

Stanford



Tanja A. Gruber

Chambers Family Endowed Professor for Pediatric Cancer
Pediatrics - Hematology & Oncology

CLINICAL OFFICES

- **Pediatric Hematology and Oncology**

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ACADEMIC CONTACT INFORMATION

- **Administrator**

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Oncology

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Bio

CLINICAL FOCUS

- Pediatrics
- Oncology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pediatrics - Hematology & Oncology

ADMINISTRATIVE APPOINTMENTS

- Division Chief, Pediatric Hematology, Oncology, Stem Cell Transplantation & Regenerative Medicine, (2020- present)
- Director, Bass Center for Childhood Cancer and Blood Diseases, Lucile Packard Children's Hospital, Stanford, (2020- present)
- Associate Director, Childhood Cancer, Stanford Cancer Institute, (2020- present)

PROFESSIONAL EDUCATION

- Fellowship: Childrens Hospital Los Angeles Hematology Oncology Fellowship (2009) CA
- Residency: Children's Hospital Los Angeles Pediatric Residency (2006) CA
- Medical Education: University of Southern California (2003) CA
- Board Certification: Pediatric Hematology-Oncology, American Board of Pediatrics (2001)

LINKS

- Gruber Lab Site: <https://med.stanford.edu/gruberlab.html>

Research & Scholarship

CLINICAL TRIALS

- A Trial of Epigenetic Priming in Patients With Newly Diagnosed Acute Myeloid Leukemia, Recruiting
- Palbociclib in Combination With Chemotherapy in Pediatric Patients With Relapsed or Refractory Acute Lymphoblastic Leukemia (REL Pall2), Recruiting

- Total Therapy for Infants With Acute Lymphoblastic Leukemia (ALL) I, Recruiting
- Relapsed Pediatric AML to Determine the Safety and Efficacy of the PARP Inhibitor Talazoparib in Combination With Conventional Chemotherapy, Not Recruiting

Publications

PUBLICATIONS

- **The landscape of coding RNA editing events in pediatric cancer.** *BMC cancer*
Wen, J., Rusch, M., Brady, S. W., Shao, Y., Edmonson, M. N., Shaw, T. I., Powers, B. B., Tian, L., Easton, J., Mullighan, C. G., Gruber, T., Ellison, D., Zhang, et al
2021; 21 (1): 1233
- **Comprehensive analysis of dose intensity of acute lymphoblastic leukemia chemotherapy.** *Haematologica*
Karol, S. E., Pei, D., Smith, C. A., Liu, Y., Yang, W., Kornegay, N. M., Panetta, J. C., Crews, K. R., Cheng, C., Finch, E. R., Inaba, H., Metzger, M. L., Rubnitz, et al
2021
- **Novel pediatric AML patient risk stratification by inferred protein activity through integrative network analysis and machine learning.**
Alloy, A. P., Pavisic, J., Ries, R. E., Gruber, T., Zwaan, C., Den Boer, M. L., Downing, J. R., Ferrando, A., Meshinchi, S., Califano, A.
AMER ASSOC CANCER RESEARCH.2021
- **Prognostic and therapeutic significance of leukemia subtypes in the context of risk-directed therapy based on minimal residual disease levels in pediatric acute lymphoblastic leukemia.**
Jeha, S., Choi, J. K., Pei, D., Coustan-Smith, E., Inaba, H., Rubnitz, J. E., Ribiero, R. C., Gruber, T. A., Raimondi, S. C., Karol, S. E., Roberts, K. G., Yang, J. J., Cheng, et al
AMER ASSOC CANCER RESEARCH.2021
- **Clinicopathologic and prognostic features of TdT-negative pediatric B-lymphoblastic leukemia.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Klairmont, M. M., Zhou, Y., Cheng, C., Pui, C., Jeha, S., Gruber, T. A., Liu, Y., Inaba, H., Choi, J. K.
2021
- **Inotuzumab ozogamicin in infants and young children with relapsed or refractory acute lymphoblastic leukaemia: a case series.** *British journal of haematology*
Brivio, E., Chantrain, C. F., Gruber, T. A., Thanos, A., Rialland, F., Contet, A., Elitzur, S., Dalla-Pozza, L., Kallay, K. M., Li, C., Kato, M., Markova, I., Schmiegelow, et al
2021
- **Sensitive GATA1 mutation screening reliably identifies neonates with Down syndrome at risk for myeloid leukemia.** *Leukemia*
Goemans, B. F., Noort, S., Blink, M., Wang, Y., Peters, S. T., van Wouwe, J. P., Kaspers, G., de Haas, V., Kollen, W. J., van der Velden, V. H., Gruber, T. A., Zwaan, C. M.
2021
- **The acquisition of molecular drivers in pediatric therapy-related myeloid neoplasms.** *Nature communications*
Schwartz, J. R., Ma, J., Kamens, J., Westover, T., Walsh, M. P., Brady, S. W., Robert Michael, J., Chen, X., Montefiori, L., Song, G., Wu, G., Wu, H., Branstetter, et al
2021; 12 (1): 985
- **Integrative Genomic Analysis of Pediatric Myeloid-Related Acute Leukemias Identifies Novel Subtypes and Prognostic Indicators.** *Blood cancer discovery*
Fornerod, M., Ma, J., Noort, S., Liu, Y., Walsh, M. P., Shi, L., Nance, S., Liu, Y., Wang, Y., Song, G., Lamprecht, T., Easton, J., Mulder, et al
2021; 2 (6): 586-599
- **DNA Methylation Clusters and Their Relation to Cytogenetic Features in Pediatric AML.** *Cancers*
Lamba, J. K., Cao, X., Raimondi, S., Downing, J., Ribeiro, R., Gruber, T. A., Rubnitz, J., Pounds, S.
2020; 12 (10)
- **Menin inhibitor MI-3454 induces remission in MLL1-rearranged and NPM1-mutated models of leukemia.** *The Journal of clinical investigation*
Klossowski, S. n., Miao, H. n., Kempinska, K. n., Wu, T. n., Purohit, T. n., Kim, E. n., Linhares, B. M., Chen, D. n., Jih, G. n., Perkey, E. n., Huang, H. n., He, M. n., Wen, et al

