

CURRICULUM VITAE

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DATE OF BIRTH: 21-03-1961

1- Biography:

In 1984 I was graduated from Iran University of Medical Sciences in Radiology Technology. The Year after I left to London for the higher educations. I received my MSc in Medical physics from University of Surrey in 1986, and PhD in the same subject but in the field of Medical Imaging from the University College of London (UCL) in 1993.

After the graduation, in return from abroad, I started my collaboration with Tehran University of Medical Sciences (TUMS), involved in establishing the Research Center for Sciences and Technology in Medicine (RCSTIM) under administration of Ministry of Health, Treatment, and Education (MOH) in Iran. I spent few years as Directing manager and the deputy director of the research center, also worked as the director of the Informatics council in the University. I served as the advisor in Medical equipments in MOH from 1997 till 2001, when I was working as the Managing Director of Medical Product Distribution Company belongs to MOH. I was elected as the president of Iranian Association of Medical Physicists (IAMP) from 1995 to 2005. I have been appointed as the head of Medical Physics and Biomedical Engineering Department in TUMS, since 2005 for 2 years, where I am lecturing and guiding a number of MSc and PhD students. Nowadays, I am mainly involved in managing scientific research projects in the field of Neuroimaging (especially fMRI), Cancer Imaging (especially Tumor specific imaging), Cell Imaging, and Biomarker development and Imaging in RCSTIM (in Emam Hospital in TUMS).

2- EDUCATION:

Dates: _____ **School/College:** _____ **Subject taken:** _____

1988-1993 University College London Medical Physics Dept. PhD in Medical Physics
Gower St, London

1986-1987 University of Surrey, Medical Physics Dept. MSc in Medical
Physics
Guildford, UK, GU2 5XH

1979-1984 Iran University of Medical Sciences
Tehran BSc in
Radiology technology

3-POSITIONS:

Academic Member:

Tehran Univ. of Medical sciences
(Associate Professor, **Member of Scientific Board**)

Project Management:

Research Center for Sciences & Technology in Medicine
(**Head of Molecular Imaging Group**)

Scientific Member:

IEEE, EMBS, IOMP, IAMP

4- Experiences and Employment History:

Dates:	Employers:	Position Held:
1983-1984	Private Hospital, Tehran	Head of X-ray Department
1984-1986	Iran University of Medical Sciences	Physicist & Head of Dept
1993-	Tehran University of Medical Sciences	Academic member
1994-2004	Research Center for Sci and Tech in Med	Deputy Manager
1995-2005	Iranian Association of Medical Physicists	President
1998-2002	Ministry of Health	Advisor on Medical Equip.

5- Teaching Experiences:

Lectures series in:
Medical Imaging Principals (MSc Students of Medical Physics)
Medical Imaging systems (MSc Students of Biomedical Engineering)
Medical Imaging (PhD Students of Medical Physics)
Medical Physics (MD Students)
Radiology equipments: maintenance and repair principals
(BSc Students of Radiology Technology)
Neuro-Imaging Analysis (for PhD of Biomedical Engineering)

6- Research Interests:

Functional MR (Language & Memory, Lie Detection, Addiction)
Cancer Imaging: Using Nano-particle based tumor specific imaging
Biomarker Development and Imaging

7- Most recent Conferences and Presentations:

C.13- Effect of MR Protocols on Detectability of Ultra-small Superparamagnetic Iron Oxide Nanoparticles (USPIO).

Oghabian M A , Guiti M, Haddad P, Ghareaghaji N, Malekpour M, Haddad P, Saber R, N -Alam, Rafie B,
6th Int. Conference, Scientific and Clinical Application of Magnetic Carriers, 17-20 May 2006, Krems, Austria

C.14- Optimization of Functional Magnetic Resonance Imaging (fMRI) protocol for determination of language critical areas in human cerebral cortex.

Mohammad Ali Oghabian, Ali Akbar Mahdavi, Hosein Ghanaati, Hooshang Saberi, Ahmad Lavasani
13th Int. Iranian Congress of Neurology and Clinical Electrophysiology, 5-8 June 2006

C.15- A Review of Tumor Specific Imaging Methods: A Glance Using Molecular Imaging.

