# Subbaya (Subree) Subramanian, MS, PhD

**Professor**
**Department of Surgery**
**University of Minnesota**

**Professional address**
Department of Surgery
University of Minnesota
420 Delaware St SE
MMC 195
Minneapolis MN 55455

E-mail: *subree@umn.edu*
Tel: 612-626-4330

***Lab web page: http://subreelab.umn.edu***

## EDUCATION

2003 **Doctor of Philosophy (Ph.D.)** in **Molecular and Cellular Biology,** Centre for Cellular and Molecular Biology, Jawaharlal Nehru University, India

2003 **Postgraduate Diploma** in **Patents Law,** National Academy of Legal Studies & Research, India

1998 **Master of Science** in **Biotechnology (MS)** Tamil Nadu Agricultural University, India

1995 **Bachelor of Science** in **Agricultural Sciences (BS)** Tamil Nadu Agricultural University, India

## Postdoctoral fellowship

5/2003-11/2007 Cancer research
Department of Pathology, Stanford University, Palo Alto, USA

## ACADEMIC APPOINTMENTS and POSITIONS

6/2022- present **Professor**, Department of Surgery, University of Minnesota Minneapolis, USA

10/2020- present **Chief Scientific Officer**, EV Therapeutics Inc., San Francisco, USA

1/2015- 5/2022 **Associate Professor** (*tenured*) Department of Surgery, University of Minnesota, Minneapolis, USA

7/2010- 6/2015 **Assistant Professor**, Department of Surgery, University of Minnesota, Minneapolis, USA

11/2007- 7/2010 **Assistant Professor**, Department of Laboratory Medicine and Pathology, University of Minnesota, Minneapolis, USA

5/2003-11/2007 **Postdoctoral Associate**, Department of Pathology, Stanford University Stanford, USA

3/2003- 5/2003 **Research Associate**, Centre for Cellular and Molecular Biology, India

8/1999- 3/2003 **Senior Research Fellow**, Centre for Cellular and Molecular Biology, India

## JOURNAL EDITORIAL BOARDS

*Editor*

Section Editor-in-Chief, *Vaccines*
Associate Section Editor-in-Chief, *Cancers*
Associate Editor, *Frontiers in Genetics*
Associate Editor, *Frontiers in Molecular Biosciences*

*Editorial Board Member*

*Scientific Reports*
*Cancers*
*American Journal of Cancer Research*
*Trends in Immunotherapy*

*Academic Editor*

Editor, Special Issue *International Journal of Molecular Biosciences*
Editor, Special Issue *Gene*
Editor, Special Issue *Cancers*

*Edited Special Issues and Books*

Current Advances in Soft Tissue and Bone Sarcoma
microRNA Regulation in Health and Disease
*Cancer Immunology*

## AWARDS and HONORS

| | |
|---|---|
| 11/2019 | Distinguished Speaker, University of Putra, Malaysia |
| 1/2018 | Award of Excellence from "*Make it better agents*" for osteosarcoma research |
| 4/2017 | Innovation grant award Medical School, University of Minnesota |
| 2/2015 | Visiting Professor University of Erlangen-Nuremberg, Germany |
| 7/2013 | American Cancer Society Research Scholar Award |
| 1/2013 | University of Minnesota Frontiers in Biomedical Research Scholar Award |
| 7/2011 | Norwegian Centennial Chair Faculty Award for visiting professorship to the University of Oslo, Norway |
| 7/2010 | Masonic Scholar, Masonic Cancer Center, University of Minnesota |
| 8/2010 | Carlson Faculty Award, University of Minnesota/Karolinska Institute Faculty collaboration program |
| 1/2009 | Faculty Research Development Grant Award, Academic Health Center, University of Minnesota, Minneapolis, USA |
| 8/2009 | Translational Research Grant Award Academic Health Center, University of Minnesota, Minneapolis, USA |
| 6/2003 | Nomination for Young Scientist award, Indian National Science Association New Delhi, India |
| 8/2002 | International travel award from Intelligent Systems for Molecular Biology, USA |
| 2/2002 | Award from Association for Promotion for DNA Technologies Hyderabad, India |
| 3/2001 | Senior research fellowship, University Grants Commission, New Delhi, India |
| 8/1999 | Graduate Fellowship, Indian Institute of Technology, Madras, India |
| 7/1999 | Fellowship, Indian Council of Agricultural Research, New Delhi, India |
| 3/1999 | Junior Research Fellowship, Council of Industrial and Scientific Research New Delhi, India |
| 8/1996 | Merit scholarship, Department of Biotechnology, New Delhi, India |
| 1995 | Best undergraduate student award, College of Agriculture, Puducherry, India |

## PATENTS

1. Novel methods for amplification and library preparation using pico-quantities of total

RNA. Patent # WO2015084802A1. Inventors. **Subramanian S** and Hajeri P

2. Tumor Analytical Methods. Scott MC, Sarver AL, Modiano JF, **Subramanian S,** DA Largaespada. US Patent US20180106806A1

3. Tumor cell-derived exosomes and method of treating colorectal cancer. **Subramanian S** and Zhao X. US (WO/2021/146571) and PCT patents (PCT/US2021/013657)

## INVITED LECTURES

| | |
|---|---|
| 2/2023 | Invited speaker, Novel exosome-based therapies for colorectal cancer, Mayo Clinic, Rochester, USA |
| 10/2022 | Invited speaker, Engineered Extracellular Vesicles in the Treatment of Colorectal Cancer, 4th Exosome-Therapeutic Development conference, Boston, USA |
| 9/2022 | Invited speaker, Gut microbiome and Colorectal Cancer, Microbiome and Cancer Symposium, Minneapolis, USA |
| 9/2022 | Invited speaker, Immune Suppression in Colorectal Cancer, Masonic Cancer Center, University of Minnesota, Minneapolis, USA |
| 7/2022 | Invited speaker, Gordon Research Conference on Extracellular Vesicles, Sunday River, Maine, USA |
| 6/2022 | Invited speaker, Mechanisms of Immune regulation in colorectal cancer. Mirimus Conference, New York, USA |
| 2/2022 | Invited speaker, Regulation of antitumor immune response and exosome-based therapies in colorectal cancer. Vaccines Summit, Boston, USA |
| 1/2022 | Invited Speaker, Novel therapies for colorectal cancer. International Conference on Nanomaterials, Nanotechnology and Advanced Medicine. Bharath Institute of Science and Technology, Chennai, India |
| 7/2021 | Speaker, Tumor-secreted extracellular vesicles regulate T-cell costimulation and can be manipulated to induce tumor-specific T-cell responses. Extracellular Vesicle Studies: From Benchtop to Therapeutics. ASBMB virtual meeting. |
| 6/2021 | Keynote speaker, Zoom, Novel therapies for advanced colorectal cancer, Dr. Lalji Singh Memorial Lecture, Center for DNA Fingerprinting and Diagnostics, Hyderabad, India |
| 4/2021 | Invited speaker, Webinar, Novel therapies for advanced-stage colorectal cancer. Council for Scientific and Industrial Research, New Delhi, India |
| 3/2021 | Keynote speaker, Global webinar on Immunology, Global Scientific Guild Conference, Tumor intrinsic immune regulation in Colorectal cancer. |
| 3/2021 | Invited Speaker, Antitumor immune regulation in colorectal cancer. University of Georgia, Athens, USA |
| 3/2021 | Invited Speaker, Cancer Research & Nucleic Acids, Next Generation Multimodality of Nanomedicine Therapy. ResearchGate International conference (webinar) |
| 10/2020 | Invited lecture, Mechanisms of immune evasion in colorectal cancer, Department of Medicine, Research Conference, University of Minnesota, USA (Webinar) |
| 9/2020 | Engineered exosomes in the treatment of advanced-stage colorectal cancer. Bayer Pharmaceuticals, Boston USA (Webinar) |
| 9/2020 | Keynote speaker, Immune regulation in Colorectal cancer, Research Gate International Conference, USA (Online Conference) |

