**January 17, 2024**

# TECHNION – RUTH & BRUCE RAPPAPORT FACULTY OF MEDICINE
# RESUME

## 1. PERSONAL DETAILS

**Muhammad Mahajnah**

Identification number: 5894096-6

Date and place of birth: November 30, 1964; Israel

Marital status: married + 4

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## 2. ACADEMIC DEGREES

1997 PhD, Respiratory Physiology, Department of Physiology, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

1991 MD (*cum laude*), Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel,

1999 Health services administration, Haifa university, Haifa , Israel

## 3. ACADEMIC APPOINTMENTS

2019 to present Clinical Associated Professor, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2013 to 2019 Clinical Assistant Professor, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2008 – 2013 Clinical Lecturer, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2006 – 2008 Clinical Instructor, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

1991 – 1994 Teaching Staff Assistant, Rappaport Faculty of Medicine, Technion-Israel Institute of technology, Haifa, Israel

## 4. PROFESSIONAL EXPERIENCE

2017 to present Medical director of pediatric neurology and child development services Hadera and Carmel region, Meuhedet Health Services

2015 to present Senior consultant in pediatric neurology and child development, Meuhedet Health Services

2008 to present Head, Pediatric Neurology and Child Development Institute, Hillel Yaffe Medical Center, Hadera, Israel

2010 to 2018 Senior consultant in pediatric neurology and child development, Maccabi Health Services

2005 – 2007 Pediatric Neurodevelopmental and Degenerative Diseases, Pediatric Research and Electron Microscopy Unit, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Supervisor: Prof. T.C. Iancu.

2002 – 2012 Senior staff and consultant in pediatric neurology, Department of Pediatrics, Carmel Medical Center, Haifa, Israel

2001 – 2012 Senior staff and consultant in pediatric neurology, Clalit Health Services, Child Neurology and Developmental Center, Haifa, Israel

2000 to present Senior consultant in pediatric neurology and child development, Clalit Health Services

2000 to present Director, Child Neurology and Developmental Center, Um El Fahem, Israel

2000 – 2002 Residency, Department of Neurology, Schneider Children's Medical Center of Israel, Petach Tikva

1997 – 2000 Director, Kupat Holim Child Health Center, Um El Fahem, Sharon – Shomron District of Clalit Health Services

1996 Guest research fellowship, Northwestern University, Chicago, Illinois, USA

1991 – 1996 Residency, Department of Pediatrics and Neonatology, Carmel Medical Center, Haifa, Israel

1990 – 1991 Internship, Rambam Medical Center, Haifa, Israel

## 5. RESEARCH INTERESTS

- Pediatric neurodevelopmental and degenerative diseases
- Pediatric neurometabolic and neurogenetic diseases
- Pediatric neurobehavioral disorders
- Pediatric neurology and child development disorders epidemiology

## 6. TEACHING EXPERIENCE

1994 – 1996 Assistant lecturer, Physiology and Biophysics , 2nd- and 3rd-year medical students, Department of Physiology and Biophysics, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2004 – 2008 Lecturer, Pediatric Neurology and Pediatrics course, undergraduate and post-graduate students, residents, pediatricians and family practitioners, Department of Pediatrics, Carmel Medical Center, and Clalit Health Services, Haifa district, Israel

2005 to present Invited lecturer, Pediatric Neurology course, 3rd-year occupational therapy students, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology and University of Haifa, Haifa, Israel

2007 to present Lecturer, Pediatric Medicine course, 4th, 5th- and 6th-year medical students (clinical clerkship), Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Pediatric Department, Hillel Yaffe Medical Center, Hadera, Israel

2007 to present Lecturer, Respiratory Physiology course, 3rd year medical students, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2007 – present Lecturer, Respiratory Physiology course, 2nd-year nursing students, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology and University of Haifa, Haifa, Israel

## 7. FACULTY ACTIVITIES

2016 to present Referee of MD theses

2010 to present Participation on committees preparing exams in Pediatrics and Pediatric Neurology

## 8. PUBLIC PROFESSIONAL ACTIVITIES

2018 to present Member of the Society for Health Promotion of the Arab Community in Israel Committee, Israeli Medical Association

2018 to present Member of the Israeli Society for Developmental Pediatrics Committee, Israeli Medical Association

2013 to present Member of the Helsinki Committee, Hillel Yaffe Medical Center, Hadera, Israel

2003 to present Pediatric Neurology and Child Development residency board examiner

2000 – 2008 Head of the Local Committee of the Social and Welfare Services, Um El Fahem, Israel

1998 – 2003 Head of the Local Committee of Public Health and Special Education, Um El Fahem, Israel

## 9. MEMBERSHIP IN PROFESSIONAL SOCIETIES

**INTERNATIONAL**

European Pediatric Neurology Society

International Child Neurology Association

**NATIONAL**

Israeli Association of Clinical Pediatrics

Israeli Association of Child Development

Israeli Association of Pediatric Neurology

Israeli Medical Association

Society for Health Promotion of the Arab Community in Israel, Israeli Medical Association
Member of the committee of the Israeli society for developmental pediatrics

## 10. AWARDS AND HONORS

2006 Outstanding basic science work: morbidity of neurological and developmental disorders among Arab population in Israel

2009 Outstanding Lecturer, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2013 Outstanding Director, Hillel Yaffe Medical Center, Hadera, Israel

2019 Outstanding Lecturer, Ruth & Bruce Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2020 Outstanding Lecturer, Ruth & Bruce Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2021 Outstanding Lecturer, Ruth & Bruce Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

## 11. GRADUATE STUDENTS

### Completed MD Theses

2017 A. Mais, Coping and parental stress of parents of children with autism. Primary supervisor: M. Mahajnah

2018 **N**. Shurbaji, The clinical profile of ADHD – impact of ethnic and social diversities in Israel. Primary supervisor: M. Mahajnah

2021 H. Marisat, Comparison of neurocognitive outcomes in children with Pseudotumor Pseudotumor cerebri syndrome. Primary Supervisors: M. Mahajnah

2022 Y. Dawood, Pseudotumor cerebri syndrome – from childhood to adulthood risk factors and clinical presentation. Supervisors: M. Mahajnah and J. Genizi

### MD Theses in Progress

2021 S. Abed Elkareem, Long-term follow-up of children suffering from Pseudotumor cerebri syndrome – from childhood to adulthood
Supervisors: M. Mahajnah and J. Genizi

**Completed Basic Science Theses**

2006 K. Keal, Morbidity of neurological and developmental disorders among Arab population in Israel. Primary supervisor: M. Mahajnah, Co-supervisor: Dr. N. Zelnick, Carmel Medical Center

2010 Z. She, Prevalence of familial Mediterranean Fever Disease in northern Israel population. Primary supervisor: M Mahajnah Co-supervisor: Prof. Fouad Fares, Carmel Medical Center