Oghabian M A, 21st Iranian Conference of Radiology (ICR 21), 17-20 Jan 2006 (27-30 Day 1384), Razi Conventional hall

C.16- Spatial Frequency Modulates the Human Visual Cortical Response to Temporal Frequency Variation: An fMRI Study.

Mirzajani A, Oghabian M A, Riahi-Alam N, H. Saberi, K. Firouznia, M. Bakhtiary
28th Annual Int Conference of IEEE Engineering in Medicine and Biology Society, EMBC2006, 30 Aug-3 Sep 2006, New York City, USA

C.17- Platelet-based MPLE Denoising of SPECT Images: Phantom and Patient Study,

N Riahi-Alam, N Alibabaei, A Takavar, M Sohrabi, A Fard-Esfahani, M A Oghabian, M Bakhtiari
28th Annual Int Conference of IEEE Engineering in Medicine and Biology Society, EMBC2006, 30 Aug-3 Sep 2006, New York City, USA

C.18- Detection Sensivity of MRI Using Ultrasmall Super Paramagnetic Iron Oxide (USPIO) in Biological Tissues.

M A Oghabian, M Guiti, P Haddad, N Ghareaghaji, R Saber, N Riahi-Alam, M Malekpour, B Rafie
28th Annual Int Conference of IEEE Engineering in Medicine and Biology Society, EMBC2006, 30 Aug-3 Sep 2006, New York City, USA

C.19- MR Relaxivity Measurement in Rat Tissue After Administration of Iron Oxide Based Nano Particles.

Oghabian M A, Bakhtiari M, Malekpour M, Amanpour S, Arab-Kharadmand A, Mohagheghi M A, Ghana-ati H, Sarkar S, Yarandi S
Int. Conference on Bio-Nanotechnology (ICBN2006), Nov 18-21 2006, Al-Ain, UAE

C.20- Synthesis and Characterization of Fe_{3-x}Zn_xO₄ (x=0.0 and 0.2) Nanoparticles for Medical

Application, Beitollahi, Jafari-Cham Kavi S, Oghabian M A, Sarkar S
Int. Conference on Bio-Nanotechnology (ICBN2006), Nov 18-21 2006, Al-Ain, UAE

C.21- Bone Mineral Density Measurement Using MRI Relaxometry, M Bakhtiari, N Ryiahi-Alam, M A

Oghabian, A Ghasemzadeh, H GHanaati H, B Larijani , Z Hamidy-Abarghouie, N Shakery

1st Human, Life, Radiation Int. Conference, Rafsabjan University of Medical Sciences, 29-31 Oct 2006

C.22- The Application of Scatter Imaging Technique in Tissue Characterization.

Oghabian M A, 1st Human, Life, Radiation Int. Conference, Rafsabjan University of Medical Sciences, 29-31 Oct 2006

C.23- Functional Imaging of Motor Speech Area, The role of Employed Tasks and Analysis Threshold.

M A Oghabian, A A Mahdavi, A Rezvanizadeh, A Lavasani

12th Annual Meeting of Human Brain Mapping, HBM, 11-15 June 2006, Florence, Italy

C.24- Optimization of functional Magnetic Resonance Imaging (fMRI) protocol for determination of language critical area in human cerebral cortex.

A A Mahdavi, M A Oghabian, A Lavasani, A Rezvanizadeh,

12th Annual Meeting of Human Brain Mapping, HBM, 11-15 June 2006, Florence, Italy

C.25- Phantom study on the feasible and reproducible use digitally reconstructed radiograph (DRR) for verification on Brach therapy treatment plans.

Oghabian M,A. Jaberi R., Riazi R. 4th Cong of Iran Radiological Science Association, 18 Jan 2007

C.28- Spatial Frequency Modulates the Human Visual Cortical Response to Temporal Frequency Variation: An fMRI Study.

Mirzajani A, Riahi Alam N, Oghabian M A

The international society for optical engineering, SPIE, 11-16 February 2006- San Diego, California USA

C.29- Subjective Classification of drug Craving Cues Responses: Comparison of fMRI finding to self report study.

