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Curriculum Vitae

Brenda Russell

(Formerly Brenda Russell Eisenberg)

Citizenship: British by birth. Naturalized United States, 1971

Family Status: Married. Four children, Ben 1969, Emily 1973, Jill 1974, Sally 1979

Education: B.Sc. (Honours) Physiology, 1965, University of London, England.
Ph.D. Physiology, 1971, University of London, England
Advisor, AF Huxley, Nobel Laureate.

Goals: I am committed to research, education,
encouraging multi-disciplinary programs
and supporting science and health for the community.

Present Positions: The University of Illinois at Chicago

Professor of Physiology and Biophysics, College of Medicine
Adjunct Professor of Medicine, Section of Cardiology
Adjunct Professor of Bioengineering, College of Engineering
Adjunct Professor of Kinesiology and Nutrition, College of Applied Health Sciences
Executive Associate Vice Chancellor for Research

Mailing Addresses

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ACADEMIC

Appointments

Academic

1965-1968	Research Associate with Dr. M.J. Moses, Anatomy and Physiology, Duke University
1968-1969	Associate Specialist with Dr. G.A. Langer, Medicine, UCLA.
1969-1971	External Graduate Student with Prof. A.F. Huxley, University College, London
1971-1974	Postdoctoral Research Fellow with Dr. J.B. Peter - to Assistant Research Biochemist, University of California, Los Angeles, CA
1974-1976	Adjunct Assistant Professor of Medicine, University of California, Los Angeles.
1976-1979	Assistant Professor of Pathology, Rush Medical College Chicago, IL
1979-1983	Associate Professor of Physiology and Pathology, Rush Medical College, Chicago, IL
1983-1988	Professor of Physiology and Anatomy, Rush Medical College, Chicago. IL
1985	Visiting Professor of Medicine, Division of Cardiology, University of Chicago, IL
1988-present	Professor of Physiology and Biophysics, University of Illinois at Chicago
1999-present	Adjunct Professor of Medicine, Section of Cardiology, UIC
1999-present	Adjunct Professor of Bioengineering, College of Engineering, UIC
2005-present	Adjunct Professor of Kinesiology and Nutrition, College of Applied Health Science, UIC

Administrative

1976-1983	Director of Muscle Pathology Laboratory, Rush University, Chicago, IL
1977-1988	Director, Central Electron Microscope Facility, Rush University, Chicago, IL
1977-1988	Director, Graduate Division of Cell Biology, Rush University, Chicago, IL
1994-1997	Associate Dean of the Graduate College, UIC
1996-present	Research Integrity Officer, UIC
1997-1999	Associate Vice Chancellor for Academic Affairs, UIC
1999-present	Executive Associate Vice Chancellor for Research, UIC

Professional Development

1999 (summer)	Harvard Graduate School of Education
1994	Senior Women in Medicine, American Association of Medical Colleges
1995	UIC Senior Administrator's workshop
1995, 1996	Research Ethics Course, University of Indiana.
2003	Higher Learning Commission for the North Central Association; Training as Consultant-Evaluator
2006	Higher Learning Commission for the North Central Association; Training as Team Chair

Professional Societies

1973-1990	Electron Microscopy Society of America
1973-1991	International Stereology Society
1974-2007	American Society for Cell Biology
1978- present	Biophysical Society
1979-2005	American Association of Anatomists
1979-present	American Heart Association (Basic Research)
1991-present	American Physiological Society
1992-present	American College of Sports Medicine. (Fellow 1998)
1995-present	Sigma Xi, president UIC Chapter
1995-present	American Women in Science
1996-present	American Association of Higher Education
1997-2002	RNA Society
1999-present	International Society for Heart Research
2004-present	Biomedical Engineering Society

National, Regional and State Committees

1988-1992	Co-chair/Member, Research Study Section American Heart Association: Cellular and Cardiovascular Physiology and Pharmacology
1992-1996	Member, Research Council, Chicago Heart Association
1992-1994	Member, Study Section American Heart Association: Molecular Biology
1994-1996	Member, Study Section American Heart Association: Established Investigators
1995-1999	Member, NIH Study Section: Cardiovascular A
1996-2004	Executive Counselor. American Association of Women in Science (Midwest Chapter)
1996-2004	Chair/Member, American Association of Medical Colleges GREAT Committee (Graduate Research, Education and Training)
1997-2001	Chair/Member, Study Section American Heart Association Regional Consortium: Cellular and Molecular Biology of Muscle
2000	Member, NSF panel. Nanotechnology Center proposal reviews
2001	Member, NIH HL Panel on Recovery from Heart Failure with Circulatory Assist Devices
2001	Member, NIH, NIDDK Advisory Group Meeting for Progress in Bladder Research
2001	Member, NIH/NSF Workshop on Bioengineering Training and Education Needs
2002	Member, Panel on Student Process and Outcomes at the National Academy of Science
2003-present	Consultant-Evaluator/ Team Chair, North Central Association, Higher Learning Commission
2006- present	Accreditor Reader Council, North Central Association, Higher Learning Commission
2004	Higher Learning Commission visits to West Virginia University, University of Kansas,
2005	Member, Board of Advisors, BiTmaP, bioinformatics training program for Midwest
2005	Higher Learning Commission visits to Case Western Reserve, Central Michigan University
2006	Consultant-Evaluator, Higher Learning Commission visit to Missouri State University
2007	Team Chair or Consultant-Evaluator, Higher Learning Commission visits to University of Phoenix, University of Indiana, Walden University
2009	Team Chair, Higher Education Commission visit to Mayo Clinic
Other	VA, NASA, Medical Research Council of Canada
Ongoing	Ad Hoc member, NSF, NIH, American Heart Association

University Committees

1988-1991	Member, Scientific Advisory Committee of Clinical Research Center, UIC
1989	Member, Investigation Committee on Academic Misconduct
1990-1991	Member, Advisory Committee to the Dean
1990-1992	Elected Member, Graduate College Awards Committee
1990-1992	Member, Senate Committee on Research
1990-1992	Member, Search Committee Chair of Medicine
1991-1993	Elected Member, Department of Physiology and Biophysics Advisory Committee
1991-1992	Chair, Review Committee of Chair of Microbiology
1992-1993	Member, College of Medicine Strategic Planning Committee
1992-1995	Member, College of Medicine Task Force on Neuroscience
1993-1999	Chair, University Biosafety Committee
1993	Member, Review Committee on Chair of Physiology
1993	Chair, Investigation Committee on Academic Misconduct
1993	Member, Graduate College Operations Committee
1994	Member, Senate Committee on Academic Services
1994	Member, Search Committee for Dean of Liberal Arts and Sciences.
1995-1996	Member, Statistics Committee
1996	Member, Chancellor's Committee on the Status of Women
1996	Member, Search Committee for Chair of Microbiology-Immunology
1998	Member, Search Committee for Head of Department of Biochemistry
1999-2000	Chair, Task Force for Bioinformatics