6/2020 Lecture, Regulation of antitumor immune response in colorectal cancer, EV Therapeutics Inc. San Francisco, USA (Online lecture)

5/2020 Invited lecture, Changing practices in COVID environment. 4Edge Studio, Chennai, India (Webinar)

11/2019 Distinguished speaker, Intercellular communications in cancer. University of Putra, Malaysia

11/2019 Invited presentation, Immune regulation in colorectal cancer. 2nd Annual Meeting Immunology and Microbiome, Malaysia

11/2019 Invited presentation, Antitumor immune response in colorectal cancer. Center for Cellular and Molecular Biology, Hyderabad, India

10/2019 Invited speaker, Exosomes regulate antitumor immune response in colorectal cancer. Mayo Clinic, Rochester, USA

8/2019 Invited speaker, Tumor-intrinsic immune regulation in colorectal cancer. International Society of Extracellular Vesicles (ISEV) meeting, Nashville, USA

6/2019 Speaker, Suppression of exosomal miR-424 induces antitumor immune response in colorectal cancer. Genetic mechanisms of Cancer Program, Chanhassen, USA

5/2019 Speaker, Regulation of antitumor immune response in colorectal cancer. American Association for Immunologists annual meeting, San Diego, USA

9/2018 Invited speaker, Mechanisms of host immune response in colorectal cancer. NIH Extracellular RNA Communication Consortium, USA

2/2018 Invited speaker, Malignant transformation and regulation of tumor immune response in colorectal cancer. Department of Medicine research conference University of Minnesota, Minneapolis, USA

1/2018 Invited speaker, Targeting epigenetic alteration in osteosarcoma Make it Better FACTOR 2018 annual meeting Miami USA

1/2018 Invited speaker, Mechanisms of malignant transformation and immune response in colon cancer. University of Miami, Miami USA

11/2017 Invited speaker, Mechanisms of malignant transformation and regulation of host immune response in colorectal cancer. National University of Singapore, Singapore

11/2017 Invited speaker, Immunotherapies for colorectal cancer. Cancer Institute Chennai India

11/2017 Invited speaker, Modified extracellular vesicles improve host immune response in colorectal cancer. National Institutes of Health Exosome research consortium Rockville, USA

5/2017 Invited speaker, Resistance to immunotherapies in colon cancer. Practical Clinical Aspects of Immuno-oncology symposium Oncology Central, London, UK

3/2017 Speaker, Mechanisms of Malignant Transformation, and Immune Privilege in Colon Cancer. University of Minnesota, Duluth, USA

2/2017 Invited speaker, Immune privilege in colon cancer NCI- Continuing Umbrella of Research Experiences. University of Minnesota, Minneapolis, USA

10/2016 Invited speaker, MicroRNAs secreted via extracellular vesicles regulate the immune response in colon cancer by targeting the T cell co-stimulatory pathway. American Society for Exosome and Microvesicles (ASEMV) Annual meeting Asilomar, USA

10/ 2016 Speaker, Colon cancer microRNAs. Bioinformatics and computational biology graduate program. University of Minnesota Minneapolis, USA

9/ 2016 Invited speaker, Mechanisms of tumor progression and Immune Response in

Colon Cancer. Division of Gastroenterology University of Illinois Chicago Chicago, USA

8/2016 Invited seminar, Mechanisms of Malignant Transformation and Immune Response in Colon Cancer. Center for Cellular and Molecular Biology, Hyderabad, India

8/2016 Invited speaker, Mechanisms of Tumor Progression and Immune Privilege in Colon Cancer Center for DNA Finger Printing and Diagnostics. Hyderabad, India

8/2016 Invited Lecture, MicroRNAs and Colon Cancer. Mahatma Gandhi College of Medical Sciences and Research Institute, Pondicherry, India

8/2016 Invited Lecture, Oncology: Biology meets treatment. College of Agricultural Sciences, Karikal, India

5/2016 Speaker, Regulation of immune response in colon cancer. Gastrointestinal cancers Translational Working Group University of Minnesota, Minneapolis, USA

1/2016 Speaker, Evaluation of Minnelide and chromatin-modifying drugs in treating osteosarcoma. Children's Cancer Research program, University of Minnesota Minneapolis, USA

1/2016 Invited speaker, Mechanisms of malignant transformation and immune privilege in colon cancer. Genetic and epigenetics club meeting, School of Public health University of Minnesota, Minneapolis, USA

11/2015 Invited speaker, Colon cancer microRNA gene networks. Department of Medicine research conference, University of Minnesota, Minneapolis, USA

6/2015 Featured speaker, Goodale Memorial Symposium in Pancreatic Cancer. University of Minnesota, Minneapolis, USA

4/2015 Scientific committee member and speaker, A US-Brazil international research workshop. Non-coding RNAs: A new frontiers in biomedical research. Ohio State University, Columbus, USA

2/2015 Invited speaker, MicroRNAs in the crossroads of cancer. German Prostate Cancer Consortium (DPKK) Kloster Banz, Bad Staffelstein, Germany

2/2015 Invited speaker, MicroRNAs in the pathogenesis of osteosarcoma. Department of Pathology University of Erlangen-Nuremberg Erlangen, Germany

9/2014 Invited speaker, MicroRNAs in the progress of colon cancer. Department of Pathology Medical College of Wisconsin, Milwaukee, USA

9/2014 Invited speaker, Osteosarcoma pathobiology and novel therapies. Early Phase Solid Tumor Meeting. Masonic Cancer Center, University of Minnesota Minneapolis, USA

8/2014 Keynote speaker, 2nd Annual BICB Industry Symposium Precision Agriculture and Medicine: From Data to Knowledge, Minneapolis, USA

7/2014 Invited speaker, MicroRNAs in Cancer. Vaishnav College, University of Madras, Chennai, India

6/2014 Invited speaker, Role of microRNAs in bone and colon cancer. Department of Biochemistry Indian Institute of Science, Bangalore, India

6/2014 Guest lecture, Mechanisms of colon cancer progression and novel therapies. Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

6/2014 Invited seminar, MicroRNA mediated gene regulation in osteosarcoma and colon cancer. Advanced Centre for Treatment Research & Education in Cancer, Tata Memorial Center, Mumbai, India

5/2014 Invited speaker, MicroRNAs in the malignant transformation of colon adenoma to

adenocarcinoma. Research day conference. Department of Surgery, University of Minnesota, Minneapolis, USA

5/2014 Speaker and session chair, Mechanisms of Osteosarcoma progression. University of Minnesota, Sarcoma Research Program meeting, Minneapolis, USA

4/2014 Invited speaker, MicroRNA networks in colon cancer. Department of Medicine, Research Conference, Minneapolis, USA

3/2014 Invited speaker, MicroRNA biogenesis function and regulation in colon cancer. NHS Grampian and University of Aberdeen, Aberdeen, UK

2/2014 Invited speaker, MicroRNAs in malignant transformation of colon adenomas. Target meeting, Houston, USA

