CURRICULUM VITAE
2024

Mohammad Ali Oghabian

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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. Gower St, London	PhD in Medical
1986-1987:	University of Surrey,Medical Physics Dept. Physics. Guildford, UK, GU2 5XH	MSc in Medical
1979-1984:	Iran University of Medical Sciences Tehran Radiology technology	BSc in

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
2023-	The National Brain Mapping Laboratory (NBML)	Head of Department

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 Iran 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 Fe3-xZnxO4 (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 Sciense 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 sddicts to drug-related cues show similar fMRI activations as normal subjects in their brains.
Mohammad Ali Oghabian, Hamed Ekhtiari, Arian Behzadi, Azarakhsh Mokri,
13th Conferense 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 Meting 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

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,

C.40- Comparision 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
Bolandzadeh, 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, M. A. Oghabian, Member, Alirezaie, C. Beckman
ISSPIT, The 7th IEEE International Symposium on Signal Processing and Information Technology December 15-18, 2007, Cairo, Egypt

C_1.41- 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
World Congress on Medical Physics and Biomedical Engineering 2006 August 27 – September 1, 2006 COEX Seoul, Korea "Imaging the Future Medicine"

C_2.41- 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"

C_3.41- 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- Comparision 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 detectibility 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 conress of Iranian society for reproductive medicine 3-5 March, 2010 – Shiraz -Iran

C.64- Evidence for establishment of androgen-dependent prostatic adeocarcinoma 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 conress 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 ; Rustaee, T.; Naghibzadeh GH.; Amanpour, S.; Oghabian, MA.; Khoee, S.; Tirigari, F.; Mohagheghi, MA.; Shokrgozar, MA.; Amanzadeh, A,; Zendedel, K.; Ramezanzadeh, F.;
16th international conress 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. Rezvanizadeh, 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 brest 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, Arash Nazeri, Tina Roostaei, Arman Eshaghi, Mohammad Ali Oghabian
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 Ekhtiari, Habib Ganjgahi, Peyman Hassani- Abharian, Zahra Alam-Mehrjerdi, Mohammad Ali Oghabian
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, M.A. Oghabian, B.J. Allen, M. Amanlou, A. Masoudi and F. Johari Daha
6th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT), 17-20 October 2011, Krakow (Poland)

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.Barekatain, 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 ans localization in temporal lob epilepsy patients
gholami, M.A. Oghabian, .Hashemi Fesharaki, M.Barekatain
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., Oghabiyan, M.
2012 IEEE 2nd International Conference on Computational Advances in Bio and Medical Sciences, ICCABS 2012 , art. no. 6182657

8- Most recent Journal 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

P.18- Spatial Frequency Modulates the Human Visual Cortical Response to Temporal Frequency Variation: An fMRI Study,
Mirzajani A, Oghabian M A, Riahi-Alam N Physiol Meas. 2007 May;28(5):547-54.

P.20- Using functional magnetic resonance imaging (fMRI) to explore brain function: cortical representations of language critical areas.

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Negin Pournoori, Mohammad Ali Oghabian, Rasoul Irajirad, Samad Muhammadnejad, Hamid Delavari H
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Soheil Ahmadzadeh Irandoost, Reza Shervin Badv, Mohammad Ali Oghabian, Bahram Yarali, Reza Azizi Malamiri, Hasan Hashemi, Samira Raminfard, Tayyebeh Ebrahimi, Mahmoud, Mohammadi and Mahmoud Reza Ashrafi
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Behzad Amanpour-Gharaei , Shirin Haghshenas Bilehsavar , Ahmad Pour-Rashidi , Mohsen Izanlou , Yasaman Bastanipour , Hassan Hashemi, Mohammad Ali Oghabian , Elham Nazar 8 and Samira Raminfard
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P-152- Evaluation of Response Inhibition in the Face of Cognitive and Emotional Stimuli in Patients with Frontal Lobe Tumors before and after Surgery
Zahra Farshidfar , Mohamad-ali Oghabian , Mehdi Tehrani-Doost , Seyed AmirHossein Javadi
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9- Supervision of Postgraduate Students:

