ASRM, Washington, D.C. A Review of Preimplantation Embryology Sponsored by Tyho-Galileo Research Laboratories Rio Grande, Puerto Rico	2007
Smart ART VII: From Physiology to Clinical Success Symposium sponsored by Organon USA Las Vegas, Nevada	2006
Optimizing Culture Media Performance Symposium, Irvine Scientific, Inc. Irvine, CA	2006
ART in the 21 st Century: A Time for Reflections and New Horizons Serono Symposia International Nice, France	2005
Preservation of Fertility Through Cryobiology College of Reproductive Biology, AAB Irvine, CA	2005
Preservation of Fertility Through Cryobiology College of Reproductive Biology, AAB Ft. Lauderdale, FL	2004
German Congress of IVF Hannover, Germany	2004
17 th Annual Update, In Vitro Fertilization and Embryo Transfer	2004

UCLA School of Medicine, Santa Barbara, CA 16 th Annual Update, In Vitro Fertilization and Embryo Transfer UCLA School of Medicine, Santa Barbara, CA	2003
The Second Biennial Review of Preimplantation Embryology Saint Barnabas Medical Center, Department of Graduate Medical Education Cancun, Mexico	2003
Texas ART Society, Austin, Texas	2002
15 th Annual Update, In Vitro Fertilization and Embryo Transfer	2002
UCLA School of Medicine, Santa Barbara, CA	
Serono Symposium for Nurses in Reproductive Medicine	2002
Ft, Meyers, FL	
Reproductive Medicine Seminar	2002
University of Louisville	
Alpha International Symposium on Embryology	2001
New York City, NY	
14 th Annual Update, In Vitro Fertilization and Embryo Transfer	2001
UCLA School of Medicine, Santa Barbara, CA	
Department of Obstetrics and Gynecology	2001
ART Program, Brigham and Women's	
Hospital, Harvard University Medical	
School	0004
Annual Review of Preimplantation Embryology,	2001
The Institute for Reproductive Medicine and Science	
of Saint Barnabas and Alpha - Scientists in	
Reproductive Medicine, Cancun, Mexico	
Fertility Center of New England,	2000
Reading, MA	2000
Meeting, Dallas Area Reproductive Endocrinologists	2000
Dallas, Texas	2000
13th Annual Update, In Vitro Fertilization and Embryo Transfer	2000
UCLA School of Medicine, Santa Barbara, California	2000
International Symposium on ART and the	2000
Human Blastocyst, Serono Symposia	
Dana Point, CA	
The Institute for Reproductive Medicine and Science	1999
of Saint Barnabas, West Orange, NJ	
The Year 2000 and Beyond: Concepts for Nurses in	1999
Reproductive Medicine. Organon Symposium,	
Montreal, Canada	
Blastocyst Conference, Brigham and Women's Hospital and	1999
Serono Laboratories, Boston, Massachusetts	
12th Annual Update, In Vitro Fertilization and Embryo Transfer	1999
UCLA School of Medicine, Santa Barbara, California	

College of Reproductive Biology Symposium American Association of Bioanalysts	1999
Annual Meeting, San Diego, California	
Fertility Symposium, Keynote Speaker	1998
Oita City, Japan	
Japanese IVF Symposium, Invited Speaker	1998
Osaka, Japan	
Tokyo Ob/GYN Society, Invited Speaker	1998
Tokyo, Japan	
From Genotype to Phenotype: Fertility Across the	1997
Reproductive Lifespan. Organon Symposium,	
Phoenix, AZ	
St. Louis Area Embryologists	1997
St. Louis, MO	1331
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R.E.D. Symposium, IVF Registry of Latin America	1997
Cozumel, Mexico	4000
Chicago Area Reproductive Endocrinologists	1996
Chicago, IL	
University of Southern California School of Medicine	1996
Los Angeles, CA	
American Association of Bioanalysts	1996
40th Anniversary National Meeting	
Symposium on Culture Systems for Human Embryos	
Albuquerque, New Mexico	
University of Louisville Embryology Meeting	1996
Louisville, Kentucky	
Southeast Virginia Embryology Society	1996
Williamsburg, Virginia	
Twenty-Eighth Annual Postgraduate Program, Annual Meeting of	1995
the American Society for Reproductive Medicine,	
Seattle, Washington	
Serono Symposium and Dinner, in conjunction with the	1995
Annual Meeting of the American Society for Reproductive	1990
Medicine	
Seattle, Washington	400E
National Advisory Board for Ethics in Reproduction	1995
Washington, District of Columbia	4005
South Texas Assisted Reproductive Technology Meeting	1995
Houston, Texas	
Midwest Embryology Meeting	1995
Des Moines, Iowa	
North Texas Embryology Group	1995
Dallas, Texas	
Chicago Area Embryologists	1995
Chicago, Illinois	

