LARA HILAL, MD
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EDUCATION:

8/2009 - 6/2013	American University of Beirut School of Medicine Beirut, Lebanon Doctor of Medicine (MD) Dean's Honors List
9/2006 - 6/2009	American University of Beirut Faculty of Arts and Sciences Beirut, Lebanon Bachelor of Science in Biology Graduated with Distinction
9/2003 - 6/2006	Al-Manar Modern School Mount Lebanon, Lebanon Lebanese Baccalaureate: Life Sciences Section Graduated with High Distinction

HONORS and AWARDS:

7/ 2013-present:	Alpha Omega Alpha Medical Honor Society AUB chapter
7/2019-7/2020:	Bobst International Fellowship Scholarship Recipient Memorial Sloan Kettering Cancer Center, New York

PROFESSIONAL EXPERIENCE:

10/2021- Present	Clinical Instructor, Faculty of Medicine Department of Radiation Oncology American University of Beirut Medical Center
7/2019 – 7/2020	Radiation Oncology Clinical Research Fellow Department of Radiation Oncology Memorial Sloan Kettering Cancer Center, New York
6/2015 – 6/2019:	Residency in Radiation Oncology Department of Radiation Oncology American University of Beirut Medical Center

6/2014 – 6/2015: Post-doctoral Research Fellow
Division of Hematology Oncology
Department of Internal Medicine
American University of Beirut Medical Center

6/ 2013 – 6/2014: Internship (PGY 1)
Department of Internal Medicine
American University of Beirut Medical Center

RESEARCH EXPERIENCE:

Publications:

1) Prospective Clinical Evaluation Of Integrating A Radiation Anatomist For Contouring In Routine Radiation Treatment Planning.
Zhang H, Onochie I, **Hilal L**, Wijetunga NA, Hipp E, Guttmann DM, Cahlon O, Washington C, Gomez DR, Gillespie EF
Advances In Radiation Oncology. 2022, vol.7, no.6, pp-101009

2) Radiation Therapy For De Novo Anorectal Cancer In Patients With A History Of Prostate Radiation Therapy.
Hilal L, Wu AJ, Reyngold M, Cuaron JJ, Navilio J, Romesser PB, Dreyfuss A, Yin S, Zhang Z, Bai X, Berry SL, Zinovoy M, Nusrat M, Pappou E, Zelefsky MJ, Crane CH, Hajj C
Frontiers In Oncology. 2022, vol.12, pp-975519

3) Proton Therapy In The Management Of Pancreatic Cancer.
Kobeissi JM, Simone CB, Lin H, **Hilal L**, Hajj C
Cancers. 2022, vol.14, no.11

4) Proton Therapy In The Management Of Luminal Gastrointestinal Cancers: Esophagus, Stomach, And Anorectum
Kobeissi J.M., Simone C.B., **Hilal L**., Wu A.J., Lin H., Crane C.H., Hajj C.
Cancers. 2022, vol.14, no.12

5) Proton Therapy In The Management Of Hepatocellular Carcinoma.
Jana Kobeissi, **Hilal Lara*,** Charles B Simone Ii, Haibo Lin, Christopher H Crane, Carla Hajj
Cancers. 2022, vol.14

6) Factors Associated with Premature Ovarian Insufficiency in Young Women with Locally Advanced Rectal Cancer Treated with Pelvic Radiation Therapy. *Advances in Radiation Oncology, 2022.*

Lara Hilal, A. Cercek, J. Navilio, M.Hsu, Z. Zhang, P. Brady, A. J. Wu, M. Reyngold, J. J. Cuaron, P. B. Romesser, M. Zinovoy, M. Nusrat, E. Pappou, J. G. Guillem, J. Garcia-Aguilar, P. Paty, N. Abu-Rustum, M.M. Leitao, C. H. Crane, and C. Hajj

7) Patient Selection For Surgery Vs Radiotherapy For Early Stage Oropharyngeal Cancer
Hilal L., Moukarbel R., Ollaik F., Yang P., Youssef B.
Cancer Control. 2021, vol.28

8) Ablative radiation therapy for hepatocellular carcinoma is associated with reduced treatment and tumor related liver failure and improved survival. *Journal of Gastrointestinal Oncology, 2021*.

