Name Dafna Ben Bashat Degree PhD CV updated 1.08.2016

CURRICULUM VITAE

NAME Dafna Ben Bashat PhD 059727594
(First) (Last) Academic Degree I.D No.

FACULTY/DEPT: Sackler Faculty of Medicine & Sagol School of Neuro Science
Tel Aviv University

HOSPITAL/DEPT: Functional Brain Center, Tel Aviv Sourasky Medical Center

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DATE AND PLACE OF BIRTH: 09.11.1966 Israel

ZAHAL (ISRAELI) MILITARY SERVICE: 1984 - 1987

MARITAL STATUS: Married+3

A. Education

PERIODS OF STUDIES

Tel Aviv University, Tel Aviv, Israel 1988-1991
(*Name of University, City, Country)* *Period*

Subject Chemistry

Degree or Professional License B.Sc **Date Awarded** 1991

Tel Aviv University, Tel Aviv, Israel 1991-1998
(*Name of University, City, Country)* *Period*

Subject Physical Chemistry

Degree or Professional License PhD **Date Awarded** 1998

Title of Doctoral Dissertation 31P NMR spectroscopy: Methods and In Vivo Applications

Supervised by: Prof. Gil Navon

Date Awarded 1998

B. FURTHER STUDIES

1998	MRI course, School of Imaging, Kaplan Medical Center, Affiliated to Hebrew University.
1999	C programming, Hi-Tech College, Herzliya.
2001	IRIX system administration, SGI.
2003	Good Clinical Practice for Clinical Investigations, Association of Clinical Research Professionals, Sheba Medical Center, Tel Hashomer, Israel.
2006-2008	Psychology, Open University, Tel Aviv.

C. ACADEMIC & PROFESSIOMAL ACTIVITIES & ACHIEVEMENTS

C1. ACADEMIC EXPERIENCE

1990-1991	Research Project in the framework of the B.Sc: "Determining Multidrug Resistance in Leukemia Patients using NMR".
1992-1998	Instruction at the School of Chemistry, Tel Aviv University: General Chemistry Laboratory, General and Physical Chemistry courses, Advanced Physical Chemistry Laboratory.
1998-2008	Various lectures at Tel Aviv University: Advanced Medicine Studies, Psychiatry, Neurology.
1998-2008	Teaching "MR physics" course at the School of Technicians, Tel-Aviv Sourasky Medical Center.
2002-2008	Teacher on the fMRI course at Tel Aviv University & Tel Aviv Sourasky Medical Center.
2003-2009	Training technicians to run MR systems including theory.

2010-Present Teaching a continuing education course: Advanced brain imaging in neuro-pathology.

2010 Visiting Professor
Northern Jiangsu People's Hospital, Clinical Medical School of Yangzhou University.

2012-Present Senior Lecturer, Sackler Faculty of Medicine & Sagol School of Neuroscience, Tel Aviv University.

C2. PROFESSIONAL EXPERIENCE.

1998-2001 Investigator of the Functional Brain Mapping Unit, The Wohl Institute for Advanced Imaging. Imaging Department, Tel-Aviv Sourasky Medical Center

2001-Present In charge of MRI systems & Deputy Director – Functional Brain Center. The Wohl Institute for Advanced Imaging, Imaging Department, Tel-Aviv Sourasky Medical Center

Working with Industry Companies

2012-Present Establishing the Advanced Imaging Lab (AIL), as part of the Functional Brain Center, which provides advanced image analysis services: working previously with Orsan company, and currently with Galmed Pharmaceuticals Ltd

2012-Present Serving as an imaging site for various clinical trials on Brain Tumors and Multiple Sclerosis with several drug companies including: CELDEX (Bioclinica, USA); Novella Clinical; Roche; Novartis; Sanofi – MS in children; Genzyme

SCIENTIFIC PUBLICATIONS

B.1. ORIGINAL ARTICLES*

B.1. Articles Published

1. D. Ben-Bashat, H. Shinar, G. Navon.
   31P NMR Methods for the Direct Determination of ADP in the Presence of ATP..
   J Magn Reson Series B, 1996; 110, 231-239..

