

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Price, Ronald R.		POSITION TITLE Professor	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Western Kentucky University	B.S.	1965	Physics
Vanderbilt University	Ph.D.	1971	Physics

A. Positions and Honors**Positions and Employment**

- 1970-1973 Research Biophysicist, Dept of Radioisotope Research, Veterans Admin Hospital, Nashville, TN
 1972-1973 Research Associate, Div of Nuclear Med & Biophysics, Dept of Radiology, Vanderbilt University
 1973-1975 Instructor, Div of Nuclear Med & Biophysics, Dept of Radiology, Vanderbilt University
 1975-1977 Assistant Professor of Radiology, Div of Nuclear & Biophysics, Vanderbilt University
 1977-1978 Assistant Professor of Radiology, Div of Radiological Sciences, Vanderbilt University
 1978-1986 Associate Professor of Radiology, Chief of Diag Physics & Ultrasound Physics, Div of Radiological Sciences, Vanderbilt University
 1979-pres Associate Professor of Physics, Dept of Physics and Astronomy, Vanderbilt University
 1986-pres Professor of Radiology, Chief of Diagnostic Physics and Ultrasound Physics; Director, Div of Radiological Sciences, Vanderbilt University
 1994-pres Professor of Physics, Department of Physics & Astronomy, Vanderbilt University

Honors and Awards

- 1965-1968 Atomic Energy Commission Health Physics Fellowship, Vanderbilt University
 1968-1969 National Sciences Foundation Fellowship, Vanderbilt University
 1990-1991 President - NMR Council of the Society of Nuclear Medicine
 1994 Society of Magnetic Resonance Imaging
 1994-pres American College of Radiology, MRI Accreditation: Physics Subcommittee
 1992-pres American Board of Radiology, Diagnostic Medical Physics and Medical Nuclear Physics
 1998-pres Editorial Board, Medical Physics

B. Selected Peer-reviewed Publications

- Price, R. R. (1995). Contrast mechanism in gradient-echo imaging and an introduction to fast imaging. *RadioGraphics*, 15, 165-178.
- Park, J. H., Olsen, N. J., King Jr, L., Vital, T., Buse, R., Kari, S., Hernanz-Schulman, M., & Price, R. R. (1995). Use of magnetic resonance imaging and P-31 magnetic resonance spectroscopy to detect and quantify muscle dysfunction in the amyopathic and myopathic variants of dermatomyositis. *Arthritis & Rheumatism*, 38(1).
- Creasy, J. L., Crump, D. B., Knox, K., Kerber, C. W., & Price, R. R. (1995). Design and evaluation of a flow phantom. *Acad Radiology*, 2, 902-904.
- Price, R. R., Lee, H., Welch, L., Riddle, W. R., Gibbs, S. J., Martin, P. R. (1995). Assessment of fine motor function using functional MRI. *Radiology*, 197(P), 219.
- Riddle, W. R., Creasy, J. L., Price, R. R. (1995). Quality assurance for fat saturation MR imaging. *Radiology*, 197(P), 451.
- Creasy, J.L., Partain, C.L., & Price, R.R. (1995). Quality of clinical MR imagin and the use of contrast agents. *RadioGraphics*, 15, 683-696.
- Lee, H., Tarter, J., Holburn, G.E., Price, R.R., Wenstein, D.D., & Martin, P.R. (1995). In-vivo localized NMR spectroscopy of thiamine-deficient rat brain, *Magn Reson Med*, 34, 313-318.
- Viner, D.D., Park, J.H., Price, R.R., & Olsen, N.J. (1995). Characterization of patients with steroid myopathy with MR imaging and P-31 MR spectroscopy. *Radiology*, 197(P), 156.
- Viner, D., Park, J., Price, R., & Olsen, N. (1995). Characterization of steroid myopathy using MRI and P-31 magnetic resonance spectroscopy, *Proceedings of the Soc of Magnetic Resonance (Nice, France)*, 3, 1867.