A Behzadi, H Ekhtiari, A Mokri, H Edalati, M A Oghabian

European Psychiatry, Volume 22, Supplement 1, March 2007, Pages S183-S184

C.30- Diffusion Tensor Digital Phantom for Crossing Fibbers Detection.

Mohammad Ali Oghabian . Fahime dargi. Alireza Ahmadian, Hamid Soltanian Zadeh, Mojtaba Zarei.

4th Conference of Machine Vision and Image Processing, 14-15 Feb 2007, MVIP2007,

C.31- Nonresponding heroin addicts to drug-related cues show similar fMRI activations as normal subjects in their brains.

Mohammad Ali Oghabian, Hamed Ekhtiari, Arian Behzadi, Azarakhsh Mokri,
13th Conference of HBM (The Organization of Human Brain Mapping), HBM2007, June
12-15, Chicago, US

C.32- Modified Fast Marching Tractography Algorithm and Its Ability to Detect Fibre Crossing.

F Darki, M A Oghabian, A Ahmadian, H Soltanian Zadeh, M Zarei, A Boroomand,
29th Annual International Conf of the IEEE EMBS, Proceeding 319-322, Aug 23-26,
2007, Lyon, France

C.33-Prognostic Value of Brain Tissue Pathological Changes in Patients with Clinically Isolated Syndromes (CIS) Suggestive of Multiple Sclerosis Using Magnetic Transfer Ratio (MTR).

M Fooladi, N Riyahi alam, M H Harrirchyan, K Firuznia, M A Oghabian, M Shakiba, B Rafie, M Bakhtiary
29th Annual International Conf of the IEEE EMBS, Proceeding 319-322, Aug 23-26,
2007, Lyon, France

C.34- MRI Relaxometry BMD Measurements Using Conventional Phase Symmetrized Rapid Increased Flip Spin Echo and Standard Gradient Echo and Its Correlation with DXA

M Bakhtiary, N Riyahi-Alami, M Oghabian, A Ghasemzadeh, H Ghanaati, S Sarkar
SU-FF-I-66, Medical Physics Vol. 33. No 6, June 2006

C.35- The Assessment of Structural variations of Multiple Sclerosis Plaques in Clinically Isolated Syndrome (CIS) Using Magnetization (MTI) Parameters

N Riyahi-Alam, M Fooladi, M Harirchian, K Firuznia, M Oghabian, B Rafee, M Shakiba
49 th Annual Meeting July 22-26, 2007 Minneapolis Convention Center Minneapolis,
Minnesota

C.36- Prognostic Value of Brain Tissue Pathological Changes in Patients with Multiple Sclerosis Using Magnetization Transfer Parameters

M Fooladi, N Riyahi alam, M H Harrirchyan, K Firuznia, M A Oghabian, B Rafie, M Bakhtiary
Proceedings of the 4th IEEE EMBS International Summer School and Symposium on
Medical Devices and Biosensors (ISSS-MDBS) August 19-22 2007

C.37- MRI Sensitivity for Detection of Lymph Node Tissue in the Rats Using Ultrasmall Super Paramagnetic Iron Oxide (USPIO)

Oghabian M.A., Amirmohseni S., Guiti M., Amanpour S., Haddad P., Mohagheghi M.A.,
Beitollahi A.,
Zolfaghari A., Rezayat S.M., 18th Conf of Physiology & Pharmacology, Mashad,
Shahrivar 1386 - مشهد 1386 شهریور 4-8 هجدهمین کنفرانس فیزیولوژی و فارماکولوژی ایران 1386

C.38- Study of Effective Parameters on Image Quality by Using USPIO Nanoparticles in MR Lymphography

Oghabian, M.A., Gharehaghaji, N., Sarbolouki, M.N., Zolfaghari, A.R., Faridi Majidi, R., Rafie, B., Amirmohseni, S.