Lara Hilal, Marsha Reyngold, Abraham J. Wu, Abdallah Araji, Ghassan K. Abou-Alfa, William Jarnagin, James J. Harding, Maya Gambarin, Imane El Dika, Paul Brady, John Navilio, Sean L. Berry, Jessica Flynn, Zhigang Zhang, Richard Tuli, Melissa Zinovoy, Paul B. Romesser, John J. Cuaron, Christopher H. Crane, Carla Hajj

9) Association of Ablative Radiation Therapy with Survival Among Patients with Inoperable Pancreatic Cancer. *JAMA Oncology, 2021.*

Marsha Reyngold, Eileen M O'Reilly, Anna M Varghese, Megan Fiasconaro, Melissa Zinovoy, Paul B Romesser, Abraham Wu, Carla Hajj, John J Cauron, Richard Tuli, **Lara Hilal**, Danny Khalil, Wungki Park, Ellen D Yorke, Zhigang Zhang, Kenneth H Yu, Christopher H Crane

10) Rectal Cancer in Patients Younger than 40: Tumor Characteristics and Comparative Survival based on a Single Institution. *Current Cancer Therapy Reviews, 2021.*

Lara Hilal, Ayman Hakim, Alissar El Chediak, Sally Temraz, Deborah Mukherji, Ziad El Husseini and Ali Shamseddine

11) Reirradiation for anorectal cancers in patients with a history of prostate radiation therapy. *Abstract, IJROBP, 2020.*

L . Hilal, A. J. Wu, M. Reyngold, P. B. Romesser, J. J. Cuaron, J. Navilio, S. Yin, S. L. Berry, M. Zinovoy, M. Nusrat, E. Pappou, M. J. Zelefsky, C. H. Crane, and C. Hajj

12) The rate and risk of secondary pelvic malignancies (SPM) in patients treated with definitive radiation for locally advanced rectal cancer. Abstract, J Clin Oncol 39, 2021 (suppl 15; abstr 12065). (Merit Award)

Kathryn Tringale, **Lara Hilal**, Abraham Jing-Ching Wu, Andrea Cercek, Marsha Reyngold, Paul Bernard Romesser, Emmanouil Pappou, Jessica Flynn, Zhigang Zhang, John Navilio, Sean Berry, Rona Yaeger, Philip Paty, Martin R. Weiser, Julio Garcia-Aguilar, Leonard B. Saltz, Christopher H Crane, Carla Hajj.

13) Ablative radiation therapy (RT) doses in hepatocellular carcinoma (HCC): Impact on local control, survival, and tumor-related liver failure. *Abstract, IJROBP, 2020.*

Hilal, L. Abou-Alfa, G. Jarnagin, W. Harding, J. J. Gambarin, M. El Dika, I. Brady, P. Navilio, J. Berry, S. L.; Flynn, J.; Zhang, Z.; Tuli, R.; Zinovoy, M.; Romesser, P. B.; Cuaron, J. J.; Wu, A. J.; Araji, A.; Reyngold, M.; Crane, C. H.; Hajj, C.

14) Survival and patterns of failure in oligometastatic esophagogastric cancer. *Abstract, IJROBP, 2020.*
Hilal, L.; Ku, G.; Molena, D.; Janjigian, Y.; Ilson, D. H.; Maron, S.; Sihag, S.; Yoon, S. S.; Strong, V.; Crane, C. H.; Gomez, D. R.; Wu, A. J.

15) Predictors of premature ovarian failure (POF) in young women with locally advanced rectal cancer (LARC) treated with pelvic radiation therapy (RT). *Abstract, IJROBP, 2020.*
Hilal, L.; Cercek, A.; Navilio, J.; Meier, H.; Zhang, Z.; Brady, P.; Wu, A. J.; Reyngold, M.; Cuaron, J. J.; Romesser, P. B.; Zinovoy, M.; Nusrat, M.; Pappou, E.; Guillem, J. G.; Garcia-Aguilar, J.; Paty, P.; Abu-Rustum, N.; Leitao, M. M.; Crane, C. H.; Hajj, C.

16) Single institution retrospective analysis of local control and survival outcomes using radiation for the management of colorectal cancer liver metastases. *Abstract, IJROBP, 2020.*
Chen, I. **Hilal, L**.; Cuaron, J. J.; Zinovoy, M.; Hajj, C.; Yang, T. J.; Tsai, C. J.; Yamada, Y.; Tuli, R.; Wu, A. J.; Crane, C. H.; Romesser, P. B.; Reyngold, M.

