

Curriculum Vitae of Bahaa Medlej

Personal Information

Address:

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Social status: married + 4

Date of birth: Dec. 10th, 1971

Education

2005-2010 School: Tel-Aviv University

Degree earned: PhD

Study Emphasis: anatomy and physical anthropology

2003-2005 School: Tel Aviv University

Degree earned: thesis defense (MS equivalent)

1991-1998 School: I.M. Sechenov First Moscow State Medical University

Degree earned: MD

Professional Experience

Sackler Faculty of Medicine, Tel-Aviv University

2010-present Advanced imaging methods (via use of CT, MRI, and Ultrasound) developer and educator

2008-present Curriculum developer and anatomy lecturer

2004-present Human anatomy dissections instructor for classes in Hebrew (Israeli students), and for classes in English (New York State Program students), histology in plastic impeding technique and human bodies or body parts plastination in S-10 and P-40 technique.

National Center of Forensic Medicine, Abu kabir, Israel

2010-2014 Head of Forensic Anthropology Department

Academic Courses Taught Internationally

International academy of legal medicine (Forensic Anthropology Society of Europe FASE)

September 2013 FASE advanced course on postmortem interval. Heidelberg, Germany.

University of Murcia, Spain

December 2011 human body plastination using "silicone plastination technique S-10 and polyester b P-40"

Mercyhurst University, Erie, USA

June 2008 Field Methods in the Location, Recovery, and Interpretation of Human Remains from Outdoor Contexts

June 2008 Laboratory Methods in the Identification of Human Remains

June 2008 Analysis of Bone Trauma and Pseudo-Trauma in Suspected Violent Deaths

June 2008 Documentation of Human Remains and Physical Evidence at the Terrorism Crime Scene

Fieldwork

- 2011, 2016 Excavation at Manot Cave, Israel --recovery of archeological human remains
2004, 2010 Excavation at Meslia, Mount Carmel, Israel-- recovery of archeological human remains

VISITING SCIENTIST PROGRAMS IN FORENSIC ANTHROPOLOGY

February 2011 - Forensic Anthropology Department- north Texas university- Denton
Practicing advanced methods in identification of human remains using computerized software (sex and age in particular) and new bone skeletons analysis. And Osteon writing forensic reports.

- a. Blunt trauma
- b. Blade trauma (including chop injuries)
- c. Ballistic trauma

Scientific Meetings Attended

- 2016 21st European Meeting of the Paleopathology Association, Moscow, Russia
2014 18th International Federation of Associations of Anatomists, Beijing, China
2014 Crime Scene Analysis and Victim Identification Forum, Forum for Disaster Victim Identification, Forum for Mass Grave Victim Identification, London, UK
2013 FACE Advanced Course on Postmortem Interval and FASE 10th Anniversary Symposium
2012 16th International Conference of the ISP (International Society for Plastination), Beijing, China
2012 19th European Meeting of the Paleopathology Association, Lille, France
2010 46th Annual Forensic Dental Identification & Emerging Technologies, Armed Forces Institute of Pathology, Scottsdale, USA
2009 17th Congress of the International Federation of Association of Anatomists, Cape Town, SA
2008 9th Annual Meeting of the Israel Spine Society, Eilat, Israel
2007 9th Congress of European Association of Clinical Anatomy, Prague, Czech Republic
2007 6th Interdisciplinary World Congress on Low Back & Pelvic Pain, Barcelona, Spain
2007 9th International Interim Conference on Plastination, Ann Arbor University, Michigan
2005 18th International Symposium on Morphological Sciences, Belgrade, Serbia

Papers Presented at Scientific Meetings

Sella-Tunis, T., Peled, N., Vered, M., Feldman, M., Abramov, J., **Medlej, B.**, Vardimon, A. & Hershkovitz, I. Unusual pathology in a human male mandible dating from the PPNB period, Yiftahel, Israel. 19th European Meeting of the Paleopathology Association, Lille, France, 2012.