Iran's 1st International Conference on Biomaterials November 12-15, 2007, Biomaterials Research Center (BRC) University of Tehran, Tehran, IR Iran

C.40- Comparison of Laterality Index of Upper and Lower Limb Movement, Using Brain Activated fMRI

Alireza Rezvanizadeh, M.D, Mohamad- Hossein Harirchian, M.D, Mohammad- Ali Oghabian, PhD, Niousha

Bolanzadeh, 4th International Conf of MS in Iran, Azar 1386

C.41- An Efficient Hybrid Wavelet-ICA Algorithm for Analyzing Simulated fMRI Data in Noisy Environment

A.Bromand, A ahmadian, Senior Member, IEEE, M. A. Oghabian, Member, IEEE, J. Alirezaie, Senior Member, IEEE, C. Beckman

ISSPIT, The 7th IEEE International Symposium on Signal Processing and Information Technology December 15-18, 2007, Cairo, Egypt

C₁.41- Assessment of reproducibility of Geometric Distortion in MRI based on phantom measurements

M. Ashkanmehr, Nader Riyahi-Alam, M. A. Oghabian, A. Ghasemzadeh, M. Bakhtiary, H. Ghanaati and M. Pakravan

IFMBE Proceedings, World Congress on Medical Physics and Biomedical Engineering 2006 August 27 – September 1, 2006 COEX Seoul, Korea “Imaging the Future Medicine”

C₂.41- Evaluation of Normal Brain Tissues using Magnetic Resonance Spectroscopy (MRS)

Oghabian M A , Amirmohseni S , Akhlaghpour S , Riahi-Alam N ' and Rafiei B

IFMBE Proceedings- World Congress on Medical Physics and Biomedical Engineering 2006 August 27 – September 1, 2006 COEX Seoul, Korea “Imaging the Future Medicine”

C₃.41- Optimization of visual tasks for detecting visual cortex activity in fMRI studies

Ali Mirzajani, N. Riyahi-Alam, M. A. Oghabian, M. Bakhtiary, H. Saberi and K. Firouznia

IFMBE Proceedings- World Congress on Medical Physics and Biomedical Engineering 2006 August 27 – September 1, 2006 COEX Seoul, Korea “Imaging the Future Medicine”

C.42- Optimization of Pulse Sequences in MRI Lymphography of Axillary Lymph Nodes by Using Magnetic Nanoparticles

Nahideh Gharehaghaji, Mohammad Ali Oghabian, Saeid Sarkar

2nd International Meeting on developments in Materials, Processes & Applications of Nanotechnology 6-8 January 2008, MPA, Cambridge University

C.43- Preparation of Nanocapsules via Emulsifier- Free Miniemulsion Polymerization

Reza Faridi- Majidi, Mohammad Barari, Naser Sharifi- Sanjani, Mohammad Madani and Mohammad Ali Oghabian

2nd International Meeting on developments in Materials, Processes & Applications of Nanotechnology 6-8 January 2008 MPA, Cambridge University

C.44- Comparison of Laterality Index of Upper and Lower Limb Movement, Using Brain Activated fMRI

Mohamad- Hossein Harirchian, Oghabian Mohammad- Ali, Rezvanizadeh Alireza, Bolandzadeh Niousha

SPIE Medical Imaging, Conference: 16-21 February 2008, San Diego, California USA

C.46- Size Evaluation of Lymph Node is Protocol Dependence in MRI Using Ultrasmall Superparamagnetic Iron Oxide Nanoparticles

N. Gharehaghaji, M.A. Oghabian, S. Sarkar, R. Faridi Majidi, H. Ghanaati, A.B. Beitollahi

7th International Conference Scientific and Clinical Applications Carriers May 21st - 24th, 2008, Vancouver, Canada

C.47- The Assessment of Pathological Changes of the Brain Tissue in Patients with Clinically Isolated Syndromes (CIS) Suggestive of Multiple Sclerosis Using Magnetization Transfer Imaging (MTI),

N. Riyahi Alam, M. Fooladi, A. Bozorgi, M. H. Harirchyan, K. Firuznia, M. A. Oghabian, M. Shakiba, B. Rafie, M. Bakhtiary, 8th Conf of Medcial Physics, 8-9 Khordad 1387

C.48- Extracting Consistent Activated Patterns of Open & Eyes Closed Resting State fMRI Data by Independent Component Analysis