2012 I. Magadly, The efficacy and safety of intra venous Valproate for treatment of childhood epilepsy. Primary supervisor: M. Mahajnah

2014 Y. Kesler, Comparison of administrative functions in children with ADHD who are treated with medication and children who also treated by improvement their learning strategies. Primary supervisor: M. Mahajnah

2014 H. Shalabe, Clinical manifestation and comorbidity in patients with autism and comparison among different ethnic groups of the population. Primary supervisor: M. Mahajnah

2015 R. Abramovich, The long-term neurologic and developmental outcome of children with a history of prematurity and grade I and grade II intraventricular hemorrhage. Primary supervisor: M. Mahajnah

2017 A. Suchi, The cognitive outcome of children with a history of idiopathic intracranial hypertension (pseudo tumor cerebri). Primary supervisor: M. Mahajnah

2020 W. Jamool, Large-scale population carrier screening for spinal muscular atrophy in Israel. Primary supervisor: M. Mahajnah

**Completed MSC Thesis**

2006 Olfat Abo Lel, The genetics of deafness among the Druze community in northern Israel. Primary supervisor: M. Mahajnah, Co-supervisor: Prof. Fouad Fares, Carmel Medical Center

2021 Netta Guita, Coping and parental stress of parents of children with autism, the effect of social and demographic factors. Primary supervisor: M. Mahajnah, Co-supervisor: Dr. Michael Weinberg, University of Haifa

## 12. RESEARCH GRANTS

**Competitive**

2019 The Israeli Society of Clinical Pediatrics, 10000 NIS. Cytokines in pediatric idiopathic intracranial hypertension CSF. PI: J. Genizi, Co-investigator: M. Mahajnah.

2020 Triangle Regional Research and Development Center, Kfar Qara, Israel, 10000 NIS. Cytokines in pediatric idiopathic intracranial hypertension CSF. PI: J. Genizi, Co-investigator: M. Mahajnah.

2010 – 2012 DFG Trilateral Cooperation Project grant, 350,000 Euro, Genetic disorders in Arab societies of Israel and the Palestinian Authority. PI: Prof. Ludger Schols, University of Tubingen, Hertie Institute, Germany, Co-investigator: M. Mahajnah

2013 – 2016 DFG Trilateral Cooperation Project grant, 350,000 Euro, Genetic disorders in Arab societies of Israel and the Palestinian Authority. PI: Prof. Ludger Schols, University of Tubingen, Hertie Institute, Germany, Co-investigator: M. Mahajnah

2012 Israel Mitochondrial Diseases Support Group Ori Levi Foundation, 20,000 NIS, Mitochondrial disorder in Israeli families. PI: Prof. Azem Abdussalam, Faculty of Life Sciences, Department of Biochemistry, Tel Aviv University, Co-investigator: M. Mahajnah

2013 Triangle Regional Research and Development Center, Kfar Qara, Israel, 20,000 NIS. Clinical characteristics of autism spectrum disorder in Israel - impact of ethnic and social diversities. PI: M. Mahajnah, Co-investigator: Dr. Michael Weinberg, Faculty of Social Welfare and Health Sciences, University of Haifa

## 13. PUBLICATIONS

### 13.1 Theses

1997 DSc: The acoustic properties of the respiratory system. Department of Physiology, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

### 13.2 Refereed Papers in Professional Journals

**BASIC RESEARCH**

1. **Mahajna M**, Gavriely N. Repeatability of measurement of normal lung sound. Am J Respir Crit Care Med 1994; 149:477-481.
2. **Mahajna M**, Gavriely N. Gas density does not affect pulmonary acoustic transmission in normal men. J Appl Physiol 1995; 78:928-937.
3. Iancu TC, **Mahajnah M**, Manov I, Shaoul R. Microvillous inclusion disease: ultrastructural variability. Ultrastruct Pathol. 2007 May-Jun; 31(3):173-188.
4. Iancu TC, **Mahajnah M**, Manov I, Cherurg S, Knopf C, Mandel H. The liver in congenital disorders of glycosylation: ultrastructural features. Ultrastruct Pathol. 2007 May-Jun; 31(3):189-197.

**CLINICAL RESEARCH**

1. **Mahajnah M**, Zimmerman S, Weitz R. Specific learning and cognitive deficits in neurofibromatosis type 1. Harefuah 2001; 140:334-336.
2. Basel-Vanagaite L, Alkelai A, Strausberg R, Magal N, Inbar D, **Mahajnah M**, Shohat M. Mapping of a new locus for autosomal recessive non-syndromic mental retardation in the chromosomal region 19p13.2: further genetic heterogeneity. J Med Genet 2003; 40:729-732.
3. Strausberg R, Basel-Vanagaite, Kivity S, Dabby R, Cirak S, Nurnberg P, Voit T, **Mahajnah M**, Inbar D, Saifi GM, Lupski JR, Delague V, Megarbane A, Richter A, Leshinsky E, Berkovic SF. An autosomal recessive cerebellar ataxia syndrome with upward gaze palsy, neuropathy, and seizures. Neurology 2005; 64:42-44.
4. **Mahajnah M**, Basel-Vanagaite L, Inbar D, Weitz R, Straussberg R. Familial cognitive impairment with ataxia and ocular motor apraxia. J Child Neurol 2005; 20: 523-525.

5. Genizi J, Lahat E, Zelnik N, **Mahajnah M**, Ravid S, Shahar E. Childhood-onset idiopathic intracranial hypertension: relation of sex and obesity. Pediatr Neurol. 2007 Apr; 36(4):247-249.
6. Zelnik N, **Mahajnah M**, Iancu TC, Sharony R, Zeigler M. A novel mutation of the CLN8 gene: is there a Mediterranean phenotype? Pediatr Neurol. 2007 Jun; 36(6):411-413.
7. Shahar E, Kramer U, **Mahajnah M**, Lerman-Sagie T, Goez R, Gross V, Kutai M, Geniz Onset gelastic seizures: clinical data and outcome Pediatr Neurol. 2007 Jul; 37(1):29-34.
8. **Mahajnah M**, Steinmets A, Heutink P, Breedveld GJ, Straussberg R. Benign hereditary chorea: clinical, neuroimaging and genetic findings. J Child Neurol. 2007 Oct; 22(10):1231-1234.
9. Gothelf D, Aviram-Goldring A, Burg M, Steinberg T, **Mahajnah M**, Frisch A, Fennig S, Zalsman G, Weizman A. Cognition, psychosocial adjustment and coping in familial cases of velocardiofacial syndrome. Neural Transm. 2007 Nov; 114(11):1495-1501.
10. Masalha R, Afawi Z, **Mahajnah M,** Mashal A, Hallak M, Alsaied I, Bolotin A, Ifergan G, Wirguin I. Impact of dietary vitamin B12 deficiency on school performance. Journal of Pediatric Neurology 2008; 6(3): 243-248
11. Afawi Z, Abu-Hammad T, Shorar Z, Grotto I, and **Mahajnah M**. Prevalence of epilepsy in Bedouin children: a cross-sectional study in southern Israel. Journal of Pediatric Neurology 2008 Jan; 6(2): 139-143 .
12. Shimony A, Afawi Z, Asher T, **Mahajnah M**, Shorer Z. Epidemiological characteristics of febrile seizures – comparing between Bedouin and Jews in the southern part of Israel. Seizure 2009 Jan; 18(1):26-29. Epub 2008 Jul 1.
13. Mochida GH, **Mahajnah M**, Hill AD, Basel-Vanagaite L, Gleason D, Hill RS, Bodell A, Crosier M, Straussberg R, Walsh CA. A truncating mutation of TRAPPC9 is associated with autosomal-recessive intellectual disability and postnatal microcephaly. Am J Hum Genet. 2009 Dec; 85(6):897-902.
14. Masalha R, Kordysh E, Alpert G, Hallak M, Morad M, **Mahajnah M**, Farkas P, Herishanu Y. The prevalence of Parkinson's disease in an Arab population, Wadi Ara, Israel. Isr Med Assoc J. Jan 2010; 12(1):32-35.