Bahaa M, Slon V, Hershkovits I. Histopathological evaluation of biomedical devices using plastic embedding technique. 16th International Conference of the ISP (International Society for Plastination) 2012, Beijing, China

- Medlej, B.**, Abbas, J., May, H., Dar, G., Stein, D., Cohen, H. & Hershkovitz, I. Using femoral head and neck lesions to predict habitual activities in ancient populations. 19th European Meeting of the Paleopathology Association, Lille, France, 2012.
- Cohen, H., Slon, V., Barash, A., May, H., **Medlej, B.**, & Hershkovitz, I. Ancient reliefs, bone trauma and present forensic case shed light on the Assyrian army brutality. 19th European Meeting of the Paleopathology Association, Lille, France, 2012.
- Masharawi, Y., Dar, G., Peleg, S., Bechar, A., Steingberg, N., **Medlej, B.**, Abbas, J., May, H., & Hershkovitz, I. Sexual dimorphism in the thoracic and lumbar vertebrae as a morphological adaptation to lumbar hyperlordosis during pregnancy. 8th annual meeting of the Israeli Physiotherapist Society (IPTs), Israel, 2009.
- Medlej, B.**, Masharawi, M., Dar, G., Stein, D., Steinberg, N., Abbas, J., May, H., Cohen, H., & Hershkovitz, I. The anatomy of the hip joint: its association with femoral head-neck lesions. 17th Congress of the International Federation of Associations of Anatomists, Cape Town, South Africa, 2009. Proceedings book, p. 111.
- May, H., Dar, G., Abbas, J., Hay, J., **Medlej, B.**, & Hershkovitz, I. The clinical significance of hyperostosis frontalis interna. 17th Congress of the International Federation of Associations of Anatomists. Cape Town, South Africa. 2009. Proceedings book, p. 226.
- Cohen, H., May, H., Abbas, J., **Medlej, B.**, Hay, H., Stein, D., Hershkovitz, I., & Brosh, T. Fracture Surface Analysis: A Forensic Perspective. Abstract book of the 17th Congress of the International Federation of Associations of Anatomists. Cape Town, South Africa. 2009. p. 243.
- Stein D., Abbas, J., **Medlej, B.**, Cohen H., May, H., Ori, H., Gali, D., Hershkovitz, I. MRI-Histology Based Investigation of the Annulus Fibrosus Microstructure and Novel insights on its Failure mechanics in the Light of Evolutionary Medicine. Abstract book of the 17th Congress of the International Federation of Associations of Anatomists. Cape Town, South Africa. 2009. p. 108.
- Abbas, J., Masharawi, Y., Hamoud, K., **Medlej, B.**, May, H., Sarig, R., Cohen, H., Peled, N., Hershkovitz, I. Ligamentum Flavum hypertrophy: morphological aspects. Abstract book of the 8th Research Fair of the Sackler Faculty of Medicine, Tel-Aviv University, Israel. 2008. p. 6.
- Peleg, S., Dar, G., Steinberg, N., Masharawi, Y., Alperovitch-Najenson, D., **Medlej, B.**, Arensburg, B., & Hershkovitz, I. Spondylolysis, Scheuermann's kyphosis and sacral anatomical orientation. The 9th Annual Israel Spine Society Meeting, Eilat, Israel, 2008. Proceedings book, p. 36.
- Steinberg, N., Siev-Ner, I., Peleg, S., Dar, G., Masharawi, Y., **Medlej, B.**, & Hershkovitz, I. Spinal injuries and low back pain in young dancers. The 9th Annual Israel Spine Society Meeting, Eilat, Israel, 2008. Proceedings book, p. 48.
- Medlej, B.**, Greenwald, C., Dar, G., Peleg, S., Steinberg, N., Masharawi, Y., & Hershkovitz, I. Lesions in the femoral head and neck and their possible association with low back pain. The 9th Annual Israel Spine Society Meeting, Eilat, Israel, 2008. Proceedings book, p. 50.

