



SUMIT GUPTA

CURRICULUM VITAE

Present Title and Affiliation

Primary Appointment

Physician, Pediatric Hematology-Oncology
Cure 4 The Kids Foundation, Las Vegas, NV
Since July 1, 2021

Academic Appointments

- 1) Clinical Assistant Professor
Kirk Kerkorian School of Medicine
University of Nevada, Las Vegas (UNLV)
Since May 03, 2022

- 2) Clinical Assistant Professor
Roseman University College of Medicine,
Las Vegas, Nevada
Since July 22, 2021

- 3) Adjunct Assistant Professor
College of Osteopathic Medicine,
Touro University, Las Vegas, Nevada
Since November 11, 2021

Address

Home:

9925 W Russell Rd
Unit 1082
Las Vegas, NV 89148
Cell: 614-632-9759

Office:

Cure 4 The Kids Foundation
1 Breakthrough Way
Las Vegas, NV 89135
Phone: 702-732-1493
Fax: 702-732-1080

Primary email: sumit_hp303@yahoo.co.in

Work email: sgupta@cure4thekids.org

EDUCATION

Clinical Fellowship (Chief Fellow in PGY-6) Pediatric Hematology/Oncology University of Texas MD Anderson Cancer Centre Houston, TX, USA	07/2018 – 06/2021
Clinical Residency (Chief Resident in PGY-3) Pediatrics Mount Sinai Hospital, Chicago, IL, USA	07/2015 – 6/2018
MEDICAL SCHOOL Kasturba Medical College, Manipal, Manipal University, India Degree Awarded: M.B.B.S. (Bachelor of Medicine & Bachelor of Surgery) Graduation: 02/2014	08/2007 – 2/2014

Certifications

Pediatric Advanced Life Support	05/2023 – 05/2025
American Board of Pediatrics – Pediatric Hematology/Oncology	04/2023
Advanced Cardiac Life Support	06/2021 – 05/2023
Kymriah Certification	07/2019
American Board of Pediatrics – General Pediatrics	10/2018
CARTOX Certification	09/2018
ECFMG Certification	08/2014

Licensures

Nevada – Medical Physician License	10/09/2020-06/30/2025
Maine – Medical Physician License	08/27/2020-11/30/2021
Texas – Physician in Training Permit	07/01/2018-06/30/2021
Pennsylvania – Medical Physician License	08/24/2018-12/31/2020
Karnataka Medical Council, India	07/21/2014 - Present

Work Experience/Employment:

Physician Pediatric Hematology/Oncology Cure 4 The Kids Foundation 1 Breakthrough Way Las Vegas, NV 89135	07/2021 – Present
Pediatric Hematology/Oncology Fellow, University of Texas MD Anderson Cancer Center Houston, TX 77030	07/2018 – 06/2021
Pediatric Resident, Mount Sinai Hospital, Chicago IL	07/2015 – 06/2018

Research Assistant (Volunteer) under Dr. Hakan Cam Department of Hematology/Oncology Nationwide Children's Hospital, Columbus, OH	09/2014 – 01/2015
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Administrative Appointments/Responsibilities

Chief Fellow, Pediatric Hematology/Oncology MD Anderson Cancer Center, Houston, TX, USA	07/2020 – 06/2021
Fellow Recruitment for Pediatric Hematology/Oncology Fellowship for year 2021-22, MD Anderson Cancer Center, Houston, TX, USA	08/2020 – 12/2020
Chief Resident, Pediatrics, Mount Sinai Hospital, Chicago, IL, USA	07/2017 – 06/2018
Class Representative and Member of Student Council Kasturba Medical College, Manipal, India	07/2010 – 12/2011

State/Institutional Committee Activities

Nevada Newborn Screening Advisory Committee	05/2023 – Present
Alternate Member, Roseman University of Health Sciences Institutional Review Board (IRB)	07/2022 – Present
MD Anderson Cancer Center, Houston, TX: Graduate Medical Education House Staff Senate	07/2019 – 06/2021
Fellowship Program Evaluation Committee	07/2019 – 06/2021
Mount Sinai Hospital, Chicago, IL Graduate Medical Education Committee	07/2016 – 06/2018
Pediatrics Residency Program Evaluation Committee	07/2017 – 06/2018

HONORS AND AWARDS

Early Career Award for 'Viroimmunotherapy in Diffuse Intrinsic Pontine Glioma' ASPHO (American Society of Pediatric Hematology & Oncology)	2021
Awesome Job Award MD Anderson Cancer Center, Houston, TX	2020
Research Grant Award by Chance for Life Foundation Alexandria, VA	2020
Outstanding Scholarly Achievement Award MD Anderson Cancer Center, Houston, TX	2020
Best Oral presentation at Sinai Research Day Mount Sinai Hospital, Chicago, IL	2018
2 nd place and 3 rd place in Oral Presentation at Sinai Research Day Mount Sinai Hospital, Chicago, IL	2017
Best Poster Award at ID-Medicon (Infectious Disease-MEDICON) Kasturba Medical College, Manipal, India	2011

Best Poster Award at 19th Aim Shan's International Student Conference 2011
Cairo, Egypt

Short Term Studentship (STS) Award by Indian Council of Medical Research, New Delhi, India
Topic: Thyroid dysfunction in patients with Acute Coronary Syndrome 2011

DFG-DST (German Research Foundation, Germany and Department of Science & Technology,
Government of India) Award: 2011
To attend prestigious 61st Lindau Nobel Laureate Meeting (Medicine/Physiology)

Short Term Studentship (STS) Award by Indian Council of Medical Research, New Delhi, India
Topic: Antibacterial and Antifungal properties of human cerumen 2010

