12th Annual Meeting of Korean Society of Medical Oncology &
2019 International Conference
November 7(Thu) - 8(Fri), 2019 Seoul Dragon City, Seoul, Korea
www.ksmo2019.org

KSMO 2019
Building up Team Science to Cure Cancer!

•**Name:** Subha Madhavan, PhD, FACMI

• **Current Position:** Chief Data Scientist, Georgetown University Medical Center, Director, Innovation Center for Biomedical Informatics
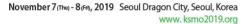
• **Country: USA**

• **Educational Background:**

Birla Institute of technology and Science	B.S.	05/96	Chemical Engineering
Birla Institute of technology and Science	M.Sc.	05/96	Biological Sciences
Uniformed Services University for the Health Sciences (Indo-US collaborative graduate program)	Ph.D.	01/00	Biological Sciences
Johns Hopkins University School of Medicine, Baltimore, MD	Postdoctoral Fellow	08/01	Hematology/Oncology
University of Maryland, Baltimore County	M.S.	12/01	Computer Information Systems

• **Professional Experience:**

1996 – 1999	Research Assistant, Henry M. Jackson Foundation, Rockville, MD
2000 – 2001	Research Associate, University of Maryland, Baltimore County, Catonsville, MD
2001 – 2002	Boinformatics Scientist, InforMax: a subsidary of Invitrogen, Bethesda, MD
2002 – 2004	Bioinformatics project manager, Invitrogen Life science software, Frederick, MD
2004 – 2005	Program Manager/Biomedical Informatics Specialist, NCI Center for Biomedical informatics and Information technology, Rockville, MD
2006 – 2008	Associate Director, Life sciences informatics, NCI Center for Biomedical informatics and Information technology, Rockville, MD
2008 – 2012	Assistant Professor, Oncology, Georgetown University Medical Center
2008 –	Director, Clinical Research Informatics, Lombardi Comprehensive Cancer Center
2012 –	Director, Innovation Center for Biomedical Informatics (ICBI), Georgetown University
2012 –	Associate Professor, Oncology, Georgetown University Medical Center
2018 –	Chief Data Scientist, Georgetown University Medical Center

• **Professional Organizations:**

2005 –	Member	International Society for Computational Biology (ISCB)
2006 – 2010	Member	American Association for Cancer Research
2010 –	Member	American Medical Informatics Association (AMIA)
2010 – 2012	Officer	CTSA Informatics Key Functions Committee
2010 – 2011	Chair	University Medical Data Security Committee
2012 –	Chair	Georgetown ICBI Annual Symposium
2012 –	Member	American Society of Clinical Oncology
2012	Member	MedStar Health Scientific Advisory Board
2013 –	Reviewer	NIH SBIR/STTR Study Section (2013 – Present)

12th Annual Meeting of Korean Society of Medical Oncology &
2019 International Conference
November 7 (Thu) – 8 (Fri), 2019   Seoul Dragon City, Seoul, Korea
www.ksmo2019.org

KSMO 2019
Building up Team Science to Cure Cancer!

2013 – 2014	Reviewer	DoD CDMRP Breast Cancer Research Program grants
2013 – 2014	Reviewer	NINDS Special Initiatives Panel
2013 – 2014	Member	Georgetown CIO Search Committee
2016	Chair	AMIA Translational Bioinformatics Summits
2018 –	Assoc. Editor	Frontiers in Oncology

• Main Scientific Publications:

- Ritter D; Roychowdhury S; Roy A; Rao S; Landrum M; Sonkin D; Shekar M; David C; Hart R; Micheel C; Weaver M, Van Allen E; Parsons D, McLoed H, Watson M, Plon S, Kulkarni S, **Madhavan S**. "Somatic variant curation and harmonization through consensus minimal variant level data." (2016) *Genome Medicine*. 8:117

- Danos AM; Clinical Genome Resource Somatic Working Group and Clinical Interpretation of Variants in Cancer team members et al. Adapting crowdsourced clinical cancer curation in CIViC to the ClinGen minimum variant level data community-driven standards. (2018). *Human Mutation* 39(11):1721-1732

- **Madhavan S,** Ritter D, Micheel C, Rao S, Roy A, Sonkin D, Mccoy M, Griffith M, Griffith OL, Mcgarvey P, Kulkarni S. ClinGen Cancer Somatic Working Group - standardizing and democratizing access to cancer molecular diagnostic data to drive translational research. (2018) *Pac Symp Biocomput*. 23:247-258.

- Pishvaian MJ, Bender RJ, Halverson D, Rahib L, Hendifar AE, Mikhail S, Chung V, Picozzi VJ, Sohal D, Blais EM, Mason K, Lyons EE, Matrisian LM, Brody JR, **Madhavan S**, Petricoin EF 3rd. Molecular Profiling of Patients with Pancreatic Cancer: Initial Results from the Know Your Tumor Initiative. (2018) *Clin Cancer Res*. 24(20):5018-5027

- Boca SM, Nishida M, Harris M, Rao S, Cheema AK, Gill K, Seol H, Morgenroth LP, Henricson E, McDonald C, Mah JK, Clemens PR, Hoffman EP, Hathout Y, **Madhavan S**. Discovery of Metabolic Biomarkers for Duchenne Muscular Dystrophy within a Natural History Study. (2016). *PLoS One*.11(4)

- Song L, Bhuvaneshwar K, Wang Y, Feng Y, Shih IM, **Madhavan S**, Gusev Y. CINdex: A Bioconductor Package for Analysis of Chromosome Instability in DNA Copy Number Data (2017). *Cancer Inform*. 16

- Mahmood ASMA, Rao S, McGarvey P, Wu C, **Madhavan S**, Vijay-Shanker K. eGARD: Extracting associations between genomic anomalies and drug responses from text (2017). *PLoS One*. 12(12)

- Tang S, **Madhavan S**. neoantigenR: An annotation based pipeline for tumor neoantigen identification from sequencing data (2017). *BioRxiv* . doi: https://doi.org/10.1101/171843

- Bhuvaneshwar K, Song L, **Madhavan S**, Gusev Y. viGEN: An Open Source Pipeline for the Detection and Quantification of Viral RNA in Human Tumors. (2018). *Front Microbiol*. 9:1172

- Ahn J, Conkright B, Boca S, **Madhavan S**. POPSTR: Inference of Admixed Population Structure Based on Single-Nucleotide Polymorphisms and Copy Number Variations (2018). *Journal of Computational Biology*. 25.4

Complete List of Published Work in MyBibliography:

https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/47227878/?sort=date&direction=descending