11/2013 Invited speaker, Fine-tuning bone and colon cancer: Two tales of microRNAs. The Rosalind and Morris Goodman Cancer Research Centre, McGill University, Montreal, Canada

11/2013 Invited speaker, American College of Veterinary Pathology Annual Meeting, Montreal, Canada

10/2013 Invited speaker, Pharmacology Symposium, University of Minnesota, Minneapolis, USA

9/2013 Invited lecture, BICB graduate program, University of Minnesota, Rochester, USA

9/2013 Invited lecture, Oral Biology Program, School of Dentistry, University of Minnesota, Minneapolis, USA

7/2013 Invited lecture, Roswell Park Cancer Institute, Buffalo, USA

5/2013 Invited seminar, Molecular Medicine, Karolinska Institute, Stockholm, Sweden

5/2013 Invited seminar, The Centre for Cancer Biomedicine Radium Hospital, Oslo, Norway

4/2013 Invited seminar, MicroRNAs and Cancer, College of Veterinary Medicine graduate program, St Paul, USA

1/2013 Invited speaker, MicroRNA function and prognostic significance in osteosarcoma. Target meeting, Bellaire, Texas, USA

11/2012 Invited lecture, MicroRNAs, and Unknown Unknowns Center for Orphan Drug Research, Minneapolis, USA

10/2012 Invited speaker, Regulatory RNAs in health and disease. College of Biological Sciences sponsored Health and Biological Research Club, Minneapolis, USA

9/2012 Invited speaker, MicroRNA gene regulatory networks in rhabdomyosarcoma Molecular Biology and Innovative Therapies in Sarcomas of Childhood and Adolescence European Science Foundation, Pultusk, Poland

8/2012 Invited speaker, MicroRNA function and prognostic significance in osteosarcoma Children's Oncology Group meeting, Atlanta, USA

7/2012 Invited speaker, MicroRNAs: A Multifaceted Regulator in Cancer 3rd Annual Symposium Systems Biology of Genetic Regulation Microbial and Plant Genomics Institute, St Paul, USA

6/2012 Invited speaker, Role of microRNAs in malignant transformation of colon adenomas. PSG College of Medical Sciences and Research Institute, Coimbatore, India

6/2012 Invited lecture, MicroRNA mediated gene deregulations in pediatric sarcomas and colon cancer. Indian Institute of Science, Bangalore, India

6/2012 Invited seminar, MicroRNAs in osteosarcoma and colon cancer: Two tales of walking straight into circles Center for Cellular and Molecular Biology

Hyderabad, India

6/2012 Invited speaker, MicroRNAs in Colon Cancer Pondicherry Institute of Medical Sciences, Puducherry, India

5/2012 Invited lecture, MicroRNAs in osteosarcoma and colon cancer Indian Institute of Technology, Chennai, India

4/2012 Invited speaker, MicroRNAs and Cancer Translational Working Group University of Minnesota, Minneapolis, USA

4/2012 Invited speaker and Session Chair, Genomics of Osteosarcoma RNA Biology Target Meeting 2012, New York, USA.

2/2012 Invited lecture, MicroRNAs in sarcoma development and progression. British Columbia Cancer Agency, University of British Columbia, Vancouver, Canada

12/2011 Invited speaker, MicroRNA response elements in colon cancer gene regulation Department of Pathology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, USA

12/2011 Invited speaker, MicroRNAs in osteosarcoma University of Oslo, Oslo, Norway

12/2011 Invited speaker, MicroRNA mediated gene regulatory networks in human sarcomas University of Oslo, Oslo, Norway

6/2011 Invited speaker, MicroRNA and Osteosarcoma Cancer Center. Louisiana State University Health Sciences Center, New Orleans, LA, USA

4/2011 Invited speaker, microRNA networks in human diseases. Target Meeting 2011 New York, USA

2/2011 Invited speaker, Department of Pathology, Stanford University, Palo Alto, CA, USA

2/2011 Invited speaker, Molecular Med Tri-conference, San Francisco, CA, USA

1/2011 Invited Grand Round Speaker, Department of Surgery, University of Minnesota, Minneapolis, USA

11/2010 Invited lecture at the Institut Curie Paris France

11/2010 Invited lecture at Leiden University Medical Center, Leiden, The Netherlands

11/2010 Invited lecture at the Center for Molecular Medicine Karolinska Institutet Stockholm, Sweden

11/2010 Invited lecture at the annual meeting of the Indian Society of Gastroenterology Hyderabad, India

6/2010 Invited lecture at the Center for DNA Fingerprinting and Diagnostics, India

6/2010 Invited lecture at Center for Cellular and Molecular Biology Hyderabad, India

5/2010 Invited talk at Neurofibromatosis Symposium Mayo Clinic /UMN Minneapolis

4/2010 Invited lecture at Lillehei Heart Institute Minneapolis, USA

3/2010 Invited working group member of the Childhood bone tumors international consortium Washington DC, USA

2/2010 Grand Rounds Department of Laboratory Medicine and Pathology University of Minnesota, Minneapolis, USA

10/2009 Invited lecture Giuseppe Garibaldi Memorial Research Conference University of Minnesota, Minneapolis, USA

10/2009 Invited lecture at Dept. of Medicine University of Minnesota Minneapolis USA

9/2009 Invited lecture at College of veterinary medicine University of Minnesota Minneapolis USA

6/2009 Invited speaker at Experimental Biology annual meeting New Orleans, USA

4/2009 Invited speaker at Indo-US workshop on Orphan diseases University of Minnesota, Minneapolis, USA

12/2008 Invited lecture at Masonic Cancer Center, University of Minnesota, Minneapolis, USA

10/2008 Invited lecture at the Department of Genetics, University of Missouri, Columbia, USA

7/2007 Invited lecture at the International Symposium "Chromosomes to Genome" Center for Cellular and Molecular Biology Hyderabad, India

2/2006 Grand Rounds speaker at the Department of Laboratory Medicine and Pathology University of Minnesota, Minneapolis, USA

1/2003 Invited lecture, From sequence to function: a bioinformatics approach Madras University, Chennai, India

10/2002 Special invitee to the Brainstorming session: Building parallel processor and supercomputer in India for large-scale genome sequence analysis. National Aeronautics Laboratory, Bangalore, India

2/2002 Invited lecture, International Conference on Functional Genomics, ADNAT Hyderabad, India

2002 Invited lecture 'Genome analysis and Bioinformatics' International training program on DNA sequencing and Genotyping. Hyderabad, India

## ADMINISTRATIVE/ COMMITTEES

University

Senator, Faculty Senate, University of Minnesota, 2018-2021

Medical School

1. Member, Pandemic Rapid Response Issues Medical School Environment (PRRIME) Committee. Advisory Committee to the Dean of Medical School, 2021-present
2. Task Force Member, Special Faculty Advisory Council for COVID-19 response, 2020-2021
3. Member, Faculty Advisory Council 2018-2021
4. Search committee member, Faculty cluster hiring, College of Biological Sciences and Biomedical Engineering, 2019
5. Member, Faculty search committee, Faculty cluster hiring, Translational genomics, Medical School 2018, 2019
6. Faculty mentor, Medical School, Proposal Preparation Program (P3) 2016-present
7. Co-Director, MICA-8004, Microbiology, Immunology, and Cancer Biology, Graduate course, 2023
8. Applicant Review Panel, Physician Scientist Training Program, 2023

Department of Surgery

1. Policy committee member DEI Council, 2020-present
2. Director, Resident Research Enrichment Program, 2012-present
3. Member, Research Advisory Council, 2014-2017
4. Member of Clinical Research Task Force Committee, 2014
5. Organizer/coordinator, Department of Surgery Research Day, 2014-2022

Masonic Cancer Center

1. Advisory board member, Bioinformatics and Biostatistics program
2. Executive committee member, University of Minnesota Sarcoma Program

3. Steering committee member, Genetic Mechanism of Cancer Program Faculty mentor, NCI-funded Cancer Research Education and Training Experience (CREATE)
4. Steering committee member, GI tumors Translational Working Group
5. Co-leader, Gastrointestinal Cancer Translational Working Group.

