Name	Kristen E. Schratz, MD
Current Position & Affiliation	Assistant Professor, Department of Oncology Johns Hopkins University School of Medicine
Country	United States
Major Field	Pediatric Hematology/Oncology, Cancer Genetics, Bone marrow failure syndromes

Educational Background

2008	Bachelor of Science in Biochemistry, *magna cum laude* Boston College, Chestnut Hill, Massachusetts
2012	Doctor of Medicine University of Maryland School of Medicine, Baltimore, Maryland
2012 – 2015	Internship and Residency in Pediatrics Morgan Stanley Children's Hospital, Columbia University Medical Center, New York, New York
2015 – 2018	Fellowship in Pediatric Hematology/Oncology Johns Hopkins University School of Medicine/National Institutes of Health
2016 – 2020	Post-doctoral Research Fellow, Department of Oncology (Mary Armanios, Mentor), Johns Hopkins University School of Medicine

Professional Experience

2020 –	Instructor, Department of Oncology, Johns Hopkins University School of Medicine
2022 –	Assistant Professor, Department of Oncology, Johns Hopkins University School of Medicine

Other Experience and Professional Memberships

Professional Societies

2010-2016 American Academy of Pediatrics, Member
2015 - American Society of Hematology, Associate Member

Professional Session Moderator

12/8/19 American Society of Hematology Annual Meeting, Oral Abstract, Bone Marrow Failure: Emerging Treatment Strategies and Clinical Insights in Bone Marrow Failure, Orlando, FL

CME instruction

4/22/18 Lecturer for Johns Hopkins Annual Pediatric Trends educational series for community pediatricians on the topic of macrocytic anemia
08/12/2025 *Kaiser Permanente Northern California Regional Genetics Education webinar*

Teaching Experience

Current
2020 - Supervise 2 fellows and 2-3 pediatric residents during inpatient clinical service, give didactic hematologic malignancies lectures to pediatric residents and genetics and hematologic malignancy lectures to pediatric hematology/oncology fellows

2021 -	Supervise Pediatric Hematology/Oncology fellows during bi-weekly outpatient clinic
2022 -	Pathology residents lecture on inherited predisposition to hematologic malignancy
2022 -	Current Topics in Clinical Genetics seminars for Genetics residents and fellows on (i) Inherited Bone Marrow Failure Syndromes and Predisposition to Hematologic Malignancies and (ii) Telomere Syndromes

Mentoring

Pre-doctoral Mentees

2021 - Sheila K Iyer [undergraduate to postbaccalaureate] accepted to multiple MD/PhD programs
2024 - Hannan Davidson [genetic counselor]

Grant review

Peer reviewer for CDMRP-BMFRP

Journal Review

American Journal of Hematology, 2021
Blood, 2021
Frontiers in Oncology, 2022
Leukemia, 2023
Annals of Hematology, 2024
Journal of Clinical Investigation, 2024
European Respiratory Journal, 2025

Other Professional Accomplishments

2017-2018 Certificate in the Science of Clinical Investigation – I completed a one-year course organized by the Bloomberg School of Public Health and the Johns Hopkins University School of Medicine

Main Scientific Publications

Original Research

1. **Schratz KE**, Haley L, Danoff SK, Blackford AL, DeZern AE, Gocke CD, Duffield AS, Armanios M. Cancer spectrum and outcomes in the Mendelian short telomere syndromes. *Blood*. 2020 May 28;135(22):1946-1956. doi: 10.1182/blood.2019003264.PMID: 32076714
2. Knoll J, Li A, Smith CH, **Schratz KE**, Meah T, Helmke E, Cooper S, Pratilas CA, Bodurtha J. Improving Detection of Cancer Predisposition Syndromes in Pediatric Oncology. *J Pediatr Hematol Oncol*. 2021 Aug 1;43(6):e891-e896.
3. **Schratz KE**, Gaysinskaya V, Cosner ZL, DeBoy EA, Xiang Z, Kasch-Semenza L, Florea L, Shah PD, Armanios M. Somatic reversion impacts myelodysplastic syndromes and acute myeloid leukemia evolution in the short telomere disorders. *J Clin Invest*. 2021 Sep 15;131(18):e147598. doi: 10.1172/JCI147598. PMID: 34343137
4. Li KA, Sloat LM, Kung J, Jung J, Li A, Smith CH, **Schratz KE**, Cooper SL, Pratilas CA, Frankenfield P, Bodurtha J. Considerations in Methods and Timing for Delivery of Genetic Counseling Information to Pediatric Oncology Patients and Families. *J Pediatr Hematol Oncol.* 2022 Aug 1;44(6):313-317. doi: 10.1097/MPH.0000000000002376. Epub 2021 Dec 30. PMID: 34966100
5. **Schratz KE**, Flasch DA, Atik CC, Cosner ZL, Blackford AL, Yang W, Gable DL, Vellanki PJ, Xiang Z, Gaysinskaya V, Vonderheide RH, Rooper LM, Zhang J, Armanios M. T cell immune deficiency rather than chromosome instability predisposes patients with short telomere syndromes to squamous cancers. *Cancer Cell.* 2023 Apr 10;41(4):807-817.e6. doi: 10.1016/j.ccell.2023.03.005. Epub 2023 Apr 2. PMID: 37037617
6. DeBoy EA*, Tassia MG*, **Schratz KE**, Yan SM, Cosner ZL, McNally EJ, Gable DL, Xiang Z, Lombard DB, Antonarakis ES, Gocke CD, McCoy RC, Armanios M. Familial Clonal Hematopoiesis in a Long Telomere Syndrome. *N Engl J Med*. 2023 Jun 29;388(26):2422-2433. doi: 10.1056/NEJMoa2300503. Epub 2023 May 4. PMID: 37140166. *Contributed equally

7. Light J, **Schratz KE**, Nanegrungsunk O, Rudnick N, Armanios M and Bressler NM. Adult-onset Presentations of Retinopathy Associated with Short Telomere Syndromes. *J Vitreoretin Dis*. Epub 2025 Feb 3. doi: 10.1177/24741264251316324. PMID: 39911301

Review Articles

1. **Schratz KE** and DeZern AE. Genetic predisposition to myelodysplastic syndrome in clinical practice. *Hematol Oncol Clin North Am*. 2020;34:333-356.
2. **Schratz KE** and Armanios M. Cancer and myeloid clonal evolution in the short telomere syndromes. *Curr Opin Genet Dev*. 2020;60:112-118.
3. **Schratz KE.** Extrahematopoietic Manifestations of the Short Telomere Syndromes. *Hematology Am Soc Hematol Educ Program*. 2020 Dec 4;2020(1):115-122.
4. **Schratz, KE**. Clonal evolution in inherited marrow failure syndromes predicts disease progression. *Hematology Am Soc Hematol Educ Program*. 2023 Dec 8;2023(1):125-134. doi: 10.1182/hematology.2023000469. PMID: 38066914