2. Y. Meller-Harel, A. Argaman, D. Ben-Bashat, G. Navon, Y. Aharonowitz, D. Gutnick.
   Inhibition by Polyphosphate of Phytopathogenic Polygalacturonases from Botrytis Cinerea..
   Can J Microbiol,1 997; 43, 835-840.

3. D. Ben-Bashat, G. Navon, L. Litinetsky, J.S. Ishay.
   Phosphorus Metabolites in the Oriental Hornet and Honeybee: NMR Examinations.
   Physiological Chemistry and Physics and Medical NMR.,1999; 31, 65-75 .

4. D. Ben-Bashat, Y. Meller-Harel, Y. Aharonowitz, D. Gutnick, S. Carmeli, G. Navon.
   Excretion of a Phosphorus-Containing Carbohydrate by Streptomyces sp. A50.
   J Natural Product, 2001;64, 1538-1540.

5. U. Hasson, T. Hendler, D. Ben-Bashat, R. Malach.
   Vase or face? A neural correlate of shape-selective grouping processes in the human brain.
   J. Cog Neurosci 2001;13(6): 744-753.

6. Y. Lerner(S), T. Hendler, D. Ben-Bashat, M. Harel, R. Malach.
   A Hierarchical Axis of Object Processing Stages in the Human Visual Cortex.
   Cerebral Cortex, 2001; 11(4): 287-297.

7. Y. Assaf, D. Ben-Bashat, J. Chapman, S. Peled, I.E. Biton, M. Kafri, Y. Segev, T. Hendler, A.D.Korczyn, M. Graif and Y. Cohen.
   High b-value q-space analyzed diffusion-weighted MRI: application to multiple sclerosis.
   Magn Reson Med, 2002;47(1):115-126.

8. I. Kahn, Y. Yeshurun, P. Rotshtein, I. Fried, D. Ben-Bashat, T. Hendler.
   The role of the amygdala in signaling prospective outcome of choice.
   Neuron, 2002; 33(6):983-994.

9. Y. Assaf, O. Mayzel-Oreg, A. Gigi, D. Ben-Bashat, M. Mordohovitch, R. Verchovsky, I.I. Reider- Groswasser, T. Hendler, M. Graif, Y. Cohen, A.D. Korczyn(PI).
   High b Value q-space-analyzed diffusion MRI in vascular dementia: A preliminary study.
   J Neurol Sci., 2002; 203-4(C):235-9.

10. G. Avidan, M. Harel, T. Hendler, D. Ben-Bashat, E. Zohary, R. Malach.
    Contrast sensitivity in human visual areas and its relationship to object recognition.

J Neurophysiol.,2002; 87(6):3102-3116.

11. T. Hendler, P. Rotshtein, Y. Yeshurun, T. Weizman, I. Kahn, D. Ben- Bashat, R. Malach, A. Bleich.
Sensing the Invisible: Differential Sensitivity of Visual Cortex and Amygdala to Traumatic Context.
NeuroImage,2003; 19(3):587-600

12. M. Ben Shachar, T. Hendler, I. Kahn I, D. Ben-Bashat, Y. Grodzinsky.
The Neural reality of syntactic transformations: Evidence from fMRI.
Psychological Science,2003; 14(5): 433-40.

13. T. Hendler, P. Pianka, M. Sigal, M. Kafri, D. Ben-Bashat, S. Constantini, M. Graif, I. Fried, Y. Assaf.
Delineating gray and white matter involvement in brain lesions: three-dimensional alignment of fMRI and DTI.
J Neurosurg.2003; 99(6):1018-1027.

14. D. Ben-Bashat, L. Ben Sira, M. Graif, P. Pianka, T. Hendler, Y. Cohen, Y. Assaf.
Normal white matter development from infancy to adulthood: Comparing diffusion tensor and high b value diffusion weighted MR images.
J Magn Reson Imaging,2005; 21(5): 503-511.