ARTNOW	1995
Olympia, Washington	
Northern California Association of Reproductive Biologists San Francisco, California	1994
Post Graduate Course: Embryology Update	1994
The Pacific Coast Fertility Society	1001
Indian Wells, California	
Annual Meeting, Florida Society of Embryologists and	1994
A.R.T. Technologists	
Miami Beach, Florida	
Immulite Symposia, Hormone Analysis and IVF	1994
Diagnostic Products Corporation (Los Angeles, CA)	
Houston, Texas; Miami, Florida; Memphis, Tennessee	
The Conjoint Meeting of the American Fertility Society and	1993
the Canadian Fertility and Andrology Society	
Montreal, Canada	
Embryology Laboratory Research Symposium, Co-Sponsored	1993
by the Laboratory Technology Special Interest Group of the	
American Fertility Society and Serono Laboratories, Inc.	
Boston, Massachusetts	
New Horizons in Reproductive Medicine and Fertility Therapy	1992
San Diego, California	
Dominion Fertility and Endocrinology Institute	1990
Arlington, Virginia	
Department of Obstetrics and Gynecology, Methodist Hospital	1990
San Antonio, Texas	
IX International Symposium of Specialists in Human Reproduction	1988
Sao Paulo, Brazil	4000
Joint Meeting, Cell Kinetics Society and International	1986
Cell Cycle Society	
Denver, Colorado	4005
Department of Physiology, University of Texas Health	1985
Science Center	
San Antonio, Texas	1005
Department of Biology, St. Mary's University San Antonio, Texas	1985
Department of Biology, Rice University	1984
Houston, Texas	1304
Department of Biology, University of Texas	1984
San Antonio, Texas	1304
Department of Biology, Incarnate Word University	1983
San Antonio, Texas	1000
IX International Cell Cycle Conference	1982
San Antonio, Texas	
XIII International Cell Cycle Conference	1980
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Raleigh-Durham, North Carolina	
Department of Microbiology, University of Texas Health	1980
Science Center	
San Antonio, Texas	
National Institute for General Medical Science, National Institutes	1979
of Health	
Bethesda, Maryland	
Department of Biology, Trinity University	1979, 1984
San Antonio, Texas	
Tri Beta National Biological Honor Society Research Symposium	1978
Lake Conroe, Texas	
Miami Valley Research Laboratories, Proctor and Gamble Co.	1978
Cincinnati, Ohio	
Department of Biology, Texas A & M University	1978
College Station, Texas	
Department of Anatomy, Tulane University School of Medicine	1978
New Orleans, Louisiana	
Electron Probe X-ray Microanalysis Symposium, TSEM	1977
Austin, Texas	40== 40=0
Department of Biology, Sam Houston State University	1977,1979,
	1981,1983,
	1992, 2008

INDUSTRIAL AFFILIATIONS

Member, Scientific Advisory Board Irvine Scientific, Incorporated Santa Ana, California	1996-2001
Member, Scientific Advisory Board Humagen Fertility Diagnostics Charlottesville, Virginia	2003-2007
Member, Scientific Advisory Board Incept Biosystems Ann Arbor, Michigan	2006-2010

RESEARCH GRANT SUPPORT

"Development of a Solid-Phase Culture System:, \$2,000.00, Serono Laboratories, Inc., 1995

"Micromanipulation Laboratory for Human Embryology", \$53,267, The Methodist Hospital Foundation, 1990

"Compartments of Growth Arrest During Cellular Aging", \$161,817, National Institute on Aging, N.I.H., Grant R01 AG 03829, 1983-1986 (Principal Investigator).

