

## CURRICULUM VITAE

NAME & ADDRESS: **Michael A. Ibrahim, M.D., Ph.D.**  
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CITIZENSHIP: United States of America

**Objective: Faculty position for teaching and research in the field of neurological diseases & neuroscience, biophysics, pharmacokinetics & mathematical modeling of transport phenomenon in bio-medicine utilizing MR & PET Imaging modalities.**

### EDUCATION:

Institution	Degree	Year	Field
Cumberland College, Williamsburg, KY	B.S.	1978	Biology & Chemistry Minor Mathematics
University of California, Davis, CA	M.S.	1982	Physical Chemistry
Medical College of Ohio, Toledo, OH	---	1983-85	Medical Physics
Medical College of Wisconsin, Milwaukee, WI	---	1987-90	M.D. (1st & 2 <sup>nd</sup> Yr.)
Medical College of Wisconsin, Milwaukee, WI	Ph.D.	Aug. '94	Dissertation Defense
Medical College of Wisconsin, Milwaukee, WI	Ph.D.	06/90- 01/95	Biophysics
Med. University of the Americas, Nevis, West Indies	M.D.	02/00- 12/02	Medicine(3rd & 4 <sup>th</sup> Yr)
Med. University of the Americas, Nevis, West Indies	M.D.	05/2003	Medicine

### EXPERIENCE:

1998-Present Learning Facilitator Leader (Part-Time), CAHMCP, Illinois Inst. Tech., Chicago, IL

1996-1998 Post-Doctoral Fellowship, University of California, Irvine, CA

1995-1996 Learning Facilitator Leader (Part-Time), CAHMCP, Illinois Inst. Tech., Chicago, IL

1990-1994 Graduate&Research Assistantship, Biophysics Program, Med. Col. of Wisc., Milwaukee, WI

1983-1985 Research Assistantship & 2 Years, Graduate School Courses in Medical Physics, Medical Physics, Medical College of Ohio, Toledo, OH

- 1982            Research Assistantship, Chemistry Department, University of California, Davis, CA  
1978-1982    Teaching Assistantship, Chemistry Department, University of California, Davis, CA

**Radiation Oncology & Radiation Physics Experience:**

- Nov-Dec. 2001 - Radiation Oncology 4<sup>th</sup>- Year Clinical Clerkship at  
Dept. of Radiation Oncology, Duke University Hospital, Durham, NC.
- Summer 1990 - Radiation Oncology Clinical/Research Internship,  
Dept. of Radiation Therapy, Medical College of Wisconsin, Milwaukee, WI.
- 1983/85 - Medical/Radiation Physics Graduate Courses & Labs with Dr. Joe P. Windham  
Radiation Physics Section, Medical College of Ohio, Toledo, OH.

**Teaching Experience:**

- 1998- Present: Volunteer Instructor(Learning Facilitator Leader), Chicago Area Health & Medical Careers Program(CAHMCP, a minority students support program), Ill. Inst. Tech., Chicago, IL. Teaching review & extra sessions of Biochem., Pharm., Physiol., & Path. for medical students. Teaching review sessions for nursing students and other health science students.
- 1996-1998: Post-doctoral Fellow, Inst. for Brain Aging & Dementia,  
Univ. of California, Irvine, CA. Teaching Asst. for graduate level course in Neurochem.  
Prepared and graded examination questions, taught review & extra sessions for students.
- 1995- 1996: Volunteer Instructor(Learning Facilitator Leader), Chicago Area Health & Medical Careers Program(CAHMCP, a minority students support program), Ill. Inst. Tech., Chicago, IL.  
Taught review & extra sessions of Biochem., Pharm., Physiol., & Path. for medical students.  
Taught review sessions for Nursing students and other health science students.
- 1978-1982: Teaching Asst., Dept. of Chem., University of California, Davis, CA.  
Taught lab. & review sessions for Freshman Chem. & Quant. Analytical Chem. Taught review sessions of “Physical Chem. for Life Science”. Graded examinations and lab. reports.

**Research Interests:** Application of mathematical and pharmacokinetics modeling in conjunction with PET & MR Imaging modalities to the study of nuclear medicine radiotracers & MRI contrast agent's transport into human and animals tissues and organs in-vivo, such as the intervertebral discs, brain and muscle.