2000	Chair, Search Committee for director of Environmental Science and Policy
2000	Chair, Task Force for Tobacco-related Research
2000-present	Scientific Director, Chicago Biomedical Consortium with University of Chicago and Northwestern University
2001-2002	Chair, Task Force on Health Informatics.
2001	Chair, Search Committee for director of the Research Resources Center
2001	Chair, Search Committee for associate director of Center for Women and Gender Research
2002-2005	Chair, University Task Force on Time and Effort Reporting
2003-2005	Member, Executive committee for Women in Science and Engineering – Systems transformation (WISEST)
2004	Chair, University Research Advisory Council
2004	Chair, Search Committee for Office of Technology Management
2003-2005	Member, COM Research Building monitoring committee during its construction phase
2005	Hearing Officer for the Chancellor on a Grievance
2008	Chair, UIC mock site visit for Higher Learning Commission accreditation
2008	Chair, Search Committee for Office of Technology Management
2008- 2009	Member, UI Committee Academic Integrity Policy Review
2009	Member, UIC Master Planning committee

EDUCATION, TEACHING and MENTORING

Awards

2000	Chancellor's Mentor of the Year Award, UIC
2002	Chancellor's Mentor of the Year Award, UIC

Education

Academic Consultant/Educational Meetings

1997	Speaker American Association of Medical Colleges, Graduate Education Research and Training, GREAT, Landsdowne, VA
1998	Organizer and speaker, American Association of Medical Colleges, GREAT conference, Palm Springs, CA
1998	Director for UIC in a Pew Foundation funded project for “Public communication through institutional portfolios”
1999	Evaluation team member for North Central Association: University of Kansas City, MO
1999	Organizer/speaker, American Association of Medical Colleges, GREAT, Bermuda
2000	Organizer/speaker, American Association of Medical Colleges, GREAT, Savannah, GA
2000	Education workshop for undergraduate teaching for four year college faculty: Progress in muscle research American Physiological Society, Rush Medical College, Chicago
2001	Chair, External review of the Pacific Biomedical Research Center, University of Hawaii.
2003-2006	Member, External Advisory Board, Hawaii State Biomedical Research Infrastructure Network
2003	Consultant-Evaluator training, North Central Association, Higher Learning Commission
2006	Team Chair training, North Central Association, Higher Learning Commission

Education Committees

1978-1988	Member, Graduate College Council at Rush
1987-1988	Chair, North Central Association Accreditation Review for Rush Graduate College
1990-1993	Member, Curriculum Committee, Medical College
1992-1995	Elected Member, Graduate College Executive Committee
1993-1995	Member, Year One Appraisal Curriculum Committee, College of Medicine
1993-1994	Chair of Research Committee, and Member of Steering Committee for Liaison Committee on Medical Education (LCME) for the College of Medicine
1995-1997	Member, Seminar on Tenure (State of Illinois, University Committee)

- 1995-1996 Member, Promotion and Tenure Task Force, Chicago campus
 1996 Member, Steering Committee for Liaison Committee on Medical Education (LCME) for the College of Medicine, three year review.
 1997 Chair, Task Force on Assessment of General Education

Articles Related to Education

- 1 Poston, L.S., Russell, B., et al.. Seminar on Tenure Report. University of Illinois, 1997
 2 Russell, B., et al.. Excellence and Diversity: Report by the Task Force on Graduate Education at UIC. 1997
 3 Russell, B. *PhysioLog* Combining research and administration. October 1999
 4 Fox, T.R., Chalkley, Russell, B., Self-Assessment of Graduate Programs in the Biomedical Sciences: Narrative Guide and Companion Survey Instruments. American Association of Medical Colleges <http://www.aamc.org/members/great/selfassessmentreport.htm>, June 1999
 5 Russell, B., and others. UIC North Central Association of Colleges and Schools Monitoring Report on Assessment of General Education <http://www.uic.edu/depts/oa/Docs/ncacs.pdf>. March 1999
 6 Poston, L.S., Russell, B., and others. Report of the Task Force on General Education, University of Illinois at Chicago http://www.uic.edu/depts/oa/Docs/report_on_general_education.PDF November 1999
 7 Courtney C., J.S. Janicki and B. Russell. Quality Assessment of Graduate programs. *Journal of Veterinary Medical Education*. 32(3) 324-327, 2005

Teaching

Classroom Experience

- 1973-1983 Electron Microscopy Soc. Workshops: "Morphometric Analysis" California 1973: Midwest 1976, 1980; Maryland 1976; Oklahoma 1980; Iowa 1983
 1978-1981 Marine Biol. Lab., Woods Hole, MA "Quantitative Microscopic Analysis"
 1976-1990 Graduate courses at Rush: Muscle 461, Cell & Molec. Biol. 501, Electron Microscopy 522, Cell Mol. Biol. Techniques 571, Stereology 531, Muscle 416, Quant. Anatomy 556
 1977-1988 Rush Medical School lectures in Physiology, Pathology and Histology
 1989- Guest lectures in numerous graduate courses
 1989-1993 Medical Physiology lectures: Respiration and Muscle
 1991-1993 Human Physiology PHYB 401; Director. Nerve-muscle, cardiac, respiration, renal.
 1991- Advanced Muscle Topics PHYB 594
 1994-1999 Scientific Responsibility and Research Ethics, Graduate College 401, Director
 1994- Cell and Muscle Physiology for professional students
 1995-2003 Cell Biology PHYB-585 (4 credits) Director, multi-disciplinary core course
 2000-2005 Honors undergraduates (Hon 201) Medical science and the media
 2005 Stem Cells, PhyB 530 (2 credits) Course director, team taught
 Ongoing Team teaching in Cell Physiology PhyB 586, Muscle Physiology PhyB 516 and others

Mentoring

Postdoctoral Fellows

- 1982-1983 Joy A. Edwards-Beckett, Ph.D., D.N.Sc. Now: Professor and Director of Nursing Research Projects, Childrens' Hospital, Columbus OH
 1987-1988 Mary Pat Wenderoth, Ph.D. Now: Senior lecturer, Department of Zoology, University of Washington, Seattle, WA
 1988-1989 Kevin C. Darr, Ph.D. Now: Associate Professor, Physical Education, Adrian College, MI
 1992-1994 Zoe A. Eppley, Ph.D. Now: Senior Scientist, NASA Peer Review Services
 1993-1994 Ming-Yuan Zhou, MD, Ph.D. Returned to China
 1995-1998 Will W Sharp, MD Ph.D. Now: Assistant Professor and Attending, Emergency Medicine, U Chicago, IL
 1996-1999 Merja Perhonen, MD, Ph.D. Now: President and owner. Cardiac fitness health care company; CorusFit Jyväskylä, Finland