2020; 130 (2): 981–97

- **Improved CNS Control of Childhood Acute Lymphoblastic Leukemia Without Cranial Irradiation: St Jude Total Therapy Study 16.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Jeha, S. n., Pei, D. n., Choi, J. n., Cheng, C. n., Sandlund, J. T., Coustan-Smith, E. n., Campana, D. n., Inaba, H. n., Rubnitz, J. E., Ribeiro, R. C., Gruber, T. A., Raimondi, S. C., Khan, et al
2019; 37 (35): 3377–91
- **De novo activating mutations drive clonal evolution and enhance clonal fitness in KMT2A-rearranged leukemia.** *Nature communications*
Hyrenius-Wittsten, A. n., Pilheden, M. n., Stuesson, H. n., Hansson, J. n., Walsh, M. P., Song, G. n., Kazi, J. U., Liu, J. n., Ramakrishnan, R. n., Garcia-Ruiz, C. n., Nance, S. n., Gupta, P. n., Zhang, et al
2018; 9 (1): 1770
- **Prognostic impact of t(16;21)(p11;q22) and t(16;21)(q24;q22) in pediatric AML: a retrospective study by the I-BFM Study Group.** *Blood*
Noort, S. n., Zimmermann, M. n., Reinhardt, D. n., Cuccuini, W. n., Pigazzi, M. n., Smith, J. n., Ries, R. E., Alonzo, T. A., Hirsch, B. n., Tomizawa, D. n., Locatelli, F. n., Gruber, T. A., Raimondi, et al
2018; 132 (15): 1584–92
- **Pediatric non-Down syndrome acute megakaryoblastic leukemia is characterized by distinct genomic subsets with varying outcomes.** *Nature genetics*
de Rooij, J. D., Branstetter, C. n., Ma, J. n., Li, Y. n., Walsh, M. P., Cheng, J. n., Obulkasim, A. n., Dang, J. n., Easton, J. n., Verboon, L. J., Mulder, H. L., Zimmermann, M. n., Koss, et al
2017; 49 (3): 451–56
- **Clinical impact of minimal residual disease in children with different subtypes of acute lymphoblastic leukemia treated with Response-Adapted therapy.** *Leukemia*
Pui, C. H., Pei, D. n., Raimondi, S. C., Coustan-Smith, E. n., Jeha, S. n., Cheng, C. n., Bowman, W. P., Sandlund, J. T., Ribeiro, R. C., Rubnitz, J. E., Inaba, H. n., Gruber, T. A., Leung, et al
2017; 31 (2): 333–39
- **AMKL chimeric transcription factors are potent inducers of leukemia.** *Leukemia*
Dang, J. n., Nance, S. n., Ma, J. n., Cheng, J. n., Walsh, M. P., Vogel, P. n., Easton, J. n., Song, G. n., Rusch, M. n., Gedman, A. L., Koss, C. n., Downing, J. R., Gruber, et al
2017; 31 (10): 2228–34
- **The genomic landscape of core-binding factor acute myeloid leukemias.** *Nature genetics*
Faber, Z. J., Chen, X. n., Gedman, A. L., Boggs, K. n., Cheng, J. n., Ma, J. n., Radtke, I. n., Chao, J. R., Walsh, M. P., Song, G. n., Andersson, A. K., Dang, J. n., Dong, et al