15. Sharkia R, Azem A, Kaiyal Q, Zelnik N**, Mahajnah M**. Mental retardation and consanguinity in a selected region of the Israeli Arab community. Cent Eur J Med 2010; 5(1):91-96.
16. Spiegel R, Pines O, Ta-Shma A, Burak E, Shaag A, Halvardson J, Edvardson S, **Mahajna M**, Zenvirt S, Saada A, Shalev S, Feuk L, Elpeleg O. Infantile cerebellar-retinal degeneration associated with a mutation in mitochondrial aconitase, ACO2. Am J Hum Genet. 2012 Mar 9; 90(3):518-523.
17. Yang YJ, Baltus AE, Mathew RS, Murphy EA, Evrony GD, Gonzalez DM, Wang EP, Marshall-Walker CA, Barry BJ, Murn J, Tatarakis A, Mahajan MA, Samuels HH, Shi Y, Golden JA, **Mahajnah M**, Shenhav R, Walsh CA. Microcephaly gene links Trithorax and REST/NRSF to control neural stem cell proliferation and differentiation. Cell. 2012 Nov 21;151(5):1097-1112.
18. **Mahajnah M**, Phenotypic heterogeneity in consanguineous patients with a common CLN8 mutation. Pediatr Neurol. 2012 Oct; 47(4):303-305.
19. **Mahajnah M***, Abu Rashid M*, Jaber L, Kornreich L, Bar On E, Basel-Vanagaite L, Soffer D, Koenin M, Straussberg R. A novel mutation in the GAN gene causes an intermediate form of giant axonal neuropathy in an Arab – Israeli family. Eur J Paediatr Neurol. 2013 May; 17(3):259-264.
20. **Mahajnah M**, Sharkia R, Zalan A, Athamna M, Azem A, Badarneh K, Comparative screening of FMF mutations in various communities of the Israeli society. Eur J Med Genet. 2013 Jul; 56(7):351-5. doi: 10.1016/j.ejmg.2013.04.002. Epub 2013 Apr 18.
21. Mallaret M, Synofzik M, Lee J, Sagum CA, **Mahajnah M**, Sharkia R, Drouot N, Renaud M, Klein FA, Anheim M, Tranchant C, Mignot C, Mandel JL, Bedford M, Bauer P, Salih MA, Schüle R, Schöls L, Aldaz CM, Koenig M. The tumor suppressor gene WWOX is mutated in autosomal recessive cerebellar ataxia with epilepsy and mental retardation. Brain 2014 Feb; 137(Pt 2):411-9. doi: 10.1093/brain/awt338. Epub 2013 Dec 24.
22. Watemberg N, Matar M, Har-Gil M, **Mahajnah M**. The influence of excessive chewing gum use on headache frequency and severity among adolescents. Pediatr

Neurol. 2014 Jan; 50(1):69-72. doi: 10.1016/j.pediatrneurol.2013.08.015. Epub 2013 Nov 1.

23. **Mahajnah M**, Sharkia R, Shalabe H , Terkel-Dawer R, Akawi A and Zelnik N. Clinical characteristics of autism spectrum disorder in Israel – impact of ethnic and social diversities. Biomed Res Int. 2015; 962093.
24. **Mahajnah M**, Abu-Rashid M, Lerman-Sagie T, Goikhman I and Zelnik N. Alexander Disease in Israel – megalencephaly and leukoencephalopathy and its differential diagnosis. Journal of Pediatric Neurology 2015 Aug; 13(3): 121-125
25. Mayer AK, **Mahajnah M**, Zobor D, Bonin M, Sharkia R, Wissinge B. Novel homozygous large deletion including the 5′ part of the *SPATA7* gene in a consanguineous Israeli Muslim Arab family. Molecular Vision 2015; 21:306-315.
26. Sharkia R**, Mahajnah M**, Athamny E, Khatib M, Sheikh-Muhammad A, Zalan A. Changes in marriage patterns among the Arab community in Israel over a 60-year period. J Biosoc Sci. 2015 May; 22:1-5.
27. Sharkia R, **Mahajnah M**, Athamna M, Sheikh-Muhammad M, Zalan A. Variations in types of first-cousin marriages over a two-generation period among Arabs in Israel. Advances in Anthropology 2015; 5:171-176.
28. Afawi Z, Oliver KL, Kivity S, Mazarib A, Blatt I, Neufeld MY, Helbig KL, Goldberg-Stern H, Misk AJ, Straussberg R, Walid S, **Mahajnah M**, Lerman-Sagie T, Ben-Zeev B, Kahana E, Masalha R, Kramer U, Ekstein D, Shorer Z, Wallace RH, Mangelsdorf M, MacPherson JN, Carvill GL, Mefford HC, Jackson GD, Scheffer IE, Bahlo M, Gecz J, Heron SE, Corbett M, Mulley JC, Dibbens LM, Korczyn AD, Berkovic SF. Multiplex families with epilepsy: success of clinical and molecular genetic characterization. Neurology. 2016 Feb 23; 86(8):713-722.
29. **Mahajnah M**, Sharkia R, Shurbaji N, Zelnik N. The clinical profile of ADHD – impact of ethnic and social diversities in Israel. IMAJ 2016 June; 18:322-325.
30. **Mahajnah M**, Corderio D, Austin V, Herd S, Mutch C, Carte M, Struys E, Mercimek-Mahmutoglu S. A prospective case study of the safety and efficacy of lysine restricted diet and arginine supplementation therapy in a patient with pyridoxine-dependent epilepsy caused by mutations in *ALDH7A1*. Pediatr Neurol. 2016 Jul; 60:60-65.
31. Kurolap A, Armbruster A, Hershkovitz T, Hauf K, Mory A, Paperna T, Hannappel E, Tal G, Nijem Y, Sella E, **Mahajnah M**, Ilivitzki A, Hershkovitz D, Ekhilevitch N, Mandel H, Eulenburg V, Baris HN. Loss of glycine transporter 1 causes a subtype of

glycine encephalopathy with arthrogryposis and mildly elevated cerebrospinal fluid glycine. Am J Hum Genet. 2016 Nov 3; 99(5):1172-1180.