Research Career Development Award, National Institute on Aging, N.I.H., \$190,000, Grant K04 AG00210, 1984-1986

"Quantitative Changes in Human Fibroblasts During Aging", \$121,000, National Institute on Aging, Grant \$01 AG02212, 1980-1984 (Principal Investigator).

"Analysis and Control of Rapidly Dividing Cell Populations", National Science Foundation, \$99,933, 1981-1983 (Co-principal Investigator).

Institutional Research Grant, UTHSCSA, \$3,800, 1977-1978 (Principal Investigator).

Institutional Research Grant, UTHSCSA, \$5,510, 1983 (Principal Investigator).

State Supported Research Grant, UTHSCSA, \$4,000, 1978-1979 (Principal Investigator).

EDITORIAL EXPERIENCE

Section Editor: Reproductive BioMedicine Online

Former Member, Editorial Board: The Journal of Clinical Embryology

Ad Hoc Reviewer: Fertility and Sterility

Human Reproduction

Human Reproduction Update Reproduction and Development

Journal of Andrology

Journal of Assisted Reproduction and Genetics

Cell and Tissue Kinetics

Journal of the National Cancer Institute

American Journal of Anatomy

Anatomical Record

Co-editor: The Transformed Cell, Academic Press, Inc. (New York), 1981 Co-editor: Embryo Culture, Methods and Protocols, Humana Press, 2012

Regional Editor: The TSEM Journal, 1979-1980

BIBLIOGRAPHY

Books

Cameron, I.L. and <u>T.B. Pool</u>, 1981. The Transformed Cell, Academic Press., New York.

Smith, G.D., Swain, J.E. and <u>T.B. Pool</u>, 2012. Embryo Culture: Methods and Protocols, Springer-Verlag, New York.

Chapters and Major Review Articles

Cameron, I.L., N.K.R. Smith, <u>T.B. Pool</u>, and R.L. Sparks, 1980. Intracellular concentration of sodium and other elements as related to mitogenesis and oncogenesis in vitro. Cancer Res. 40:1491-1500.

Cameron, I.L., N.K. R. Smith, <u>T.B. Pool</u>, B.G. Grubbs, R.L. Sparks and J.R. Jeter, Jr., 1980. Regulation of cell reproduction in normal and cancer cells: The role of Na, Mg, Cl, K and Ca. In: Nuclear-Cytoplasmic Interactions in the Cell Cycle (G.L. Whitson, ed.) Academic Press, New York.

Cameron, I.L. and <u>T.B. Pool</u>, 1981. The transformed cell; some introductory comments. In: The Transformed Cell (I.L. Cameron and T.B. Pool, eds.) Academic Press.

<u>Pool, T.B.</u>, I.L. Cameron, N.K.R. Smith and R.L. Sparks, 1981. Intracellular sodium and growth control: A comparison of normal and transformed cells. In: The Transformed Cell (I.L. Cameron and T.B. Pool, eds.), Academic Press, New York.

Sparks, R.L., <u>T.B. Pool</u>, N.K.R. Smith and I.L. Cameron, 1981. The role of ions, ion fluxes and Na+-K+-ATPase activity in the control of proliferation, differentiation and transformation. In: Genetic Expression and the Cell Cycle (G.M. Padilla and K.S. McCarthy, Sr., eds.) Academic Press, New York.

<u>Pool, T.B.</u> and J.D. Metter, 1983. Regulation of the lifespan of human diploid fibroblasts in vitro - New ideas and approaches. In: Aging and Cell Structure, Vol.2 (John E. Johnson, ed.), Plenum Press, New York.

<u>Pool, T.B.</u> 1988. An integrated approach to IVF, GIFT and ZIFT from the embryology laboratory. Proceedings of the IX International Symposium of Specialists in Human Reproduction, Sao Paulo, Brazil.

<u>Pool, T.B.</u>, S.H. Atiee and J.E. Martin, 1998. Oocyte and embryo culture: Basic concepts and recent advances. In: Infertility and Reproductive Medicine Clinics

of North America 9: 1-23.