1997-1999 James Hokanson, Ph.D. Now: Associate Professor, Exercise Science and Sport Studies, Cortland College, NY
 1999- 2000 Gordana Nikcevic, Ph.D. Now Deputy Director of Research, Institute of Molecular Genetics and Genetic Engineering Belgrade, Serbia
 1999-2005 Samuel Boateng, Ph.D. Now: Assistant Professor, University of Reading, UK.
 2002-2003 Heidi Kluess Ph.D. Now: Assistant Professor, Kinesiology, University of Arkansas, Fayetteville, AK
 2004-2005 Jiguo Yu, Ph.D. Now: Assistant Professor, Anatomy, University of Umea, Sweden
 2205-2007 Sadhana Sharma PhD. Now: Research Assistant Professor, Ohio State University, OH
 2007-2008 Sirisha Asuri PhD. Now: maternity leave

Research Students - Graduate, Medical and Undergraduate

1984-1987 Mary Pat Wenderoth, Ph.D. Now: Senior lecturer, Department of Zoology, University of Washington, Seattle, WA
 1986-1988 Virginia Gates, MS. Now: High School science teacher.
 1985-1990 David J Dix, Ph.D. Now: Research Biologist with tenure, Reproductive Toxicology Division U.S. Environmental Protection Agency, Research Triangle Park, NC
 1986-1989 Zhaoying Lin, MS. Now: computer analyst for financial broker
 1988-1995 Paul Goldspink, Ph.D. Now: Assistant Professor of Medicine, UIC
 1988-1995 Jamil Jacobs-El, MD/Ph.D. Now: Orthopedic surgeon. Aurora, IL
 1989 Lesily Thomas, MD candidate. Summer Research. In clinical practice
 1989 Peter Thadini, MD candidate. Summer Research. In clinical practice
 1989-1992 Jennifer Kim, MD candidate. Research Year. In clinical practice
 1990-1991 Nick Riccardo, MD candidate. Summer Research. In clinical practice
 1990 Elizabeth Guise, MD candidate. Summer Research. In clinical practice
 1990 David L. Haller, MD candidate. Research Year. In clinical practice
 1991-1992 Fidel Echevaria, MD/PhD. In clinical practice
 1992-1993 Adam Duston, Illinois Mathematics and Science Academy (High School)
 1998-2001 William Ashley, Stanford Undergrad. Summer. UIC MD/Ph.D. Now: Instructor/fellow, Medicine, Neurosurgery, UIC
 1996 Tyler Stevens, MD candidate. In clinical practice
 1996-2000 Maria Heidkamp, Ph.D. Now: President and Owner of Alaska Reptiles, an exotic animal breeding company in Fairbanks, AK.
 1996 Matthew Strege, Honors Undergraduate
 1996 Hector Canseco, Honors Undergraduate
 1997-2003 Oveys Mansuri, Honors Undergraduate. In clinical practice
 1999-2002 Delara Motlagh, PhD. Now: Research Scientist, Regenerative Medicine Group Baxter Healthcare, Roundlake, IL
 1999 George Nimjeh, Honors Undergraduate. In clinical practice
 1999 Melvin Daniels, Honors Undergraduate. In clinical practice
 2000-2004 Haytham Mansour, DPM, PhD. Now: Resident, Orthopedics/Podiatry, Loyola, IL
 2000-2001 James Reinhardt, Summer Research from Kenyon College, OH
 2001-2003 Himabindu Vidula, Honors Undergraduate. In clinical practice
 2001-2003 Neil Ahluwalia, Honors Undergraduate. In clinical practice
 2002 Natalie DeJesus, Honors Undergraduate
 2002-2008 Samuel Senyo, PhD. Now: Bioengineering. Postdoc, Harvard Medical, Cambridge, MA
 2002-2004 Toyin Olagunju (Knight), MS, Bioengineering. Now: Res. Associate, Tengion, Inc NC
 2003-2007 Yevgeniya Koshman Graduate, Bioengineering. Now: Postdoc at Loyola University, IL
 2003- TJ Hartman, MS student, Physiology and MD at UIC
 2003-2005 Katherine Douglas, MS, Bioengineering
 2005-2008 Jesse Biehl PhD, Bioengineering
 2006-2010 John M. Collins, PhD, Bioengineering
 2006 Matthew Curtis, PhD student, Bioengineering

Awards to Postdoctoral, Graduate and Medical Students

- Wenderoth, Mary P. 1987. 1st Prize Midwest Electron Microscopist Society competition. 1988. Postdoctoral Fellowship from The Muscular Dystrophy Association of America. Elite Teaching Award, University of Washington, Seattle (2001)
- Dix, David J.. 1987. Poster selected in the "High School Program" at American Society for Cell Biology Meeting. 1988 Jan Langman Award: second prize for outstanding student abstract and presentation, American Association of Anatomists.
- Jacobs-El, Jamil. 1991. University of Illinois Medical Student Forum. First Prize. 1992: Sigma-Xi, second place. 1992: Bristol-Meyer Squibb Fellowship. 1992-1997: NIH predoctoral fellowship, Surgery Award, UIC College of Medicine.
- Kim, Jennifer. 1991, University of Illinois, College of Medicine Student Forum. First Prize.
- Goldspink, Paul. 1992-1994. University of Illinois Fellowship Award
- Ashley, William. 1998 Sigma-Xi student competition, second place. 1998 American Society for Cell Biology MAC Research Travel Award, 1998 1st place, MD,Ph.D. Research Symposium, University of Illinois at Chicago College of Medicine. 1998 2nd place, Sigma Xi Graduate Student Research Forum, University of Illinois at Chicago. 1997 Student National Medical Association, Todd Brown Academic Excellence Award. 1996. American Physiological Society/ NIDDK Research Travel Award. 1995 NIH National Research Service Award Predoctoral Fellowship. 1995 Martin Luther King Scholarship Award for Academic Excellence. 1994 NIH Training Grant Fellow, University of Illinois at Chicago College of Medicine.
- Sharp, Will W. NIH NRSA postdoctoral fellowship. 2001, Rotary fellowship for clinical research in England
- Stevens, Tyler . Craig Summer Research Fellowship, 1997.
- Mansuri, Oveys. UIC Honors Senior Award, 1998 and valedictorum, 1999. Green College, Oxford, 1999
- Motlagh, Delara. Travel Award Biophysics Society, 2001. Travel Award International Society for Heart Research, 2001. UIC Graduate College Award, 2001, NIH Training Grant Fellow
- Nijmeh, George . UIC Campus Undergraduate Research Forum, third place, 2000. Honors Council Award given to students with exceptional achievement academically and in their honors activity 2001. Kabbes Scholarship (UIC's highest undergraduate award) 2000.
- Ahluwalia, Neil, Honors Undergraduate, Honors Council Award 2002, Robert Byrd Scholarship (2000-2003), Kabbes Scholarship (UIC's highest undergraduate award) 2002, University Scholar Scholarship 2001- 2003, Goldwater national undergraduate student award 2002, Pasteur Award 2003, Avery Brundage Scholarship in Biological Sciences 2003.
- Mosley, William, Medical student. Craig summer fellow, 2002
- De Jesus, Natlalie, Honors Undergraduate, SROP summer fellow, 2002, Honors scholar 2003
- Vidula, Himabindu, Honors Council Award 2001, University Scholarship Award 2001- 2003, National Dean's List 2002, Hannes and Ann Nelson Scholarship from UIC College of Engineering 2002, J. W. Saxe Memorial Prize 2003, Bell Honor Award in Engineering 2003, Deans and Donors Scholarship 2003.
- Mansour, Haytham. Third Place, Poster prize, CUBIC, Chicago area Bioengineering, 2003; Barany Award, NIH Training Grant Fellow.
- Boateng, Samuel Y. Blackwell publishing poster prize at XVIII World Congress of the International Society for Heart Research in Brisbane, Australia (2004).
- Koshman, Yevgeniya, Provost's Award 2005, American Heart Association Predoctoral Fellowship
- Senyo, Sam E. Provost's Award Spring 2006, NRSA Fellowship (F31 HL7799, Sigma Xi second place, poster prize, 2006 University of Illinois Graduate Student Council Travel Award, Spring 2006 Gordon Research Conference "Alfred P. Sloan Foundation-Sponsored" Award August, 2003
- Biehl, Jesse. NIH Training Grant Fellow
- Collins, John M. Provost's Award Fall 2006, American Heart Association Predoctoral Fellowship 2008-2010, Image of Research Exhibit Competition – Honorable Mention 2008, UIC Student Research Forum 2008 second prize, 2009 honorable mention
- Curtis, Matthew. Provost's Award Spring 2008, UIC Student Research Forum 2009 first prize.