Graduate Programs

1. Senior member of Veterinary Medicine Graduate Program, College of Veterinary Medicine, University of Minnesota, St Paul, USA, 2010-present
2. Senior member of Microbiology Immunology and Cancer Biology (*MICaB*) Graduate Program, University of Minnesota Minneapolis, USA 2014-present
3. Faculty Pharmacology Graduate Program, University of Minnesota, Minneapolis, USA, 2014-present
4. Graduate student Ph.D. thesis evaluation committee member, University of Oslo, Norway
5. Graduate Faculty member Bioinformatics and Computational Biology Graduate Program University of Minnesota, Minneapolis, USA

Others

1. Cochair and organizer, University of Minnesota - Mayo Clinic, Exosome Research conference (2019).
2. Scientific program committee member and organizing group member Committee on Institutional Cooperation. A US-Brazil international research workshop. Non-coding RNAs: A new frontiers in biomedical research. Columbus, USA (2016)
3. Advisory Board Member BIT's 1st World Congress on Small RNAs Shenzhen China
4. Board of examiners of the Ph.D. thesis evaluation committee, University of Madras, India
5. Ph.D. thesis examiner, University of Putra, Malaysia (2020)
6. Ph.D. thesis examiner, Madurai Kamaraj University, India (2021)
7. Organizing Committee Member, Vaccines. Vaccination and Immunology, The Research Gate Conference, San Francisco (2022)
8. Ph.D. Thesis committee external examiner, Thomas Jefferson University (2022)

**Non-academic**

Planning Commissioner, City of Arden Hills, MN (2018-present)
Past Member, Human Rights, Inclusion and Engagement Commission, City of Roseville, MN (2017-2018)

**COURSE DIRECTOR**

***Small RNA Biology*** MICa-8014: Designed and developed the complete '*Small RNA Biology*' course and introduced it to the University of Minnesota Medical School Graduate program.
This graduate-level course is cross-listed in multiple graduate programs such as Microbiology, Immunology and Cancer Biology, Neurosciences and Genetic Development, and Cell Biology graduate program.

**PROGRAM DIRECTOR (2014-Present)**

**Resident research enrichment program (RREP):** Designed the course curriculum for Department of Surgery residents as part of their two years of research training. As the Program Director, I am responsible for delivering lectures, conducting seminars, identifying and inviting guest speakers, and serving as a moderator for the discussion topics in the curriculum. This course includes lectures brainstorming sessions, resident research presentations, journal clubs, and invited speaker seminars.

***Formal Didactic Lectures***

1. MicroRNA genes regulatory networks in cancer Advanced Human Genetics graduate course University of Minnesota, Minneapolis.
2. MicroRNAs in the neurofibromatosis Neuroscience graduate course, University of Minnesota Minneapolis.
3. MicroRNA gene regulatory networks in malignant peripheral nerve sheath tumors Neuroscience graduate course University of Minnesota Minneapolis.
4. Role of miRNAs in human diseases Hematology Oncology and transformation Medical Residents course Neuroscience graduate course, University of Minnesota, Minneapolis.
5. Personalized medicine and the next generation sequencing Dept. of Surgery Research Resident Enrichment Program University of Minnesota Minneapolis.
6. MicroRNAs in cancer Module- MICA-8004 Tumor Biology graduate course
7. Cancer microbiome Module- MICA-8004 Tumor biology course

## GRANT REVIEW COMMITTEES

### NIH study sections

2023 NIH BMCD study section, Ad hoc member
2022 NIH ZRG1 F09C-Z (20) L study section, Ad hoc member
2021 NIH ZCA1 PCRB-E (J1) study section, Ad hoc member
2021 NIH SPORE RPRB study section, Ad hoc member
2020 NIH CII study section, Ad hoc member
2019 NIH CII study section, Ad hoc member
2018 NIH TME study section. Ad hoc member
2017 NIH BCMC study section, Ad hoc member
2017 NIH TME study section. Ad hoc member

### Department of Defense study sections

2022 Neurofibromatosis Research Program NFRP (CM), Scientist Reviewer
2021 Neurofibromatosis Research Program NFRP (BM), Scientist Reviewer
2021 Rare Cancer Research Program RCRP (S-1), Scientist Reviewer
2020 Neurofibromatosis Research Program NFRP (BM), Scientist Reviewer
2019 Peer Reviewed Cancer Research Program PRCRP (CCAYA-S), Scientist Reviewer
2018 Neurofibromatosis Research Program NFRP (CET-1), Scientist Reviewer
2017 Neurofibromatosis Research Program NFRP (CMB), Scientist Reviewer
2017 Breast Cancer Research Program BCRP (PRV-2) Scientist Reviewer
2016 Neurofibromatosis Research Program NFRP (CMB), Scientist Reviewer
2014 Neurofibromatosis Research Program NFRP (CMB), Scientist Reviewer
2013 Neurofibromatosis Research Program NFRP (MB-2), Scientist Reviewer
2012 Peer Reviewed Cancer Research Program PRCRP (DIS-GC), Scientist Reviewer
2011 Neurofibromatosis Research Program NFRP (CR), Scientist Reviewer

### International study section

2022 Inserm National Cancer Research Plan cancer grant review panel, Paris, France
2022 European Science Foundation, National Cancer Institute, Milan, Italy
2021 The Scientific Directorate of the National Cancer Institute in Milan, Italy

2021 Kankerbestrijding (Dutch Cancer Society), review panel, Amsterdam, The Netherlands
2021 Inserm National Cancer Research, Cancer grant review panel. Paris, France
2018 Inserm National Cancer Research Plan cancer grant review panel. Paris, France
2017 Medical Research Council (MRC), London, UK
2016 Consultant and expert reviewer Sultan Qaboos University Muscat, Oman
2015 Innovational Research Incentives Scheme, Veni Program, The Netherlands
2015 Zenith project grant applications round-2 review committee
2014 *Horizon Program* Netherlands Genomics Initiative Hague, The Netherlands.
2014 Alessandro Liberati Program, grant review committee, Italy
2013 Wellcome Trust-DBT program grants review committee member, Indo-UK

**National and institutional study sections**

2022 Florida Department of Health, Pediatric cancer, and Breast cancer review programs
2022 Children Cancer Research Funds, review committee member
2021 Florida Department of Health, Live Like Bella, Pediatric cancer review program
2020 Kansas State, BioNexus KC Review, Cancer review program
2019 Florida Department of Health, Pediatric cancer review program
2018 Formula grant awards Philadelphia, Department of Health, Florida
2018 Live like Bella Foundation grant reviewer, Department of Health Florida
2017 Wallin neuroscience research grants review committee member
2017 Member grants review panel, National Institutes of Health National Research Mentoring Network (NRMN)
2013 Liddy Shriver sarcoma foundation grant review committee member
2012 Chordoma Foundation research grants review committee
2011 Academic Health Center Faculty research development grant review committee
2011 Academic Health Center Health informatics grant review committee