ISCOMS (International Student Congress of Medical Sciences) Research Fellowship
University Medical Center Groningen (UCMG), Groningen, The Netherlands
Topic: 'Cross Reactivity between anti-infliximab antibodies and adalimumab in patient with
Crohn's disease
Mentor: Dr. Elise Van Der Logt, Department of Gastroenterology and Hepatology
2010

RESEARCH & PUBLICATIONS

Research Grant

Investigators: Dr. Candelaria Gomez-Manzano (Principal) and **Sumit Gupta** (Co-
Investigator)
Funded by: Chance For Life Foundation
Status: Funded
Research Topic: Armed Oncolytic virus for treatment of Pediatric DIPG
Laboratory Institute: University of Texas MD Anderson Cancer Center
Amount: \$247,594
Duration: 12/01/2020 – 05/31/2022

Research Studies

Principal Investigator:	Since
<ul style="list-style-type: none">110-504: A multicenter, multinational, observational Morquio A Registry Study (MARS)	08/11/2022
<ul style="list-style-type: none">DIREGC07005 Pompe Disease Registry	10/12/2022
<ul style="list-style-type: none">DIREGC07006 Fabry Disease Registry	10/12/2022
<ul style="list-style-type: none">DIREGC07008 Mucopolysaccharidosis I (MPS I) registry	10/12/2022
<ul style="list-style-type: none">DIREGC07009 International collaborative Gaucher Group (ICGG) Gaucher registry	10/12/2022

Sub-Investigator:

- IRB15-00399: Headstart IV – Newly diagnosed children (<10y/o) with medulloblastoma and other CNS embryonal tumors: Clinical and molecular risk-tailored intensive and compressed induction chemotherapy followed by consolidation with either single cycle (low risk patients) or randomization (high risk patients) to either single cycle or to three tandem cycles of marrow-ablative chemotherapy with autologous hematopoietic progenitor cell rescue.

- GBT2104-132: A randomized, double blinded, placebo-controlled, multicenter study of a single dose of Inclacumab to reduce re-admission in participants with Sickle Cell Disease and recurrent vaso-occlusive crisis. 06/02/2022
- AG348-C-020: A phase 3, double blind, randomized, placebo-controlled, multicenter study to evaluate the efficacy and safety of Mitapivat in subjects with Sickle Cell Disease 09/08/2022
- AG348-C-022: A phase 3, multicentric, randomized, double-blind placebo-controlled study to evaluate the efficacy and safety of Mitapivat in pediatric subjects with Pyruvate Kinase Deficiency who are regularly transfused, followed by a 5-year open-label extension period 08/09/2022
- VTS-270 IND#119856 Intrathecal 2-hydroxypropyl-B-cyclodextrin for Neurological decline in patients with Niemann Pick disease type C1 10/05/2021
- AVA-Ped-301: Avatrombopag for the treatment of thrombocytopenia in Pediatric subjects with Immune Thrombocytopenia for greater or equal to 6 months 09/21/2021

Published Research Articles

Ragoonanan D, Sheikh IN, **Gupta S**, Khazal SJ, Tewari P, Petropoulos D, Li S, Mahadeo KM. The Evolution of Chimeric Antigen Receptor T-Cell Therapy in Children, Adolescents and Young Adults with Acute Lymphoblastic Leukemia. *Biomedicines*. 2022 Sep 14;10(9):2286. doi: 10.3390/biomedicines10092286. PMID: 36140387; PMCID: PMC9496125.

Power EA, Rechberger JS, **Gupta S**, Schwartz JD, Daniels DJ, Khatua S. Drug delivery across the blood-brain barrier for the treatment of pediatric brain tumors - An update. *Adv Drug Deliv Rev*. 2022 Apr 21;185:114303. doi: 10.1016/j.addr.2022.114303. Epub 2022 Apr 21. PMID: 35460714.

Laspidea V, Puigdelloses M, Labiano S, Marrodán L, Garcia-Moure M, Zalacain M, Gonzalez-Huarriz M, Martínez-Vélez N, Ausejo-Mauleon I, de la Nava D, Herrador-Cañete G, Marco-Sanz J, Guruceaga E, de Andrea CE, Villalba M, Becher O, Squatrito M, Matía V, Gállego Pérez-Larraya J, Patiño-García A, **Gupta S**, Gomez-Manzano C, Fueyo J, Alonso MM. Exploiting 4-1BB immune checkpoint to enhance the efficacy of oncolytic virotherapy for diffuse intrinsic pontine gliomas. *JCI Insight*. 2022 Apr 8;7(7):e154812. doi: 10.1172/jci.insight.154812. PMID: 35393952.

Sana Mohiuddin, Stefania Maraka, Muhammad Usman Baig, **Sumit Gupta**, Tariq Muzzafar, Tibor Valyi-Nagy, Holly Lindsay, Karen Moody, Shehla Razvi, Arnold Paulino, Konstantin Slavin, Vinai Gondli, Ian McCutcheon, Wafik Zaky, Soumen Khatua; Case series of diffuse extraneural metastasis in H3F3A mutant high-grade gliomas: Clinical, molecular phenotype and literature review. *Journal of Clinical Neuroscience*, 2021, ISSN 0967-5868, <https://doi.org/10.1016/j.jocn.2021.05.033>.

Khatua S, Cooper LJJ, Sandberg DI, Ketonen L, Johnson JM, Rytting ME, Liu DD, Meador H, Trikha P, Nakkula RJ, Behbehani GK, Ragoonanan D, **Gupta S**, Kotrotsou A, Idris T, Shpall EJ, Rezvani K, Colen R, Zaky W, Lee DA, Gopalakrishnan V. Phase I study of intraventricular infusions of autologous ex vivo expanded NK cells in children with recurrent medulloblastoma and ependymoma. *Neuro Oncol*. 2020 Aug

17;22(8):1214-1225. doi: 10.1093/neuonc/noaa047. PMID: 32152626; PMCID: PMC7594549.