SERVICE and PUBLICITY*Academic*

- 1994-99 Chair of the Science Promotion Task Force for American Heart Association of Metropolitan Chicago. Set up a new initiative to place a scientist or medical worker in over 300 schools of Chicago, Cook, DuPage and Lake Counties to provide role models for Spanish-speaking and inner-city students.
- 1996 "Torch for Heart Research" volunteer of the year by American Heart Association, Chicago
- 1997 Chicago Tribune, Quoted in. "Women Ph.Ds Find it Lonelier at the Top."
- 1998 WTTW, Channel 11, Chicago Tonight. Panelist on Human DNA Cloning and Artificial Intelligence, Chicago, IL
- 1999 Chicago Tribune. Schreuder, C, J Manier, quoted Russell and others in "State female professors respond to MIT report." Metro pages 1 and 4, March 29
- 1999 Scientific American Quarterly. G. Zorpette quoted Russell and others in "The mystery of muscle". Summer: Vol 10: #2, 48-55, 1999
- 2001 Reuters Health Information. Steven Reinberg quoted Russell in "Researchers grow cardiac tissue in the laboratory." June 19, 2001
- 2001 Science Daily. Russell quoted in "University of Illinois at Chicago Researchers Created Lifelike Cardiac Tissue." July 6
- 2001 Winnipeg Free Press. Alexandra Paul quoted Russell et al., "Stem cells stir storm," July 12
- 2001 Heartwire News section. Russell quoted in "Do cardiomyocytes proliferate as we age? Evidence from a rat." July 13
- 2001 Cardiology Today's Molecular Cardiology section quoted Russell and others in "Cardiac tissue created for repair of damaged cells," August.
- 2001 Chicago Tribune by Jon Van. Business Section: Biotechnology. "Heart cells beat anew in 3-D dish: Computer chip-making technology aids research." August 13
- 2001 UIC News. Sharon Butler quoted Russell and others in "Researchers find key to repairing heart cells." August 22
- 2001 UIC Medicine. Sharon Butler quoted Russell and others in "UIC researchers created lifelike cardiac tissue." Fall
- 2001 Materials Research Society's MRS bulletin quoted Russell in "Silicone polymer scaffolds facilitate the growth of lifelike cardiac tissue." September
- 2001 WGN - TV, channel 9. Dina Bair of Medical Watch featured the Russell Lab and collaborators on "Breakthrough research involving an innovative cardiac cell culture system." October 5
- 2001 Family Circle's Medical News section by Christine Brophy noted UIC researchers in "Repairing Damaged Hearts." October 10
- 2001 UIC Annual Report. Russell quoted in "Creating lifelike cardiac tissue to study and treat heart disease." December
- 2001 Blue Cross and Blue Shield of Texas's Lifetimes quoted Russell in "On the way to fixing sick hearts." December
- 2002 UIC Honors College's, The Ampersand, featured Russell in "Focus on a Fellow: Dr. Brenda Russell" by Shilpa Raju. March
- 2002 Chicago Tribune by Jon Van. Business Section: "U. of I shows off faculty's tech work to venture firms." April 15
- 2002 I-Street, (<http://www.i-street.com/featured/person/brussell.asp>). Russell featured as Person of the Week," by Jeff Meredith. April 19
- 2002 UIC News, "Profile: Brenda Russell," by Lisa Stodder. April 24.
- 2002 I-Street. Jeff Meredith featured Russell and collaborators in "A better way of growing cells." June.
- 2004 Quoted in Long hours aside, respondents say jobs offer 'as much fun as you can have'. Science. 2004 Jun 18;304:1830-7.
- 2004 Chinese American News. September 24, 19th International Conference of Advanced Science and Technology. Front page and page 3, photographs and article.

- 2005 Naperville Sun; Quoted in article "To some in medical community, stem-cell funding long overdue". July 14, 2005
- 2006 NBC Channel 5. Healthwatch features the Russell Lab in research on stem cells in the heart. July 18, 2006
- 2006 City of Chicago Science Expedition: Stem cell, hype or hope. Science café series. September 22, 2006
- 2006 CBS Channel 2 Health. Stem Cells Are A Hot Topic, But What Are They? 26 October, 2006 http://cbs2chicago.com/health/local_story_299182934.html
- 2006 Current TV's Joe Hanson. Comedian and commentator provides a unique angle on certain stem cell controversies, Sep 10, 2007.
- 2007 Medill Reports' Thomas L. Day discusses the weakening state of federal funding for biomedical research, Mar 13, 2008.