**RESEARCH GRANTS**

1. Minnesota Medical Foundation 5/1/08 - 4/30/10
MicroRNA Regulatory Networks in Rhabdomyosarcoma
(PI: **Subramanian S**)

2. Wyckoff Sarcoma Foundation Grant 3/2/09 - 3/31/10
MicroRNA-based biomarkers for synovial sarcoma
(PI: **Subramanian S**)

3. University of Minnesota Academic Health Center 1/1/09 - 12/31/11
Faculty Research Development Award
(MPI: **Subramanian S** and Modiano J)

4. Minnesota Medical Foundation (equipment grant) 3/1/09 - 2/28/11
MicroRNA Regulatory Networks in Sarcoma
(PI: **Subramanian S**)

5. Wyckoff Sarcoma Foundation Grant 2/1/08 - 1/31/09
MicroRNA Expression Profiles of Synovial Sarcoma
(PI: **Subramanian S**)

6. Masonic Cancer Center Translational Research Award 7/1/08 - 6/30/09
Molecular characterization of osteosarcoma by microRNA profiling
(PI: **Subramanian S,** CoI Largaespada D and Modiano J)

7. American Cancer Society 8/1/09 - 7/30/10
Role of microRNAs in Malignant Transformation of Peripheral Nerve Sheath Tumor
(PI: **Subramanian S**)

8. Academic Health Center University of Minnesota 10/1/09 - 10/31/11
Translational Research Grant Award 2009
(PI: **Subramanian S**)

9. Department of Defense (DoD) 8/15/10 - 8/14/13
MicroRNA Gene Regulatory Networks in Peripheral Nerve Sheath Tumors
(PI: **Subramanian S**)

10. Van Sloun Foundation 5/1/10 - 4/30/11
Chromatin modifying drugs in the treatment of human and dog osteosarcoma
(PI: **Subramanian S**)

11. National Institutes of Health (NIH) 1/9/09 - 30/8/11
microRNA uncoupling of protein and transcript expression in liver regeneration
(PI: Clifford Steer; Co-I: **Subramanian S)**

12. KWRIS foundation 5/1/10 - 4/30/10
microRNA-based serum markers for well- and de-differentiated liposarcomas
(PIs: Christian Ogilvie and **Subramanian S)**

13. National Institutes of Health; Pancreatic Cancer SPORE 3/1/2011 - 12/31/2011
(SPORE PI: Selwyn Vickers) Role: Pilot project PI

14. Brainstorming award Masonic Cancer Center 3/1/2011 - 12/31/2011
Determination of Complete Genetic Code of Human Osteosarcoma Genome
(PI: **Subramanian S**, CoI Largaespada D and Modiano J)

15. Randy Shaver Cancer Research Fund 1/1/2012-12/31/2012
MicroRNA in the progression of Pancreatic Cancer
(PI: **Subramanian S**)

16. Minnesota Partnership for Biotechnology and Medical Genomics 1/1/2012-12-31/2013
Genomics of pancreatic cancer precursor lesions- diagnostic applications
(PIs: **Subramanian S** and Couch F)

17. Rein in Sarcoma Foundation 3/1/2012-2-28/2013
Tunneling nanotubes as novel targets in osteosarcoma
(PIs: Lou E and **Subramanian S**)

18. Minnesota Medical Foundation 4/1/2012- 3/31/2013

Effect of KRAS mutations on intercellular communication in colon cancer via tunneling nanotubes
(PI: Lou E; Co-I: **Subramanian S**)

19. AKC Canine Health Foundation 8/1/2012- 7/31/2015
Restoring RB Function by Epigenetic Control in Canine Osteosarcoma
(PI: Modiano J; Co-PI: **Subramanian S**)

20. Healthy Food Healthy Life 8/22/2012- 8/31/2014
Reduction in colonic cancer stem cell formation by cruciferous vegetables in mice
(PI: Daniel Gallaher; Co-I **Subramanian S**)

21. American Cancer Society IRG 12/1/2012- 11/30/2013
Tunneling nanotubes as a mechanism for intercellular transfer of microRNAs and cellular contents in colon cancer
(PI: Lou E; Co-I: **Subramanian S**)

22. Karen Wykoff Sarcoma Foundation 3/1/2013- 2-28/2014
Preclinical evaluation of Minnelide in osteosarcoma
(PI: **Subramanian S**, CoI Largaespada D, Weigel B, and Modiano J)

23. Institute for Engineering in Medicine 5/1/2013- 4-30/2014
Nanotechnology development and applications for clinical neuroscience applications
(PI: Low; Co-I: **Subramanian S**)

24. National Pancreas Foundation 6/1/2013- 5-30/2014
Role of tunneling nanotubes in promoting chemotherapy resistance to pancreatic cancer
(PI: Lou E; Co-PI: **Subramanian S**)

25. Comparative Medicine Signature Program 6/1/2013- 5-30/2014
Niche conditioning for metastasis in canine osteosarcoma
(PI: Modiano; Co-I: **Subramanian S**)

26. Children Cancer Research Fund 6/1/2013- 5-30/2015
Minnelide treatment in osteosarcoma: preclinical studies
(PI: **Subramanian S**, CoI Saluja A, Largaespada D, and Modiano J)

27. American Cancer Society 7/1/2013- 6/30/2017
MicroRNA gene regulatory networks in the pathogenesis of osteosarcoma
(PI: **Subramanian S**, CoI Modiano J, Spector L, Sarver A, and Largaespada D)

28. Sobiech Sarcoma Fund 10/1/2013- 9/30/2015
Germline and somatic determinants of outcomes in osteosarcoma
(Project PIs: PIs Largaespada D, Modiano J, Spector L and **Subramanian S**)

29. National Institutes of Health R21 04/1/2014- 03/30/2016
Sleeping Beauty-mediated microRNA therapeutics for metastatic colorectal cancer
(PI: McIvor**;** CoI: **Subramanian S**)

30. Karen Wykoff Sarcoma Foundation 4/1/2014- 3-31/2015
MicroRNAs in the progression of osteosarcoma
(PI: **Subramanian S** CoI: Largaespada D, Modiano J, Spector L)

31. Morris Animal Foundation 6/1/2016- 5-30/2018
Niche conditioning for metastasis in osteosarcoma
(PI: Modiano; Co-I: **Subramanian S**)

32. Karen Wykoff Sarcoma Foundation 4/1/2016- 3-31/2017
Mechanisms of immune suppression in osteosarcoma
(PI: **Subramanian S** CoI: Largaespada D, Modiano J)

33. National Institutes of Health R21 04/1/2016- 03/30/2018
MicroRNA regulation of CD38 in airway smooth muscle causes an asthmatic phenotype
(PI: Kannan M**;** CoI: **Subramanian S**)

33. National Institutes of Health R21 04/1/2016- 05/30/2018
Modulation of Osteosarcoma Biology by Inflammation and Immunity Defined through a Comparative Approach (PI: Modiano J**;** CoI: **Subramanian S**)

34. Innovation award Medical School UMN 04/1/2017- 05/30/2018
Neoadjuvant immunotherapy in colorectal cancer
(PI: **Subramanian S**)

35. NIH/NCI (R03-CA219129) 08/1/2017- 07/30/2019
ACKR4 in the antitumor response in colon cancer
(PI: **Subramanian S**)

36. Mezin-Koats colon cancer fund 7/30/2017- 06/30/2018
Mechanisms of immune regulation in colorectal cancer
(PI: **Subramanian S**)