15. Y. Assaf, J. Chapman, D. Ben-Bashat, T. Hendler, Y. Segev, A.D. Korczyn, M. Graif, Y. Cohen.
White matter changes in multiple sclerosis: correlation of q-space diffusion MRI and ^{1}H MRS.
Magn Reson Imaging,2005; 23(6): 703-710

16. O. Mayzel-Oreg, Y. Assaf, A. Gigi, D. Ben-Bashat, R. Verchovsky, M. Mordohovitch, M. Graif(C), T. Hendler(C), A. Korczyn(C), Y. Cohen(PI).
High b-value diffusion imaging of dementia: Application to vascular dementia and alzheimer disease.
J Neurol Sci.,2007; Jun, 257(1-2):105-113.

17. D. Ben-Bashat, V. Kronfeld-Daunias, D.A. Zachor, P.M. Ekstein, T. Hendler, R. Tarrasch, A. Even, Y. Levy, L. Ben Sira.
Accelerated maturation of white matter in young children with autism: a high b value DWI study.
NeuroImage, 2007;August, 37(1):40-47.
IF 6.357; Neuroimaging 1/14, Radiology, nuclear medicine & medical imaging 3/125-

18. D. Ben-Bashat, I. Sivan, M. Ziv, O. Aizenstein, P. Pianka, R. Malach, M. Graif, T. Hendler, G. Navon.
T1-weighted functional imaging based on a contrast agent in presurgical mapping.
J Magn Reson Imaging.2008; October, 28(5): 1245-1250.

19. L. Ben Sira, E. Miller, M. Artzi, A. Fattal-Valevski, S. Constantini, D. Ben-Bashat.
1H-MRS for the diagnosis of acute disseminated encephalomyelitis: insight into the acute-disease stage.

Pediatric Radiol, 2010; January, 40(1):106-113.

20. O. Elkana, R. Frost, U. Kramer, D. Ben-Bashat, T. Hendler, D. Schmidt, A. Schweiger.
Cerebral reorganization as a function of linguistic recovery in children: An fMRI study.
Cortex, 2011; Feb, 47(2):202-216.

21. M. Weinstein, L. Ben-Sira, Y. Levy, D.A. Zachor, E. Ben Itzhak, M. Artzi, R. Tarrasch, P.M. Eksteine, T. Hendler, D. Ben-Bashat.
Abnormal white matter integrity in young children with autism.
Human Brain Mapping.,2011; April, 32(4): 534-543.

22. M. Artzi, O. Aizenstein, T. Hendler, D. Ben Bashat.
Unsupervised multiparametric classification of dynamic susceptibility contrast imaging: Study of the healthy brain.
Neuroimage,2011; Jun, 56(3):858-864.

23. M. Artzi, L. Ben Sira, H. Bassan, V. Gross-Tsur, I. Berger, R. Marom, Y. Leitner, Y. Bental, Y. Shiff, R. Geva, M. Weinstein, D. Ben Bashat.
Brain Diffusivity in Infants with Hypoxic Ischemic Encephalopathy following Whole Body Hypothermia: Preliminary Results.
Journal of Child Neurology, 2011; Oct, 26(10):1230-1236.

24. B. Shofty, L. Weizman, L. Joskowicz, S. Constantini, A. Kesler, D. Ben-Bashat, M. Yalon, R. Dvir, S. Freedman, J. Roth, and L. Ben-Sira.
MRI internal segmentation of Optic Pathway Gliomas: Clinical implementation of a novel algorithm.
Child's Nervous System.,2011; Aug, 27(8):1265-1272

25. D. Ben Bashat, M. Artzi, R. Tarrasch, B. Nefussy, E.V. Drory*, O. Aizenstein*. (equal contribution)
A potential tool for the diagnosis of ALS based on diffusion tensor imaging.
ALS.2011; Nov, 12(6):398-405.

26. L. Weizman, L. Ben Sira, L. Joskowicz, S. Constantini, R. Precel, D. Ben Bashat.
Automatic Segmentation, Internal Classification, and Follow-up of Optic Pathway Gliomas in MRI.
Medical Image Analysis, 2012; Jan, 16(1):177-188.