Mohammad Ali Oghabian, Ameneh Boroumand, Hajir Sikaroodi, Ali Reza Ahmadian
14th Annual Meeting of the Organization of Human Brain Mapping, June 15-19, 2008, Melbourne, Australia

C.49- Cortical Adaptations in Patients with Clinically Isolated Syndrome; Perspectives for Predicting MS

Mohammad Ali Oghabian, Mohammad Hosain Harrirchian, Ali Reza Rezvanizadeh, Mohammad Fakhri, 14th

Annual Meeting of the Organization of Human Brain Mapping (HBM), June 15-19, 2008, Melbourne, Australia

C.50- Conjugation of antibodies to magnetic nanoparticales for detection and treatment of breast cancer

Shamsipour F, Zarnani A.M, chamankhah M, Ghods R, Javan M, Forozesh F, Bayat A.A, Oghabian M.A, Jeddi- Tehrani M

15th National & 3rd International Conference of Biology, 19-21 August 2008 University of Tehran, Tehran, Iran

C.51- Effect of MRI Protocols Detection of Lymph Node Size Using Ultrasmall Superparamagnetic Iron Oxide (USPIO) Nanoparticles.

N. Gharehaghaji, M.A. Oghabian, S. Sarkar¹, A. Beitollahi

3rd International Conference on Surfaces, Coatings and Nanostructured Materials, 21-24 October 2008, Barcelona, Spain

C.52- the Role of Molecular Imaging Methods: Tumor Specific Imaging Using Iron-Oxide Nanoparticle in MRI

2nd international student conference of biotechnology, 15-17 November 2008, university of Tehran.

C.53- Effects of short term methadone maintenance treatment on brain activation due to heroin cue induced craving.

H. Ekhtiari, H. Ganjgahi, A. Behzadi, A. Dezfuli, M. Oghabian, M. Aminikhoo, H. Safari, A. Mokri

Society for Neuroscience (SfN), Sessions 499-695, November 15-19, 2008, Washington, DC

C.54-The Effect of Aging on Brain Resting-State Activation Pattern, an fMRI Study- (poster)

Seyed Amir Hossein Batouli, Ameneh Boroomand, Mohammad Fakhri,(Dr.) Hajir Sikaroodi, (Dr.) Mohammad Ali Oghabian.

16th international congress of neurology and clinical electrophysiology of Iran, May 19-22, 2009- Olympic Hotel, Tehran

C.57- Audiovisual Integration in Healthy Persian Speakers: An fMRI Study of McGurk Effect

Y Nojaba, M.A. Oghabian, S Houshmand. Organization for Human Brain Mapping (HBM) 2009, Abstract Number: 1547

C.58- Removing Atrophy Effect from Brain Resting-State Activation Pattern to Better Diagnose Alzheimer's Disease, a Combined Functional and Structural Study,

S.A. Batouli, M.A. Oghabian, M. Noruzian, M.R. Aghamiri,

Organization for Human Brain Mapping (HBM) 2009 Annual Meeting ,NeuroImage, Volume 47, Supplement 1, July 2009, Page S112, Abstract Number: 1518

C.59- How physical and biological parameters affect detectability of Her2 positive tumors using Iron Oxide nanoparticle-based contrast agents in MRI

Oghabian M A, Khoei S, Jeddi-Tehrani M, Zolfaghari A, Shamsipour F, Amanpour S
3rd international meeting on developments in materials, MPA.2009, 21-23 July 2009, Geoffrey Manton Building (Manchester Metropolitan University), Oxford Road, Manchester, United Kingdom

C.60- Injectable , biodegradable poly (DL-Lactide-CO-glycolide) carboxyl terminated for cartilage tissue engineering: initial in vivo study

A. Solouk, H.Mirzadeh, S.Amanpour, F.Tirgari, M.Oghabian 9th international seminar on polymer science and technology, 17-21 October 2009

C.61- Obtaining Molecular Interference Functions of X-ray Coherent Scattering for Breast Tissues by Combination of Simulation and Experimental Methods

A.Chaparian, M.A. Oghabian and V. Changizi, World congress on Medical physics and biomedical engineering, September 7-12, 2009, Munich, Germany, IFMBE Proceedings Vol.25, pp.1736-1739

C.62- Accurate Activation Map Detection Using Bootstrap Resampling of Single Fmri Data

Fahimeh Darki, Mohammad Ali Oghabian

31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'09. 2 – 6 September 2009, Minneapolis Hilton Hotel in Minneapolis, Minnesota, USA.