- Peleg, S., Peled, N., Dar, G., Steinberg, N., Masharawi, Y., Alperovitch-Najenson, D., **Medlej, B.**, Arensburg, B., & Hershkovitz, I. Sacral anatomical orientation: its association with spinal deformities and spondylolysis. 6th Interdisciplinary World Congress on Low Back & Pelvic Pain, Barcelona, Spain, 2007.
- Medlej, B.**, Greenwald, C., Dar, G., Peleg, S., Steinberg, N., Masharawi, Y., Abbas, J., & Hershkovitz, I. Lesions in the femoral head and neck and their possible association with pelvic Pain. 6th Interdisciplinary World Congress on Low Back & Pelvic Pain, Barcelona, Spain, 2007.
- Peleg, S., Dar, G., Steinberg, N., Masharawi, Y., Alperovitch-Najenson, D., **Medlej, B.**, Arensburg, B., & Hershkovitz, I. Sacral anatomical orientation: its association with abnormal spinal alignment. 9th Congress of European Association of Clinical Anatomy, Prague, Czech Republic, 2007.
- Dar, G., Masharawi, Y., Peleg, S., Steinberg, N., **Medlej, B.**, Alperovitch-Najenson, D., & Hershkovitz, I. Clinical aspects of sacroiliac joint bridging. 9th Congress of European Association of Clinical Anatomy, Prague, Czech Republic, 2007.
- Steinberg, N., Siev-Ner, I., Peleg, S., Dar, G., Masharawi, Y., Alperovitch-Najenson, D., **Medlej, B.**, & Hershkovitz, I. Injuries in young dancers, aged 8 to 16 years. 9th Congress of European Association of Clinical Anatomy, Prague, Czech Republic, 2007.
- Medlej, B.**, Greenwald, C., Dar, G., Peleg, S., Steinberg, S., Masharawi, Y., Abbas, J., & Hershkovitz, I. Femoral head and neck lesions and their association with pelvic architecture. 9th Congress of European Association of Clinical Anatomy, Prague Czech Republic, 2007.
- Masharawi, Y., Dar, G., Peleg, S., Steinberg, N., **Medlej, B.**, Ezra, D., Alperovitch-Najenson, D., & Hershkovitz, I. Facet and interfacet shape and orientation in spondylosis: a skeletal study. 7th Research Fair, Tel-Aviv University, Israel, 2006.
- Ezra, D., Salame, K., Peleg, S., Been, E., Marom, A., Steinberg, N., Alpeprovich-Najenson, D., Dar, G., **Medlej, B.**, & Hershkovitz, I. Ossous changes with age in the vertebral foramen of the cervical spine (C3-C7): a skeletal population study. 7th Research Fair, Tel-Aviv University, Israel, 2006.
- Dar, G., Peleg, S., Masharawi, Y., Steinberg, N., Ezra, D., **Medlej, B.**, & Hershkovitz, I. The phenomenon of sacroiliac joint bridging in the human spine. 6th Research Fair, Tel-Aviv University, Israel, 2005. Proceedings book, p.4.
- Bahaa M**, Greenwald C, Dar G, Peleg S, Steinberg N, Hershkovitz I. The anatomy of the hip joint and its relationship to various lesions in the femoral head and neck. 18th International Symposium on Morphological Sciences, Belgrade, Serbia 2005.

Published Journal Articles

- Cohen, H., Kugel, C., May, H., **Medlej, B.**, Stein, D., Slon, V., ... & Brosh, T. (2016). The impact velocity and bone fracture pattern: forensic perspective. *Forensic Science International*, 266, 54-62.
- Slon, V., Stein, D., Cohen, H., **Medlej, B.**, Peled, N., & Hershkovitz, I. (2014). Hyperostotic bone disease in a wombat (*Vombatus ursinus*). *Research in Veterinary Science*, 97(1), 88-95.
- Slon, V., Stein, D., Cohen, H., Medlej, B., Peled, N., & **Hershkovitz, I.** (2014). Hyperostotic bone disease in a wombat (*Vombatus ursinus*). *Research in Veterinary Science*, 97(1), 88-95.
- May, H., Cohen, H., **Medlej, B.**, Kornreich, L., Peled, N., & Hershkovitz, I. (2013). Computer tomography-enhanced anatomy course using enterprise visualization. *Anatomical Sciences Education*, 6(5), 332-341.
- Cohen, H., Slon, V., Barash, A., May, H., **Medlej, B.**, & Hershkovitz, I. (2012). Assyrian attitude towards captive enemies: A 2700 years old paleo-forensic study. *International Journal of Osteoarchaeology*, 25(3), 265-280.
- Cohen, H., Sarrie, I., **Medlej, B.**, Bouqotien, F., Toledano, T., Slon, V., & Hershkovitz, I. (2012). Trauma to the skull: A historical perspective from the southern Levant (4300BCE-1917CE). *International Journal of Osteoarchaeology*, 24(6), 722-736.
- Cohen, H., Slon, V., Barash, A., May, H., **Medlej, B.** & Hershkovitz, I. (2012). Assyrian attitude towards captive enemies: A 2700 Years Old Paleo-Forensic Study. *International Journal of Osteoarchaeology*, 25(3), 265-280.
- Dar, G., Masharawi, Y., Peleg, S., Steinberg, N., May, H., **Medlej, B.**, Peled, N., & Hershkovitz, I. (2011). The epiphyseal ring: a long forgotten anatomical structure with significant physiological function. *Spine*, 36(11), 850-856.
- May, H., Peled, N., Dar, G., Cohen, H., Abbas, J., **Medlej, B.**, & Hershkovitz, I. (2011). Hyperostosis frontalis interna: criteria for sexing and aging a skeleton. *International Journal of Legal Medicine*, 125(5), 669-673.
- Dar, G., Masharawi, Y., Peleg, S., Steinberg, N., May, H., **Medlej, B.**, Peled, N., & Hershkovitz, I. (2011). The epiphyseal ring: A long forgotten anatomical structure with significant physiological function. *Spine*, 36(11), 850-856.
- May, H., Peled, N., Dar, G., Abbas, J., **Medlej, B.**, Masharawi, Y., & Hershkovitz, I. (2010). Hyperostosis frontalis interna and androgen suppression. *The Anatomical Record*, 293(8), 1333-1336.
- Abbas, J., Hamoud, K., Masharawi, Y. M., May, H., Hay, O., **Medlej, B.**, Peled, N., & Hershkovitz, I. (2010). Ligamentum flavum thickness in normal and stenotic lumbar spines. *Spine*, 35(12), 1225-1230.
- Masharawi, Y., Dar, G., Peleg, S., Steinberg, N., **Medlej, B.**, May, H., Abbas, J., & Hershkovitz, I. (2010). A morphological adaptation of the thoracic and lumbar vertebrae to lumbar hyperlordosis in young and adult females. *European Spine Journal*, 19(5), 768-773.