2016; 48 (12): 1551–56
- **The genomic landscape of juvenile myelomonocytic leukemia** *NATURE GENETICS*
Stieglitz, E., Taylor-Weiner, A. N., Chang, T. Y., Gelston, L. C., Wang, Y., Mazor, T., Esquivel, E., Yu, A., Seepo, S., Olsen, S. R., Rosenberg, M., Archambeault, S. L., Abusin, et al
2015; 47 (11): 1326–?
- **The landscape of somatic mutations in infant MLL-rearranged acute lymphoblastic leukemias.** *Nature genetics*
Andersson, A. K., Ma, J. n., Wang, J. n., Chen, X. n., Gedman, A. L., Dang, J. n., Nakitandwe, J. n., Holmfeldt, L. n., Parker, M. n., Easton, J. n., Huether, R. n., Kriwacki, R. n., Rusch, et al
2015; 47 (4): 330–37
- **Clinical utility of sequential minimal residual disease measurements in the context of risk-based therapy in childhood acute lymphoblastic leukaemia: a prospective study.** *The Lancet. Oncology*
Pui, C. H., Pei, D. n., Coustan-Smith, E. n., Jeha, S. n., Cheng, C. n., Bowman, W. P., Sandlund, J. T., Ribeiro, R. C., Rubnitz, J. E., Inaba, H. n., Bhojwani, D. n., Gruber, T. A., Leung, et al
2015; 16 (4): 465–74
- **Germline Mutations in Predisposition Genes in Pediatric Cancer.** *The New England journal of medicine*
Zhang, J. n., Walsh, M. F., Wu, G. n., Edmonson, M. N., Gruber, T. A., Easton, J. n., Hedges, D. n., Ma, X. n., Zhou, X. n., Yergeau, D. A., Wilkinson, M. R., Vadodaria, B. n., Chen, et al
2015; 373 (24): 2336–46
- **Whole-exome sequencing identifies a novel somatic mutation in MMP8 associated with a t(1;22)-acute megakaryoblastic leukemia.** *Leukemia*
Kim, Y. n., Schulz, V. P., Satake, N. n., Gruber, T. A., Teixeira, A. M., Halene, S. n., Gallagher, P. G., Krause, D. S.

2014; 28 (4): 945–48

- **The landscape of somatic mutations in epigenetic regulators across 1,000 paediatric cancer genomes.** *Nature communications*
Huether, R. n., Dong, L. n., Chen, X. n., Wu, G. n., Parker, M. n., Wei, L. n., Ma, J. n., Edmonson, M. N., Hedlund, E. K., Rusch, M. C., Shurtleff, S. A., Mulder, H. L., Boggs, et al
2014; 5: 3630
- **An *Inv(16)(p13.3q24.3)*-encoded *CBFA2T3-GLIS2* fusion protein defines an aggressive subtype of pediatric acute megakaryoblastic leukemia.** *Cancer cell*
Gruber, T. A., Larson Gedman, A. n., Zhang, J. n., Koss, C. S., Marada, S. n., Ta, H. Q., Chen, S. C., Su, X. n., Ogden, S. K., Dang, J. n., Wu, G. n., Gupta, V. n., Andersson, et al
2012; 22 (5): 683–97