17) Outcomes after Radiation Therapy for T2N0/Stage II Glottic Squamous Cell Carcinoma. *Head & Neck, 2020.*
Karine A. Al Feghali, Bassem Youssef, Abdallah Mohamed, **Lara Hilal,** Blaine D. Smith, Ibrahim Abu-Gheida, Georges Farha, Brandon Gunn, Jack Phan, Jan Lewin, Apurva Thekdi, William H. Morrison, Adam S. Garden, Clifton David Fuller, David I. Rosenthal

18) Demographics and Outcomes of Meningioma Patients Treated at a Tertiary Care Center in the Middle East, *Clinical Neurology and Neurosurgery, 2020*.
Assi, Hazem, **Hilal, Lara**, Abu-Gheida, Ibrahim, Berro, Juliett, Sukhon, Fares, Skaf, Ghassan, Geara, Fady, Boulos, Fouad, Charafeddine, Maya, Tabbarah, Abeer, Khoury, Jessica, Najjar, Marwan

19) CHHiP vs. PROFIT for Localized Prostate Cancer: A Retrospective Dosimetric Comparison of Organs at Risk. *Abstract. ESTRO 2020*
P. Ramia, A. Mkanna, B. Shahine, Z. Makke, **L. Hilal**, F. Geara, M. Adel, F. Olleik, B. Youssef

20) Intraoperative Radiation Therapy: A Promising Treatment Modality In Head and Neck Cancer. *Frontiers in Oncology, 2017.*
Lara Hilal, Karine A. Al Feghali, Paul Ramia, Ibrahim Abu Gheida, Jean-Pierre Obeid, Wassim Jalbout, Bassem Youssef, Fady Geara, Youssef Zeidan.

21) Electrons Only Internal Mammary Chain (IMC) Irradiation Technique Reduces Cardiac Toxicity Compared to Mixed Electron-Photons Technique in Left-Sided Breast Cancer. *Abstract, IJROBP 2019.*
Lara Hilal, Abbas Mkanna, Bilal Shahine, Paul Ramia, Hana Mekdash, Fady Geara, Bassem Youssef

22) A Novel Three Dimensional Conformal Radiation Therapy Technique to Decrease the Mean Parotid Gland Dose in Whole Brain Radiation Therapy, *Abstract, IJROBP 2018.*
Lara Hilal, Paul Ramia, Hana Mekdash, Wassim Jalbout, H Abdulkhalek, Bilal Chahine, Fady Geara, Youssef Zeidan, Dima Mahmoud, Toufic Eid, Bassem Youssef

23) Stereotactic Radiosurgery for Atrioventricular Node Ablation in Swine: A Study on Efficacy and Dosimetric Evaluation of Organs at Risk. *Abstract, IJROBP 2018.*
P. Ramia, **L. Hilal**, F. B. Geara, W. Jalbout, P. Zakka, J. Ballout, M. Hotait, I. Abu Gheida, K. A. Al Feghali, T. A. Eid, M. Refaat, and B. Y. Youssef

24) A Novel Three Dimensional Conformal Radiation Therapy Technique to Decrease the Mean Parotid Gland Dose in Whole Brain Radiation Therapy. *Journal of Nuclear Medicine and Radiaiton Therapy, 2019*
Lara Hilal, Hana Mekdash, Paul Ramia, Mustafa Jammal, Dima Mahmoud, Bilal Shahine, Toufic Eid, Wassim Jalbout, Helena Abdul Khalek, Fady Geara, Youssef H Zeidan and Bassem Youssef

25) Carcinoid Tumor Arising from the Sphenoid Sinus Treated with Definitive Intensity-modulated Radiation Therapy: A Case Report. *Cureus, 2019*
Lara Hilal, Mustafa Jammal, Bassem Youssef

26) Trastuzumab Emtansine for the treatment of HER-2 positive Carcinoma Ex-pleomorphic Adenoma metastatic to the brain: A Case report. *Fronteirs in Oncology, 2018*
Ihab Hasanieh, **Lara Hilal,** Karine A Al Feghali, Ibrahim Khalifeh, Bassem Youssef

27) Successful treatment of a solitary brain metastasis from small cell lung cancer with whole brain radiotherapy and stereotactic radiosurgery boost: A case report, *Precision Radiation Oncology, 2018*
Mustafa Jammal, **Lara Hilal**, Hazem Assi, Daniel Faddoul, Bassem Youssef