- Abbas, J., Hamoud, K., May, H., Hay, O., **Medlej, B.**, Masharawi, Y., Peled, N., & Hershkovitz, I. (2010). Degenerative lumbar spinal stenosis and lumbar spine configuration. *European Spine Journal*, 19(11), 1865-1873.
- May, H., Peled, N., Dar, G., Cohen, H., Abbas, J., **Medlej, B.**, & Hershkovitz, I. (2010). Hyperostosis frontalis interna: criteria for sexing and aging a skeleton. *International Journal of Legal Medicine*, 125(5), 669-673.
- Dar, G., Masharawi, Y., Peleg, S., Steinberg, N., May, H., **Medlej, B.**, Peled, N., & Hershkovitz, I. (2010). Schmorl's nodes distribution in the human spine and its possible etiology. *European Spine Journal*, 19(4), 670-675.
- Lakstein, D., Kopelovitch, W., Barkay, Z., **Bahaa, M.**, Hendel, D., & Eliaz, N. (2009). Enhanced osseointegration of grit-blasted, NaOH-treated and electrochemically hydroxyapatite-coated Ti-6Al-4V implants in rabbits. *Acta Biomaterialia*, 5(6), 2258-2269.
- Masharawi, Y. M., Peleg, S., Albert, H. B., Dar, G., Steingberg, N., **Medlej, B.**, Abbas, J., Salame, K., Mirovski, Y., Peled, N., & Hershkovitz, I. (2008). Facet asymmetry in normal vertebral growth: characterization and etiologic theory of scoliosis. *Spine*, 33(8), 898-902.
- Masharawi, Y. M., Peleg, S., Albert, H. B., Dar, G., Steinberg, N., **Medlej, B.**, ... & Hershkovitz, I. (2008). Facet asymmetry in normal vertebral growth: characterization and etiologic theory of scoliosis. *Spine*, 33(8), 898-902.
- Peleg, S., Dar, G., **Medlej, B.**, Steinberg, N., Masharawi, Y., Latimer, B., Jellema, L., Peled, N., Arensburg, B., & Hershkovitz, I. (2007). Orientation of the human sacrum: anthropological perspectives and methodological approaches. *American Journal Physical Anthropology*, 133(3), 967-977.
- Peleg, S., Dar, G., **Medlej, B.**, Steinberg, N., Masharawi, Y., Latimer, B., Jellema, L., Peled, N., Arensburg, B., & Hershkovitz, I. (2007). Orientation of the human sacrum: anthropological perspectives and methodological approaches. *American Journal of Physical Anthropology*, 133(3), 967-977.
- Athamna, A. N., Massalha, M., Nura, A., **Medlej, B.**, Ofek, I., Bast, D., & Rubinstein, E. (2004). In vitro susceptibility of Bacillus anthracis to various antibacterial agents and their time-kill activity. *Journal of Antimicrobial Chemotherapy*, 53(2), 247-251.
- Athamna, A., Athamna, M., **Medlej, B.**, Bast, D. J., & Rubinstein, E. (2004). In vitro post-antibiotic effect of fluoroquinolones, macrolides, beta-lactams, tetracyclines, vancomycin, linezolid, chloramphenicol, quinupristin/dalfopristin and rifampicin on bacillus anthracis. *Journal of Antimicrobial Chemotherapy*, 53(4), 609-615.

Published Books

- Medlej, B.** and Hershkovitz, I. (2012). *Femoral head and neck anatomy and pathology: Anatomy of the hip joint and its relation to lesions in the femoral head and neck*. Saarbrücken: Lambert Academic Publishing.