Community Activities

- 1971-1972 President, UCLA Child Care Center
- 1983-1990 Vice President/Member, Illinois School Board District #90. Placed computers K-8th grades. Improved Learning Disabilities program. Supported lunch and after school Day Care Program. Middle School honored in the National School Recognition Program (1988-89) by US Department of Education.
- 1981-1983 Member, River Forest Community Center Board
- 1989-1993 Frank Lloyd Wright Association: Interpreter (tour guide)
- 1992-1995 Chicago Architecture Foundation: Docent (tour guide)
- 2001- 2004 Member, Board of Unitarian Church of Evanston, Illinois

Chicago Biomedical Consortium

The mission of the Chicago Biomedical Consortium is to stimulate collaboration among scientists at Northwestern University, the University of Chicago, and the University of Illinois at Chicago that will transform research at the frontiers of biomedicine. This is generously funded by The Searle Funds at The Chicago Community Trust for five million dollars per year. Dr Russell has been the UIC scientific leader since 2000.

RESEARCH

Editorial Service

- 1977-1981 Editorial Board, Journal of Microscopy
- 1985-1992 Associate Editor, The American Journal of Anatomy
- 1988-1992 Editorial Board, Circulation Research
- 1990-2007 Editor (90-93) and Board Member, American Journal of Physiology: Cell
- 1993-2000 Editor (93-00) and Board Member, Cell & Tissue Research
- 1999-2008 Editorial Board, Journal of Applied Physiology

Reviewer for Journals

Acta Anatomica, Anat. Rec., Canadian J. Zool., Circulation, Circulation Research, Cancer Res., Cardiovascular Research, Clin. Orthopaed. Rel. Res., Critical Rev. Anat. Sci., Devel. Biol., Hearing Research, J. Biol. Chem., J. Cell Biol., J. Clin. Invest., J. Devel. Physiol., J. Gen. Physiol., J. Histochem. Cytochem., J. Micros., J. Mol. Cell. Cardiol., J. Muscle Res. Cell Motil. J. Neuropath. Exp. Neurol., J. Ultrastr. Res., Langmuir, Muscle & Nerve, Pflugers Archiv., Scan. Electr. Micros., Science, Stem Cells and others.

International and National Meetings; Organizer/chair (O) or Invited Speaker (S)

- 1973 S Muscular Dystrophy Associations of America, International Congress, Carefree, Arizona
- 1974 S Gordon Conferences, 3rd International Congress, Muscle Disease, Newcastle, England
- 1974 S Fourth International Congress for Stereology, Gaithersberg, Maryland
- 1976 S First International Cell Biology Meeting, Boston, U.S.A.

- 1978 S Fourth Internat. Congress on Muscle Disease, Montreal, Canada
 1979 S Functional Specificity of Human Muscle Fibers. Stockholm, Sweden
 1980 S International Physiology Congress, Paris, France
 1980 S Physiology Society Satellite Conference, Szeged, Hungary
 1982 S Fifth International Congress on Neuromuscular Diseases, Marseilles, France
 1982 O/S First European Meeting of Stereology, Sheffield, England
 1984 S Seventh International Conference of Comparative Physiology, Crans, Switzerland
 1985 O/S Twelfth International Congress of Anatomy, London England
 1986 S Sixth, International Physiology Congress Satellite Meeting. Edmonton, Canada.
 1986 O/S International Symposium on Adaptive Mechanisms of Muscle. Szeged, Hungary
 1988 S Ciba Symposium "Neuromuscular Plasticity", London, England
 1988 O/S UCLA Symposium. "Cell and Mol. Biol. Muscle Development, Steamboat, CO
 1989 S EMBO Cell & Molecular Biology of Muscle Development, Cambridge, England
 1989 S Dynamic State of Muscle, Konstanz, Germany
 1991 O/S American College of Sports Medicine, Orlando, FL
 1993 S British Anatomical Society, London
 1993 O/S Swedish Exercise Physiology Symposium, Stockholm
 1993 O/S International Physiology Congress, Glasgow
 1994 S Canadian Exercise Physiology, Toronto, Canada
 1994 O/S American College of Sports Medicine, Indianapolis, IN
 1995 S FASEB, Integrative Exercise Physiology, Colorado Springs, CO
 1995 S American Uro-Gynecology Society Warrenton, VA.
 1996 O/S International Society for Heart Research, Chicago, IL
 1996 O/S American Association of Medical Colleges, GREAT conference, Phoenix, AZ
 1996 O/S American Physiological Society and American College of Sports Medicine, Vancouver
 Canada
 1997 O/S American College of Sports Medicine, Denver, CO
 1997 S University of Oulu and University of Jyvaskula, Finland
 1997 O/S American College of Sports Medicine, Denver, CO
 2000 O/S American Physiological Society; College of Sports Medicine. Exercise, Portland, ME
 2000 S American Association of Medical Colleges, GRAND Conference, Washington, DC
 2002 O/S American College of Sports medicine. St Louis Mo
 2002 O Chicago Biomedical Consortium. The New Biology: Technological Innovations Applied
 to Health and Disease at Adler Planetarium, Chicago
 2003 O/S University Bioengineering and Industry Consortium, Northwestern University, IL
 2004 O/S Chicago Biomedical Consortium, Proteomics Symposium, UIC
 2004 O/S 19th International Conference of Advanced Science and Technology, University of Illinois
 at Chicago
 2004 O/S American Physiological Society; College of Sports Medicine. Exercise, Austin, TX
 2005 S Wound Healing Society, 15th annual meeting, Chicago , IL
 2005 O Chicago Biomedical Consortium. Proteomics and Informatics. Northwestern, Evanston,
 IL.
 2006 O Chicago Biomedical Consortium. Infrastructure of systems biology at U of Chicago, IL
 2007 O Chicago Biomedical Consortium. Where Science Goes Next: Translation of Basic
 Discovery for Human Health. Illinois Science + Technology Park, Skokie, IL
 2008 O Chicago Biomedical Consortium. Frontiers in Molecular Imaging: From Promise to
 Practice. UIC, Chicago, IL
 2008 O/S American Physiological Society; College of Sports Medicine. The Integrative Biology of
 Exercise, Hilton Head, SC

University Research Lectures Presented

Bowling Green State University OH, Brigham Young University HI, Chicago Medical School, Columbia
 College of Physicians and Surgeons, Cornell Medical School, Duke Medical Center, Emory, Illinois
 Institute of Technology, Loyola Medical School, Pomona College, Northwestern, Tufts, Univ of California

at Los Angeles, Univ of Chicago, Univ of Colorado Medical Center, Univ of Illinois at Chicago, Univ of Illinois at Urbana-Champaign, Univ of Indiana, Univ Of Hawaii, Univ of Liverpool England, Univ of London England, Univ of Maryland, Univ of Michigan, Univ of New Jersey, Univ of Pennsylvania, Univ of Iowa, Univ of South Carolina, Univ of Vermont, Univ of Tennessee and others.