28) Thirty Year Experience with Rosai Dorfman Disease treated with Radiation, Chemotherapy, and/or Surgery. *Abstract. IJROBP, 2018*.
K.M. Christopherson, J.R. Gunther**, L. Hilal,** S.A. Milgrom**,** C.C. Pinnix**,** N. Garg**,** B. Dabaja

29) Gastrointestinal (GI) Leiomyosarcoma (LMS) Case Series and Review on Diagnosis, Management, and Prognosis. *Medical Oncology, 2016*.
Lara Hilal · Kassem Barada , Deborah Mukherji· Sally Temraz · Ali Shamseddine

30) Prostate Cancer in the Arab World: A View from the Inside,
Clin Genitourin Cancer, 2015
Lara Hilal ·Mohammad Shahait, Deborah Mukherji, Maya Charafeddine · Zein Farhat · Sally Temraz, Raja Khauli · Ali Shamseddine

31) Review of Intracranial Meningiomas: An Update on Management from Diagnosis to Treatment. *Internal Medicine Review, 2018*
Karine Al Feghali, **Lara Hilal,** Caroline Chung.

32) Hyperfractionated Radiation Therapy in Bukitt's Lymphoma: A Reconsideration Aspect. *J. Hematological Oncology, 2017*
Khalil Charafeddine, **Lara Hilal**, Ali Bazarbashi, Nassima Salame, Bassem Youssef

33) Rectal cancer in patients younger than 40 at AUBMC: tumor characteristics and comparative survival and disease free survival. (Abstract: RM033), *Ann Onc, 2016*
*A.*Hakim, **L. Hilal**, D. Mukherji, S. Temraz and A. Shamseddine

34) Increase in Spleen Volume as a Predictor of Oxaliplatin Toxicity. *Therapeutics and Clinical Risk Management, 2018.*
Alissar El Chediak, Ali Haydar, Ayman Hakim, Sarah Abdel Massih, **Lara Hilal**, Deborah Mukherji, Sally Temraz, Ali Shamseddine

35) Younger Age is an Independent Predictor of Worse Prognosis among Lebanese nonmetastatic Breast Cancer Patients: Analysis of a Prospective Cohort. *Breast Cancer: Targets and Therapy*, 2017.
Alissar El Chediak, Raafat Alameddine, Ayman Hakim, **Lara Hilal**, Sarah Abdel Massih, Lana Haimieh, Deborah Mukherji, Sally Temraz, Maya Charafeddine, Ali Shamseddine

36) Incidence of clinically significant insomnia in patients undergoing chemotherapy for early breast cancer at a tertiary referral center in the Middle East. *Indian Journal of Palliative Care, 2017.*
Rami Fakih*, Mahmoud Rahal*, **Lara Hilal**, Lana Hamieh, Mohammed Dany, Simone Karam, Latifa Shehab, Nagi Saghir, Arafat Tfayli , Ziad Salem, Hazem Assi, Sally Temraz, Ali Shamseddine, Deborah Mukherji

International Conferences Moderator:

1) "Multiloss disentangled representation learning for predicting esophageal cancer response to neoadjuvant chemoradiotherapy using longitudinal CT images", presented by Hailin Yue, International Global Youth radiomics seminar organized by Hunan Cancer Center, China (April 2022)

International Conferences Oral Presentations:

1) The use of Radiomics to predict toxicities in head and neck cancers.
From Medical images to Radiomics: Predicting outcomes and toxicities, international conference organized by Hunan Cancer Hospital, China. June 2022
2) Breast cancer case for MDT discussion.
ESO Masterclass in Oncology (Dec 2017), Limassol, Cyprus
3) Survival Advantage of Metformin in Colorectal Cancer Patients
KHCC-AUBMC-MDACC 4th Joint Conference (Oct 2015), Amman, Jordan

4) Insomnia in Breast Cancer Patients Receiving Chemotherapy
KHCC-AUBMC-MDACC 4th Joint Conference (Oct 2015), Amman, Jordan
5) Clinicopathologic characteristics of Breast Cancer in Lebanon
KHCC-AUBMC-MDACC 4th Joint Conference (Oct 2015), Amman, Jordan

International and National Conferences Poster Presentations:

1) Reirradiation for anorectal cancers in patients with a history of prostate radiation therapy
ASTRO 2021 annual conference, Chicago, USA