Chogtu B, Bairy K, Satyam SM, Pirasanthan R, **Gupta S**. Analgesic Modulation of Tramadol, Amitriptyline and Gabapentin in Male and Female Wistar Rats. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 2013;4(3):70-8

Gupta S, Singh R, Kosaraju K, Bairy I, Ramaswamy B. A study of antibacterial and antifungal properties of human cerumen. *Indian Journal of Otolaryngology*. 2012;18(4):189-92. Epub 19 December 2012. doi: 10.4103/0971-7749.104796. WOS:000219036400005

Published Abstracts:

Sumit Gupta, Virginia Laspidea, Juan Fueyo, Oren Becher, Teresa Nguyen, Dong Ho Shin, Hong Jiang, Sagar Sohoni, Xuejun Fan, Yanhua Yi, Joy Gumin, Candelaria Gomez-Manzano and Marta M. Alonso
Armed Oncolytic Adenovirus as experimental therapy for Pediatric Malignant gliomas

Annual meeting of American Society of Pediatric Hematology/Oncology 2022

Virginia Laspidea, Sara Labiano, **Sumit Gupta**, Hong Jiang, Iker Ausejo-Mauleon, Daniel de la Nava, Marc Garcia-Moure, Javier Marco-Sanz, Reyes Hernandez-Osuna, Oren Becher, Juan Fueyo, Ana Patino-Garcia, Candelaria Gomez-Manzano, Marta M Alonso
Delta-24-RGDOX oncolytic adenovirus improves the survival by modulating the immune system in DMG models

Submitted to AACR Annual Meeting, New Orleans, LA

2022

Virginia Laspidea, **Sumit Gupta**, Montserrat Puigdelloses, Sara Labiano, Iker Ausejo-Mauleon, Daniel de la Nava, Oren J Becher, Joy Gumin, Juan Fueyo, Candelaria Gomez-Manzano, Marta M Alonso, IMMU-06. DELTA-24-RGD EXPRESSING POSITIVE IMMUNE MODULATORS SHOW ANTI-DIPG EFFECT AND INCREASE TUMOR IMMUNE INFILTRATION, *Neuro-Oncology*, Volume 23, Issue Supplement_1, June 2021, Page i28, <https://doi.org/10.1093/neuonc/noab090.114>

Montserrat Puigdelloses, Virginia Laspidea, Dolores Hambardzumyan, Zhihong Chen, **Sumit Gupta**, Candelaria Gomez-Manzano, Sara Labiano, Oren J Becher, Trent Woodruff, Ruben Pío, Daniel Ajona, Jaime Gállego Pérez-Larraya, Marta M Alonso, IMMU-09. MODULATING THE MYELOID POPULATION IN DIPG MODELS WITH ONCOLYTIC VIRUS AND COMPLEMENT INHIBITORS SHOWS THERAPEUTIC EFFICACY, *Neuro-Oncology*, Volume 23, Issue Supplement_1, June 2021, Pages i28–i29, <https://doi.org/10.1093/neuonc/noab090.117>

Daniel de la Nava, Iker Ausejo-Mauleon, Virginia Laspidea, Lucía Marrodán, Marta Zalacain, Guillermo Herrador-Cañete, Javad Nazarian, Sabine Mueller, Joshua E Allen, Juan Fueyo, Candelaria Gomez-Manzano, **Sumit Gupta**, Ana Patiño, Marta M Alonso, HGG-15. THE IMIPRIDONE ONC201 IN COMBINATION WITH THE ONCOLYTIC ADENOVIRUS DELTA-24-RGD HAS A SYNERGISTIC EFFECT IN PRECLINICAL MODELS OF PHGGs AND DMGS, *Neuro-Oncology*, Volume 23, Issue Supplement_1, June 2021, Page i20, <https://doi.org/10.1093/neuonc/noab090.081>

Sumit Gupta, Virginia Laspidea, Juan Fueyo, Oren Becher, Teresa Nguyen, Dong Ho Shin, Hong Jiang, Sagar Sohoni, Xuejun Fan, Yanhua Yi, Joy Gumin, Candelaria Gomez-Manzano and Marta M. Alonso
Viroimmunotherapy for Diffuse Intrinsic Pontine Gliomas

Annual meeting of American Society of Pediatric Hematology/Oncology
Awarded Early Career Award 2021

Sumit Gupta, Virginia Laspidea, Juan Fueyo, Oren Becher, Teresa Nguyen, Dong Ho Shin, Hong Jiang, Sagar Sohoni, Xuejun Fan, Yanhua Yi, Joy Gumin, Frederick Lang, Candelaria Gomez-Manzano, Marta M. Alonso. Armed oncolytic virus for treatment of pediatric diffuse intrinsic pontine glioma [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2021; 2021 Apr 10-15 and May 17-21. Philadelphia (PA): AACR; Cancer Res 2021;81(13_Suppl):Abstract nr 3053

Teresa T. Nguyen, Dong Ho Shin, Hong Jiang, Derek A. Wainwright, Sagar Sohoni, **Sumit Gupta**, Ashley Ossimetha, Frederick Lang, Marta Alonso, Candelaria Gomez-Manzano, Juan Fueyo. Inhibition of the IDO-Kyn-AhR cascade optimizes virotherapy in glioblastoma and depends on CD4 T-cell activation [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2021; 2021 Apr 10-15 and May 17-21. Philadelphia (PA): AACR; Cancer Res 2021;81(13_Suppl):Abstract nr 1785.