Selected Recent Lectures

- 2000 Human Subject Protection: Institutional Perspectives. American Association of Medical Colleges, GRAND Conference, Washington, DC
- 2000 How does muscle adapt to exercise? Kinesiology, U Michigan.
- 2002 Mechano-signal transduction. American College of Sports medicine. St Louis Mo
- 2003 The value of research. Bowling Green State University, OH
- 2004 Interdisciplinary research in the new age of BIG biology: cardiac applications. Hawaii State Biomedical Research Infrastructure Network, Brigham Young U, HI
- 2004 Quality assessment of graduate education. Annual Meeting of Association of American Veterinary Medical Colleges, Washington DC
- 2004 Interdisciplinary teams of the future. Alma College, Alma MI
- 2004 International Life Science and Technology: Collaborations in the age of the Internet. International Conference of Advanced Science and Technology, UIC, Chicago.
- 2004 Mechanical signal transduction: Responses and remodeling in the musculo-skeletal system. American Physiological Society & American College of Sports Medicine Meeting, Austin, TX
- 2004 The University Research Enterprise for the 21st Century, Oregon State University Corvallis.
- 2005 Cell Niche: Microtopography and Surface Chemistry, Midwest Connective Tissue Workshop Rush University Medical Center
- 2005 The Power of Revolutionary Thinking: What Today's Scientists Can Teach You about Driving Innovation in Your Organization, MIT Enterprise Forum of Chicago
- 2006 Stem Cell Niche: Microtopography for Cardiac Cells Cardiovascular Institute Loyola University Medical Center
- 2006 A Proposed Process for the Handling of Allegations of Curbstoning. Conference on the Responsible Conduct of Research in the Social and Behavioral Sciences University of Illinois at Chicago
- 2006 The Chicago Biomedical Consortium. Economic Development Council, Chicago
- 2006 Cardiac dysfunction and heart failure are associated with decreased levels of non-nuclear oligomeric muscle LIM protein. With SY Boateng. American Heart Association, Chicago
- 2007 Polymeric Microstructures in Three-Dimensional Gels for the Growth of Cells and Tissue Regeneration iBIO Index Innovation to Commercialization. Loyola University Medical Center, Maywood, IL
- 2007 Regenerative Medicine and Stem Cells Urogynecology, Loyola University Medical Center, Maywood, IL
- 2008 Cardiac stem cell and myocyte adaptation to the physical microenvironment. Cardiology, Northwestern University, Chicago IL
- 2008 Healthcare Business Women Association. Biotechnology and Pharmacology in the Midwest.
- 2008 Research on stem cells: Ideas, questions, data gathering. Chicago Council on Science and Technology, Northwestern, Evanston, IL
- 2008 Cardiac stem cell and myocyte adaptation to the physical microenvironment. Center for Cardiovascular Sciences, Albany Medical College, Albany NY

Grant Support

Previous

- 1971-1973 Fellow, Los Angeles County Heart Association Fellowship. Full salary.
- 1974-1993 PI, Muscular Dystrophy Association Grant-in-Aid. \$25,000 to \$47,000/year
- 1977-1979 PI, Chicago Heart Association Grant-in-Aid. \$23,000 per year
- 1979-1992 PI, American Heart Association Grant-in-Aid. \$30,000 to \$45,000 per year
- 1985 Senior Fellow, NIH; NRSA. F33-HL07115. Full salary.
- 1985-1988 PI, NIH RO1 HL35728. Total award \$591,978

- 1988-1994 PI, NIH RO1 HL40880. Total award \$1,213,131
- 1991-1995 Mentor, NIH. F31 GM15589. Minority predoctoral fellowship program-NIGMS \$106,500 to MD, Ph.D. student Jamil Jacobs-El.
- 1994-1995 PI, Banes Foundation. Cardiac molecular biology. \$50,000
- 1995-1998 Mentor, NIH. Postdoctoral fellowship to Will Sharp Ph.D.
- 1995 -1999 Mentor, National Institute of Health. 1F32 AR/NS08405, Gene responses to altered muscle activity. Minority predoctoral fellowship program-NIGMS \$106,500 to MD/Ph.D. student William Ashley, Jr.
- 1997-1999 Mentor, Academy of Finland, postdoctoral fellowship to Merja Perhonen MD, Ph.D.
- 1998-2001 PI, Pew Foundation, subcontract from IUPUI. Public communication through institutional portfolios. \$165,000
- 1994-1998 PI, NIH. RO1 HL40880, Total Award, \$1,122,083
- 1998-2002 PI, NIH. RO1 HL40880, Total Award \$1,740,791 (returned to take PO1, project 2)
- 2000-2005 PO1 HL 62426, PI. R. John Solaro. PI of project 2 and core C, *Mechanical Activity and Regional Protein Synthesis*. Total award \$1,486,780
- 2002-2005 1S07 RR18133-01 Co PI with Eric A. Gislason, Larry Danziger, and Arthur B. Schneider, Human Subject Research Ethics Training
- 2004-2006 Mentor. AHA 0415064Z American Heart Association. *Mechanisms regulating adaptation to increased sarcomere length* to Yevgeniya Koshman for a Predoctoral Fellowship. Total award \$49,000.
- 2004-2006 Searle Funds at Chicago Community Trust *Proteomics/Informatics demonstration project* Co PI 5% with R. Morimoto (Northwestern) and J. Silverstein (University of Chicago). Total award \$1,500,000
- 2001-2007 NIH RO1 HL 64956 Russell (PI) *Microfabricated Substrata for Cardiac Mechanobiology* Total award \$1,865,269.
- 2004-2008 Mentor. NIH NRSA F31 HI77995 *Differential Myocyte Response to Strain Vectors and Rate*. to Sam E Senyo Annual direct \$23,522 per year for five years

Current Funding

Integrated Mechanisms of Cardiac Maladaptation

Principal Investigator: R. John Solaro, Ph.D.

Principal Investigator: Project 2 Brenda Russell. *Mechanical Activity and Myocyte Remodeling*.

Agency: NIH Type: 1 PO1 HL 62426

Period: 06/01/10-05/31/15 (approx \$250/year for Dr Russell)

Response of striated muscle to adaptation of molecular composition and cell shape to altered physiological demand relevant to dilated and concentric cardiomyopathy.

Cardiac Regeneration through Temporal Release of Growth Factors from 3D Microrod Scaffold

Principal Investigator: Paul Goldspink

Agency: NIH type: 1R01HL090523

Period: 09/29/2009 - 07/31/2014 Award total \$1,949,150.

Role: Co-Principal Investigator The major goals of this project are to develop microrod Mechano Growth Factor therapy that supports the regeneration of cardiac muscle to regain cardiac function in the failing human heart.

Searle Funds at Chicago Community Trust. *Chicago Biomedical Consortium*

01/01/2006 – 12/31/2010. Total award \$25,000,000. Annual direct \$5,000,000

Role. Russell Co PI 10% with R. Morimoto (Northwestern) and J. Silverstein (University of Chicago).

