

# Stanford

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## Luis Soto

Postdoctoral Scholar, Radiation Therapy

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#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , CANBI-PHD (2021)
- PhD, Stanford University , Cancer Biology (2021)
- M.S., San Francisco State University , Cell & Molecular Biology (2014)
- B.S., San Francisco State University , Cell & Molecular Biology (2012)

#### STANFORD ADVISORS

- Billy Loo, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **FLASH Irradiation Results in Reduced Severe Skin Toxicity Compared to Conventional-Dose-Rate Irradiation.** *Radiation research*  
Soto, L. A., Casey, K. M., Wang, J. n., Blaney, A. n., Manjappa, R. n., Breikreutz, D. n., Skinner, L. n., Dutt, S. n., Ko, R. B., Bush, K. n., Yu, A. S., Melemenidis, S. n., Strober, et al  
2020
- **FLASH-RT does not affect chromosome translocations and junction structures beyond that of CONV-RT dose-rates.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*  
Barghouth, P. G., Melemenidis, S., Montay-Gruel, P., Ollivier, J., Viswanathan, V., Jorge, P. G., Soto, L. A., Lau, B. C., Sadeghi, C., Edlabadkar, A., Zhang, R., Ru, N., Baulch, et al  
2023: 109906
- **FLASH-RT does not affect chromosome translocations and junction structures beyond that of CONV-RT dose-rates.** *bioRxiv : the preprint server for biology*  
Barghouth, P. G., Melemenidis, S., Montay-Gruel, P., Ollivier, J., Viswanathan, V., Jorge, P. G., Soto, L. A., Lau, B. C., Sadeghi, C., Edlabadkar, A., Manjappa, R., Wang, J., Bouteiller, et al  
2023
- **Real-time optical oximetry during FLASH radiotherapy using a phosphorescent nanoprobe.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*  
Ha, B., Liang, K., Liu, C., Melemenidis, S., Manjappa, R., Viswanathan, V., Das, N., Ashraf, R., Lau, B., Soto, L., Graves, E. E., Rao, J., Loo, et al  
2022
- **Evaluating the Reproducibility of Mouse Anatomy under Rotation in a Custom Immobilization Device for Conformal FLASH Radiotherapy.** *Radiation research*  
Ko, R. B., Soto, L. A., von Eyben, R. n., Melemenidis, S. n., Rankin, E. B., Maxim, P. G., Graves, E. E., Loo, B. W.  
2020
- **A near-infrared phosphorescent nanoprobe enables quantitative, longitudinal imaging of tumor hypoxia dynamics during radiotherapy.** *Cancer research*  
Zheng, X., Cui, L., Chen, M., Soto, L. A., Graves, E. E., Rao, J.  
2019
- **Macrophages Promote Circulating Tumor Cell-Mediated Local Recurrence following Radiotherapy in Immunosuppressed Patients** *CANCER RESEARCH*

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Rafat, M., Aguilera, T. A., Vilalta, M., Bronsart, L. L., Soto, L. A., von Eyben, R., Golla, M. A., Ahrari, Y., Melemenidis, S., Afghahi, A., Jenkins, M. J., Kurian, A. W., Horst, et al

2018; 78 (15): 4241-4252

- **The role of granulocyte macrophage colony stimulating factor (GM-CSF) in radiation-induced tumor cell migration** *CLINICAL & EXPERIMENTAL METASTASIS*  
Vilalta, M., Brune, J., Rafat, M., Soto, L., Graves, E. E.  
2018; 35 (4): 247-254
- **The role of granulocyte macrophage colony stimulating factor (GM-CSF) in radiation-induced tumor cell migration.** *Clinical & experimental metastasis*  
Vilalta, M., Brune, J., Rafat, M., Soto, L., Graves, E. E.  
2018
- **Macrophages Promote Circulating Tumor Cell-Mediated Local Recurrence Following Radiation Therapy in Immunosuppressed Patients.** *Cancer research*  
Rafat, M. n., Aguilera, T. A., Vilalta, M. n., Bronsart, L. L., Soto, L. A., von Eyben, R. n., Golla, M. A., Ahrari, Y. n., Melemenidis, S. n., Afghahi, A. n., Jenkins, M. J., Kurian, A. W., Horst, et al  
2018