32. **Mahajnah M**, Sharkia R, Terkel-Dawer R, Zelnik N. The clinical characteristics of attention deficit hyperactivity disorder diagnosed in adolescents in comparison to younger children. J Atten Disord. 2017 Mar 1:1087054717696768. doi: 10.1177/1087054717696768.
33. Hengel H*, Magee A*, **Mahanjah M***, Vallat JM, Ouvrier R, Abu-Rashid M, Mahamid J, Schüle R, Schulze M, Krägeloh-Mann I, Bauer P, Züchner S, Sharkia R, Schöls L. CNTNAP1 mutations cause CNS hypomyelination and neuropathy with or without arthrogryposis. Neurol Genet. 2017 Mar 22; 3(2):e144.
34. Minnerop M, Kurzwelly D, Wagner H, Soehn AS, Reichbauer J, Tao F, Rattay TW, Peitz M, Rehbach K, Giorgetti A, Pyle A, Thiele H, Altmüller J, Timmann D, Karaca I, Lennarz M, Baets J, Hengel H, Synofzik M, Atasu B, Feely S, Kennerson M, Stendel C, Lindig T, Gonzalez MA, Stirnberg R, Sturm M, Roeske S, Jung J, Bauer P, Lohmann E, Herms S, Heilmann-Heimbach S, Nicholson G, **Mahanjah M**, Sharkia R, Carloni P, Brüstle O, Klopstock T, Mathews KD, Shy ME, de Jonghe P, Chinnery PF, Horvath R, Kohlhase J, Schmitt, Wolf M, Greschus S, Amunts K, Maier W, Schöls L, Nürnberg P, Zuchner S Klockgether T, Ramirez A, Schüle R. Hypomorphic mutations in POLR3A are a frequent cause of sporadic and recessive spastic ataxia**.** Brain 2017 Jun 1; 140(6):1561-1578. doi: 10.1093/brain/awx095.
35. Sharkia R, **Mahajnah M**, Sheikh-Muhammad A, Khatib M, Zalan A. Trends in the prevalence of type 2 diabetes mellitus among Arabs in Israel: a community health survey. Global Advanced Research Journal of Medicine and Medical Sciences 2018 Apr; 7(4):98-104.
36. Watemberg N, Afunevitz S, Ganelin-Cohen E, **Mahajnah M**. Clinical features at the time of diagnosis of benign epilepsy with Centro temporal spikes do not predict subsequent seizures. Pediatr Neurol. 2018 Nov;88:36-39. doi: 10.1016/j.pediatrneurol. 2018.08.024. Epub 2018 Sep 5
37. Sharkia R, Wierenga KJ, Kessel A, Azem A, Bertini E, Carrozzo R, Torraco A, Goffrini P, Berti CC, McCormick ME, Plecko B, Klein A, Abela L, Hengel H, Schöls L, Shalev S, Khayat M, **Mahajnah M**, Spiegel R. Clinical, radiological, and genetic characteristics of 16 patients with ACO2 gene defects: Delineation of an emerging

neurometabolic syndrome. J Inherit Metab Dis. 2018 Dec 27. doi: 10.1002/jimd.12022.

38. Malay Patra, Celeste Weiss, Bassam Abu-Libdeh*, Motee Ashhab, Shadi Abu-Zer, Orly Elpeleg*, **Muhammad Mahajnah**, Abdussalam Azem*. A novel variant of the human mitochondrial DnaJ protein, Tid1, associates with a human disease exhibiting developmental delay and polyneuropathy. Eur J Hum Genet. 2019 Feb 15. doi: 10.1038/s41431-019-0358-9.
39. Sharkia R, Sheikh-Muhammad A, **Mahajnah M**, Khatib M, Zalan A. Exploration of Risk Factors for Type 2 Diabetes among Arabs in Israel. Ann Glob Health. 2019 May 10;85(1). pii: 67. doi: 10.5334/aogh.2350.
40. Anja K. Mayer*, **Muhammad Mahajnah***, Mervyn G. Thomas*, Yuval Cohen, Adib Habib, Martin Schulze, Gail Maconachie, Basamat AlMoallem, Elfride De Baere, Birgit Lorenz, Elias I. Traboulsi, Susanne Kohl, Abdussala Azem, Peter Bauer, Irene Gottlob4, Rajech Sharkia*, Bernd Wissinger*. Homozygous stop mutation in AHR causes autosomal recessive foveal hypoplasis and infantile nystagmus. Brain. 2019 Jun 1;142(6):1528-1534. doi: 10.1093/brain/awz098.
41. Sharkia R, Zalan A, Jabareen-Masri A, Hengel H, Schöls L, Kessel A, Azem A, **Mahajnah M**. A novel biallelic loss-of-function mutation in TMCO1 gene confirming and expanding the phenotype spectrum of cerebro-facio-thoracic dysplasia.Am J Med Genet A. 2019 Jul;179(7):1338-1345. doi: 10.1002/ajmg.a.61168. Epub 2019 May 18.

42. **Muhammad Mahajnah**, Jacob Genizi, Hazar Zahalka, Ronza Andreus , Nathanel Zelnik**.** Pseudotumor Cerebri Syndrome – from Childhood to Adulthood Risk Factors and Clinical Presentation. J Child Neurol . 2020 Apr;35(5):311-316. doi: 10.1177/0883073819895179. Epub 2020 Jan 13.
43. Anja K. Mayer, Ghassan Balousha, Rajech Sharkia, **Muhammad Mahajnah**, Suhail Ayesh, Martin Schulze, Rebecca Buchert, Ditta Zobor. Abdussalam Azem, Ludger Schöls, Peter Bauer. Unraveling the genetic cause of hereditary ophthalmic disorders in Arab societies from Israel and the Palestinian Authority. Eur J Hum Genet. 2020 Jan 2. doi: 10.1038/s41431-019-0566-3

44. Holger Hengel1, Rebecca Buchert, Marc Sturm, Tobias B. Haack, Yvonne Schelling, **Muhammad Mahajnah**, Rajech Sharkia, Abdussalam Azem, Ghassan Balousha, Zaid Ghanem, Mohammed Falana, Osama Balousha, Suhail Ayesh, Reinhard Keimer, Werner Deigendesch, Jimmy Zaidan, Hiyam Marzouqa, Peter Bauer, Ludger Schöls. First-line exome sequencing in Palestinian and Israeli Arabs with neurological disorders is efficient and facilitates diseasegene discovery. Eur J Hum Genet . 2020 Mar 25. doi: 10.1038/s41431-020-0609-9.