**Publications:**

1. **Ibrahim, M.A.**, Jesmanowicz, A., Hyde, J.S., Estkowski, L. and Haughton, V.M. Contrast Enhancement in Normal Intervertebral Discs: Time Course and Dose Dependence, **AJNR**, **15**:419-423, 1994.
2. **Ibrahim, M.A.**, Haughton, V.M. and Hyde, J.S. Enhancement of Normal Intervertebral Discs With Gadolinium Complexes: Comparison of Ionic and a Non-Ionic Medium in an Animal Model. **AJNR 15(10)**:1907-1910, 1994.

3. **Ibrahim, M.A.**, Haughton, V.M. and Hyde, J.S. Effect of Disc Maturation on Diffusion of Low-Molecular Weight Gadolinium-Complexes: An Experimental Study in Rabbits. **AJNR 16(6)**:1307-1311, 1995.
4. **Ibrahim, M.A.**, Emerson, J.F., and Cotman, C.W. MRI Relaxation Times and Gd-DTPA Relaxivity Values in Human CSF. **Investigative Radiology 33(3)**: 153-162, 1998.
5. Azizeh, B.Y., Head, E., **Ibrahim, M.A.**, et al. Molecular Dating of Senile Plaques in the Brains of Individuals with Down Syndrome and in Aged Dogs. **Experimental Neurology 163**: 111-122, 2000.

**Presentations:**

1. **Ibrahim, M.A.**, Hyde, J.S., Kneeland, J.B., Brennan, M.J. Magnetic Resonance Imaging Investigation of Non-Union of Fractures. Thirty -First Annual Meeting, National Student Research Forum, April 19-21, 1990, Galveston, TX.
2. **Ibrahim, M.A.**, Hyde, J.S., Kneeland, J.B., Brennan, M.J. Magnetic Resonance Imaging Investigation of Non-Union of Fractures. Ninth Annual Meeting, Society of Magnetic Resonance in Medicine, August 18-24, 1990, New York, NY.
3. **Ibrahim, M.A.**, Jesmanowicz, A., Haughton, V.M. and Hyde, J.S. Signal Enhancement in the Rabbit Intervertebral Disk as a function of Gd-DTPA Dose. Tenth Annual Meeting, Society of Magnetic Resonance in Medicine, August 10-16, 1991, San Francisco, CA.
4. Hyde, J.S., **Ibrahim, M.A.**, Wong, E.C. and Jesmanowicz, A. Small Animal Imaging in a Local Gradient Coil with a Quadrature Surface Coil and a Space-Efficient Transmit Coil. Eleventh Annual Meeting, Society of Magnetic Resonance in Medicine, August 8-14, 1992, Berlin, Germany.
5. Azizeh BY, Head E, **Ibrahim, M.A.**, Laferla FM, and Cotman, CW. A Newly Designed Antibody to Racemized Aspartate for Dating  $\beta$ -Amyloid Deposits. 28<sup>th</sup> Annual Meeting, Society for Neuroscience, November 7-12, 1998, Los Angeles, California.

**Awards and Honors:**

- 1974-1975 Dean's Honor List, Central State University, Wilberforce, OH  
 1974-1975 Certificate of Achievements, Central State University, Wilberforce, OH  
 1975-1978 Dean's Honor List, Cumberland College, Williamsburg, KY  
 1977-1978 Dr. J.T. Vallandingham Honor, Cumberland College, Williamsburg, KY  
 1992-1994 NIH Research Supplementary Grant Award (RO1-AR33667-O5A3S1)  
 1996-1998 NIH Training Grant (NIA T32AG-0096)

**Professional Memberships:**

- 1978-1982 American Chemical Society  
 1990-Present Society of Magnetic Resonance in Medicine  
 1991-Present Society of Magnetic Resonance Imaging  
 1991-Present American Association of Physicist in Medicine

**Michael A. Ibrahim, M.D., Ph.D.**

## REFERENCES

Carl W. Cotman, Ph.D.  
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Institute for Brain Aging & Dementia  
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