Houston, 01/04/06

Curriculum Vitae

name	Kurt Hermann Josef Bockhorst
place of birth	Münster, Germany
marital status	Single
nationality	German
profession	Chemist
languages	German, English, (Spanish, French)
present working place	Diagnostic and Interventional Imaging, MRI Research Group (Dr. Narayana), University of Texas at Houston
present project	Spinal cord injury, ischemic injury in neonates by hypoxia

05/17/72	final high school exam ('Abitur')
10/72 to 06/74	Airforce
1975 to 1977	University of Dortmund, Germany
1977 to 1988	University of Aachen (RWTH), Germany
04/30/88	MS in Chemistry ('Diplom')
06/88 to 06/1994	Max-Planck-Institute for Neurological Research, Cologne, Germany
03/06/94	PhD ('Dr.rer.nat')
05/12/94	First prize for the development of novel contrast agents awarded by the German Radiological Society, Wiesbaden
06/94 to 05/97	Radiological Sciences, University of California at Los Angeles, USA
08/98 to 01/99	Herchel Smith Laboratory, Medicinal Chemistry, University of Cambridge, UK
02/99 to 12/02	Institute for Organic Chemistry, University of Bremen, Germany
since 09/04	Diagnostic and Interventional Imaging, University of Texas at Houston, USA

Skills

Programming: Interactive Data Language (IDL)

Operating systems: Linux, Unix, MacOS X, Windows (95, XP)

Software: Microsoft Office, Open Office, GraphicConverter, Appleworks, ImageJ, EvIdent, StatView, BioMap

MRI scanner control software: Bruker's Tomikon and Paravision (versions 1 and 3), GE's Signa, Siemens' Vision.

Animal experiments: mice, rats, cats, monkeys

International experience: Germany (1987-1994), California (1994-1997), England (1997 to 1999), Germany (1999 to 2002), Texas (since 2004)

Hobbies

Telemark skiing, Nordic-track skiing, hiking, mountain climbing, cooking, painting, globe-trekking, snorkeling, bicycling

Publications

81 (including journals, abstracts and thesis)
22 listed in PubMed (National Library of Medicine)

Journals

As first author:

Bockhorst KH, Ramu J, Mogatadakala KV, Liu S-J, Narayana PA
Spatial Normalization of Rodent Brains for fMRI Analysis
ISMRM, submitted 2005

Bockhorst K, Meier M, Busch E, Dreher W, Leibfritz D.
Activation of the hippocampus with and without theta rhythm studied with perfusion weighted fMRI.
Proc Intl Soc Magn Reson Med, 349 2002 (ISMRM Honolulu).

Bockhorst K, Meier M, Busch E, Dreher W, Roth G, Leibfritz D.
Activation of the Hippocampus during Theta Rhythm: An fMRI Study
J Cereb Blood Flow Metab 21, S510, 2001, (brain01 Taipeh).

Bockhorst KH, Smith JM, Smith MI, Bradley DP, Houston GC, Carpenter TA, Hall LD, Papadakis NG, Parsons AA, Huang CL, James MF.
A quantitative analysis of cortical spreading depression events in the feline brain characterized with diffusion-weighted MRI.
J Magn Reson Imaging. 2000 Nov;12(5):722-33.

Bockhorst K, Hoehn-Berlage M.
An Optimized Synthesis of Manganese Meso-Tetra(4-sulfonatophenyl)porphine: A Tumor-Selective MRI Contrast Agent.
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Bockhorst K, Els T, Kohno K, Hoehn-Berlage M.
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Acta Neurochir Suppl (Wien). 1994;60:347-9.

Bockhorst K, Els T, Hoehn-Berlage M.
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Gadolinium(III)-TPPS: A Novel MR Contrast Agent for Selective Enhancement of Experimental Rat Brain Tumors.
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Bockhorst K, Hoehn-Berlage M, Ernestus RI, Tolxdorf T, Hossmann KA.
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Bockhorst K, Hohn-Berlage M, Kocher M, Hossmann KA.
Proton relaxation enhancement in experimental brain tumors--in vivo NMR study of manganese(III)TPPS in rat brain gliomas.
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Acta Neurochir Suppl (Wien). 1990;51:134-6.

as co-author:

Ghaghada KB, Bockhorst KH, Mukundan S, Narayana PA, Annapragada AV
Contrast-Enhanced High Resolution MR Angiography of the Rat Spinal Region
ISMRM, submitted 2005

Wosik J, Nesteruk K, Kamel M, Xue L, Xie L-M, Bockhorst KH, Narayana PA
Four-element 300 MHz Superconducting Array for Parallel Imaging
ISMRM, submitted 2005

Ramu J, Bockhorst KH, Mogatadakala KV, Grill RJ, Narayana PA
Functional Magnetic Resonance Imaging (fMRI) of Neurotrohin-3 (NT3) treated Spinal Cord Injured Rats
ISMRM, submitted 2005

Ramu J, Bockhorst KH, Mogatadakala KV, Narayana PA
Functional Magnetic Resonance Imaging of Experimental Spinal Cord Injury
Neuroimage, submitted 2005.