C.63- Development of a suitable xenograft model for estrogen-dependant breast cancer

Amini, N.; Muhammad Nezhad, A.; Amanpour, S.; Oghabian, MA.; Khoee, S.; Zendedel, K. Mohagheghi, MA.; Tirigari, F.; Shokrgozar, MA.; Amanzadeh, A ; Dastpeyman M.;Farahbakhsh, N.;; Muhammad Nezhad, S.; Hamidipour, A. 16th international congress of Iranian society for reproductive medicine 3-5 March, 2010 –Shiraz -Iran

C.64- Evidence for establishment of androgen-dependent prostatic adenocarcinoma xenograft model in athymic nude mice

Muhammad Nezhad, S ; Amanpour, S.; Oghabian, MA ; Mohagheghi, MA.; Tirigari, F.; Shokrgozar, MA.; Amanzadeh, A.; Zendedel, K. ; Muhammad Nezhad, A.; Amini, N. Khatavi, F.

16th international congress of Iranian society for reproductive medicine 3-5 March, 2010 – Shiraz -Iran

C.65- Development of an interesting xenograft model for estrogen- and androgen-responsive ovarian carcinomas

Mazaheri Z.; Muhammad Nezhad, S ; Rustae, T.; Naghibzadeh GH.; Amanpour, S.; Oghabian, MA.; Khoee, S.; Tirigari, F.; Mohagheghi, MA.; Shokrgozar, MA.; Amanzadeh, A.; Zendedel, K.; Ramezanzadeh, F.; 16th international congress of Iranian society for reproductive medicine 3-5 March, 2010 –Shiraz –Iran

C.66- Reliable Activation Detection using Bootstrap Resampling of fMRI Data in GLM Analysis

Fahimeh Darki, Mohammad Ali Oghabian

16th Annual Meeting of the Organization for Human Brain Mapping, June 6-10, 2010 in Barcelona, Spain at the Catalonia Palace of Congresses. Poster No:983 WTh-AM

C.67- High Resolution Interpolated Diffusion Tensor Images Used in Tractography of Injured Spinal Cord

Fahimeh Darki, Mohammad Ali Oghabian, Hooshang Saberi, Marjan Masoumi
16th Annual Meeting of the Organization for Human Brain Mapping, June 6-10, 2010 in Barcelona, Spain at the Catalonia Palace of Congresses Poster No:868 WTh-PM

C.68- PO10-TU-18 Non-invasive brain mapping of motor related areas of four limbs in CIS patients compared with normal subjects

M.H. Harirchian, M.A. Oghabian, A. Rezvanzadeh, M. Fakhri, A. Ghoreishi, K. Firouznia

Journal of the Neurological Sciences, 19th world congress of neurology, Bangkok, Thailand, Oct 24-30 2009, *Volume* 285, Supplement 1, Page S200

C.69- Model-based and non-model-based study of eyes open and closed: A resting state fMRI study

M. Fakhri 1,2, A. Boroomand 2, H. Sikaroodi 3, M.A. Oghabian
Epilepsy & Behavior, Volume 17, Issue 4, April 2010, Page 610

C.70- In Vivo Magnetic Resonance Tracking of Transplanted Myoblasts Labeled with Magnetic Iron Oxide Nanoparticle in a Rabbit Model of Fecal Incontinence

Azadeh Elmi, A.M. Kajbafzadeh, Saman Shafaat Talab, Shadi Esfahani, Ali Tourchi, M.A. Oghabian, Saeede Khooi

Journal of Pediatric Urology, Volume 6, Supplement 1, April 2010, Page S28

C.71- IN VIVO MAGNETIC RESONANCE TRACKING OF TRANSPLANTED MYOBLASTS LABELED WITH MAGNETIC IRON OXIDE NANOPARTICLE IN A RABBIT MODEL OF FECAL INCONTINENCE, Abdol-Mohammad