45. Tal Rozenblat , Dror Kraus , **Muhammad Mahajnah** , Hadassah Goldberg-Stern, Nathan Watemberg. Absence seizure provocation during routine EEG: Does position of the child during hyperventilation affect the diagnostic yield?. Seizure. 2020 Jul;79:86-89. doi: 10.1016/j.seizure.2020.03.013.

46. Michael Weinberg, Neta Gueta, Jacob Weinberg, Mays Abu Much, Ashraf Akawi, Rajech Sharkia and **Muhammad Mahajnah**. The relationship between parental stress and mastery, forgiveness, and social support among parents of children with autism**.** Research in Autism Spectrum Disorders Volume 81, March 2021, 101712**.**

47. Daniel J Steinberg, Srinivasarao Repudi, Afifa Saleem, Irina Kustanovich, Sergey Viukov, Baraa Abudiab, Ehud Banne, **Muhammad Mahajnah**, Jacob H Hanna, Shani Stern, Peter L Carlen, and Rami I Aqeilan. Modeling genetic epileptic encephalopathies using brain organoids. EMBO Mol Med. 2021 Aug 9; 13(8): e13610

48. Abdelnaser Zalan, Mohammad Khatib, Ahmad Sheikh Muhammad, **Muhammad Mahajnah**, Rajech Sharkia. Consanguinity Status in the Arab Society of Israel: Is it Different? Am J Biomed Sci & Res. 2021 - 15(1). AJBSR.MS.ID.002071.

49. Rajech Sharkia, Mohammad Khatib, Ahmad Sheikh-Muhammad, **Muhammad Mahajnah** and Abdelnaser Zalan. The prevailing trend of consanguinity in the Arab society of Israel: is it still a challenge?. J Biosoc Sci 2021 Dec 6;1-5.doi: 10.1017/S0021932021000675

50. Holger Hengel1, Rebecca Buchert, Marc Sturm, Tobias B. Haack, Yvonne Schelling, **Muhammad Mahajnah**, Rajech Sharkia, Abdussalam Azem, Ghassan Balousha, Zaid

Ghanem, Mohammed Falana, Osama Baloushа, Suhail Ayesh, Reinhard Keimer, Werner Deigendesch, Jimmy Zaidan, Hiyam Marzouqa, Peter Bauer, Ludger Schöls. Correction to: First-line exome sequencing in Palestinian and Israeli Arabs with neurological disorders is efficient and facilitates disease gene discovery. Eur J Hum Genet . Eur J Hum Genet. 2022 Feb; 30(2): 248.

51. **Muhammad Mahajnah** , Ariel T Suchi, Hazar Zahakah, Rajech Sharkia, Shaden R Shuhaiber, Isaac Srugo, Jacob Genizi. Multidomain Cognitive Impairment in Children With Pseudotumor Cerebri Syndrome. Journal of Neuro-Ophthalmology, Volume 42, Number 1, 21 March 2022, pp. e93-e98(6).

52. CLN8 Gene Compound Heterozygous Variants: A New Case and Protein Bioinformatics Analyses
Rajech Sharkia, Abdelnaser Zalan, Hazar Zahalka, Amit Kessel, Ayman Asaly, Wasif Al-Shareef, **Muhammad Mahajnah**. Genes (Basel) 2022 Aug; 13(8): 1393. Published online 2022 Aug 5. doi: 10.3390/genes13081393
PMCID: PMC9407845

53. Effect of Women's Status on Consanguinity in the Arab Society of Israel
Abdelnaser Zalan1*, Mohammad Khatib2, Ahmad Sheikh Muhammad2, **Muhammad Mahajnah 3,4**, Esmael Atamany1, Rajech Sharkia1,5 . Advances in Anthropology, August 2022.
DOI: 10.4236/aa.2022.123011

54. The prevailing trend of consanguinity in the Arab society of Israel: is it still a challenge?
Sharkia R, Khatib M, Sheikh-Muhammad A, **Mahajnah M**, Zalan A.J Biosoc Sci. 2023 Jan;55(1):169-173. doi: 10.1017/S0021932021000675. Epub 2021 Dec 6.PMID: 34866563

55. High CCL2 Levels Detected in CSF of Patients with Pediatric Pseudotumor Cerebri Syndrome. Jacob Genizi,1,2,* Lotan Berger,1 **Muhammad Mahajnah**,2,3 Yulia Shlonsky,4 Orit Golan-Shany,4 Azriel Romem,1 Ayelet Halevy,5 Keren Nathan,1 Rajech Sharkia,6,7 Abdelnaser Zalan,7 Aharon Kessel,2,8 and Rony Cohen.

56. *PTRH2* Gene Variants: Recent Review of the Phenotypic Features and Their Bioinformatics Analysis

Rajech Sharkia[1,2], Sahil Jain[3], Muhammad Mahajnah[4,5], Clair Habib[6], Abdussalam Azem[3], Wasif Al-Shareef[1], Abdelnaser Zalan. Genes (Basel) .2023 Apr 30;14(5):1031. doi: 10.3390/genes14051031

**CASE REPORTS**

1. **Mahajnah M**, Sharkia R, Zalan A, Sourlis C, Bauer P, Schöls L. Sanfilippo type A: new clinical manifestations and neuro-imaging findings in patients from the same family in Israel: a case report. J Med Case Rep. 2014 Feb 28; 8:78. doi: 10.1186/1752-1947-8-78.
2. Sharkia R, Hengel H, Schöls L, Athamna M, Bauer P, **Mahajnah M**. Parental mosaicism in another case of Dravet syndrome caused by a novel SCN1A deletion: a case report. J Med Case Rep. 2016 Mar 29; 10(1):67.
3. **Mahajnah M**, Azem A, Zelnik N, Sharkia R. PTRH2 gene mutation causes progressive sensorineural deafness and peripheral neuropathy. Am J Med Genet A. 2017 Apr; 173(4):1051-1055. doi: 10.1002/ajmg.a.38140.
4. Hochberg A, Foldi S, Nadir E, Shreter R, **Mahajnah M**, Feldman M. Seizures and rashes do run in the family. DOI: 10.1542/neo.18-1-e63NeoReviews 2017; 18; e63.
5. Sharkia R, Zalan A, Jabareen-Masri A, Zahalka H, **Mahajnah M**. A new case confirming and expanding the phenotype spectrum of ADAT3-related intellectual disability syndrome. Eur J Med Genet. 2018 Oct 6. pii: S1769-7212(18)30574-3. doi: 10.1016/j.ejmg.2018.10.001