27. E. Ben Assayag, A.D. Korczyn, N. Giladi, U. Goldbourt, A.S. Berliner, S. Shenhar-Tsarfaty, E. Kliper, H. Hallevi, L. Shopin, A. Gur, T. Hendler, D. Ben Bashat, O. Eisenstein, H. Soreq, N. Katz, Z. Solomon, A. Mike, S. Usher, J.M. Hausdorff, N.M. Bornstein.
Predictors for Post-stroke outcomes: the TABASCO (Tel Aviv Brain Acute Stroke Cohort) study protocol.
International Journal of Stroke, 2012; Jun, 7(4):341-347.

28. M. Artzi (S), O. Aizenstein, T. Jonas-Kimchi, H. Hallevi, D. Ben Bashat.
FLAIR Lesion Segmentation: Application in Patients with Brain Tumors and Acute Ischemic Stroke.
Europian Journal of Radioloty,2013; Sep, 82(9):1512-8.

29. D.Ben Bashat, M. Artzi, H. Ben Ami, O. Aizenstein, DT. Belumenthal,F. Bokstein, BW.Corn, Z. Ram, AA. Kanne, B. Lifschitz-Mrecer, I. Solar, T. Kolatt, M, Palmon(S), R. Abramovitch(PI).
Hemodynamic response imaging: a potential tool for the assessment of angiogenesis in brain tumors.
PloS One, 2012 Nov; 7(11): e49416, 2012.

30. L.Weizman, L. Hoch, D. Ben Bashat, L. Joskowicz, LT.Pratt, S.Constantini, L.Ben Sira.
Interactive segmentation of plexiform neurofibroma tissue: method and preliminary performance evaluation.
Med Biol Eng Comput. Aug, 2012; 50(8):877-84, 2012.

31. G. Liberman, Y.Louzoun, O.Aizenstein, DT. Blumenthal, F. Bokstein,M. Palmon, BW.Corn, D.Ben Bashat .
Automatic multi-modal MR tissue classification for the assessment of response to bevacizumab in patients with glioblastoma.
Eur J Radiol. Feb, 2013; 82(2):e87-94.

32. O.Elkana, R.Frost, U. Kramer, D. Ben-Bashat, A. Schweiger.
Cerebral language reorganization in the chronic stage of recovery: A longitudinal fMRI study.
Cortex, Jan, 2013; 49(1):71-81.

33. E. Kliper, D.Ben Bashat,NM. Bornstein, S.Shenhar-Tsarfaty, H.Hallevi, E.Auriel, L.Shopin, S.Bloch, S.Berliner, N.Giladi, U.Goldbourt, I.Shapira, AD.Korczyn (C), E.Ben Assayag.
Cognitive Decline After Stroke: Relation to Inflammatory Biomarkers and Hippocampal Volume.
Stroke, 2013; May, 44(5):1433-5.

34. M. Artzi(S), O.Aizenstein(C), R.Abramovitch(C), D.Ben Bashat(PI).
MRI Multiparametric Hemodynamic Characterization of the Normal Brain.
Neuroscience, Jun 14 2013; 240:269-76.

35. D. Green, M. Schertz, A.M Gordon, A. Moore, T. Schejter Margalit, Y. Farquharson, D. Ben Bashat, M. Weinstein, J-P. Lin, A. Fattal-Valevski.
A multi-site study of functional outcomes following a themed approach to hand–arm bimanual intensive therapy for children with hemiplegia.
Developmental Medicine & Child Neurology, Jun, 2013; 55(6):527-33.

36. M. Weinstein, D. Green, R. Geva, M. Schertz, A. Fattal-Valevski, M. Artzi, Myers V, Shiran S, Gordon M. G, Gross-Tsur V, Ben Bashat D.
Interhemispheric and intrahemispheric connectivity and manual skills in children with unilateral cerebral palsy.
Brain Structure and Function, May, 2014; 219(3):1025-40.