Kajbafzadeh, Azadeh Elmi, Saman S Talab, Shadi A Esfahani, Ali Tourchi, Mohammad Oghabian, Saeede Khooi,

The Journal of Urology, Volume 183, Issue 4, Supplement 1, April 2010, Page e108

C.72- Brain Areas Involved in Cue Reactivity in Non Treatment Seeker Intravenous Heroin Dependents

Habib Ganjgahi, Hamed Ekhtiari, Arian Behzadi, MD, Azarakhsh Mokri, Mohammad Ali Oghabian

16th Annual Meeting of the Organization for Human Brain Mapping, June 6-10, 2010 in Barcelona, Spain at the Catalonia Palace of Congresses Poster No: 295 WTh-AM

C.73- Brain Activations and Different Dimensions of Drug Craving in Treatment Seeker Heroin Dependents

Hamed Ekhtiari, Habib Ganjgahi, Peyman Hasani-Abharian, Joseph Joseph Mc Clernon, Zahra Alam-Mehrjerdi, Hosein Tabatabaei, Azarakhsh Mokri, Mohammad Ali Oghabian

16th Annual Meeting of the Organization for Human Brain Mapping, June 6-10, 2010 in Barcelona, Spain at the Catalonia Palace of Congresses Poster No:289 WTh-AM

C.78-Xenograft model breast cancer Her-2+; method to increase accuracy in score & is also a good step for accurate diagnosis of patients need

Mohammadnejad A, Mohammadnejad S, Mazaheri Z, Kazemhaghighi M, Oghabian MA
Tirgari F, Amanpour S

C.79- Concurrent analysis of structural MRI and proteomics data using parallel ICA in Alzheimer's Disease

Habib Ganjgahi^{1,2}, Arash Nazeri^{3,4}, Tina Roostaei^{5,4}, Arman Eshaghi^{6,4}, Mohammad Ali Oghabian⁷

HBM 2011, 17th Annual Meeting of the Organization on Human Brain Mapping, June 26-30, 2011, Québec City, Canada

C.80-Could We Predict Treatment outcome among Heroin Dependents Based on Brain activities Due to Craving?

Hamed Ekhtiari¹, Habib Ganjgahi², Peyman Hassani- Abharian³, Zahra Alam-Mehrjerdi⁴, Mohammad Ali Oghabian⁵

HBM 2011, 17th Annual Meeting of the Organization on Human Brain Mapping, June 26-30, 2011

Québec City, Canada

C.81- Evaluating the effect of using ultra small superparamagnetic iron oxide nanoparticles for long-term magnetic cell labeling

S. Shanehsazzadeh^{1, 2}, M.A. Oghabian^{1, 2}, B.J. Allen³, M. Amanlou⁴, A. Masoudi⁵ and F. Johari Doha⁵

6th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT), 17-20 October 2011, Krakow (Poland) **Accepted**

C.82- Evaluation of fMRI analysis in order to study functional changes in borderline personality disorder patients

Hasani N, Oghabian MA, Arbabi M, Hafizi S, Gholami S

The 1st MEFOMP International Conference of Medical Physics, Homa Hotel, Shiraz-Iran, Nov 2-4, 2011, p39

C.83- Comparison of memory processing in temporal lobe epilepsy patients and healthy subjects using fMRI

Gholami S, Oghabian MA, Hashmi Fesharaki S, Barkatain M, Fakhri M, Hasani N,

The 1st MEFOMP International Conference of Medical Physics, Homa Hotel, Shiraz-Iran, Nov 2-4, 2011, p38

C.84- Effect of SENSE on geometric Distortion and Signal Loss on FMRI

Karami G, Oghabian MA, Tohidnia MR

The 1st MEFOMP International Conference of Medical Physics, Homa Hotel, Shiraz-Iran, Nov 2-4, 2011, p23

C.85- A Novel Method for Recording of energy Dispersive X-ray Diffraction (EDXRD) of Biological tissues with Ability of clinical Usage