Graham, M.C. and <u>T.B. Pool</u>, 1998. The evolution of energy substrates in the culture of human embryos. Assisted Reproduction Reviews 8: 65-68.

<u>Pool, T.B.</u> and J.E. Martin, 2000. The production of viable human blastocysts: The evolution of sequential culture systems. In: Assisted Fertilization and Nuclear Transfer in Mammals. (Mary Zelinsky-Wooten and Don Wolf, eds.), Humana Press.

<u>Pool, T.B.</u>, 2001. Blastocyst development in culture: the role of macromolecules. In: ART and the Human Blastocyst (D.K. Gardner and M. Lane, eds.). Springer-Verlag, New York.

<u>Pool, T.B.</u> and V.A. Ord, 2001. Oocyte treatment: from egg retrieval to insemination. In: Textbook of ART (D.K. Gardner, C.M. Howles, eds). Martin Dunitz, London.

Gardner D.K., <u>T.B. Pool</u> and M. Lane, 2001. Embryo nutrition and energy metabolism and its relationship to embryo growth, differentiation and viability. In: Seminars in Reproductive Medicine, Novel Approaches to Assisted Reproduction: In Vitro Maturation of Gametes and Embryos (D.K. Gardner and Z. Rosenwaks, eds.), Thieme, New York.

Pool, T.B., 2002. Recent advances in the production of viable human embryos in vitro. Reproductive BioMedicine Online 4:294-302.

Quinn, P. and T.B. Pool, 2003. Development of modern culture medium. SIRT (Australia), in press.

Pool, T.B. 2005. An update on embryo culture for human assisted reproductive technology: Media, performance and safety. In: Advances in Assisted Reproduction (K. J. Doody,ed.), Seminars in Reproductive Medicine 23:309-318.

Swain JE, Pool TB, Takayama S, Smith GD (2008) Microfluidics in ART: Current Progress and Future Directions. In *Textbook of ART*. Eds: Gardner DK, Howles C, Weissman A, Shoham Z, Informa Publishing, London

Swain JE, <u>Pool TB</u> (2008) ART failure: oocyte contributions to unsuccessful fertilization. *Human Reproduction Update* 14:43`-446.

Swain JE, <u>Pool TB</u> (2008) Microfluidics in ART: Time to go with the flow? *Fertility Magazine* 8: 15-20.

Swain JE, Pool TB, Takayama S, Smith GD. (2008). Microfluidic Technology in

ART: Is it time to go with the flow? *The Journal of Clinical Embryology* 11(2): 5-18.

<u>Pool TB, Schoolfield J, Han D. (2012). Human Embryo Culture Media Comparisons. In: Embryo Culture: Methods and Protocols.</u> Eds:Smith GD, Swain JE, Pool, TB. Humana Press, New York.

<u>Pool TB.</u> (2012) Macromolecular Supplementation of Embryo Culture Media. In: Culture Media, Solutions and Systems in Human ART. Ed: Quinn, P. Cambridge University Press, Cambridge, England.

Papers:

<u>Pool, T.B.</u> and T.R. Hoage, 1973. The ultrastructure of secretion in the spermatheca of the salmander, Manculus quadridigitatus (Holbrook). Tissue and Cell 5:303-313.

<u>Pool, T.B.</u> and T.R. Hoage, 1975. Intranuclear and cytoplasmic annulate lamellae in grasshopper spermatocytes (genus Melanoplus). Cell Tiss. Res. 156:475-482.

<u>Pool, T.B.</u> and J.N. Dent, 1977. The ultrastructure and the hormonal control of product of product synthesis in the hedonic glands of the red-spotted newt. Notophthalamus viridescens. J. Exp. Zool. 201:177-201.

<u>Pool, T.B.,</u>J.N. Dent and K. Kemphues, 1977. Neural regulation of product discharge from the hedonic glands of the red-spotted newt, Notophthalamus viridescens. J. Exp. Zool. 201:203-219.

<u>Pool, T.B.</u>, and I.L. Cameron, 1977. Chromatin fiber difference between condensed and dispersed chromatin: A comparative ultrastructure study. Cytobios 19:93-100.