37. A. Thaler, M. Artzi, A.Mirelman, Y. Jacob, Rick C. Helmich, Bart F.L. van Nuenen, T.Gurevich, A. Orr-Urtreger, K.Marder, S. Bressman, Bastiaan R. Bloem, T. Hendler, N. Giladi, D. Ben Bashat and the LRRK2 Ashkenazi Jewish consortium PD.

A Voxel-Based Morphometry and Diffusion Tensor Imaging analysis of asymptomatic Parkinson's disease related G2019S LRRK2 mutation carriers.
Movement Disorders, 2014; 29(6):823-7.

38. L.Weizman, D.Helfer, D. Ben Bashat, LT.Pratt, L.Joskowicz, S.Constantini, B.Shofty, L.Ben Sira).
PNist: interactive volumetric measurements of plexiform neurofibromas in MRI scans.
Int J Comput Assist Radiol Surg., Jul.2014; 9(4):683-93.

39. G. Liberman, Y. Louzoun, D. Ben Bashat.
T1 Mapping using variable flip angle SPGR data with flip angle correction.
J Magn Reson Imaging, July, 2014; 40(1):171-80.
IF 3.250; Radiology,Nuclear Medicine & Medical Imaging 23/124-Q1; Cited:4.

40. M. Artzi, O. Aizenstein, T. Jonas-Kimchi, N. Bornstein, L. Shopin, H. Hallevi and D. Ben Bashat
Classification of lesion area in stroke patients during the sub-acute phase: A multiparametric MRI study.
Magn Reson Med. Nov, 2014; 72(5):1381-88.

41. L.Weizman, L.Ben Sira, L.Joskowicz, LD. Rubin, KW.Yeom, S.Constantini, B.Shofty, D. Ben Bashat·
Semi-automatic segmentation and follow-up of multi-component low-grade tumors in longitudinal MRI studies.
Medical Physics, May, 2014; 41(5):0523031-14.

42. M. Artzi, F. Bokstein, D.T.Blumenthal, O. Aizenstein, G. Liberman, B.W.Corn, D. Ben Bashat.
Differentiation between vasogenic-edema versus tumor-infiltrative area in patients with glioblastoma during bevacizumab therapy: a longitudinal MRI study.
Eur J Radiol, Jul, 2014; 83(7):1250-6.

43. Weizman L, Rahamim O, Dekel R, Eldar YC, D. Ben-Bashat .
"Exploiting similarity in adjacent slices for compressed sensing MRI".
Conf Proc IEEE Eng Med Biol Soc. 2014 Aug;2014:1549-52.

44. Y. Leitner, M. Weinstein, V. Myers, S. Uliel, K. Geva, I. Berger, R. Marom, D. Ben-Bashat, L. Ben Sira, R. Geva and V. Gross-Tsur.
Diffuse excessive high signal intensity in low-risk preterm infants at term-equivalent age does not predict outcome at 1 year: a prospective study.
Neuroradiology, 2014; 56(8):669-78.

45. M Weinstein, D Ben Bashat, V Gross-Tsur, Y Leitner, I Berger, R Marom, R Geva, S Uliel and L Ben Sira.
Isolated mild white matter signal changes in preterm infants: a regional approach for comparison of cranial ultrasound and MRI findings.
J Perinatol, 2014; 34(6):476-82.

46. M. Weinstein, R. Marom, I. Berger, D. Ben Bashat, V. Gross-Tsur, L. Ben Sira, M.

Artzi, S. Uliel, Y. Leitner, R. Geva.
Neonatal neuropsychology: Emerging relations of neonatal sensory-motor responses to white matter integrity.
Neuropsychologia, 2014; 62:209-19.

47. E. Kliper, E. Ben Assayag, R. Tarrasch, M. Artzi, A.D. Korczyn, S. Shenhar-Tsarfaty, O. Aizenstein, H. Hallevi, A. Mike, L. Shopin, N.M. Bornstein, D. Ben Bashat.
Cognitive state following stroke: the predominant role of preexisting white matter lesions.
PloS One, 2014; 9(8):e105461.

