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Kun Wei Song

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CLINICAL OFFICE (PRIMARY)

- **Neurology**

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Bio

CLINICAL FOCUS

- Neurology

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Adult Neurology

PROFESSIONAL EDUCATION

- Medical Education: Duke University School of Medicine (2017) NC
- Internship: Massachusetts General Hospital Internal Medicine Residency (2018) MA
- Residency: Brigham and Women's and Mass General Hospital Neurology Residency (2021) MA
- Fellowship: Massachusetts General Dana Farber Neuro Oncology Fellowship (2022) MA
- Fellowship: Stanford University Dept of Neurology (2023) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2021)
- Board Certification, United Council for Neurologic Subspecialties, Neuro-Oncology , Neuro-Oncology (2023)

Research & Scholarship

CLINICAL TRIALS

- GD2 CAR T Cells in Diffuse Intrinsic Pontine Gliomas(DIPG) & Spinal Diffuse Midline Glioma(DMG), Recruiting
- GPC2-CAR T Cell Therapy for Relapsed or Refractory Medulloblastoma in Children and Young Adults, Recruiting

Publications

PUBLICATIONS

- **Limited evidence of pseudoprogression following immune checkpoint inhibitor (ICI) therapy in glioblastoma.** *Neuro-oncology advances*
  Rhee, J. Y., Ospina Botero, J. P., Nelson, T., Song, K. W., Parsons, M. W., Gerstner, E. R., Dietrich, J.
  2026; 8 (1): vdaf232
- **Anti-CAR Immunity Drives Acquired Therapeutic Resistance to GD2-CAR T Cell Therapy in Diffuse Midline Glioma.** *medRxiv : the preprint server for health sciences*

Chen, Y., Reynolds, K., Koch, M. R., Petrakian, C. F., Good, Z., Yamada-Hunter, S., Sotillo, E., Song, K. W., Mahdi, J., Majzner, R., Desai, M. H., Huang, Y. W., Daghagh, et al

2026

- **Rapid Peak Cilta-cel Expansion is Associated with Delayed Neurotoxicity in Multiple Myeloma.** *Blood*

  Hosoya, H., Velayati, A., Dima, D., Jensen, A., Portuguese, A. J., Hovanky, V., Mikkilineni, L., Peres, L. C., Grajales-Cruz, A. F., Homsy, S., Rana, M. S., Cancilla, J., Patil, et al

  2026

- **CAR T cells for pediatric CNS tumors: Clinical experience and reverse translational opportunities.** *Molecular therapy. Oncology*

  Song, K. W., Kaur, A. P., Ramakrishna, S.

  2026; 34 (2): 201196

- **Peripheral Nerve Infiltration by CAR T-cells in a Case of Mononeuritis Multiplex after Ciltacabtagene Autoleucel.** *Blood cell therapy*

  Hosoya, H., Song, K. W., Dyson, K., Dufort, G., Sahaf, B., Rosenberg, A., Sidana, S., Miklos, D., Vogel, H., Fernandez-Pol, S., Muppidi, S., Scott, B., Mikkilineni, et al

  2026; 9 (2): 55-59

- **Longitudinal single-cell atlas of GD2-CAR T cell therapy in H3K27M-mutant diffuse midline glioma identifies humoral and cellular anti-CAR immunity**

  Chen, Y., Song, K., Desai, M. H., Huang, Y., Iswari, N., Ehlinger, Z. J., Daghagh, H., Koch, M. R., Reynolds, K., Mo, K. C., Tsui, K. C., Rietberg, S., Hamilton, et al

  AMER ASSOC CANCER RESEARCH.2026

- **Immunotherapies for Central Nervous System Tumors and their Neurologic Complications.** *Current neurology and neuroscience reports*

  Song, K. W., Scott, B. J.

  2026; 26 (1): 7

- **SINGLE-CELL LANDSCAPE OF B7H3-CAR T THERAPY IN GLIOMA: MECHANISMS OF RESISTANCE AND SIGNATURES OF LONG-TERM RESPONSE**

  Chen, Y., Song, K., Desai, M., Ehlinger, Z., Daghagh, H., Rietberg, S., Feeney, A., Tanner, K., Dyson, K., Stockdale, B., Dhapola, G., Lohman, C., Patil, et al

  OXFORD UNIV PRESS INC.2025: v13

- **GD2 as an Immunotherapeutic Target in Oligodendroglioma: Preclinical Evidence Supporting CAR T Cell Therapy**

  Song, K., Trivedi, V., Geraghty, A., Otubu, G., Kim, Y., Dyson, K., Mackall, C., Lopez, G., Monje, M.

  OXFORD UNIV PRESS INC.2025: v372

- **Clinical Impact of Intratumoral Cyst Decompression in Diffuse Intrinsic Pontine Glioma Patients: A Retrospective Analysis**

  Guinle, M., Kim, L., Casazza, M., Ravi, K., Song, K., Mahdi, J., Nguyen, T., Grant, G., Monje, M., Prolo, L.