Dong Ho Shin, Teresa T. Nguyen, Hong Jiang, Xuejun Fan, Yanhua Yi, Sagar S. Sohoni, **Sumit Gupta**, Ashley Ossimetha, Candelaria Gomez-Manzano, Juan Fueyo. Evasion of neutralizing antibodies and enhanced anti-tumor effects of hexon-modified Delta-24-RGD oncolytic adenovirus [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2021; 2021 Apr 10-15 and May 17-21. Philadelphia (PA): AACR; Cancer Res 2021;81(13_Suppl):Abstract nr 1912.

Sagar Shashikant Sohoni, Teresa Nguyen, Dong Ho Shin, Xuejun Fan, Jiang Hong, **Sumit Gupta**, Ashley Ossimetha, Yanhua Yi, Chandra Bartholomeusz, Marta Alonso, Juan Fueyo, Candelaria Gomez-Manzano. Targeting the immunosuppressive microenvironment of metastatic breast cancer with viroimmunotherapy [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2021; 2021 Apr 10-15 and May 17-21. Philadelphia (PA): AACR; Cancer Res 2021;81(13_Suppl):Abstract nr 1786

Hong Jiang, Teresa T. Nguyen, Dong Ho Shin, Sagar S. Sohoni, **Sumit Gupta**, Yanhua Yi, Xuejun Fan, Candelaria Gomez-Manzano, Juan Fueyo. Oncolytic adenovirus Delta-24-RGDOX collaborates with adoptive cell therapy to sustain anti-tumor immunity [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2021; 2021 Apr 10-15 and May 17-21. Philadelphia (PA): AACR; Cancer Res 2021;81(13_Suppl):Abstract nr 1579.

Sumit Gupta, Xiangjun Tian, Jing Wang, Jason Huse, Laurence Rhines, Wafik Zaky, Claudio Tatsui, Soumen Khatua, EPEN-10. SPINAL MYXOPAPILLARY EPENDYMOMA AND METHYLATION-PROFILING: THE MD ANDERSON CANCER CENTER (MDACC) EXPERIENCE, *Neuro-Oncology*, Volume 22, Issue Supplement_3, December 2020, Pages iii309–iii310, <https://doi.org/10.1093/neuonc/noaa222.150>

Sumit Gupta, Dristhi Ragoonanan, Nelda Itzep, David Sandberg, Greg Fuller, Leena Ketonen, Heather Meador, Wafik Zaky, Soumen Khatua, ETMR-04. EMBRYONAL TUMOR WITH MULTILAYERED ROSETTES: THE MD ANDERSON CANCER CENTER EXPERIENCE, *Neuro-Oncology*, Volume 22, Issue Supplement_3, December 2020, Page iii323, <https://doi.org/10.1093/neuonc/noaa222.208>

Muhammad Baig, Jason Johnson, **Sumit Gupta**, Zsila Sadighi, Wafik Zaky, Soumen Khatua, EPCT-06. A PHASE I STUDY OF MULTI-TARGETED THERAPY IN NEWLY DIAGNOSED OR PROGRESSIVE DIFFUSE INTRINSIC PONTINE GLIOMA, *Neuro-*

Oncology, Volume 22, Issue Supplement_3, December 2020, Pages iii304–iii305,
<https://doi.org/10.1093/neuonc/noaa222.130>

Mohiuddin S, Maraka S, Baig U, **Gupta S**, Fuller G, Valyi-Nagy T, Paulino A, Moody K, Zaky W, Khatua S

Case series of diffuse extra-neural metastasis in H3F3A mutant high grade gliomas – clinical, molecular phenotype and literature review
International Symposium for Pediatric Neuro-Oncology, Japan 2020

Muhammed Baig, Maureen Mork, Soumen Khatua, John Slopis, Wafik Zaky, Racheal Bingham, **Sumit Gupta**, Greg Fuller, Zsila Sadighi, NFB-06. TREATMENT CHALLENGES IN PEDIATRIC GLIOBLASTOMA MULTIFORME WITH CONCURRENT SOMATIC AND GERMLINE NF1 MUTATIONS WITH GERMLINE MISMATCH REPAIR MUTATIONS: TWO UNIQUE CASES, *Neuro-Oncology*, Volume 22, Issue Supplement_3, December 2020, Pages iii418–iii419,
<https://doi.org/10.1093/neuonc/noaa222.610>

Dong Ho Shin, Teresa Nguyen, Hong Jiang, Sagar Sohoni, **Sumit Gupta**, Ashley Ossimetha, Marta M Alonso, Candelaria Gomez-Manzano, Juan Fueyo, EXTH-39. HEXON SWAPPING MITIGATES ANTI-VIRAL IMMUNE RESPONSE DURING BRAIN TUMOR VIROTHERAPY, *Neuro-Oncology*, Volume 22, Issue Supplement_2, November 2020, Page ii95, <https://doi.org/10.1093/neuonc/noaa215.393>

Teresa Nguyen, Dong Ho Shin, Hong Jiang, Derek Wainwright, Sagar Sohoni, **Sumit Gupta**, Ashley Ossimetha, Frederick Lang, Marta M Alonso, Juan Fueyo, Candelaria Gomez-Manzano, EXTH-45. DELTA-24-RGDOX ACTIVATION OF THE IDO-KYN-AHR CASCADE IN GLIOBLASTOMA: OLD TARGETS FOR A NEW THERAPY, *Neuro-Oncology*, Volume 22, Issue Supplement_2, November 2020, Pages ii96–ii97,
<https://doi.org/10.1093/neuonc/noaa215.399>