**Letter to Editor**

1. Genizi J, **Mahajnah M**. Pseudotumor Cerebri Syndrome in Young Children: What Is the Difference From Adults? J Child Neurol. 2020 Jul 7:883073820935727. doi: 10.1177/0883073820935727

**13.3 Book Chapters**

1. Sharkia R, Athamny E, Khatib M, Sheikh-Muhammad A, Azem A, **Mahajnah M**. Consanguinity and Its Effect on Morbidity and Congenital disorders among Arabs in

Israel. In: Human Genetic Diseases, Dijana Plaseska-Karanfilska (ed.), 2011. ISBN: 978-953-307-936-3, InTech, Available from: http://www.intechopen.com/articles/show/title/consanguinity-and-its-effect-on-morbidity-and-congenital-disorders-among-arabs-in-israel

## 14. CONFERENCES

### 14.1 Plenary, Keynote or Invited Talks

**INTERNATIONAL**

1. Genetic and metabolic aspects of autism. 17th Congress of Child Neurologists of Mediterranean, Piran, Slovenia, September 14-17, 2011 (invited).
2. Genetic microcephalus. 4th Annual World Congress of Neuro-Talk. Xi'an, China, May 23-25, 2013 (invited).
3. Genetic of microcephalus. 19th Congress of Child Neurologists of Mediterranean, Budva, Montenegro, October 16-19, 2013 (plenary).
4. Clinical characteristics of autism spectrum disorder in Israel – impact of ethnic and social diversities. 20th Congress of Child Neurologists of Mediterranean, Montpelier, France, September 5, 2014 (plenary).
5. The role of molecular genetic analysis in the evaluation of children with neurodevelopmental disorders in a community with high consanguinity rate. Boston Children Hospital Meeting, Harvard Medical School, Boston, USA, July 20, 2015 (invited).
6. New forms of genetic ataxia. Hospital of Sick Children Meeting, Toronto, Canada, August 18,2015 (invited).
7. The clinical phenotype and heterogeneity of homozygous mutation in *PTRH2* gene. 27th Euro-Global Neurologists Meeting, Moscow, Russia, July 23-25, 2018 (invited).
8. ADHD CO-Morbidity. The First Franco – Arab – Israeli Conference of Mother and Child Health, October 30-31, 2019, Ramada Hotel Nazareth (Invited lecture).

**NATIONAL**

1. Lysosomal storage diseases, diagnosis and treatment update. 5th Conference on the Health of the Arab Population in Israel in the Time Axis, Nazareth, November 23, 2011 (plenary).
2. The importance of early diagnosis of neuro-metabolic and neuro-genetic disease. Hillel Yaffe Medical Center Conference, Metabolic Diseases, Hadera, January 11, 2012 (plenary).
3. Medical aspects and co-morbidity in children with autism spectrum disorder. Hillel Yaffe Medical Center Conference, Updates in Medical and Therapeutic Aspects of Children with Autism Disorder, Hadera, February 23, 2012 (plenary).
4. Genetic of autism. 6th Conference on the Health of the Arab Population in Israel in the Time Axis, Nazareth, September 5, 2012 (plenary).
5. The MPS diseases, the importance of early diagnosis and treatment. 2nd Nazareth Conference of Family Physician and Pediatricians, Nazareth, January 10, 2014 (plenary).
6. Autistic spectrum disorder: is this an epidemic? National Seminar in Educational and Therapeutic Aspects of children with Autistic Spectrum Disorder, Haifa, March 19, 2014 (plenary).
7. Autism and epigenetic: physical activity as a model. 3rd Wingate Congress of Exercise and Sport Science, Netanya, June 12-15, 2014 (invited).
8. Autistic spectrum disorder, genetics and epigenetics, is this an epidemic? Hillel Yaffe Medical Center Conference, Innovations and Updates in Neurology and Child Development, Hadera, June 17, 2014 (plenary).
9. The neurologic basis of learning disabilities. Sakhnin College Conference, Learning Disabilities in Interdisciplinary Vision, Sakhnin College, February 21, 2016 (plenary).
10. Epidemiology of autism in the Arab community in Israel. Seminar for Social Workers in Social Services Departments in Arab Community: Autism, Rights and What is in Between. Haifa, April 14, 2016 (plenary).
11. Autism: neurobiological diagnosis, medical characteristics and co-morbidity. Autism Israel Conference, Ziv Medical Center, Safed, January 9, 2017 (plenary).
12. Autism in the Arab community in Israel. 11th Conference on the Health of the Arab Population in Israel in the Time Axis, Nazareth, March 21, 2018 (invited).

13. Cardiologic manifestations of pediatric neurologic diseases. Pediatric Cardiologist Meeting, Pediatric Cardiology Society, Israel medical association, Hillel Yaffe Medical Center, Hadera, May 25, 2018 (invited).
14. Approach to Diagnosis and Treatment of Pediatric Epileptic Syndromes. Conference of Pediatricians. Nazareth, July 10, 2019 (invited).
15. Update on Treatment of Neurogenetic Diseases. Innovation and Research Trends in Child Development. Hillel Yaffe Medical Center Conference, Hadera, September 10, 2019 (plenary).
16. Tools for Early Diagnosis of Hunter Synrome. The Israeli Society of Clinical Pediatrics, Herzliya, September 19-21, 2019 (invited).
17. Clinical, radiological, and genetic characteristics of 16 patients with ACO2 gene defects: Delineation of an emerging neurometabolic syndrom. The Annual Meeting of the Israel Society for Pediatric Neurology and Child Development, November 7-9, 2019, West Lagoon Netanya (Plenary)
18. Early diagnosis of lysosomal storage disease, case repors. The Annual Meeting of the Israeli Society for Developmental Pediatrics, December 19, 2019, Tel Aviv Sourasky Medical Center (Plenary).

19. Duchen muscular dystrophy, treatment update. The Israeli Society of Clinical Pediatrics, Jerusalem, 30 September – 02 October, 2021 (invited).
20. Autism in the Arab population in Israel. The 6th annual conference of the Association of Arab Physicians in the Negev. Bear Sheva 21-22 October 2021 (invited).

## 14.2 Contributed Talks and Posters

### Oral Presentations

**INTERNATIONAL**

1. **Mahajnah M**, Gavriely N. The variability of spectral content of normal lung sounds. 16th International Conference on Lung Sounds. Veruno-Arona, Italy, September 1991.
2. **Mahajnah M,** Gavriely N. Speed of sound propagation in inflated sheep lungs and normal men. 17th International Conference on Lung Sounds, Helsinki, Finland, August 1992.

