JEFFREY Y.C. WONG, MD FASTRO

POSITION TITLE: Professor, Department of Radiation Oncology; Professor Department of Immunotherapy and Theranostics; and Co-Director of the Theranostics Program at City of Hope, Los Angeles, California

EDUCATION/TRAINING/EMPLOYMENT

Stanford University, Palo Alto, CA	BS	01/1977	Biology
Johns Hopkins University, Baltimore, MD	MD	05/1981	Medicine
Harbor-UCLA Medical Center, Los Angeles, CA	Intern	06/1982	Internal Medicine
University of California, San Francisco, CA	Resident	06/1985	Radiation Oncology

Positions and Scientific Appointments

1998 – Present	Professor, Department of Radiation Oncology
2018 – Present	Professor, Department of Immunology and Theranostics
1998 – 2020	Professor and Chair, Department of Radiation Oncology, City of Hope
1998 - 2004	Director, Division of Radiation Research, Dept. of Radiation Oncology City of Hope
1992 – 1998	Head, Section of Radiation Biology, Department of Radiation Oncology, City of Hope
1985 – Present	Radiation Oncologist, Department of Radiation Oncology, City of Hope, Duarte, CA

Personal Statement

I am Professor and Past-Chair of the Department of Radiation Oncology at City of Hope. I am also Professor in the Department of Immunology and Theranostics, and Co-Director of the City of Hope Theranostics Program. My primary areas of research include the development of novel strategies and agents for image-guided and biologically-targeted radiation therapy for patients with local, regional and systemic cancers. My career has focused on the development, translation and clinical evaluation of targeted radiopharmaceuticals for therapy, imaging, and image-guided radiotherapy in patients with solid tumors and hematopoietic malignancies. My research has also focused on the development, clinical evaluation and adoption of targeted total marrow irradiation (TMI), a form of organ sparing total body irradiation, in patients undergoing hematopoietic cell transplantation (HCT). I led a team that pioneered the use of TMI, developing the concept in 2001 and treating the first patient in 2005. I have helped to lead and develop the TMI program at City of Hope in collaboration with the Bone Marrow Transplant Program. In this role, I have been involved with the development and implementation of all TMI clinical trials at City of Hope to date, including 3 trials in multiple myeloma, 8 trials in advanced acute leukemia, and a long-term TMI toxicity trial. I have also helped lead the effort to use IMRT TBI at our center. I am the PI of a phase I trial that is the first to evaluate the combination of two forms of systemic targeted total body irradiation, TMI and immune-guided ^{90}Y-anti-CD25 targeted radioimmunotherapy in patients with CD25 positive acute leukemias undergoing HCT, which combines my interests and background in both TMI and radioimmunotherapy. Working with our team, I have collaborated with centers in North and South America, Asia and Europe to initiate TMI programs.

Citations and Relevant Publications:

1. **Wong, JYC**, Filippi, AR, Scorsetti, M., Hui, S., Muren, LP, Mancosu, P. Total Marrow/Lymphoid Irradiation in Bone Marrow Transplantation for Acute Leukemia. Lancet Oncology, 21: e477-e487, 2020.
2. **Wong, J.Y.C.**, Hui, S., Dandapani, S.V., Liu, A.: Biologic and Image Guided Systemic Radiotherapy. In *Advances in Radiation Oncology*. Wong, J.Y.C., Schultheiss, T.E., and Radany, E.H. (Eds.) Springer International Publishing, Heidelberg, Germany. 2017.
3. **Wong, J.Y.C**. and Hui, S. (Eds): Total Marrow Irradiation: A Comprehensive Review. Springer International Publishing, Heidelberg. June 2020.
4. Stein AS, Al Malki MM, Yang D, Palmer JM, Tsai NC, Aldoss I, Ali H, Aribi A, Artz A, Dandapani S, Farol L, Hui S, Liu A, Nakamura R, Pullarkat V, Radany E, Rosenthal J, Salhotra A, Sanchez JF, Spielberger R, Marcucci G, Forman SJ, **Wong J.** Total Marrow and Lymphoid Irradiation with Post-Transplantation Cyclophosphamide for Patients with AML in Remission. Transplant Cell Ther. 2022 Apr 6:S2666-6367(22)01190-3.
5. **Wong JYC**, Liu A, Han C, Dandapani S, Schultheiss T, Palmer J, Yang D, Somlo G, Salhotra A, Hui S, Al Malki MM, Rosenthal J, Stein A. Total marrow irradiation (TMI): Addressing an unmet need in hematopoietic cell transplantation - a single institution experience review. Front Oncol. 2022 Oct 3;12:1003908.
6. **Wong, J.Y.C.**, Liu, A., Schultheiss, T, Popplewell, L, Stein, A., Rosenthal, J, Essensten, M., Forman, S., Somlo, G. Targeted total marrow irradiation using three-dimensional image-guided tomographic intensity-modulated radiation therapy: An alternative to standard total body irradiation. Biology of Blood and Bone Marrow Transplantation. 12:306-315, 2006. PMID: 16503500
7. **Wong JY**, Rosenthal J, Liu A, Schultheiss T, Forman S, Somlo G. Image-guided total-marrow irradiation using helical tomotherapy in patients with multiple myeloma and acute leukemia undergoing hematopoietic cell transplantation. Int J Radiat Oncol Biol Phys. 2009 Jan 1;73(1):273-9. PMID: 18786784; PMCID: PMC3896447.
8. **Wong JY**, Forman S, Somlo G, Rosenthal J, Liu A, Schultheiss T, Radany E, Palmer J, Stein A. Dose escalation of total marrow irradiation with concurrent chemotherapy in patients with advanced acute leukemia undergoing allogeneic hematopoietic cell transplantation. Int J Radiat Oncol Biol Phys. 2013 Jan 1;85(1):148-56. PMID: 22592050; PMCID: PMC4312108.
9. Shinde, A, Yang, D., Frankel, P., Liu, A., Han, C., Del Vecchio, B., Schultheiss, T., Cheng, J., Li, R., Kim, D., Radany, E.H., Hui, S., Somlo, G., Rosenthal, J., Stein, A., Forman, S., **Wong, J.Y.C**. Radiation related toxicities using organ sparing total marrow irradiation transplant conditioning regimens. Int. J. Radiat. Oncol. Biol. Phys., 105(5):1025-1033, 2019. PMID: 31421151
10. Stein, A., Palmer, J., Tsai, N-C, Al Malki, M.M., Aldoss, I., Haris, A., Aribi, A., Farol, L., Karanes, C., Khaled, S., Liu, A., O'Donnell, M., Parker, P., Pawlowska, A., Pullarkat, V., Radany, E., Rosenthal, J., Sahebi, F., Salhotra, A., Sanchez, J.F., Schultheiss, T., Spielberger, R., Thomas, S.J., Snyder, D., Nakamura, R., Marcucci, G., Forman, S.J.. **Wong, J.Y.C**. Phase I trial of total marrow and lymphoid irradiation transplant conditioning in patients with relapsed/refractory acute leukemia. Biology of Bone Marrow Transplantation, 23:618-624, 2017.
11. Jensen, L.G., Stiller, T., **Wong, J.Y.C**., Palmer, J., Stein, A., Rosenthal, J. Total marrow lymphoid irradiation/Fludarabine/Melphalan conditioning for allogeneic hematopoietic cell transplantation. Biology of Blood and Marrow Transplantation, 24(2):301-307, 2018. PMID: 29032268
12. Rosenthal J, **Wong J**, Stein A, Qian D, Hitt D, Naeem H, Dagis A, Thomas SH, Forman S. Phase 1/2 trial of total marrow and lymph node irradiation to augment reduced-intensity transplantation for advanced hematologic malignancies. Blood. 2011 Jan 6;117(1):309-15. PMID: 20876852; PMCID: PMC3037752.
13. Somlo G, Spielberger R, Frankel P, Karanes C, Krishnan A, Parker P, Popplewell L, Sahebi F, Kogut N, Snyder D, Liu A, Schultheiss T, Forman S, **Wong JY**. Total marrow irradiation: a new ablative regimen as part of tandem autologous stem cell transplantation for patients with multiple myeloma. Clin Cancer Res. 2011 Jan 1;17(1):174-82. PMID: 21047977; PMCID: PMC3717559.
14. Stein AS, Al Malki MM, Yang D, Palmer JM, Tsai NC, Aldoss I, Ali H, Aribi A, Artz A, Dandapani S, Farol L, Hui S, Liu A, Nakamura R, Pullarkat V, Radany E, Rosenthal J, Salhotra A, Sanchez JF, Spielberger R, Marcucci G, Forman SJ, **Wong J**. Total Marrow and Lymphoid Irradiation with Post-Transplantation Cyclophosphamide for Patients with AML in Remission. Transplant Cell Ther. 2022(22):10. DOI: 10.1016/j.jtct.2022.03.025
15. Han, C., Liu, A., **Wong, J.Y.C**. Target Coverage and Normal Organ Sparing in Dose-Escalated Total Marrow and Lymphatic Irradiation: A Single-Institution Experience (2022) Frontiers in Oncology, DOI: 10.3389/fonc.2022.946725

Complete List of Published Work in My Bibliography:
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