2) Ablative Radiation Therapy (RT) Doses in Hepatocellular Carcinoma (HCC): Impact on Local Control, Survival, and Tumor-related Liver Failure
ASTRO 2020 annual conference, October 2020, USA

3) Predictors of Premature Ovarian Failure (POF) in Young Women with Locally Advanced Rectal Cancer (LARC) Treated with Pelvic Radiation Therapy (RT).
ASTRO 2020 annual conference, October 2020, USA

4) Survival and Patterns of Failure in Oligometastatic Esophagogastric Cancer
ASTRO 2020 annual conference, October 2020, USA

5) Electrons Only Internal Mammary Chain (IMC) Irradiation Technique Reduces Cardiac Toxicity Compared to Mixed Electron-Photons Technique in Left-Sided Breast Cancer.
ASTRO 2019 annual conference, Chicago, USA

6) A Novel Three Dimensional Conformal Radiation Therapy Technique to Decrease the Mean Parotid Gland Dose in Whole Brain Radiation Therapy.
ASTRO 2018 annual conference, San Antonio Texas, USA

7) Insomnia Incidence Among Breast Cancer Patients during Chemotherapy Management.
AUBMC Breast Cancer Conference (Feb 2015), Lebanon

8) Estimation of Creatinine Clearance for Carboplatin Dosing at NKBCI,
AUBMC 5th Annual AUB Biomedical Research Day (Feb 2015), Lebanon

7/2019 – 7/2020: E-contour website Memorial Sloan Kettering (MSK) content Manager

6/2016 – 7/2016: Scholars in Health Research Program (**SHARP**) certificate
American University of Beirut (AUB)
Funded by NIH grant.

11/2011 –5/2012: Research Workshop
Faculty of Medicine, American University of Beirut

EXTERNAL CLINICAL OBSERVERSHIPS:

9-2012: Endocrinology Elective
Georges Washington University
11-2013: Radiation Oncology observership, lymphoma
MD-Anderson Cancer Center (MDACC)
10-2014: Radiation Oncology observership, GI rotation
Memorial Sloan Kettering Cancer Center (MSKCC)
1-2018: Radiation Oncology observership, lymphoma and breast
MD-Anderson Cancer Center (MDACC)
3-2018: Radiation Oncology observership, Brachytherapy
Brigham and Women's hospital (BWH)
4-2018: Radiation Oncology observership, CNS, Lymphoma, Thoracic, GI and GYN
Memorial Sloan Kettering Cancer Center (MSKCC)
7/2019-7/2020: Radiation Oncology observership, GI, Breast and Thoracic rotations
Memorial Sloan Kettering Cancer Center (MSKCC)

CONFERENCES:

7/2022:	Best of ASCO (American Society of Clinical Oncology) 2022 Beirut, Lebanon
4/2022-Present	Series of Radiomics in Radiation therapy conferences organized by Hunan Cancer Center, China
10/2021:	American Society for Radiation Oncology (ASTRO) 2021 Annual Conference, Chicago/virtual
9/2019:	American Society for Radiation Oncology (ASTRO) 2019 Annual Conference, Chicago
5/2019:	European Society for Radiotherapy and Oncology (ESTRO) 38 Milan, Italy
10/2018:	American Society for Radiation Oncology (ASTRO) 2018 Annual Conference, San Antonio, Texas
12/2017:	European school of oncology (ESO) Masterclass in Clinical Oncology Limassol, Cyprus
5/2017:	European Society for Radiotherapy and Oncology (ESTRO) 36 Vienna, Austria
9/2016:	Best of ASCO (American Society of Clinical Oncology) 2016

Beirut, Lebanon

1/2016: Cancer in the Molecular Era
American University of Beirut Medical Center, Beirut, Lebanon

10/2015: KHCC-AUBMC- MDACC 4th joint Conference
Amman, Jordan

9/2015: Best of ASCO (American Society of Clinical Oncology) 2015
Beirut, Lebanon

2/2015: AUBMC Breast Cancer Conference
American University of Beirut, Lebanon

10/2014: Targeting Tumors with Radiation: Integrating Technological and Biological Advances.
Memorial Sloan Kettering Cancer Center, New York

4/ 2014: MEMA 2014 Updates: Focus on Hematological Malignancies
American University of Beirut, Lebanon

5/ 2013: MEMA 2013: A Global Health Forum: Advancing Patient and Community Health through Research and Education
American University of Beirut, Lebanon

REFERENCES:
Available upon request