  OXFORD UNIV PRESS INC.2025: v419

- **EVALUATION OF B7-H3 IMMUNOHISTOCHEMISTRY IN HIGH-GRADE GLIOMAS FOR CHIMERIC ANTIGEN RECEPTOR T-CELL PREDICTIVE TESTING**

  Dyson, K., Zuraski, C., Solomon, D., Li, G., Stocksdale, B., Song, K., Mahdi, J., Tanner, K., Bertrand, S., Iv, M., Threlkeld, Z., Ramakrishna, S., Sahaf, et al

  OXFORD UNIV PRESS INC.2025: v49-v50

- **HUMANIZED ANTI-CAR ANTIBODIES AFFECT DURABLE RESPONSE TO GD2-CAR T-CELLS IN DIFFUSE MIDLINE GLIOMA**

  Chen, Y., Song, K., Huang, Y., Iswari, N., Desai, M., Ehlinger, Z., Daghagh, H., Reynolds, K., Mahdi, J., Majzner, R., Richards, B., Kamens, J., Barsan, et al

  OXFORD UNIV PRESS INC.2025: v114

- **A phase 1 study of B7H3 CAR-T cells administered intracranially in recurrent glioblastoma.**

  Li, G., Stocksdale, B. R., Song, K., Mahdi, J., Tanner, K., Bertrand, S., Iv, M., Threlkeld, Z., Ramakrishna, S., Sahaf, B., Egeler, E., Charu, V., Tunuguntla, et al

  LIPPINCOTT WILLIAMS & WILKINS.2025: 2018

- **Complex neural-immune interactions shape glioma immunotherapy.** *Immunity*

  Song, K. W., Lim, M., Monje, M.

  2025

- **CAR T-cell therapy for gliomas.** *Current opinion in neurology*
  Song, K. W., Scott, B. J.
  2024; 37 (6): 672-681

- **Author Correction: Intravenous and intracranial GD2-CAR T cells for H3K27M+ diffuse midline gliomas.** *Nature*
  Monje, M., Mahdi, J., Majzner, R., Yeom, K. W., Schultz, L. M., Richards, R. M., Barsan, V., Song, K. W., Kamens, J., Baggott, C., Kunicki, M., Rietberg, S. P., Lim, et al
  2024

- **Intravenous and intracranial GD2-CAR T cells for H3K27M+ diffuse midline gliomas.** *Nature*
  Monje, M., Mahdi, J., Majzner, R., Yeom, K. W., Schultz, L. M., Richards, R. M., Barsan, V., Song, K. W., Kamens, J., Baggott, C., Kunicki, M., Rietberg, S. P., Lim, et al
  2024

- **MYELOID POPULATIONS MODULATE GD2 CAR T CELL ACTIVITY IN DIFFUSE MIDLINE GLIOMA**
  Ramakrishna, S., Geraghty, A., Good, Z., Desai, M., Mancusi, R., Mahdi, J., Song, K., Ehlinger, Z., Chen, Y., Hamilton, M., Rietberg, S., Majzner, R., Schultz, et al
  OXFORD UNIV PRESS INC.2024

- **SEQUENTIAL INTRAVENOUS AND INTRACEREBROVENTRICULAR GD2-CAR T-CELL THERAPY FOR H3K27M-MUTATED DIFFUSE MIDLINE GLIOMAS**
  Monje, M., Mahdi, J., Majzner, R. G., Yeom, K., Schultz, L. M., Richards, R., Barsan, V., Song, K., Kamens, J., Baggott, C., Kunicki, M., Lim, A., Reschke, et al
  OXFORD UNIV PRESS INC.2024

- **Neurotoxicity of Cancer Immunotherapies Including CAR T Cell Therapy.** *Current neurology and neuroscience reports*
  Song, K. W., Scott, B. J., Lee, E. Q.
  2023

- **Novel trial designs in neuro-oncology.** *Current opinion in neurology*
  Song, K., Wen, P. Y.
  2023

- **Immune checkpoint inhibitor (ICI) therapy in glioblastoma: Institutional experience at the Massachusetts General Hospital (MGH)**
  Rhee, J., Song, K., Arrillaga-Romany, I., Forst, D., Jordan, J. T., Ly, I., Plotkin, S., Wang, N., Parsons, M., Gerstner, E. R., Dietrich, J.
  LIPPINCOTT WILLIAMS & WILKINS.2023

- **Immune checkpoint inhibitor (ICI) therapy in glioblastoma: Institutional experience at the Massachusetts General Hospital (MGH).**
  Rhee, J., Song, K., Arrillaga-Romany, I., Forst, D., Jordan, J. T., Ly, I., Plotkin, S., Wang, N., Parsons, M., Gerstner, E. R., Dietrich, J.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 2065

- **GFAP astrocytopathy presenting after COVID-19 infection with meningoencephalomyelitis and good recovery with immunotherapy**
  Song, K., Oetjen, L., Harrold, G., Dietrich, J., Ly, K., Venna, N.
  LIPPINCOTT WILLIAMS & WILKINS.2023

- **Clinical Problem Solving: A 56-Year-Old Woman With Right Facial Weakness, Numbness, and Diplopia** *NEUROHOSPITALIST*
  Song, K., Budhu, J., Isroff, C., Siegmund, S., Castro, L.
  2022; 12 (3): 512-515

- **Treatment of Primary CNS Lymphoma: Maximizing Clinical Benefit, Minimizing Neurotoxicity** *CURRENT ONCOLOGY REPORTS*
  Song, K., Batchelor, T.
  2021; 23 (11): 132