Supervision of MSc and PhD Students: 47

10- Research Grants and Projects:

1)fMRI Study of neuro-degenerative diseases in addiction
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:

1) MSc Thesis: Volume Measurements using Positron Emission Tomography.
2) PhD Thesis: 3-D data handling and registration of Medical Images coming from different sources.
3) **Book (Translation):** Nanotechnology in Medical applications
4) **Book (Translation)**: MRI the Basic
5) **Book (Chapters):** Medical Physics for MD Students
6) **Book (edition):** Principals of Medical Imaging Equipments
7) **Book (edition):** Mathematical Methods in Medical Imaging (In Farsi)

12- Research Projects:

1. Evaluation of fMRI sensitivity in detection of brain functional activities during visual stimulation

2. Study of the current state and the role of USPIO in identifying nodes of the lymphatic system

3. Designing a Visual Craving task for evaluating Cue-induced Craving among opium and heroin addicts

4. Determination of the depth of labeled tumor with florescent in breast phantom using optical fiber

5. Evaluation of relative tests with language in detection of language area By fMRI
6. Determination of the depth of labeled tumor with fluorescent in Brest phantom using optical fiber

7. Design and Implementation of a Pilot System for White Matter Fiber Tractography

8. A functional Neuro Imaiging Survey of Brain Activation Areas in Cue Induced Craving in Local Crak Smoking

9. Extracting the default network of resting state fMRI data in healthy persons by Independent Component Analysis algorithm

10. Assesment of Brain Activation in CIS(Clinically Isolated Syndrome) patients With optic neuritis sign in comparison wih normal subjects during performance of motor Tasks of four limbs with functional Magnetic Resonance imaging at Medical Imaging center

11. Evaluation of the Parameters Affecting Reproducibility of Clinical MRS studies

12. Stem cells tracking of neural regenerating Mesanchemal cell implanted in injured mice brain using USPIO based MRI

13. Visual, Verbal , and Auditory Tasks to Activate Working Memory Network: An fMRI study

14. Using Rest-State fMRI to Diagnose Alzheimer's Disease

15. Comparing the effects of Iranian Music on the functionality of Musician and non-Musician Brain activation by using fMRI

16. Assessment of the Effect of the Parameters Affects on the Diffusion Tensor Imaging and Tractography of the Spinal Cord

17. Evaluation of iron oxide magnetic nanoparticles coating type effect on magnetic resonance imaging (MRI) contrast

18. Evaluation of Fiber tracking for Patients undergoing Spinal Cord Schwann Cell Therapy using Difusion Tensor MR Imaging

19. Tracing Satellite cells in regenerated sphincters in rabbit using USPIO

20. optimization of x-ray spectrum from routine x-ray machine for phase contrast imaging

21. Assessment of Sensory Integration (Auditory-Tactile) in Language Processing in Binds using fMRI
22. Assessment of brain activation regions in heroin users for three different groups

23. Evaluation of signal detectability from Breast Cancer cells using targeting imaging probes conjugated to Iron Magnetic Nano particles

24. Design MRI Compatible Olfactometer to Assess Human Brain During Olfactory Test by fMRI

25. Evaluating connectivity in brain combining FMRI-DTI analysis

26. Design of experimental magnets to concentrate magenetic field for trapping magnetic particle in space

27. evaluation of fMRI analysis to study Emotional brain areas in borderlin personality disorder patient

28. Finding lie and deception brain regions using fMRI

29. Evaluation of fMRI analysis for memory lateralization and localization in temporal lobe epilepsy patients

30. evaluation of Brain functional connectivity analysis to study epilepsy focal points in TLE patients

31. Altered Resting-State Functional Connectivity Of Fronto-Striatal In Obsessive Compulsive Disorder Pre and Post SSRIs-Treatment