Virginia Laspidea, Montserrat Puigdelloses, Naiara Martinez-Velez, Marc Garcia-Moure, Sara Labiano, Iker Ausejo, Ana Patiño-García, Oren J Becher, Hong Jiang, **Sumit Gupta**, Juan Fueyo, Candelaria Gomez-Manzano, Marta M Alonso, IMMU-14. ONCOLYTIC ADENOVIRUS DELTA-24-RGD ENGINEERED TO EXPRESS 4-1BBL AS A THERAPEUTIC APPROACH FOR DIPG, *Neuro-Oncology*, Volume 22, Issue Supplement_2, November 2020, Page ii107, <https://doi.org/10.1093/neuonc/noaa215.444>

Dristhi Ragoonanan, Suzanne Gettys, **Sumit Gupta**, Lindsay Robusto, Demetrious Petropoulos, Kris Mahadeo, Sajad Khazal, Priti Tewari. Optimizing Vancomycin Dosing in the Pediatric Hematopoietic Stem Cell Transplant Population. *Pediatric Blood & Cancer*, vol. 67, pp. S220-s220. 2020

Muhammed Baig, Greg Fuller, **Sumit Gupta**, Grace Tran, Maureen Mork, John Slopis, Carlos Kamiya, Soumen Khatua, Wafik Zaky, Zsila Sadighi, PDCT-02. UNIQUE CONCURRENT ASSOCIATION OF SOMATIC AND GERMLINE NF1 MUTATIONS WITH GERMLINE MISMATCH REPAIR MUTATIONS IN PEDIATRIC GLIOBLASTOMA MULTIFORME, *Neuro-Oncology*, Volume 21, Issue Supplement_6, November 2019, Page vi183, <https://doi.org/10.1093/neuonc/noz175.766>

Gomez-Manzano C, Jiang H, Shin DH, Nguyen T, Fan X, Yi Y, Lang F, **Gupta S**, Sohoni S, Jiang XR, Ossimetha A, Fueyo J. Abscopal effect of Delta-24-RGDOX Oncolytic Adenovirus in Brain Metastatic Melanoma
23rd International Conference on Brain Tumor Research and Therapy 2020

Fueyo J, Nguyen T, Shin DH, Jiang H, Fan X, Yi Y, Lang F, **Gupta S**, Sohoni S, Jiang XR, Ossimetha A, Wainwright DA, Gomez-Manzano C. Four reasons why IDO matters in brain tumor virotherapy
23rd International Conference on Brain Tumor Research and Therapy 2020

Khatua S, Idris T, Kotrotsou A, **Gupta S**, Zaky WT, Gopalakrishnan V, Lee DA, Colen RR. MRI based radiomic signature to predict treatment response to intraventricular natural killer (NK) cell infusion therapy for recurrent/refractory pediatric brain tumors. *Journal of Clinical Oncology*. 2019;37(15_suppl):e21511-e.
doi:10.1200/JCO.2019.37.15_suppl.e21511

Gupta S, Srinivasan G, Ying SC.

Trends and Zipcodes associated with Lead poisoning in Chicago: What level is safe? *Pediatrics*. 2018;142(1 MeetingAbstract):786doi:10.1542/peds.142.1_Meeting Abstract.786

Singh R, Bairey I, **Gupta S**. A Study of Antibacterial and Antifungal Properties of Human Cerumen. *Otolaryngology–Head and Neck Surgery*. 2011;145(2_suppl):P85-P85.
doi:10.1177/0194599811416318a140

Published Book Chapters

Chapter: The Emerging Landscape of 18-F-FDG PET/CT in Pediatric and Adolescent Sarcoma

Authors: **Sumit Gupta**, Douglas J Harrison, Marguerite T. Parisi, Barry L. Shulkin
Book: Nuclear Oncology: From Pathophysiology to Clinical Applications
Publisher: Springer

Chapter: Evolving Molecular Biology, Targeted Therapeutics and Neurocognitive Deficits in Neurofibromatosis 1

Authors: **Sumit Gupta**, Jonathan D. Schwartz, David J. Daniels, Ruby Siada, Peter I. Stavinoha, Soumen Khatua
Book: Neurofibromatosis Type 1: Diagnosis, Prevalence and Quality of Life
Publisher: Nova Publisher, ISBN-13: 978-1-53619-626-9

Chapter: Targeted therapeutics in Pediatric High-Grade Gliomas

Authors: Khatua S, **Gupta S**, Toll S, Schwartz, J
Book: Horizons in Cancer Research, Volume 78
Publisher: Nova Publisher, ISBN-13: 978-1536187731; ISBN-10: 1536187739

Chapter: NK cells in brain tumors: from biology to treatment

Authors: Jawad Fares, **Sumit Gupta**, Vidya Gopalakrishnan, Soumen Khatua
Book: Success and Challenges of NK Immunotherapy – Breaking tolerance to cancer resistance
Publisher: Elsevier, ISBN-13: 978-0128226209; ISBN-10: 012822620X

Oral Presentations

Sumit Gupta, Virginia Laspidea, Juan Fueyo, Oren Becher, Teresa Nguyen, Dong Ho Shin, Hong Jiang, Sagar Sohoni, Xuejun Fan, Yanhua Yi, Joy Gumin, Candelaria Gomez-Manzano and Marta M. Alonso

Armed Oncolytic Adenovirus as experimental therapy for Pediatric Malignant gliomas
Annual meeting of American Society of Pediatric Hematology/Oncology 2022

Teresa Nguyen, Dong Ho Shin, Hong Jiang, Derek A. Wainwright, Sagar Sohoni, **Sumit Gupta**, Ashley Ossimetha, Frederick Lang, Marta M. Alonso, Juan Fueyo, and Candelaria Gomez-Manzano.

Delta-24-RGD^{OX} activation of the IDO-Kyn-AhR cascade in glioblastoma: old targets for a new therapy.