48. S.I. Shiran, M. Weinstein, C. Sirota-Cohen, V. Myers, D. Ben Bashat, A. Fattal-Valevski, D. Green, M. Schertz.
MRI–Based Radiologic Scoring System for Extent of Brain Injury in Children with Hemiplegia.
AJNR/ Am J Neuroradiol., 2014, 35(12):2388-2396.

49. Del Felice A, Foroni R, Manganotti P, Storti SF, Ricciardi GK, D Ben Bashat, Longhi M, Meglio M), Nicolato S.
The use of electrical source imaging in targeting lesional mesial temporal epilepsy for radiosurgical treatment.
Epileptic Disorders., 2014 Dec; 16(4):528-32.

50. S. Laufer, A. Mazuz, N. Nachmanson, Y.Fellig, B. W. Corn, F. Bokstein, D. Ben Bashat and R. Abramovitch.
Monitoring brain vascular heamodynamic following anti-angiogenic therapy with advanced magnetic resonance imaging in mice.
PLoS One. , 2014 Dec 15;9(12):e115093.

51. DT.Blumenthal, O.Aisenstein, I.Ben-Horin, D Ben Bashat, M.Artzi, BW. Corn ,AA. Kanner,Z. Ram,F. Bokstein .
Calcification in high grade gliomas treated with bevacizumab.
J Neuro-oncology., 2015 Jun;123(2):283-8.

52. M.Artzi G. Liberman, G.Nadav, F.Vitinshtein, DT.Blumenthal, F. Bokstein, O.Aizenstein, D. Ben Bashat.
Human cerebral blood volume measurements using dynamic contrast enhancement in comparison to dynamic susceptibility contrast MRI.
Neuroradiology. 2015 57(7):671-678.

53. B.Shofty, M.Mauda-Havakuk, L.Weizman, S.Constantini, D. Ben Bashat, R.Dvir, LT.Pratt,L.Joskowicz, A.Kesler, M.Yalon, L.Ravid, L.Ben-Sira.
The effect of chemotherapy on optic pathway gliomas and their sub-components: A volumetric MR analysis study.
Pediatr Blood Cancer. , 2015; 62(8):1353-1359.

54. L. Weizman, Y. Eldar, Moran Artzi, D. Ben-Bashat,
"Fast Reference Based MRI,"
Proceedings of the 37th international conference of the IEEE Engineering in Medicine and

Biology (EMBC), 2015.

55. LT.Pratt, D.Helfer,L. Weizman, B.Shofty,S. Constantini,L. Joskowicz, D. Ben Bashat, L.Ben-Sira.
Tumor burden evaluation in NF1 patients with plexiform neurofibromas in daily clinical practice.(vol 157, pg 855, 2015).
Acta Neurochirurgica, 2015; 157(6):1091-1091.

56. M. Artzi, D. Blumenthal, F. Bokstein, G. Nadav, G. Liberman, O. Aizenstein, D. Ben Bashat.
Classification of tumor area using combined DCE and DSC MRI in patients with glioblastoma.
Journal of Neuro-Oncology, 2015,121(2):349-357.

57. M.Weinstein, V. Myers, D. Green, M. Schertz, S. Shiran, R. Geva, M. Artzi, A.Gordon, A.Fattal-Valevski, D Ben Bashat.
Brain Plasticity Following Intensive Bimanual Therapy in Children with Hemiplegia: Preliminary Evidence.
Neural Plasticity, (accepted for publication June 2015, Article ID 798481)

58. E. Kliper, E. Ben Assayag, A.D. Korczyn, E. Auriel, L. Shopin, H. Hallevi, S. Shenhar-Tsarfaty, A. Mike, M. Artzi, I. Klovatch, N.M. Bornstein, D. Ben Bashat.
Cognitive state following mild stroke: a matter of hippocampal diffusivity.
Hippocampus, 2015; 26(2):161-69.