3. **Mahajnah M**, Gavriely N. The changes in lung sounds spectra due to route of breathing. 18th International Conference on Lung Sounds, Lake Louise, Canada. September 1993.
4. **Mahajnah M,** Gavriely N. Gas density does not affect pulmonary acoustic transmission in normal men. 19th International Conference on Lung Sounds, Haifa, Israel, September 1994.
5. **Mahajnah M**. A novel mutation of the CLN8 gene: is there a Mediterranean phenotype. 17th Congress of Child Neurologists of Mediterranean, Piran, Slovenia, September 14-17, 2011.
6. **Mahajnah M**, Shalabi H, Terkel-Dawer R, Zelnik N. Clinical characteristics of autism spectrum disorder in Israel - impact of ethnic and social diversities. 1st Canada-Israel Autism Spectrum Disorder (ASD) Meeting, Jerusalem, Israel, March 2-4, 2014.
7. **Mahajnah M**, Sharkia R, Hengel H, Schöls L. Role of molecular genetic analysis in the evaluation of neurodevelopmental disorders in a community with high consanguinity rate. 3rd. Pan Slavic Child Neurology Congress and 21st Congress of Child Neurologists of Mediterranean, Dubrovnik, Croatia, October 19-22, 2016.
8. **Mahajnah M**, Azem A, Zelnik N, Sharkia R, Progressive sensorineural deafness and peripheral neuropathy due to PTRH2 gene mutation. 3rd Pan Slavic Child Neurology Congress and 21st Congress of Child Neurologists of Mediterranean, Dubrovnik, Croatia, October 19-22, 2016.
9. **Mahajnah M**, Sharkia R, Hengel H, Schöls L. The role of hypomorphic mutation of POLR3A in progressive sporadic and recessive ataxia. 27th Euro-Global Neurologists Meeting, Moscow, Russia, July 23- 25, 2018.
10. **Mahajnah M**, Sharkia R, Hengel H, Schöls L First line whole exome sequencing in Palastinian and Israeli Arab patients with neurological disorders leads to high diagnostic yield and reveals new disease genes.
    The 14th Meeting of the International Conference on Rare Diseases and Orphan Drugs (ICORD), November 11-13 2019, Lago Conferences & Events Center, Rishon-Lezion, Israel.

11. **Muhammad Mahajnah**, Michael Weinberg, NetaGueta, JacobWeinberg, Mays Abu Much, Ashraf Akawi, Rajech Sharkia and. The relationship between parental stress and mastery, forgiveness, and social support among parents of children with

autism**.** The 16thInternational Child Neurology Congress, Virtual meeting. September 13 2020

12. **Muhammad Mahajnah** 1, Ariel T Suchi, Hazar Zahakah, Rajech Sharkia, Shaden R Shuhaiber, Isaac Srugo, Jacob Genizi. Multidomain Cognitive Impairment in Children With Pseudotumor Cerebri Syndrome
    14th European Paediatric Neurology Society Congress 2022, 28/4-02/05/2022 Glassgow UK
13.

**NATIONAL**

1. **Mahajnah M**, Zelnik N. The clinical spectrum of NCL type 8 disease. Annual Meeting of the Israeli Pediatric Neurology and Child Development Association, Kfar Blum, May 3-5, 2012.
2. **Mahajnah M**, Schertz M, Akawe A. Socio-demographic characteristics of children with mental retardation among the Arab population in Israel. Biennial National Conference of Child Development Institutes. Dead Sea, November 22, 2012.
3. **Mahajnah M**, Abu Rashed M, Zelnik N. Alexander Disease in Israel, case reports and review of the literature. North of Israel Pediatric Neurology Meeting, Haifa, April 26, 2013.
4. Mochida GH, **Mahajnah M**, Hill AD, Basel-Vanagaite L, Gleason D, Hill RS, Bodell A, Crosier M, Straussberg R, Walsh CA. Microcephaly gene links trithorax and REST/NRSF to control neural stem cell proliferation and differentiation. Annual Meeting of the Israeli Pediatric Neurology and Child Development Association, Dead Sea, February 20-22, 2014.
5. **Mahajnah M**, Sharkia R**,** Zalan A, Sourlis C, Bauer P, Schöls L. Sanfilippo type A: new clinical manifestations and neuro-imaging findings in patients from the same family in Israel. North of Israel Pediatric Neurology Meeting, Haifa, May 14, 2014.
6. **Mahajnah M**, Shalabe H, Daver R, Zelnik N. Clinical characteristics of autism spectrum disorder in Israel – impact of ethnic and social diversities. Child Development and Rehabilitation Association, Jerusalem, September 16-18, 2014.

7. Akawe A, Schertz M, Yaris V, **Mahajnah M**. Intellectual disabilities in an Arab population in Israel. Child Development and Rehabilitation Association, Jerusalem, September 16-18, 2014.
8. Mallaret M, Synofzik M, Lee J, Sagum CA, **Mahajnah M**, Sharkia R, Drouot N, Renaud M, Klein FA, Anheim M, Tranchant C, Mignot C, Mandel JL, Bedford M, Bauer P, Salih MA, Schüle R, Schöls L, Aldaz CM, Koenig M. The tumor suppressor gene WWOX is mutated in autosomal recessive cerebellar ataxia with epilepsy and mental retardation. Annual Meeting of the Israeli Pediatric Neurology and Child Development Association, Dead Sea, December 11-13, 2014.
9. **Mahajnah M**, Eidel M, Cohen Y. The use of three-dimensional spectral optical coherence tomography (3D SD-OCT) imaging of papilledema in IIH patients. Annual Meeting of the Israeli Pediatric Neurology and Child Development Association, Ma'alot, November 19-21, 2015.
10. **Mahajnah M**, Zahalkah H, Eidel M, Cohen Y. Acute external ophthalmoplegia in children. North of Israel Pediatric Neurology Meeting, Haifa, March 30, 2016.
11. Zelnik N, **Mahajnah M**. Attention disorders in different genders, attention deficit disorder in the Arab community. 5th National Conference on Attention Deficit Disorder Tel Aviv, April 7, 2016.
12. **Mahajnah M**, Zelnik N. The clinical characteristics of attention deficit hyperactivity disorder diagnosed in adolescents in comparison to younger children. annual meeting of the Israeli Society for Attention Deficit Disorder, Tel Aviv, March 2-3, 2017.
13. **Mahajnah M**, Hypomorphic mutations of POLR3A are a frequent cause in sporadic and recessive ataxia. Annual Meeting of the Israeli Pediatric Neurology and Child Development Association, Kfar Blum, October 25-27, 2018.
14. **Mahajnah M**, Ariel Tzvi Sufhi. Multidomain Cognitive Outcome In Childrenv With Pseudotumor Cerebri Syndrome. The Israeli Society for Clinical Pediatrics, Tel Aviv, February 03, 2021