Ghaghada K, Bockhorst K, Mukundan S, Annapragada A, Narayana P
High Resolution Vascular Imaging of the Rat Spine using Liposomal Blood Pool MR Agent
Radiology, submitted 2005.

Busch E, Bockhorst K, Meier M, Roth G, Leibfritz D, Dreher D
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J Cereb Blood Flow Metab 21, S 84 (2001, Brain 01, Taipei).

Dreher W, E. Busch, K. Bockhorst, M. Meier, D. Leibfritz.
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Smith JM, James MF, Bockhorst KH, Smith MI, Bradley DP, Papadakis NG, Carpenter TA, Parsons AA, Leslie RA, Hall LD, Huang CL.
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James MF, Smith MI, Bockhorst KH, Hall LD, Houston GC, Papadakis NG, Smith JM, Williams AJ, Xing D, Parsons AA, Huang CL, Carpenter TA.
Cortical spreading depression in the gyrencephalic feline brain studied by magnetic resonance imaging.
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Smith JM, Bockhorst KHJ, James MF, Smith MI, Huang CL-H , Houston GC,Xing D, Williams EJ, Papadakis N, Parsons AA, Hall LD, CarpenterTA
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J Cereb Blood Flow Metab 19, S 693 (1999).

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Smith, M.I., James, M.F., Bockhorst, K.H., Hall, L.D., Houston, G.C., Huang, C.L., Papdakis, N., Smith, M.J., Williams, E.J., Xing, D., Parsons, A.A., Carpenter, T.A. (1998). Cortical spreading depression (CSD) in the cat visualized with magnetic resonance imaging (MRI). Cephalalgia, 18, 400.(1998).

Lazareff JA, Bockhorst KH, Curran J, Olmstead C, Alger JR.
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Fischer M, Bockhorst K, Hoehn-Berlage M, Schmitz B, Hossmann KA.
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Hossmann KA, Fischer M, Bockhorst K, Hoehn-Berlage M.
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Wilmes LJ, Hoehn-Berlage M, Els T, Bockhorst K, Eis M, Bonnekoh P, Hossmann KA.
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Kloiber O, Bockhorst K, Hoehn-Berlage M, Hossmann KA.
Effect of hypoxia on bicuculline seizures of rat: NMR spectroscopy and bioluminescence imaging.

NMR Biomed. 1993 Sep-Oct;6(5):333-8.

Hoehn-Berlage M, Tolxdorff T, Bockhorst K, Okada Y, Ernestus RI.
In vivo NMR T2 relaxation of experimental brain tumors in the cat: a multiparameter tissue characterization.
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Hoehn-Berlage M, Norris D, Bockhorst K, Ernestus RI, Kloiber O, Bonnekoh P, Leibfritz D, Hossmann KA.
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as first author:

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Typical Localized MRS Volume Prescriptions in Pediatric Low Grade Astrocytomas do not Reflect Topographic Heterogeneity Identifiable with MRSI
Annual Meeting of the Society of Magnetic Resonance. Vancouver, Canada(1997), Book of Abstracts 1127.

Bockhorst KHJ, Lazareff JA, Mischel P, Alger JR.
Cell Proliferation and 1H-MRSI of Low Grade Astrocytomas.
Annual Meeting of the Society of Magnetic Resonance. New York, USA(1996), Book of Abstracts, 981.

Bockhorst KHJ, Lazareff JA, Curran J, Alger JR.
MRSI of Pilocytic Astrocytomas: Evaluation of Metabolic Pattern.
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Bockhorst K, Schmitz B, Fischer M, Hoehn -Berlage M, Hossmann K-A.
ADC during Cardiac Arrest and Resuscitation in Cats.
Annual Meeting of the Society of Magnetic Resonance, San Francisco,USA (1994), Book of Abstracts, 441 oral presentation.

Bockhorst K, Hoehn -Berlage M, Kocher M, Hossmann K-A.
NMR Contrast Enhancement of Experimental Brain Tumors Through Manganese(III) tetraphenylporphine Sulfonate. Tissue Characterization with T2 Relaxation and Magnetization M(0).
Annual Meeting of the Society of Magnetic Resonance in Medicine, NewYork, USA (1990), Book of

Abstracts, 230, oral presentation.

Bockhorst K, Hoehn -Berlage M, Kocher M, Hossmann K-A.
NMR Contrast Enhancement of Experimental Brain Tumors. A Feasibility Study on MnTPPS.
European Congess of NMR in Medicine and Biology. Strasbourg, France(1990), Book of Abstracts, 53, oral presentation.