59. M. Schertz, S.I. Shiran, V. Myers, M. Weinstein, A. Fattal-Valevski, M. Artzi, D. Ben Bashat, A.M. Gordon, D. Green.
Imaging Predictors of Improvement from a Motor Learning Based Intervention for Children with Hemiplegia.
Neurorehabilitation and Neural Repair. 2015; no'61344.

60. L. Weizman, Y.C. Eldar and D. Ben Bashat
Compressed sensing for longitudinal MRI: An adaptive-weighted approach
Medical Physics, 2015, 42 5195; doi: 10.1118/1.4928148.

61. G. Zimmerman-Moreno, Dafna Ben Bashat, Moran Artzi, Beatrice Nefussy, Vivian Drory, Orna Aizenstein and Hayit Greenspan.
Whole Brain Fiber Based Comparison (FBC) – a tool for Diffusion Tensor Imaging Based Cohort Studies.
Hum Brain Mapp. 2016, 37:477-490, doi: 10.1002/hbm.23043.

62. G. Liberman, Yoram Louzoun, Moran Artzi, Guy Nadav, James R. Ewing, Dafna Ben Bashat., DUSTER: Dynamic contrast enhance up-sampled temporal resolution analysis method,
Magnetic resonance Imgaing, 2016; 34(4):442-450.

63. M. Artzi, Gilad Liberman, Guy Nadav, Deborah T. Blumenthal, Felix Bokstein, Orna Aizenstein, Dafna Ben Bashat,
Differentiation between Treatment-Related Changes and Progressive Disease in Patients with High Grade Brain Tumors using Support Vector Machine Classification based on

DCE MRI.
J. Neurooncol ,2016; 127(3):515–524.

64. M Artzi (S), Shiran IS, Weinstein M, Myersa V, Tarrasch R Schertz M, Fattal-Valevski A, Miller E, Gordon MA, Green D, Bashat D.
Cortical reorganization following injury early in life.
Neural plasticity, 2016; http://dx.doi.org/10.1155/2016/8615872.

65. Weinstein M, Ben-Sira L, Artzi M, Berger I, Marom R, Geva R, Gross-Tsur, V, Leitner Y, Ben Bashat D.
The motor and visual networks in preterm infants: An fMRI and DTI study
Brain Research, 2016; 1642:603-611.

66. Nadav G, Liberman G, Artzi M, Kiryati N, Ben Bashat D
Optimization of Two-Compartment-Exchange-Model Analysis for Dynamic Contrast-Enhanced MRI Incorporating Bolus Arrival Time
Journal of Magnetic Resonance Imaging , 2016; Jul 7. DOI: 10.1002/jmri.25362 [Epub ahead of print]

67. Artzi M*, Liberman G*, Nadav G, Blumenthal TD, Bokstein F, Aizenstein O, Ben Bashat D (*Contributed equally to this work)
Optimization of DCE-MRI protocol for the assessment of patients with brain tumors
Magn Reson Imaging. 2016 July 19.[Epub ahead of print];

B.1. Articles Accepted

B.2. CASE REPORTS

B.2. Case Reports published

1. V. Gross-Tsur, D. Ben-Bashat, R. Shalev, M. Levav, L. Ben Sira.
"Evidence of a Developmental Cerebello-Cerebral Syndrome".
Neuropsychologia, June, 44(12): 2569-2572, 2006. (IF 3.924).

2. E. Nossek, D. Ben-Bashat, M. Artzi, K. Rosenberg, I. Lichter, O. Shtern, H. Ben Ami, O. Aizenstein, E. Vlodavsky, M. Constantinescu, Z. Ram.
"The role of Advanced MR methods in the diagnosis of Cerebral Amyloidoma"
Amyloid, 16(2), 94-98, 2009. (Medicine, Research & Experimental 43/93, IF 2.115)

3. Y. Levy, D. Ben Bashat, L. Ben Sira, V. Kronfeld, V. Hendler, T.Hendler, D. Zachor.
"Abnormal white matter in language related brain tracts in non-verbal children with autism".
Int J Child Adolsc Health. Vol2 (1): 135-145, 2010.