**Poster Presentations**

**INTERNATIONAL**

1. **Mahajnah M**, Steinmets A, Straussberg R. Benign hereditary chorea: clinical, genetic and neuroimaging findings. International Symposium on Pediatric Movement Disorders, Barcelona, Spain, February 2004.
2. **Mahajnah M**, Zeigler M, Aker M, Yaniv I, Zelnik N. The role of bone marrow transplantation in the management of neurodegenerative lysosomal storage disease. 8th Asian & Oceanian Congress of Child Neurology, New Delhi, India, October 2004.
3. **Mahajnah M**, Zelnik N. Muscle biopsy pathologic findings in infants with congenital myotonic dystrophy. International Child Neurology Congress, Montreal, Canada, 2006.
4. **Mahajnah M**, Lev D, Blumkin L, Watemberg N, Lerman-Sagie T. Unusual presentation of parasagittal parietal-occipital polymicrogyria, Chiari malformation type 1 and syringomyelia. International Child Neurology Congress, Montreal, Canada, 2006.
5. Zelnik N, **Mahajnah M**, Iancu TC, Sharony R, Zeigler M. Variant late infantile neuronal ceroid lipofuscinosis with a novel C>G missense mutation at the CLN gene: a new phenotype similar to the Turkish variant LINCL. International Child Neurology Congress, Montreal, Canada, 2006.
6. Sharkia R, Kaiyal Q, Zelnik N, **Mahajnah M**. Mental retardation disease among Israeli Arab: clinical and epidemiological study in a single village. ESHG Conference, Nice, France, 2008.
7. **Mahajnah M**. Attention deficit hyperactivity disorder in Israel – clinical features in children vs. adolescents. 6th Fred J. Epstein International Symposium on New Horizons in Pediatric Neurology, Neurosurgery and Neurofibromatosis, Eilat, Israel, March 22-26, 2015.
8. Cohen Y, **Mahajnah M**, Idel M, Hanna R, Tiosano B. OCT imaging of papilledema in pediatric idiopathic intracranial hypertension. ARVO Annual Meeting, Research: A Vision of Hope, Seattle, Washington, USA, May 1-5, 2016.
9. **Mahajnah M**, Sharkia R, Zelnik N. The clinical profile of ADHD in Israel. Impact of ethnic and social diversities. 11th European Pediatric Neurology Society Congress, Vienna, Austria, May 27-30, 2015.

10. **Mahajnah M**, Sharkia R, Zelnik N. The clinical characteristics of attention deficit hyperactivity disorder diagnosed in adolescents in comparison to younger children. 12th European Paediatric Neurology Society Congress, Lyon, France, June 20-24, 2017.

11. **Mahajnah M** , Ariel T Suchi, Hazar Zahakah, Rajech Sharkia, Shaden R Shuhaiber, Isaac Srugo, Jacob Genizi. Multidomain Cognitive Impairment in Children With Pseudotumor Cerebri Syndrome. 14th European Paediatric Neurology Society Congress, Glasgow, UK, April 28 – May 2, 2022.

**14.3 Participation in Organizing Conferences**

1. 8th Asian & Oceanian Congress of Child Neurology. New Delhi, India, October 2004 (session chairman).
2. Pediatric neurology and child development conferences, Hillel Yaffe Medical Center, Hadera, Israel, 2008 to present (conference organizer).
3. Early diagnosis of metabolic diseases, Hillel Yaffe Medical Center Conference, Hadera, January 11, 2012 (conference chairman).
4. 4th Annual World Congress of Neuro-talk 2013, May 23-25, 2013, Xi'an, China (session co-chairman).
5. Updates in medical and therapeutic aspects of children with autism disorder. Hillel Yaffe Medical Center Conference, Hadera, February 23, 2013 (conference chairman)..
6. 19th Congress of Child Neurologists of Mediterranean, October 16-19, 2013, Budva, Montenegro (session chairman).
7. Innovations and updates in pediatric neurology and child development. Hadera, June 17, 2014 (conference chairman).
8. Annual Meeting of the Israeli Pediatric Neurology and Child Development Association, Dead Sea, Israel, December 11-13, 2014 (session chairman).
9. 6th Fred J. Epstein International Symposium on New Horizons in Pediatric Neurology, Neurosurgery and Neurofibromatosis, 22-26 March 2015, Eilat, Israel (scientific committee).
10. 3rd. Pan Slavic Child Neurology Congress and 21st Congress of Child Neurologists of Mediterranean, Dubrovnik, Croatia, October 19-22, 2016 (session chairman)..

11. 27th Euro-Global Neurologists Meeting, Moscow, Russia, July 23- 25, 2018 (session chairman).
12. Annual Meeting of the Israeli Pediatric Neurology and Child Development Association Kfar Blum, October 25-27, 2018 (session chairman).

13. Annual Meeting of the Society for Health Promorion of the Arab Community in Israel, Nazareth, May 1, 2019, Session chairman.
14. Innovation and Research Trends in Child Development. Hillel Yaffe Medical Center Conference, Hadera, September 10, 2019. Conference chairman.
15. The First Franco – Arab – Israeli Conference of Mother and Child Health, October 30-31, 2019, Ramada Hotel Nazareth, Session chairman.
16. The 14th Meeting of the International Conference on Rare Diseases and Orphan Drugs (ICORD), November 11-13 2019, Lago Conferences & Events Center, Rishon-Lezion, Israel, Session chirman.
17. The Annual Meeting of the Israeli Society for Developmental Pediatrics, December 19, 2019, Tel Aviv Sourasky Medical Center , Organizing Committee.

## 15. SIGNIFICANT PROFESSIONAL PROJECTS/ACTIVITIES

I am a specialist in Pediatrics and Pediatric Neurology and Child Development. For many years, I have been researching neurogenetic diseases and have had various research collaborations with research centers in the United States, Germany, France, Australia and research teams all around the world. My research studies have led to the identification of multiple new causative genes, and have shed light on the clinical course of numerous diseases, making their diagnosis much easier, leading to changing diagnostic and treatment algorithms. I have led many meetings and conferences with parents, pediatricians, family doctors, and health and welfare officials to shed the spotlight on the importance of recognizing and diagnosing genetic diseases in different populations. I also was invited several times to participate on governmental committees dealing with the diagnosis and treatment of autism, rare disease and rehabilitation day care centers.

Another field of interest is child developmental disorders. This field was poorly developed and managed in Israel, so after completing my degree, I promoted many programs and attended numerous meetings at the Ministry of Health and Israeli parliament (Knesset), building the foundations for organizing pediatric developmental centers and improving multidisciplinary treatment throughout the country. As head of a pediatric developmental center, I have managed multidisciplinary teams, a pediatric epilepsy clinic and an autism clinic, promoted community programs aimed at increasing awareness of developmental disorders such as autism, and cognitive and behavioral difficulties, and publishing papers on many of these developmental disorders.

My academic activities include organizing and attending community and hospital conferences, teaching medical students, pediatric residents, and pediatric neurology and child development residents. I have been an active member on the pediatric neurology committee and have participated in writing and organizing the Pediatrics and Pediatric Neurology board exams.