37. Department of Defense Idea award 05/1/2018- 05/30/2020
Tumor intrinsic regulation of T cells in osteosarcoma
(PI: Modiano; CoI: **Subramanian S**, Largaespada D, Spector L)

38. Mezin-Koats colon cancer fund 7/30/2018- 06/30/2019
Microbiome and metabolic interactions in colorectal cancer
(PI: **Subramanian S**)

39. ChainBreaker Cancer Research Grant 9/1/2018- 08/30/2021
Gut microbiome in cancer pathogenesis and progression.
(Project PI: **Subramanian S**)

39. Gopher Cure Cancer Research Grant 7/1/2019- 08/30/2020
Immune regulation in Colon Cancer.
(PI: **Subramanian S**)

40. Minnesota Colorectal Cancer Research Fund 12/1/2019- 12/30/2020
Role of ACKR4 in colon cancer immune regulation.
(PIs: **Subramanian S** and Xianda Zhao)

41. Clinical and Translational Science Institute 9/1/2020- 8/30/2022
NIH National Center for Advancing Translational Sciences, grant UL1TR002494.
Engineered exosomes for treatment of colorectal cancer.
(PI: **Subramanian S**)

42. Minnesota Colorectal Cancer Research Fund 1/1/2021- 6/30/2022
Tumor intrinsic regulation of immune response in colorectal cancer
(PIs: **Subramanian S** and Xianda Zhao)

43. Clinical and Translational Science Institute 8/1/2021- 7/30/2022
NIH National Center for Advancing Translational Sciences NCATS, grant UL1TR002494.
Allogenic tumor exosomes for treatment of colorectal cancer.
(PI: **Subramanian S**)

44. Minnesota Colorectal Cancer Research Fund 12/01/21 - 12/30/22
Macrophages as Regulators of Tumor Immunity in Colorectal Cancer
(PIs: **Subramanian, S** and Gates T)

45. Cancer Research Translational Initiative
Engineered Exosome-Based Treatment Strategy for Colorectal Cancer 7/1/2022- 7/30/2023
(PI: **Subramanian S**)

46. Mezin-Koats Colorectal Cancer Fund 7/1/2022- 07/30/2023
Role of CEP55 in Colorectal Cancer Tumor Progression and Immune Regulation
(PI: **Subramanian S**)

47. NIH/NCI (R21) 08/1/2022- 07/30/2024
Microbiome-metabolic interaction in colorectal cancer
(MPI: Griffin T, Jagtap P, and **Subramanian S**)

## BOOKS EDITED

1. microRNA Regulation in Health and Disease. Publisher: Multidisciplinary *Publishing* Institute (MDPI) 2020
Editors: Steer CJ and **Subramanian S**

2. Cancer Immunology. Publisher: Multidisciplinary *Publishing* Institute (MDPI) 2021
Editors: Zhao X and **Subramanian S**

## BOOK CHAPTERS

1. **Subramanian S** West R Rijn M Genomic of Human Sarcomas *Chromosome to Genome I.K International publishers* 2009 p.125-139.

2. Kartha RV and **Subramanian S**. MicroRNA control of apoptotic programs in cancer *Trends in Stem Cell Proliferation and Cancer Research. Springer Nature publications 2013* p. 503-530

3. Varshney J and **Subramanian S**. MicroRNA gene regulation in osteosarcoma. *Osteosarcoma: Symptoms Diagnosis and Treatment Options. Nova Science Publications 2014 p. 165-200*

4. Lou E and **Subramanian S**. *Tunneling Nanotubes: Intercellular conduits for direct cell-to-cell communication in cancer. Springer Nature publications* 2015

5. Sarver AE, Li L, Kartha RV and **Subramanian S**. *MicroRNAs in Cancer: From molecular biology to clinical practice. Springer Nature publications* 2015

6. Lou E, William S and **Subramanian S.** *Exosomes in Cancer. Elsevier publications* 2017

7. Zhao X, Reith J, Yuan C, Wangmo D, and **Subramanian S.** Acquired resistance to immunotherapy: Novel methods to overcome resistance in cancer. Current applications for overcoming resistance to targeted therapies. *Springer Nature publications* 2019

*8.* Yuan C, Wangmo D, Zhao X, Gates T and **Subramanian S.** *Mouse models to assess immune response and tumor-microbiome interactions in colorectal cancer. Wiley Publication* 2022

## PEER REVIEWED PUBLICATIONS

**h-index** (*Subbaya Subramanian*)
Citations 10579 **h-index 54** i10-index 100

124. Prakash A, Gates T, Zhao X, Wangmo D, **Subramanian S.** Tumor-derived extracellular vesicles in the colorectal cancer immune environment and immunotherapy. **Pharmacology & Therapeutics** *2023*, 108332

123. Mills LJ, Makielski KM, Temiz NA, Wang J Spector L, **Subramanian S**, Modiano JF, Sarver A. Distinct mechanisms of PTEN inactivation in dogs and humans highlight convergent molecular events that drive cell division in the pathogenesis of osteosarcoma. **Cancer Genetics** *2023*

122. Gates T, Yaun C, Shetty M, Kaiser K, Nelson A, Chauhan A, Starr T, Staley C, **Subramanian S**. Fecal Microbiota Restoration Modulates the Microbiome in Inflammation-Driven Colorectal Cancer. *2023*, doi.org/10.1101/2022.12.28.522045

121. Roh J, **Subramanian S,** Weinreb NJ, Kartha R. Gaucher Disease – More Than Just a Rare Lipid Storage Disease. ***J Mol. Med.*** *2022, 100:499-518*

120. Zhao X and **Subramanian S** Cancer Immunology and Immunotherapies: Mechanisms that affect antitumor immune response and treatment resistance. ***Cancers*** *2021* 12;13(22):5655

119. Wangmo D, Premsrirut PK, Yuan C, Morris WS, Zhao X and **Subramanian S**. Loss of ACKR4 in tumor cells dysregulates dendritic cell migration to tumor-draining lymph nodes and T-cell priming. ***Cancers*** *2021*. 7;13(19):5021. DOI: 10.3390/cancers13195021.

118. Makielski K, Donnelly A, Khammanivong A, Scott M, Ortiz A, Galvan, Tomiyasu H, Amaya C, Ward, Montoya K, Garbe J, Mills L, Cutter G, Fenger J, Kisseberth W, O'Brien T, Weigel B, Spector L, Bryan B, **Subramanian S**, and Jaime Modiano. Development of an exosomal gene signature to detect residual disease in dogs with osteosarcoma using a novel xenograft platform and machine learning. ***Lab Investigation*** *2021 Sep 6. doi: 10.1038/s41374-021-00655*

117. Yuan C, Zhao X, Wangmo D, Alshareef D, Gates TJ, **Subramanian S.** Tumor models to assess immune response and tumor-microbiome interactions in colorectal cancer. ***Pharmacology and Therapeutics*** *2021 2:107981. DOI: 10.1016/j.pharmthera. 2021.107981.*

116. Zhao X, Yuan C, Wangmo D, **Subramanian S**. Tumor-secreted extracellular vesicles regulate T-cell costimulation and can be manipulated to induce tumor-specific T-cell responses. ***Gastroenterology*** *2021* 161: 560-574