These funds are designed to support and stimulate innovative multi-institutional collaborations in research and education that will enable the Chicago area to become a leader in the biomedical sciences.

Illinois Department of Public Health (Asrar Malik PhD PI) *Cardiac Muscle Regeneration In Heart Failure*

07/01/2006 – 06/30/2009. Total award for Project 3: \$70,000 Annual direct \$35,000

Role: Russell Co-PI of sub- project 5% with Geenen, Goldspink.

This is funding from State of Illinois for the Center of the Development of Stem Cell Therapies for Human Diseases.

NIH R01 NR009967 Rebecca A Lind PI . *Analysis of Research Misconduct Policies: Surveys of Officers* 09/29/2006 - 07/31/2008. Total award \$216,298 Annual total \$107,680 in no-cost extension.

Role: Co-PI 5%

NIH T32 HL 07692. R. John Solaro is PI. *Cellular signaling and the cardiovascular system.*

06/2004 - 5/2009 Annual direct \$23,522

Role. Advisor 2%

This funds Matthew Curtis for a predoctoral fellowship on signals in cardiac tissue engineering.

AHA 0815535G Advisor to John Collins 07/2008 - 06/2010 American Heart Association (Greater Midwest). *Micromechanical forces and mechano growth factor affect mouse bone marrow mesenchymal stem cells in 3D cell culture.* Annual direct \$25,000

Pending Support

1R01HL095628 Russell (PI). *The external three-dimensional physical microdomain regulates cell function.* Requested \$1,183,500. Funding is requested to study how the external substratum plays a role in cell anchorage that regulates fundamental functions such as cell division, apoptosis, migration, differentiation and phenotype. By using a combination of bioengineering and cell biology-based techniques, we control the physical parameters of the 3D structural microenvironment and quantify the structural, functional and molecular responses. The long-term goal is to understand these basic biophysical principles and mechanobiological cues in heart cell regulation.

Patents and Entrepreneurship

Inventors: Brenda Russell, Tejal A Desai, Luke Hanley. *Microfabrication of membranes for the growth of cells.* Tuesday, September 13, 2005 as U.S. Patent No. 6,942,873

Inventors Brenda Russell, Tejal Desai, Paul Goldspink. *Mechano Growth Factor Peptides and Their Use.* WO/2006/097764. PCT/GB2006/001012

Inventors Brenda Russell, Tejal Desai, Paul Goldspink. *Temporal Release of Growth Factors from 3D Rod Scaffolds for Tissue Regeneration.* 2008. PCT/60/950,454.

Inventors Brenda Russell, Tejal Desai, Paul Goldspink. *Nanoparticles for the Elution of Growth Factors for Recovery and Regeneration of Organs.* 2008. PCT/60/950,439.

Co-Founder of Cell Habitats, Inc. with Tejal Desai. 2006

BioRegenix Inc. Member of the Scientific Advisory Board, 2008

2006- Mentor in UIC MBA student competition for Cell Habitats, Inc. for Roshni Chowdhry, Brett Piasecki, Karthik Shankar, Maya Shultz

2008- Mentor in UIC MBA student competition for BioRegenix Inc.. Second place for Gokul N. Kumar, Thomas Triantafillou and Darius Kaulius

Publications in Biomedical Research

- 1 Eisenberg, B. and Eisenberg, R.S. Transverse tubular system in glycerol treated skeletal muscle. *Science*, 160:1243-1244, 1968
- 2 Eisenberg, B. and Eisenberg, R.S. Selective disruption of the sarcotubular system in frog sartorius muscle. *Journal of Cell Biology*, 39:451-467, 1968
- 3 Eisenberg, B.R. (Ph.D. Thesis). The sarcotubular system of frog sartorius muscle. Part 1: Normal and glycerol treated muscle studied with peroxidase marker. Part 2: Sodium pumping of the t-system examined with sodium pyroantimonate localization. Advisor: Professor A.F. Huxley. University of London, 1971
- 4 Eisenberg, B.R., Kuda, A. and Peter, J.B. Morphometric analysis of the slow-twitch fibers of the guinea pig. In: *Electron Microscopy. Proceedings of the 30th Electron Microscopy Society of America*. C.J. Arceneaux, editor. Claitor's Publishing Division, Baton Rouge, Louisiana. pp. 36-37, 1972
- 5 Eisenberg, B.R. Quantitative ultrastructural analysis of adult mammalian skeletal muscle. In: *Exploratory Concepts of Muscle II*. Ade T. Milhorat, editor. Excerpta Medica, Amsterdam. pp. 258-70, 1974
- 6 Eisenberg, B., Kuda, A.M. and Peter, J.B. Stereological analysis of mammalian skeletal muscle. I. Soleus muscle of the adult guinea pig. *Journal of Cell Biology*, 60:732-754, 1974
- 7 Eisenberg, B.R. Can Electron microscopy distinguish fiber types? In: *Proc Third International Congress on Muscle Diseases*. Excerpta Medica, Amsterdam. I.C.S., 360, pp. 211-216, 1975
- 8 Eisenberg, B.R. and Kuda, A.M. Stereological analysis of mammalian skeletal muscle II. White vastus muscle of the adult guinea pig. *Journal of Ultrastructure Research*, 51:176-187, 1975
- 9 Eisenberg, B.R. and Mobley, B.A. Size changes in single muscle fibers during fixation and embedding. *Tissue and Cell*, 7:383-387, 1975
- 10 Mobley, B.A. and Eisenberg, B.R. Sizes of components in frog skeletal muscle measured by methods of stereology. *Journal of General Physiology*, 66:31-45, 1975
- 11 Eisenberg, B.R. and Peachey, L.D. The network parameters of the t-system in frog muscle measured with the high voltage electron microscope. In: *33rd Annual Proceedings of the Electron Microscopy of America* G.W. Bailey, editor, pp. 550-551, 1975
- 12 Eisenberg, B.R. and Kuda, A.M. Discrimination between fiber populations in mammalian skeletal muscle by using ultrastructural parameters. *Journal of Ultrastructure Research*, 54:76-88, 1976
- 13 Eisenberg, B.R. and Kuda, A.M. Retrieval of cryostat sections for comparison of histochemistry and quantitative electron microscopy in a muscle fiber. *Journal of Histochemistry and Cytochemistry*, 25:1169-1177, 1977
- 14 Peachey, L.D. and Eisenberg, B.R. Helicoids in the t-system and striations of frog skeletal muscle fibers seen by high voltage electron microscopy. *Biophysical Journal* 22:145-155, 1978
- 15 Eisenberg, B.R. and Gilai, A. Structural changes in single muscle fibers after stimulation at a low frequency. *Journal of General Physiology*, 74:1-16, 1979
- 16 Eisenberg, B.R., Mathias, R.T. and Gilai, A. The intracellular localization of markers within injected or cut frog muscle fibers. *American Journal Physiology:Cell*, 6, C50-C55, 1979
- 17 Eisenberg, B.R. Skeletal muscle fibers: stereology applied to anisotropic and periodic structures. In: *Stereological Methods: Practical methods for biological morphometry*. E. Weibel, editor, Academic Press, London, 1: 274-284, 1979
- 18 Pencek, T.L., Schauf, C.L., Low, P.A., Eisenberg, B.R. and Davis, F.A. Disruption of the perineurium in amphibian peripheral nerve: Morphology and physiology. *Neurology* 30:593-599, 1980
- 19 Eisenberg, B.R. and Salmons, S. The reorganization of subcellular structure in muscle undergoing fast-to-slow type transformation: a stereological study. *Cell and Tissue Research*, 220:449-471, 1981
- 20 Eisenberg, B.R. and Eisenberg, R. T-SR junction in contracting single skeletal muscle fibers. *J. Gen. Physiol.*, 79:1-20, 1982
- 21 Eisenberg, B.R. and Cohen, I.S. The ultrastructure of the cardiac Purkinje strand in the dog: a morphometric analysis. *Proc. Roy. Soc. B*. 217:191-213, 1983
- 22 Eisenberg, B.R. Quantitative ultrastructure of mammalian skeletal muscle. In *Handbook of Physiology* (eds) L.D. Peachey and R.H. Adrian, Am. Physiol. Soc, Bethesda, MD, Section 10: 73-112, 1983