Chaparian A, Oghabian MA, Changizi V, Farquharson MJ

The 1st MEFOMP International Conference of Medical Physics, Homa Hotel , Shiraz-Iran, Nov 2-4, 2011, p5

C.86- Evaluation of fMRI analysis to study treatment effect of TMS in borderline personality disorder

N.Hasani, M.A. Oghabian, M.Arbabi, S.Hafizi, S.gholami

World congress on Medical Physics & Biomedical Engineering in Beijing, China, May 26-31, 2012

C.87-Evaluation of fMRI analysis for localization of hippocampus activation during episodic encoding memory task

S.gholami, M.A. Oghabian, M.Barekatin, S.Hashemi Fesharaki, S.Hafizi, N.Hasani

World congress on Medical Physics & Biomedical Engineering in Beijing, China, May 26-31, 2012

C.88- Assessment of functional and structural connectivity between motor cortex and thalamus using fMRI and DWI.

Ansari AH, Oghabian MA, Hossein-Zadeh GA.

Conf Proc IEEE Eng Med Biol Soc. 2011; 2011:5056-9.

C.89- Estimation of brain effective connectivity for encoding memory

A. Amousoltani, M.A. Oghabian, Hossein Zade. Gholam Ali, S. Gholami

World congress on Medical Physics & Biomedical Engineering in Beijing, China, May 26-31, 2012

C.90- Evaluation of fMRI analysis for memory lateralization and localization in temporal lobe epilepsy patients

gholami, M.A. Oghabian, .Hashemi Fesharaki, M.Barekatin

Electronic presentation online system 2012

C.91-Presurgical study with fMRI, Activation

28th Iranian Congress of Radiology, 15-18 May 2012, Olympic Hotel, Tehran

C.92- Poster evaluation of the level set method by using similarity criterion (KCC) for clustering and analysis of functional MRI data

Rahimi, M., Oghabian, M.

2012 IEEE 2nd International Conference on Computational Advances in Bio and Medical Sciences, ICCABS 2012 , art. no. 6182657

8- Most recent Journal Papers (only English Papers):

P.7- Spatial Frequency Dependence of the Human Visual Cortex Response on Temporal Frequency Modulation Studied by fMRI,

A. Mirzajani, N. Riyahi-Alam, M.A. Oghabian, K. Firouznia, H. Saberi., Iranian J of Radiology, Summer 2006

P.9- An fMRI Study of Human Visual Cortex in Response to Spatiotemporal Properties of Visual Stimuli,

A. Mirzajani, N. Riyahi-Alam, M.A. Oghabian, K. Firuznia, H. Saberi, Iranian Journal of Radiation research, Volume 3, Number 4 (March 2006)

P.10- High SNR flexible top hat monopole probe for 1.5 T MRI,

M. Mohammadzadeh, M. Shahabadi, H. Soltanian-Zadeh, A. Tavakoli, B. Rafiae, D. Javidneia, M.A. Oghabian, Meas. Sci. Technol. vol. 17, pp. 1987-1994, June 2006

P.12- A linogram/Sinogram Cross-Correlation Method for Motion Correction in Planar and SPECT

Imaging, S Sarkar, M A Oghabian, I Mohammadi, Alireza Mohammadpour, Arman Rahmin, IEEE Trans on Nuclear Sciences, Feb 2007, TNS Issue

P.17- Determination of Superficial Dose Profile in Z-Line for Each Slice in CT.Scan Machines

V Changizi 1, MA Oghabian, Iranian J Publ Health, 2004, Vol. 33, No.4, PP.61-64

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9- Supervision of Postgraduate Students:

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10- Research Grants and Projects:

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- 2) fMRI evaluation for pre-surgical planning of epilepsy and brain tumor patients
- 3) Fiber tracking of spinal cord injury and its treatment (cell therapy) using DTI data in MRI
- 4) Biomarker based Contrast Agent development for Molecular MRI Studies
- 5) Tumor specific imaging in MRI using USPIO (Nano-particle based) contrast agents
- 6) Cancer Treatment Monitoring using Molecular Imaging Techniques on Animal Models

11- PUBLICATIONS:

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- 2) **PhD Thesis:** 3-D data handling and registration of Medical Images coming from different sources.
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