<u>Pool, T.B.</u>, I.L. Cameron and N. Hagino, 1978. Functional castration by alpha fetoprotein in hepatoma-bearing female rats. J. Reprod. Fertil. 53:39-44.

Smith, N.K.R., R.L. Sparks, <u>T.B. Pool</u> and I.L. Cameron, 1978. Differences in the intracellular concentrations of elements in normal and cancerous liver cells as determined by x-ray microanalysis. Cancer Res. 38:1942-1959.

Cameron, I.L., N.K.R.Smith and <u>T.B. Pool</u>, 1978. Increase in the intracellular concentration of Na and Cl as hepatocytes transform from the normal to the neoplastic state: An elctron probe microanalysis study. In: Electron Microscopy 1978, Microscopical Society of Canada, Toronto, 2:120-121.

- Cameron, I.L., N.K.R. Smith and <u>T.B. Pool</u>, 1979. Element concentration changes in mitotically active and postmitotic enterocytes. An x-ray microanalysis study. J. Cell Biol. 80:444-450.
- Cameron, I.L., <u>T.B. Pool</u> and N.K.R. Smith, 1979. An x-ray microanalysis survey of the concentration of elements in the cytoplasm of different mammalian cell types. J. Cell. Physiol. 101:493-501.
- Heitman, D.W., <u>T.B. Pool</u> and I.L. Cameron 1980. Changes in proliferation and surface morphology in the rat ileum in response to total parenteral nutrition. J. Anatomy 130:603-615.
- <u>Pool, T.B.</u>, N.K.R. Smith, I.L. Cameron and K.H. Doyle, 1980. Evaluation of a preparative method for x-ray microanalysis of soft tissues. Cytobios 28:17-33.
- Cameron, I.L., <u>T.B. Pool</u> and N.K.R. Smith, 1980. Intracellular concentration of potassium and other elements in vaginal epithelial cells stimulated by estradiol administration. J. Cell. physiol. 104:121-125.
- Dung, H.C., <u>T.B. Pool</u> and J. Yu, 1980. Serum protein changes associated with atrophy of lymphoid organs in a mouse mutation. Develop. Comp. Immunol. 4:341-355.
- Dung, H.C., <u>T.B. Pool</u> and J. Yu, 1981. Changes in serum proteins of mice after splenectomy or immunization. Develop. Com. Immunol. 5:337-346.
- LaBadie, D.R.L., <u>T.B. Pool</u>, N.K.R. smith and I.L. Cameron, 1981. Elemental content in the nucleus and in yolk and yolk-free cytoplasm of developing Rana pipiens oocytes: An x-ray microanalysis study. J. Cell. Physiol. 109:91-97.
- <u>Pool, T.B.</u>, T.O. Heitman and M.A. Buck, 1981. Changes in nuclear shape and mitochondrial structure do not accompany the loss of division potential in human fibroblasts in vitro. Am. J. Anat. 162:369-382.
- <u>Pool, T.B.</u>, T.O. Heitman and M.A. Buck, 1982. Quantitative morphological analysis of proliferating and nonproliferating subpopulations of IMR-90 fibroblasts during aging in vitro. Am. J. Anat. 164:255-263.
- <u>Pool, T.B.</u>, 1982. A comparison of protein synthesis between serum deprived and postmitotic human diploid fibroblasts. Cell Biol. Int. Reports 6:658.
- Sparks, R.L., <u>T.B. Pool</u>, N.K.R. Smith and I.L. Cameron, 1983. Effects of amiloride on tumor growth and intracellular element content of tumor cells in vivo. Cancer Res. 43:73-77.

- Balmaceda, J.P., <u>T.B. Pool</u>, J. Arano, T.O. Heitman and R.H. Asch, 1984. Successful in vitro fertilization and embryo transfer in Macaca fascicularis. Fertil Steril 42:791-795.
- Carrillo, A.J., <u>T.B. Pool</u> and Z.D. Sharp, 1985. Vasoactive intestinal peptide increases prolactin mRNA content in GH3 cells. Endocrinology 116:202-206.
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