Society of Neuro-Oncology Annual Meeting, Austin, TX 2020

Sagar Sohoni, Teresa Nguyen, Dong Ho Shin, Xuejan Fan, Hong Jiang, **Sumit Gupta**, Ashley Ossimetha, Yamhua Yi, Juan Fueyo, and Candelaria Gomez-Manzano.

Oncolytic virotherapy elicits anti-tumor immunity capable of inducing abscopal effects in breast cancer brain metastases

Invited e-talk, Brain Tumor Center Retreat, MD Anderson Cancer Center, Houston, TX 2020

Dong Ho Shin, Hong Jiang, Teresa Nguyen, Verlene Henry, Xuejun Fan, Joy Gumin, Sagar Sohoni, Yahua Yi, **Sumit Gupta**, Ashley Ossimetha, Frederick Lang, Candelaria Gomez-Manzano and Juan Fueyo. Hybrid

Oncolytic Virus with Hexon Hypervariable regions from serotype 43 evades neutralizing antibodies and shows anti-glioma effect

Invited e-talk, Brain Tumor Center Retreat, MD Anderson Cancer Center, Houston, TX 2020

Gomez-Manzano C, Jiang H, Shin DH, Nguyen T, Fan X, Yi Y, Lang F, **Gupta S**, Sohoni S, Jiang XR, Ossimetha A, Fueyo J.

Abscopal effect of Delta-24-RGD^{OX} Oncolytic Adenovirus in Brain Metastatic Melanoma 23rd International Conference on Brain Tumor Research and Therapy 2020

Fueyo J, Nguyen T, Shin DH, Jiang H, Fan X, Yi Y, Lang F, **Gupta S**, Sohoni S, Jiang XR, Ossimetha A, Wainwright DA, Gomez-Manzano C. Four reasons why IDO matters in brain tumor virotherapy

23rd International Conference on Brain Tumor Research and Therapy 2020

Gupta S, Jajoo D

Evaluation of appropriateness of allergy blood test done in children by Primary care providers

Annual Sinai Research Day, Mount Sinai Hospital, Chicago IL 2018

Awarded Best Platform Presentation

Gupta S, Sharma S, Gopineti L

Echocardiogram for innocent murmurs in infants: An appropriate investigation?

Annual Sinai Research Day, Mount Sinai Hospital, Chicago IL 2017

Awarded 2nd prize in Platform Presentation

Gupta S, Srinivasan G, Ying SC

Trends and Zipcodes associated with Lead poisoning in Chicago: What level is safe?

Annual Sinai Research Day, Mount Sinai Hospital, Chicago IL 2017

Awarded 3rd prize in Platform Presentation

Singh R, Bairey I, **Gupta S**

A study of Antibacterial and antifungal properties of human cerumen

Annual meeting of American Academy of Otolaryngology – Head and Neck Surgery Foundation, San Francisco, CA 2011

Gupta S, Bairey I, Singh R

Antibacterial and antifungal properties of human cerumen

Ain Sham's International Student Conference, Cairo, Egypt 2011

Poster Presentations

Virginia Laspidea, Sara Labiano, **Sumit Gupta**, Hong Jiang, Iker Ausejo-Mauleon, Daniel de la Nava, Marc Garcia-Moure, Javier Marco-Sanz, Reyes Hernandez-Osuna, Oren Becher, Juan Fueyo, Ana Patino-Garcia, Candelaria Gomez-Manzano, Marta M Alonso
Delta-24-RGDOX oncolytic adenovirus improves the survival by modulating the immune system in DMG models

AACR Annual Meeting, New Orleans, LA

2022

Virginia Laspidea, **Sumit Gupta**, Montserrat Puigdelloses, Sara Labiano, Iker Ausejo-Mauleon, Daniel de la Nava, Oren J Becher, Joy Gumin, Juan Fueyo, Candelaria Gomez-Manzano and Marta M Alonso
Delta-24-RGD expressing positive immune modulators show anti-DIPG effect and increase tumor immune infiltration

6th Biennial Pediatric Neuro-Oncology Research Conference

2021

Montse Puigdelloses, Virginia Laspidea, Dolores Hambarzumyan, Zhihong Chen, **Sumit Gupta**, Cande Gomez-Manzano, Sara Labiano. Oren J Becher, Trent Woodruff, Ruben Pío, Daniel Ajona, Jaime Gallego and Marta M Alonso

Modulating the myeloid population in DIPG modes with oncolytic virus and complement inhibitors shows therapeutic efficacy

6th Biennial Pediatric Neuro-Oncology Research Conference

2021

Daniel de la Nava, Iker Ausejo-Mauleon, Virginia Laspidea, Lucía Marrodán, Marta Zalacain, Javad Nazarian, Sabine Müller, Josh Allen, Juan Fueyo, Cande Gomez-Manzano, **Sumit Gupta**, Ana Patiño, Marta M Alonso

The imipridone ONC201 in combination with oncolytic adenovirus Delta-24-RGD has a synergistic effect in preclinical models of pHGGs and DMGs

6th Biennial Pediatric Neuro-Oncology Research Conference

2021

Sumit Gupta, Virginia Laspidea, Juan Fueyo, Oren Becher, Teresa Nguyen, Dong Ho Shin, Hong Jiang, Sagar Sohoni, Xuejun Fan, Yanhua Yi, Joy Gumin, Candelaria Gomez-Manzano and Marta M. Alonso

Viroimmunotherapy for Diffuse Intrinsic Pontine Gliomas

Annual meeting of American Society of Pediatric Hematology/Oncology

2021

Sumit Gupta, Virginia Laspidea, Juan Fueyo, Oren Becher, Teresa Nguyen, Dong Ho Shin, Hong Jiang, Sagar Sohoni, Xuejun Fan, Yanhua Yi, Joy Gumin, Candelaria Gomez-Manzano and Marta M. Alonso

Armed Oncolytic virus for treatment of pediatric DIPG

American Association for Cancer Research Annual Meeting

2021

Teresa Nguyen, Dong Ho Shin, Hong Jiang, Derek A. Wainwright, Sagar Sohoni, **Sumit Gupta**, Ashley Ossimetha, Frederick Lang, Marta M. Alonso, Candelaria Gomez-Manzano and Juan Fueyo.