Bockhorst K, Höhn -Berlage M, Kocher M, Hossmann K-A.
NMR Contrast Enhancement for Experimental Brain Tumors. A Feasibility Study on MnTPPS
Bruker's User Meeting, Karlsruhe, Germany (1989).

as co-author:

Busch E, Bockhorst K, Meier M, Huege S, Roth G, Leibfritz D, Dreher W
Functional MRI of the rat motor cortex using passive forepaw movement.
SfN, 31 Meeting, 10-15 November 2001, San Diego, USA.

Busch E, Bockhorst K, Meier M, Leibfritz D, Dreher W
Passive movement for functional MRI of the rat motor cortex.
DGN, 75. Kongress, 25-29 September 2002, Mannheim, Deutschland.

Dreher W, E. Busch, K. Bockhorst, M. Meier, D. Leibfritz
Single-shot Multislice U-FLARE imaging. Application to functional MRI
Proc. Intl Soc Mag Reson Med 9, 1220, (2001).

Carpenter TA, Bockhorst KHJB, C.S.Bunch CS, G.C.Houston GC, J.M. SmithJM.
A Recipe for Making Active Surface Coils from Readily Available Ingredients
Bruker User Meeting October 1998, Karlsruhe, Germany (abstract).

Smith MI, James MF, Bockhorst KHJ, Hall LD, Houston GC, Huang CLH, PapadakisN, Smith JM, Williams EJ, Xing D, Parsons AA, Carpenter TA.,
Cortical Spreading Depression (CSD) in the Cat Visualised with MagneticResonance Imaging (MRI)
Migraine International Symposium, London, UK (1998).

Harper RM, Bandler R, Alger JR, Bockhorst KHJ, Mintorovitch J, Woo M,Spriggs D.
Functional Magnetic Resonance Imaging during Blood Pressure Manipulation.
Society for Neurosience Washington DC, USA (1996).

Lazareff JA, Olmstead CE, O'Hanlon K, Abrajano J, Bockhorst KHJ, AlgerJR, Fisher RS, Peacock WJ.
Proton Magnetic Resonance Spectroscopic Imaging of Brain of ChildrenwithCNS Tumors.
Society for Neuroscience, Washington DC, USA (1996).

Fischer M, Schmitz B, Bockhorst K, Hossmann K-A.
NMR Imaging of the Apparent Diffusion Coefficient (ADC) after Resuscitation from 15 min Cardiac Arrest in Cats.
Annual Meeting of Resuscitation. Pittsburg, USA (1994).

Schmitz B, Fischer M, Bockhorst K, Hossmann K-A.
Effects of Standard and High Dose Epinephrine on Brain Recovery Following Resuscitation from Cardiac Arrest in Cats: An NMR Investigation.
European Academy of Anaesthesiology. Hamburg, Germany (1994).

Eis M, Hoehn -Berlage M, Bockhorst K, Hossmann K-A.
A Time Efficient Method for Combined T1/T2 Relaxation Time Measurements.Evaluation for Multi-Parameter Tissue Characterization.

Annual Meeting of the Society of Magnetic Resonance in Medicine, SanFrancisco, USA (1991), Book of Abstracts, 701.

Ernestus R-I, Hoehn -Berlage M, Bockhorst K, Kloiber O, Bonnekoh P, HossmannK-A.
Differenzierung zwischen Hirntumoren und peritumoralem Ödem durchdas tumorspezifische NMR-Kontrastmittel MnTPPS.
42. Jahrestagung der Gesellschaft für Neurochirurgie, Bremen,Germany (1991).

Ernestus R-I, Hoehn -Berlage M, Bockhorst K, Kloiber O, Wilmes L, BonnekohP, Hossmann K-A.
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Second Congress of the Paneuropean Society of Neurology. Wien, Austria(1991).

Hoehn -Berlage M, Bockhorst K, Wilmes L, GyngellM, Ernestus R-I, KloiberO, Eis M, Hossmann K-A, Frahm J.
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Jahrestagung der deutschen Gesellschaft für Biophysik. Homburg/Saar, Germany (1991).

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Annual Meeting of the Society of Magnetic Resonance in Medicine. SanFrancisco, USA (1991) Book of Abstracts, 929.

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Annual Meeting of the Society of Magnetic Resonance in Medicine. SanFrancisco, USA (1991), Book of Abstracts, 438.

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Differentiation of Tumor and Edema in Experimental Tumors of the Cat Brain. Application of Tumor-Specific NMR Contrast Agent Manganese(III)Tetra Phenylporphine Sulfonate.
Annual Meeting of the Society of Magnetic Resonance in Medicine. NewYork, USA (1990), Book of Abstracts, 640.

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T1 Snapshot FLASH Measurements of Rat Brain Glioma: Influx of the Tumorspecific Contrast Agent MnTPPS.
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Thesis

Bockhorst K.
Metallporphyrin-Derivate als NMR-Kontrastmittel: Charakterisierungexperimenteller Hirntumoren mittels NMR-Relaxometrie .
Ph.D. (Dr. rer. nat.), Max-Planck-Institut für Neurologische Forschung, Köln und RWTH, Aachen (1992).

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Chemistry MS, RWTH Aachen (1988).