32. Pre-surgical assessment of critical brain regions in patients with intractable epilepsy and frontal lobe tumors: An fMRI study

33. Evalouation of Brain Areas Involved in Olfactory via fMRI

34. Assessment of predictive value of in vitro and in vivo assays in response prediction of neoadjuvant chemotherapy in breast cancer

35. Assessment of localization of cerebral speech areas in patient with frontal lobe tumor befor & after the surgery with functional MRI

36. Language and Memory Lateralization in Treatment Intractable Epileptic Patients: An fMRI Study

37. Specific monitoring for the presence of multifunctional nanocomplex containing gold coated iron oxide particles in human prostate tumoral cells through MRI

38. Exploring the effect of Transcranial Direct Current Stimulation (tDCS) On Dorso Lateral Prefrontal Cortex (DLPFC) for Modulation of Methamphetaime Craving using fMRI

39. IMPROVEMENT IN IMMUNE-CONJUGATION OF SUPER PARAMAGNETIC NANOPARTICLES FOR PRODUCTION OF MRI PROBS

40. Stem cells tracking of implanted cells during cell therapy in degenerative diseases using USPIO based MRI

41. Design and Implementation of Brain Mapping Strategy for Language and Memory in Pre- surgical Planning using fMRI

42. Could we differentiate chronic methamphetamine users from normal healthy subjects based on their olfactory processing using fMRI?

43. 1H MRS temperature calibrations in tissue equievalent gel phantoms show dependence on macromolecular concentraton

44. Effect of surface charge of PEGylated Iron Oxide nanoparticles as a contrast agent in MRI

45. fMRI Functional brain network analysis based on graph analysis using fuzzy theory

46. assessment of brain anatomic substructures with Quantitative Susceptibility Mapping (QSM) using by MRI

47. Finding lie and deception brain regions using fMRI

48. Examining the Accountability of the Language fMRI regarding Lateralized Eloquent Cortex Localization in Persian Speaking Subjects through Virtual Lesion Generation with Navigated Transcranial Magnetic Stimulation (nTMS

49. Exploring Neural Mechanisms of Response Control Deficit during Risky and Addictive Behaviors among Methamphetamine Users Using Multimodal Functional and Structural Neuroimaging

50. Improving Brain Fiber Tracts Detection in Peritomural Areas using Diffusion Weighted MRI

51. Effect of particle size on signal changes in MRI after administration of PEG coated Iron Oxide Nano particles in normal mice

52. Evaluation of Olfactory Activation patterns in anosmic patients with peripheral and central injuries as compared to healthy subjects

53. Design and implementation of neurite orientation dispersion and density imaging protocol for patients with suspected focal cortical dysplasia on conventional MRI

54. Glioma staging improvement by quantitative analyzing of DCE-perfusion MRI images

55. Design and synthesis of glycosilated Iron oxide nanoparticles as a contrast agent for cancer detection in early stages by by Magnetic Resonance imaging

56. Magnetic resonance imaging of tumor-infiltrating lymphocytes by anti-CD3-conjugated iron oxide nanoparticles in an animal model of breast cancer

57. Evaluation of functional Magnetic Resonance Imaging in assessment of focal activations due to nociception in the human spinal cord

58. Application of brain metabolic map in radiotherapy treatment planning of glioma

59. Assessment of brain fucntional maps obtained using BOLD contrast in tumoral barin areas, comparsion with measurments of blood perfusion

60. Evaluation of spectroscopy parameters and MRS signal analysis of body fluids to study the capabilities of the device in order to diagnose metabolic diseases

61. Investigation and extraction of technical and cumputetional parameters in physiological MRI modallities to diagnostic neuroinflammation in refractory and MRI negative Epilepsy

62. Design and Implementation of an Archive and Registration System for Brain Functional Images, Dedicated for Research and Patients Referred to NIAG
63. using fMRI to investigate possible lie telling in suspected criminals