- Price, R. R. (1996). Advances in Magnetic Resonance Imaging. *Bulletin of American Physical Society*, 41(2), 887.
- Price, R.R., Lee, H., Welch, L., Riddle, W.R., Gibbs, S.J., Martin, P., & Kessler, R. (1996). Functional MR imaging assessment of fine motor function, *Book of Abstracts. 4th Meeting of SMR*, p.1764, New York.
- Lee, H., Holburn, G.E., Price, R.R., & Kennedy, J.S. (1996). Effects of cholinergic drugs in rat brain at in-vivo MR spectroscopy. *Radiology*, 201(P), 427.
- Riddle, W.R., Price, R.R., Butler, M.G., & Ewing, S. (1996). Radiologic assessment of body composition in patients with Prader-Willi Syndrome. *Radiology*, 201(P), 529.
- Gore, J. C., & Price, R. R. (May, 1997). Functional magnetic Resonance Imaging, *Physics News*, American Institute of Physics.
- Lee, H., Holburn, G. E., Price, R. R., & Martin, P. (April, 1997). In vivo NMR spectroscopy of cholinergic drugs in rat brain. *Proceedings of the International Society of Magnetic Resonance in Medicine, Fifth Scientific Meeting, Vancouver, B.C., Canada, 2*, 1247.
- Lee, H., Riddle, R., Gibbs, S.J., Price, R.R., Dawant, B.M., Li, T., Parks, M., & Martin, P. (1997). Reduced variability in serial metabolite measurements using on-line image, *Proceedings of the ISMRM, 5th Scientific Meeting Guided Registration of ROIs*, 3, 1430.
- Riddle, W.R. & Price, R.R. (1997). Estimating percent body fat in Prader-Willi Syndrome with MR imaging. *Proceeding of the ISMRM, 5th Scientific Meeting, Vancouver, B.C., Canada, 3*, 2100.
- Riddle, W.R., Pickens III, D.R., Price, R.R., & Witt, W.S. (1997). Comparison of image detectability between photostimulable phosphor (IP) and conventional screen-film images using contrast-detail phantoms. *Radiology*, 205(P), 392.
- Lee, H., Dawant, B.I., Parks, M., Schlack, H., Li, T., & Price, R.R. (1997). Single voxel MR spectroscopy (MRS) using on-line image guided registration of volume-of-interest (VOI). *Radiology*, 205(P), 260.
- Price, R.R. (1997, March). Contrasts in agents in MRI. *AAPM 1997 Symposium, Southeastern Chapter*.
- Melzer, P., Dickens, D.R., Price, R.R., Morgan, V.L., Wall, R.S., & Ebner, F.F. (1998). Reading Braille activates cortical areas of the dorsal stream in the blind: A fMRI study. *Society for Neuroscience*, 24, 1979.
- Melzer, P., Dickens, D.R., Price, R.R., Morgan, V.L., Symons, F.J., & Wall, R.S. (1998). Reading Braille predominantly activates extrastriate cortex in persons with severe visual disability: A fMRI study. *Proceedings of the International SMRM, 6th Scientific Meeting and Exhibition, Sydney, Australia, 3*, 1514.
- Melzer, P., Morgan, L., Pickens, D.R., Price, R.R., & Wall, R.S. (1998). Cerebral activation during reading nouns and test in Braille: A fMRI study. *Radiology*, 209(P), 243.
- Pickens, D.R., Price, R.R., Morgan, L., Holburn, G.E., Parks, M.H., & Martin, P. (1998). Long term repeatability of cerebellar fMRI correlated with an independently monitored motor task. *Radiology*, 209(P), 245.
- Morgan, V.L., Price, R.R., Holburn, G.E., Butler, M., Pickens, D.R., & Partain, C.L. (1998). Functional MRI of the human olfactory cortex. *Radiology*, 209(P), 276.
- Pickens, D.R., Price, R.R., Mertz, H., Morgan, V.L., & Tanner, G. (1998). Bowel pain response in Irritable Bowel Syndrome patients using fMRI. *Radiology*, 209(P), 276.
- Riddle, W.R. & Price, R.R. (1998). Quantifying visceral and subcutaneous fat with MR imaging. *Radiology*, 209, 582.
- Parks, M.H., Morgan, V.L., Pickens, D.R., Price, R.R., Schlack, H.M., & Martin, P.R. (1999). Cerebellar fMRI studies of alcohol-induced brain injury. *Proceedings of the ISMRM*, 2, 832.
- Morgan, V.L., Mertz, H., Pickens, D.R., Price, R.R., Tanner, W.G. & Kessler, R. Study of Irritable Bowel Syndrome using function MRI. *Proceedings of the ISMRM*, 2, 824.
- Lee, H., Keel, A., Holburn, G., Martin, P.R., & Price, R. (1999). In-vivo and in-vitro NMR spectroscopic studies of thiamine deficient rat brains. *Proceedings of the ISMRM*, 3, 1482.
- Pickens, D.R., Lee, H., Holburn, G., Price, R.R. (in review). Comparison of Diffusion Weighted Imaging of Stroke with Microsphere Tracer Measurements of Perfusion.
- Price, R.R., Pickens, D.R., Morgan, V.L., Fitzpatrick, J.M., Dawant, B., Brill, A.B. (1999). Online Position Tracking for fMRI Motion Correction *Radiology, Annual Meeting of Radiology*, 213,233
- Grossman, E.D., Donnelly, M., Price R., Morgan, V., Pickens, D., Neighbor G., Blake, R. (in press). Brain Areas Involved in Perception of Biological Motion. *Journal of Cognitive Neuroscience*.
- Pickens, D.R., Price, R.R., Bruno, M.A., Partain, L. (1999). Clinical and Physical Evaluation of an Amorphous Silicon X-Ray Imaging System Suitable for Extremity Imaging, *Radiology*, 213 (P); 503.

C. Research Support

Ongoing Support

CA 98013 - Coffey (PI)

09/25/99 - 09/24/04

NIH

Mouse Cancer Models Via TGF-Beta T-11 Loss

To develop mouse models of three common cancers by organ-selective reduction or elimination of TGF- β RII. Also plan to develop a mouse model of ductular pancreatic carcinoma, as well as a strategy to identify modifier genes to nutritional aspects of colorectal cancer.

Role: Investigator

Completed Support

DK99004 - Mertz (PI)

09/30/99 - 09/29/01

NIH

Regional Cerebral Activation with Visceral Pain in IBS Controls

This proposal will compare the activity of the limbic system in IBS and controls in response to graded rectal distention (non-painful and painful). Understanding the function of the limbic and non-limbic pain centers in healthy and disease states and the effect of stress and medication on the pain experience may lead to improved therapies for pain.

Role: Investigator

R01MH60898 - Kessle (PI)

01/01/00 - 12/31/02

NIH

Occupancy of Extrastriatal D2 Receptor by Clozapine

To evaluate as to whether clozapine as compared to haloperidol selectively occupies extrastriatal dopamine D2 receptors and whether regional occupancy of D2 receptors can be related to antipsychotic effects.

Role: Investigator