- 23 Eisenberg, B.R. Book review of Hoyle "Muscles and Their Neural Control." Wiley Interscience, New York, in *Muscle and Nerve*, 6 (8):611, 1983
- 24 Eisenberg, B.R. Quantitative Analysis of Electron Micrographs. In "Electron Microscopy: 39 exercises, a research protocol, an intensive short-course and workshop layout. Ed. B.R. Jones, Library Research Associates, Monroe, N.Y., pp. 503-524, 1983
- 25 Siegel, I.M., Eisenberg, B.R., Glantz, R.H. Contributory Etiologic Factor for Talipes Equinovarus in Congenital Myotonic Dystrophy: Comparative Biopsy Study of Intrinsic Foot Musculature and Vastus Lateralis in Two Cases. *J. Pediatric Orthopedics*, 4:327-330, 1984
- 26 Eisenberg, B.R., Brown, J.M.C. and Salmons, S. Restoration of fast muscle characteristics following cessation of chronic stimulation: the ultrastructure of slow-to-fast transformation. *Cell and Tissue Research*, 238:221-230, 1984
- 27 Eisenberg, B.R. and Milton, R.L. Muscle fiber termination at the tendon in the frog's sartorius: a stereological study. *American Journal of Anatomy*, 171:273-284, 1984
- 28 Clark, W.A., Everett, A.W., Chizzonite, R.A., Eisenberg, B.R. and Zak, R. Classification and Characterization of Cardiac Isomyosins. *European Heart Journal*. 5F: 69-75, 1985
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- 30 Eisenberg, B.R. Adaptability of ultrastructure in the mammalian muscle. *Journal of Experimental Biology*. 115: 55-68, 1985
- 31 Eisenberg, B.R., Edwards, J.A., Zak, R.. Transmural redistribution of isomyosin in rabbit ventricle during maturation examined by immunofluorescence and by staining for Ca²⁺-activated ATPase. *Circ. Res.*, 56: 548-555, 1985
- 32 Eisenberg, B.R. Human fiber types and electron microscopy. In: *Skeletal Muscle* by H. Schmalbruch. Springer-Verlag, Berlin, pp. 202-204, 1985
- 33 Eisenberg, B.R. Quantitative analysis of electron micrographs. In *electron microscopy: 41 exercises by 17 scientists*. Ed. B.R. Jones chapter 39: 359-378, 1985
- 34 Nag, A., Sweeney, L., Eisenberg, B., Manasek, F. and Zak, R. Evolving phenotype of the heart. *Molecular Biology, of Muscle Development*. Editors C. Emerson, D. Fischman, B. Nadal-Ginard, M.A.Q. Siddiqui. 29: 841-852, 1986
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- 36 Eisenberg, B.R., Dix, D.J., Lin, Z.W. and Wenderoth, M.P. Relationship of membrane systems in muscle to isomyosin content. *Canadian J. Physiology and Pharmacology* 65:598-605 1987
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- 41 Dix. D.J. and Eisenberg, B.R. Spatial distribution of myosin mRNA in cardiac tissue by in situ hybridization techniques. In *Biology of the Isolated Adult Cardiac Myocyte*. W.A. Clark, T.K. Borg, and R.S. Decker (eds). Elsevier. pp147-160 1988
- 42 Eisenberg, B. R., Kennedy, J.M. and Dix, D.J. Physiological factors influencing growth of skeletal muscle. *CIBA 138 Symposium on Neuromuscular Stimulation*. Ed A. J. Buller, John Wiley and Sons, Chichester UK. pp3-21 1988

- 43 Eisenberg, B.R. published comments on review by Ogata ,T., Morphological and cytochemical features of fiber types in vertebrate skeletal muscle. *Critical Reviews in Anatomy and Cell Biology* 1: 229-275 1988
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- 45 Eisenberg, B.R., Kennedy, J.M., Wenderoth, M.P., Dix, D.J.. Satellite cells, isomyosin switching and muscle growth. *UCLA Symposium on Molecular Biology and Development of Muscle*. (eds) F. Stockdale and L. Kedes. Alan R. Liss, Inc. pp 451-460 1989
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- 51 Dix, D.J. and Russell Eisenberg, B. Expression of a fast myosin heavy chain mRNA in individual rabbit skeletal muscle fibers with intermediate oxidative capacity. *Anat Rec* 230:52-56 1991
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- 54 Russell, B, Wenderoth, M.P. and Goldspink, P.H.. Remodelling of myofibrils: subcellular myosin heavy chain protein and mRNA distribution. *Am J Physiol* 262: Reg. Int. Comp. Physiol. 31 R339-R345 1992
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- 60 Russell, B., Use it or lose it. *Trendsetters.* NIPS 9: 239-240, 1994
- 61 Jacobs-El, J., Zhou, M-Y. and Russell, B. MRF4, myf5 and myogenin mRNAs in the adaptive responses of mature rat muscle. *Am J. Physiol: Cell*, 268; C1045-C1052, 1995
- 62 Eppley, ZA and Russell, B. Perinatal changes in avian muscle: implications from ultrastructure for the development of endothermy. *J Morphol* 225:357-367 1995
- 63 Russell, B., Striated muscle. *Gray's Anatomy. Chapter 7 on Myology* by S. Salmons. Churchill Livingstone, London. Figures 7.7, 7.8, 7.9, 7.10, 7.16, 7.17, 7.34, 7.36 and pp 748-749, 1995
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