115. Na Y, Hall A, Choi K, Rose J, Coover R, Miller A, Hennigan R, Dombi E, Kim M, **Subramanian S,** Ratner N, Hu L. MicroRNA-155 contributes to plexiform neurofibroma growth downstream of MEK. ***Oncogene*** 2021 *40(5):951-963.*

114. Zhao X, Kassaye B, Wangmo D, Lou E, **Subramanian S**. Chemotherapy but Not the Tumor Draining Lymph Nodes Determine the Immunotherapy Response in Secondary Tumors. ***iScience*** *2020 23(5):101056*

113. Nair, AA Tang X, Thompson KJ, Kalari KR, **Subramanian S**. MicroRNA response elements frequency identifies dysregulation of MAPK signaling in triple-negative breast cancer. Doi: http://dx.doi.org/10.1101/817098. ***iScience*** 2020 23(6):101249

112. Mills LJ, Scott MC, Shah P, Cunanan AR, Deshpande A, Auch B, Curtin B, Beckman K, Spector LG, Sarver AL, **Subramanian S**, Richmond TA, Modiano JF. Comparative analysis of genome-wide DNA methylation identifies patterns that associate with conserved transcriptional programs in osteosarcoma. ***Bone*** 2020 *27:115716*

111. Zhao X, Wangmo D, Robertson M, **Subramanian S**. Acquired resistance to immune checkpoint blockade therapies ***Cancers*** 5: 2020 12(5):1161.

110. Tanaka M, Homme M, Yamazaki Y, Ae K, Matsumoto S, **Subramanian S**, and Nakamura T. Cooperation between SS18-SSX1 and miR-214 in synovial sarcoma development and progression. ***Cancers*** 2020 12(2):324. DOI: 10.3390/cancers12020324.

109. Nalluri H, **Subramanian S**, and Staley C. Intestinal Organoids: A model to study the role of microbiota in the colonic tumor microenvironment. ***Future Microbiol.*** 2020 *15:1583-1594.*

108. Subramanian S, Iles T, Ikramuddin S, Steer CJ. Merit of an Ursodeoxycholic Acid Clinical Trial in COVID-19 Patients. ***Vaccines*** 2020 ;8(2):320. doi: 10.3390/vaccines8020320

107. Nelson AC, Turbyville T, Dharmaiah S, Rigby M, Yang R, Columbus J, Stephens R, Sciacca D, Onsongo G, Sarver A, **Subramanian S**, Nissley DV, Simanshu DK, Lou E. RAS internal tandem duplication disrupts GAP-binding to activate oncogenic signaling. ***J Biol Chem*** *2020 295(28):9335-9348*

106. Lou E and **Subramanian S**. Changing oncology treatment paradigms in the COVID-19 pandemic. ***Clinical Colorectal Cancer*** *2020 8(2): E320*

105. Yuan C, Graham M, **Subramanian S.** Mucosal Microbiota and Metabolome along the Intestinal Tract Reveal a Location-Specific Relationship. ***mSystems*** 2020 5(3):e00055-20

104. Lou E, Vogel R, Hoostal S, Wong P, Grad A, Monu M, Lukaszewski T, Deshpande J, Dickson E, Klien M, Linden M, **Subramanian S**, Teoh D, Geller M. Analysis of differentially expressed microRNAs and circulating tumor cells as predictive biomarkers of platinum chemoresistance in primary ovarian carcinomas. ***The Oncologist*** 2019 2019-0497.

103. **Subramanian S** and Steer C. MicroRNA Regulation in Health and Disease. ***Gene*** 2019 15;10(6).

102. Yuan C, Steer C, **Subramanian S.** Host-microRNA-microbiome interactions in colorectal cancer. ***Gene*** 2019 2;10(4).

101. Yuan C, **Subramanian S.** MicroRNA mediated tumor-microbiota metabolic interactions in colorectal cancer. ***DNA and Cell Biology*** 2019 Apr;38(4):281-285. (Cover page)

100. Desir S, Wong P, Turbyville T, Chen D, Shetty M, Clark C, Zhai E, Starr T, Nissley D, Steer C, **Subramanian S,** Lou E. Intercellular transfer of oncogenic RAS induces an invasive phenotype and modulates RAS signaling pathways in wild type RAS cancer cells. ***Cancers.*** *2019* Jun 26;11(7)

99. Sarver A, Sarver A, Yuan C, **Subramanian S**. OMCD: OncomiR cancer database. ***BMC Cancer*** *2018* Dec 6;18(1):1223.

98. Lou E, Zhai E, Sarkari A, Desir S, Wong P, Iizuka Y, Yang J, **Subramanian S**, McCarthy J, Bazzaro M, and Steer C. Cellular and molecular networking within the ecosystem of cancer cell communication via tunneling nanotubes. ***Front. Cell Dev. Biol.*** *2018 6:95.*

97. Desir S, O'Hare P, Vogel R, Sperduto W, Sarkari A, Dickson E, Wong P, Nelson A, Fong Y Steer C, **Subramanian S** and Lou E. Chemotherapy-Induced tunneling nanotubes mediate intercellular drug efflux in pancreatic cancer. ***Scientific Reports*** *2018 8:9484.*

96. Rieth JM **Subramanian S.** Mechanisms of intrinsic tumor resistance to cancer immunotherapy. ***Int J Mol Biosci*** *2018 2: 19 E1340.*

95. Zhao X Audre M Lou E **Subramanian S.** Genotypic and phenotypic signatures to predict

immune checkpoint blockade therapy response in patients with colorectal cancer. ***Translational Res.*** *2018 196:62-70.*

94. Yuan C, Burns M, **Subramanian S*,** Blekhman R*. Interaction between host microRNAs and the gut microbiota in colorectal cancer. ***mSystems*** 2018 15: 3 e00205-17. *Corresponding authors

93. Deshpande DA, Guedes AGP, Graeff R, Dogan S, **Subramanian S,** Walseth TF, Kannan MS. CD38/cADPR signaling pathway in airway disease: Regulatory mechanisms. ***Mediators of Inflammation*** *2018 7:8942042.*

92. Scott MC, Temiz NA, Sarver AE, LaRue RS, Rathe SK, Varshney J, Wolf NK, Moriarity BS, Spector LG, Modiano JF Largaespada DA **Subramanian S,** Sarver AL. Comparative transcriptome analysis quantifies immune cell transcript levels metastatic progression and survival in osteosarcoma. ***Cancer Research*** *2018 78: 326-337*

91. Thayanithy V, O'Hare P, Wong P, Zhao X, Steer CJ, **Subramanian S,** Lou E. A transwell assay that excludes exosomes for assessment of tunneling nanotube-mediated intercellular communication. ***Cell Communication and Signaling*** *2017 15:46.*

90. Lou E, Gholami S, Romin Y, Thayanithy V, Fujisawa S, Desir S, Steer C, **Subramanian S** Fong Y, Manova K, Moore M. Imaging tunneling membrane tubes elucidates cell communication in tumors. ***Trends in Cancer*** *2017 10:678-685.*

89. Zhao X and **Subramanian S.** Oncogenic pathways that affect the antitumor immune response and immune checkpoint blockade therapy. ***Pharmacology and Therapeutics*** *2017 181:76-84.*

88. Zhao X, Li L, Starr T, **Subramanian S.** Tumor location impacts immune response mouse models of colon cancer. ***Oncotarget*** *2017 8:54775-54787*

87. Zhao X and **Subramanian S.** Intrinsic resistance of solid tumors to immune checkpoint blockade therapy. ***Cancer Research*** *2017 77: 817-822*

86. Shu J, Li L, Sarver A, Varshney J, Spector L, Largaespada D, Steer C, and **Subramanian S**. Imprinting defects at human 14q32 locus alters gene expression and is associated with the pathobiology of osteosarcoma. ***Oncotarget*** *2016* doi: 10.18632/oncotarget.6965.