C. CHAPTERS IN BOOKS

1. D. Ben-Bashat, L. Ben Sira, M. Graif, P. Pianka, T. Hendler, Y. Cohen, Y. Assaf.
White matter maturation from birth through adulthood: A high b value diffusion weighted imaging study. In: Structural MRI in Psychiatry, Psychiatric Neuroimaging,

V. Ng, GJ Barker, T Hendler (eds) IOS Press, Amsterdam. NATO Science Series, Life and Behavioural Sciences, Vol. 348, pp 39-43, 2003. (Proceedings, NATO Advanced Research Workshop on Psychiatric Neuroimaging, Chiavari, Italy 29/9-1/10, 2002).

2. Y. Assaf, O. Mayzel-Oreg, A. Gigi, D. Ben-Bashat, M. Graif, T. Hendler, A.D. Korczyn, T. Hendler, Y. Cohen. q-Space Diffusion Imaging in Dementia. In: The Use of New Structural Imaging Techniques, Psychiatric Neuroimaging, V. Ng, GJ Barker, T Hendler (eds) IOS Press, Amsterdam. NATO Science Series, Life and Behavioural Sciences, Vol. 348, pp 224-230, 2003. (Proceedings, NATO Advanced Research Workshop on Psychiatric Neuroimaging, Chiavari, Italy 29/9-1/10, 2002).

3. T. Hendler, Y. Yeshurun, P. Rotshtein, P. Pianka, D. Palti, T. Weizman, D. Ben-Bashat, R. Malach, U. Hadar, A. Bleich. Neuronal Sensitivity to Negative Emotional Context: Effect of Experience, In: Imaging of Anxiety and Affective Disorders, Psychiatric Neuroimaging, V. Ng, GJ Barker, T Hendler (eds) IOS Press, Amsterdam. NATO Science Series, Life and Behavioural Sciences, Vol. 348, pp 131-142, 2003, (Proceedings, NATO Advanced Research Workshop on Psychiatric Neuroimaging, Chiavari, Italy 29/9-1/10, 2002).

4. D. Ben-Bashat, Abnormal Developmental Trajectories of White Matter in Autism: The Contribution of MRI. "Autism / Book 2", ISBN 978-953-307-493- 1, 2011, InTech. A Neurodevelopmental Journey from Genes to Behaviour, Valsamma Eapen (Ed.), ISBN: 978-953-307-493-1, InTech, Available from: http://www.intechopen.com/articles/show/title/abnormal-developmental-trajectories-of-white-matter-in-autism-the-contribution-of-mri

D.2. PAPERS PRESENTED AT SCIENTIFIC MEETINGS PUBLISHED AS PROCEEDINGS

1. L. Weizman, L. Joskowicz, L. Ben-Sira, R. Precel and D. Ben-Bashat, "Automatic segmentation of optic pathway gliomas in MRI,"
Proceedings of the 17th IEEE International Symposium on Biomedical Imaging (ISBI) pp. 920-923,2010.[paper]

2. L. Weizman, L. Ben-Sira, L. Joskowicz, , R. Precel, S. Constantini and D. Ben-Bashat, "Automatic segmentation and components classification of optic pathway gliomas in MRI,"

   T. Jiang et. al. (Eds.): MICCAI 2010, Part I, Springer LNCS 6361, pp. 103-110, 2010. (Presented as oral presentation in MICCAI 2010).[paper]

3. L. Weizman, L. Joskowicz, L. Ben-Sira, B. Shofty, S. Constantini and D. Ben-Bashat(PI)

   "Longitudinal assessment of brain tumors using a repeatable prior-based segmentation,"

   Proceedings of the 18th IEEE International Symposium on Biomedical Imaging (ISBI) pp, 1733-1736, 2011. [paper]

4. L. Weizman, L. Hoch, L. Ben-Sira, L. pratt, L. Joskowicz, S. Constantini and D. Ben-Bashat, "Plexiform neurofibroma tissue classification"

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D.3. ABSTRACTS

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H. Member of Editorial Board/ Reviewer (International Journals)

2013-present Member of Editorial Board, World Journal of Radiology.