Inhibition of the IDO-Kyn-AhR cascade optimizes virotherapy in glioblastoma and depends on CD4 T-cell activation.

American Association for Cancer Research Annual Meeting

2021

Dong Ho Shin, Teresa Nguyen, Hong Jiang, Xuejun Fan, Yanhua Yi, Sagar Sohoni, **Sumit Gupta**, Ashley Ossimetha, Candelaria Gomez-Manzano and Juan Fueyo.

Evasion of neutralizing antibodies and enhanced anti-tumor effects of hexon-modified Delta-24-RGD oncolytic adenovirus

American Association for Cancer Research Annual Meeting

2021

Sagar Sohoni, Teresa Nguyen, Dong Ho Shin, Xuejan Fan, Hong Jiang, **Sumit Gupta**, Ashley Ossimetha, Yanhua Yi, Chandra Bartholomeusz, Marta Alonso, Juan Fueyo, and Candelaria Gomez-Manzano.

Targeting the immunosuppressive microenvironment of metastatic breast cancer with viroimmunotherapy

American Association for Cancer Research Annual Meeting 2021

Hong Jiang, Teresa T. Nguyen, Dong Ho Shin, Sagar S. Sohoni, **Sumit Gupta**, Yanhua Yi, Xuejun Fan, Candelaria Gomez-Manzano, Juan Fueyo. Oncolytic adenovirus Delta-24-RGDOX collaborates with adoptive cell therapy to sustain anti-tumor immunity

American Association for Cancer Research Annual Meeting 2021

Gupta S, Tian X, Wang J, Huse J, Rhines L, Sadighi Z, Zaky W, Tatsui C, Khatua S Spinal Myxopapillary Ependymoma and Methylation-Profiling: The MD Anderson Cancer Center (MDACC) Experience

19th International Symposium on Pediatric Neuro-Oncology (ISPNO), Karuizawa, Nagano, Japan 2020

Gupta S, Ragoonanan RD, Itzep N, Dandberg D, Fuller G, Ketonen L, Meador H, Zaky W, Khatua S;

Embryonal Tumor with Multilayered Rosettes: The MD Anderson Cancer Center Experience

19th International Symposium on Pediatric Neuro-Oncology (ISPNO), Karuizawa, Nagano, Japan 2020

Baig M, Johnson J, **Gupta S**, Sadighi Z, Zaky W, Khatua S

A Phase I study of multi-targeted therapy in newly diagnosed or progressive diffuse intrinsic pontine glioma

19th International Symposium on Pediatric Neuro-Oncology (ISPNO), Karuizawa, Nagano, Japan 2020

Baig M, Mork M, Khatua S, Slopis J, Zaky W, Bingham R, **Gupta S**, Fuller G, Sadighi Z Treatment challenges in pediatric glioblastoma multiforme with concurrent somatic and germline NF1 mutations with germline mismatch repair mutations: two unique cases

19th International Symposium on Pediatric Neuro-Oncology (ISPNO), Karuizawa, Nagano, Japan 2020

Mohiuddin S, Maraka S, Baig M, **Gupta S**, Fuller G, Valyi-Nagy T, Paulino A, Moody K, Zaky W, Khatua S Case series of diffuse extra-neural metastasis in H3F3A mutant high grade gliomas – clinical, molecular phenotype and literature review

19th International Symposium on Pediatric Neuro-Oncology (ISPNO), Karuizawa, Nagano, Japan 2020

Virginia Laspidea, Montserrat Puigdelloses, Naiara Martinez-Velez, Marc Garcia-Moure, Sara Labiano, Iker Ausejo, Ana Patino-Garcia, Oren J Becher, Hong Jiang, **Sumit Gupta**, Juan Fueyo, Candelaria Gomez-Manzano, Marta M Alonso

Oncolytic Adenovirus Delta-24-RCD engineered to express 4-1BBL as a therapeutic approach for DIPG

Society of Neuro-Oncology Annual Meeting, Austin, TX 2020

Dong Ho Shin, Teresa Nguyen, Hong Jiang, Sagar Sohoni, **Sumit Gupta**, Ashley Ossimetha, Marta M. Alonso, Candelaria Gomez-Manzano and Juan Fueyo.

Hexon swapping mitigates anti-viral immune response during brain tumor virotherapy
Society of Neuro-Oncology Annual Meeting, Austin, TX 2020

Baig M, Fuller G, **Gupta S**, Tran G, Mork M, Slopis J, Kamiya C, Khatua S, Zaky W, Sadighi Z.
Unique Concurrent Association of Somatic and Germline NF1 Mutations with Germline Mismatch Repair Mutations in Pediatric Glioblastoma Multiforme.
Society of Neuro-Oncology Annual Meeting, Phoenix, Arizona 2019

Gupta S, Srinivasan G, Ying SC.
Trends and Zipcodes associated with Lead poisoning in Chicago: What level is safe?
American Academy of Pediatrics National Conference, Chicago, IL 2017

Gupta S, Verma N
Diagnosis of Exclusion: Viral Myositis with atypical rash – leading to rhabdomyolysis and acute renal failure
Midwest Society for Pediatric Research (MWSPR), Chicago, IL 2016