64. Development of mouse avatars of B cell malignancies for preclinical assessment of CAR-T cell therapy

65. Assessment of different conjugation methods of antobody to ferromagnetic iron oxide nanoparticles in order to develop a contrast agent for magnetic resonance imaging of lymphocytes

66. Vessel size index measurement in tumoral area using MRI before and after anti-angiogenic treatment

67. Calculation of metabolic parameters of the brain to detect epileptic focus using perfusion weighted imaging and susceptibility weighted imaging

68. Investigating functional MRI and its effective technical and processing parameters for detecting brain changes In stroke patients undergoing neurorehabilitationn

69. Optimization of conjugation of anti-CD34 antibody to iron oxide magnetic nanoparticles for isolation and purification of hematopoietic stem cells

70. Designing a system for the removal of heavy metals from drinking water to reduce cancer

71. Pre-clinical assessment of labeling of tumor infiltrating lymphocytes with iron oxide nanoparticles conjugated to anti-CD3 antibody fragments

72. Recognition Pain region in brainstem and cervical cord in human by fMRI

73. Assessment of genomic alterations in tumor tissue of Iranian patients with cancer and its relevancy to the effectiveness of treatment

74. Assessment of feasibilty of utilizing phosphoserine-conjugated ferumoxytol in magnetic resonance imaging of macrophage system

75. Epilepsy discharge localization in brain use EEG signal processing with both smart fuzzy algorithm & deep learning

76. Integrated DTI Preprocessing Framework Using Independent Component Analysis (ICA) for Estimation of Motion

77. Predicting postoperative language outcome using fMRI/DTI, following evaluation of functional
    language mapping compared to Cortical Stimulation mapping

78. Design and manufacturing of colorimetric arsenic sensor for drinking water

79. Differentiation between progression from pseudoprogression in glioblastoma using different parameters of diffusion weighted imaging
80. Evaluation of motor fiber tracts neuroplasticity in brain tumor patients by diffusion tensor imaging (DTI)
81. Evaluation of functional connectivity variation in brain networks regions in Psychogenic non epileptic seizure disease by functional magnetic resonance imaging data
82. Identifying motor functional neurological disorder (mFND) using resting-state functional connectivity (rsFC)
83. Comparative study of brain volumetric alterations in individuals with schizophrenia
84. Evaluation of Magnetic Resonance Imaging techniques and utilization of synthesized CT images by MR images for assessment of dose calculation and treatment planning in radiotherapy
85. Pre-operative high grade glioma tumor mapping using combination of multimodality imaging to increase resected tumor volume
86. Combine MRI Parameters Obtained from Multiparametric MRI Exam to Early Differentiate Pseudo Progression from True Progression in Glioma-Treated Patients
87. Design and Implementation of a Software for Measurement of Brain Perfusion Using an Optimized Model
88. Evaluation of Common Operator Errors and Correction Approaches in Performance of Magnetic Resonance Spectroscopy (MRS) of Brain Lesions
89. Assessment of Treatment Effect on Brain Structural, Functional and Metabolic Changes in Obstructive Sleep Apnea Syndrome Using Magnetic Resonance Imaging
90. the Evaluation of emotional inhibition in patients with prefrontal tumors before and after surgery using fMRI
91. Designing and implementing a software platform to estimate the seizure onset zone in epileptic children using ESI methods based on clinical needs
92. Determining the accuracy of intravoxel incoherent motion (IVIM) imaging method in determining the biomolecular subtypes of brain gliomas
93. Combining parameters of physiological brain images in glioma tumors to reach a single index

94. Design and implementation of algorithm based on deep learning to detect abnormal EEG signals in epileptic patients based on LTM data in order to facilitate positioning of seizure focal points

95. Investigating the volume and active points in the hippocampus, answering the task and designing a suitable test to determine the laterality of episodic memory in temporal
lobe epilepsy patient

96. Investigating changes in the volume of brain structures in patients with bipolar disorder before and after starting treatment with mood stabilizers