Gupta S, Srinivasan G, Luayon M
Simple Observation, Rare Diagnosis: Townes – Brocks Syndrome with Facial Palsy
Midwest Society for Pediatric Research (MWSPR), Chicago, IL 2016

Gupta S, Lewis L, Bairy I, Chawla K
Bacteria on mobile phones in a neonatal intensive care unit and their potential risk to the neonates
Ain Sham's International Student Conference, Cairo, Egypt 2011
Awarded Best Poster Presentation

Gupta S, Sharma P, Bhargava M
Panleucogating method for cytometric CD4+ cell enumeration
Infectious Diseases – MEDICON, Manipal, India 2011
Awarded Best Poster Presentation

Gupta S, Lewis L
Usefulness of Platelet Indices in neonatal thrombocytopenia 2010
International Student Congress of Medical Sciences, Groningen, Netherlands

Reviewer

Journals (Ad-hoc)

- Frontiers in Neurology
- Annals of Pediatrics
- Hematology & Oncology: Current Research

Conferences

- Pediatric Academic Societies Meeting 2023 - Abstracts (41 abstracts)
- Pediatric Academic Societies Meeting 2023 – Workshop Reviewer (13 proposals)

Medical School Admissions

- Kerkorian School of Medicine At University of Nevada Las Vegas for the 2022-2023 admissions season.

Ongoing Research Projects

Laboratory Research:

Mentor: Dr. Juan Fueyo-Margareto and Dr. Candelaria Gomez-Manzano
Neuro-Oncology Experimental Research, Department of Neuro-Oncology
Division of Cancer Medicine, MD Anderson Cancer Center, Houston, TX

Overview: My work include working on new modalities (virotherapy and immunotherapy) for the treatment of pediatric brain tumors, especially Diffuse Intrinsic Pontine Glioma (DIPG) that have 100% mortality rate. I am working on combining Effect of modified adenoviruses with immunotherapy and targeting costimulatory tumor necrosis factor receptor superfamily (TNFRSF) members like OX40, GTR (glucocorticoid-induced TNFR family-related gene). We are working to test the efficacy of these armed viruses in an orthotopic model of mice, with the hope of translating this method to a clinical trial.

TEACHING

Teaching at Cure 4 The Kids

Student Preceptor:

Hannah Mae Kulm	05/01/23 – 05/31/23
Taylor Chait (MS-IV)	04/01/23 – 04/30/23
Stephanie Quan (MS-IV)	03/01/23 – 03/31/23
Kim Thu Nguyen (MS-IV)	02/01/23 – 02/28/23
Shelby Burton (MS-IV)	04/01/22 – 04/30/22
Matthew Shoemaker (MS-IV)	03/01/22 – 03/31/22

Teaching at The University of Texas MD Anderson Cancer Center

Grand Round Speaker: Viroimmunotherapy in Pediatric DIPG 05/2021
Department of Pediatrics

Formal Teaching

Morbidity and Mortality Conference:Thrombotic thrombocytopenic purpura 02/2021
Morbidity and Mortality Conference: Dyskeratosis Congenita 05/2020

Morbidity and Mortality Conference. Extra-Cranial Metastases of Gliomas. 10/2019

Journal Club: Second Line Treatments in Children with Immune thrombocytopenia:
Effect on Platelet Count and Patient-Centered Outcomes 08/2019

Morbidity and Mortality Conference. Platelet transfusion and Refractoriness
04/2019

Bone Marrow Transplant. Multi Institutional Tumor Board.
Treatment options for a 3 year old with refractory B cell leukemia, s/p CAR T
(Kymriah) therapy 04/2019

Medical Students (3rd year)

An Overview of Pediatric Hematological Malignancies. 01/2020
 An Overview of Pediatric Solid Tumors. 07/2019, 09/2019, 01/2020, 03/2020

Teaching at Mount Sinai Hospital Medical Center

Supervised Yale Curriculum Lectures and Discussion for Department of Pediatrics and Family Medicine, included Residents and Medical students from both departments Weekly, Mount Sinai Hospital, Chicago, IL 07/2017 – 06/2018

Conducted Pediatric Board Question and Answer Sessions in afternoon for Residents and Medical Students Three hours/week, Mount Sinai Hospital, Chicago, IL 07/2017 – 06/2018

Grand Rounds: Anemia in Children, Mount Sinai Hospital, Chicago. IL 2017

Journal Club: Discontinuing Prophylactic Transfusions Used to Prevent Stroke in SCD 2016

Morning Reports to Co Residents and Medical Students Mount Sinai Hospital, Chicago, IL 07/2015 – 06/2018

NICU Case Conference: Thanatophoric Dysplasia
 NICU Case Conference: Townes – Brocks Syndrome
 Critical Thinking: Viral Myositis in children
 Critical Thinking: Fever
 Retinoblastoma
 Abnormal gait
 Pediatric Stroke (Department of Pediatric Rehabilitation)
 Hearing Screening
 Headaches in Children

PROFESSIONAL MEMBERSHIPS/ACTIVITIES

Sigma Xi – The Scientific Research Honor Society 10/2022 – 06//2024

Academy of Physicians in Clinical Research since 08/2021

Children's Oncology Group since 07/2021

Society of Neuro-Oncology since 10/2020

American Society of Pediatric Hematology and Oncology since 07/2018

American Society of Hematology 07/2018 – 12/2021

Life Member if Indian Forum for Medical Students Research 2010 - Present

Member of Student Research Forum and Scientific Journal Club 2010-2012
 Kasturba Medical College, Manipal, India

University Ambassador, India for International Student's Congress of Medical Sciences, UCMG, Netherlands 2010-2011

Date of Last CV Update: 06/10/2023