85. Lou E O'Hare P **Subramanian S** Steer CJ. Lost in Translation: Applying 2D intercellular communication via tunneling nanotubes in cell culture to the 3D environment of cancer biology. ***FEBS J*** 2017 284: 699-707

84. Nair A, Niu N, Tang X, Kocher J, **Subramanian S*** Kalari K*. Circular RNAs and their associations with Breast Cancer subtype. ***Oncotarget*** *2016* DOI: 10.18632/oncotarget.13134 *Corresponding authors

83. Sarver A and **Subramanian S**. Imprinting defects in osteosarcoma: DNA- and chromatin-modifying drugs hold promise to osteosarcoma therapy. ***Epigenomics*** *2016 7:885-888*

82. Deshpande AD, Guedes AGP, Lund FE, **Subramanian S,** Walseth TF, Kannan MS. CD38 in the pathogenesis of allergic airway disease: potential therapeutic targets. ***Pharmacology and Therapeutics*** *2017 172: 116-126*

81. Scott MC, Tomiyasu H, Garbe JR, Cornax I, Amaya C, O'Sullivan GM, **Subramanian S** Bryan B, Modiano JF. Heterotypic models of osteosarcoma recapitulate tumor Heterogeneity and biological behavior. ***Disease Models Mechanisms*** *2016 9: 1435-1444. (Selected as an Editor's Choice lead article of the issue)*

80. Dixit A, Sarver A, Yuan Z, George J, Barlass U, Cheema C, Sareen A, Banerjee S, Dudeja V, Dawra R, **Subramanian S,** Saluja A. Comprehensive analysis of microRNA signature of mouse pancreatic acini identifies over-expression of miR-21-3p in acute pancreatitis. ***Am J Physiol*** - Gastrointestinal and Liver Physiology *2016* 311: G974–G980.

79. Desir S, Dickson E, Vogel R, Thayanithy V, Wong P, Teoh D, Geller M, Steer C, **Subramanian S,** Lou E. Tunneling nanotube conduits mediate direct cell-to-cell communication in ovarian cancer: implications for emergence of chemoresistance. ***Oncotarget*** *2016* doi: 10.18632/oncotarget.9504.

78. Dileepan M, Sarver A, Panettieri R, **Subramanian S,** Kannan M. MicroRNA mediated chemokine responses in human airway smooth muscle cells. ***PLoS One*** *2016 11(3): e0150842*

77. Yan Y, Hanse EA, Stedman K, Benson JM, Lowman XH, **Subramanian S,** Kelekar A. ATRA upregulates tumor suppressor phosphatase PHLPP2 via C/EBP-β mediated repression of the miR17~92 cluster in AML. ***Cell Death and Diff*** *2016 7:1232-1242.*

76. Varshney J, Scott MC, Largaespada DA, **Subramanian S.** Understanding Osteosarcoma Pathobiology: From Bench to Kennel to Bedside. ***Veterinary Sciences*** *2015 3: 3 1-15*

75. Sarver AE, Li L, Kartha RV, **Subramanian S.** MicroRNAs in the malignant transformation process. ***Adv Exp Med Biol***. *2015; 889:1-21*

74. Scott MC, Sarver AL, Tomiyasu H, Etten JV, Varshney J, **Subramanian S,** Modiano JF. Aberrant Retinoblastoma (RB)-E2F Transcriptional Regulation Defines Molecular Phenotypes of Osteosarcoma. ***J Bio Chem*** *2015,* 290:28072-28083

73. Murphy SJ, Hart SN, Halling GC, Johnson SH Drucker T, Lima JF, Rohakhtar FR, Harris F Kosari F, **Subramanian S** Petersen GM, Kipp BR, McWilliams RR, Couch FJ and Vasmatzis G. Integrated genomic analysis of pancreatic ductal adenocarcinomas and impact on the *SMAD4* and *FHIT* genes. ***Cancer Research*** *2016, 76:749-761*

72. Silva M, Hernandez ME, Rojas F, Li L, **Subramanian S,** Wilson MJ. MicroRNA miR-182 cluster mediated modulation of RECK without changes in cell surface membrane type-1 matrix metalloproteinase. ***Am J Cancer Research*** *2015, 9: 2918-2928*

71. Sarver A, Li L, **Subramanian S.** MicroRNA miR-183 functions as a potential oncogene by targeting EGR1 and promoting tumor cell migration. ***Cancer Research*** 2010, 70: 9570-9580.

70. Rojas F, Hernandez ME, Silva M, Li L, **Subramanian S,** Wilson MJ, Liu P. The Oncogenic Response to miR-335 is associated with cell surface expression of membrane-type 1 matrix metalloproteinase (MT1-MMP) activity. ***PLoS One*** *2015 10: e0132026*

69. Deshpande DA, Dileepan M, Walseth TA, **Subramanian S** and Kannan MS. MicroRNA regulation of airway smooth muscle phenotype: relevance to asthma. ***Drug Dev Res***. *2015 76: 286–295*

68. Sarver A and **Subramanian S**. Are microRNAs the answer to colorectal cancer's big questions. ***J Clin Exp Pathol*** *2015* 5:242

67. Varshney J and **Subramanian S.** MicroRNAs as potential target in human bone and soft tissue sarcoma therapeutics. ***Front Mol Biosci*** 2015 2: 31

66. Sarver AE, Sarver AL, Thayanithy V, **Subramanian S**. Identification by systematic RNA sequencing of novel candidate biomarkers and therapeutic targets in human soft tissue tumors. ***Lab Invest*** *2015 95: 1077-1088*

65. Sarver AE, **Subramanian S**. MicroRNAs in the pathobiology of sarcomas. ***Lab Invest*** *2015 95:987-994*

64. Oliveira A, Beyer G, Chugh R, Skube S, Majumder K, Banerjee S, Sangwan V, Dawra R, **Subramanian S,** Saluja A and Dudeja A. Triptolide abrogates growth of colon cancer and induces cell cycle arrest by inhibiting transcriptional activation of E2F. ***Lab Invest*** *2015* 95: 648-659

63. Guedes AGP, Deshpande DA, Dileepan M, Walseth TF, Panettieri RA, **Subramanian S** and Kannan MS. CD38 and Airway hyperresponsiveness: Studies on human airway smooth muscle cells and mouse models. ***Can J Physiol Pharm*** *2015 93: 145-153*

62. Li L, Sarver A, Rohini K, Hajeri P, Kamenev I, French A, Thibodeau, S Steer C, **Subramanian S.** Sequential expression of miR-182 and miR-503 cooperatively targets FBXW7 contributing to the malignant transformation of colon adenoma to adenocarcinoma. ***J Pathol*** *2014 234: 488-501 (Cover page article)*

61. Dileepan M, Jude JA, Rao SP, Panettieri RA, **Subramanian S,** Walseth TF, and Kannan MS. MicroRNA-708 regulates CD38 expression through signaling pathways JNK MAPKinase and PTEN/AKT in human airway smooth muscle cells. ***Respir Res***. *2014 15:107*

60. Thayanithy V, Dickson EL, Steer C, **Subramanian S,** Lou E. Tumor-stromal crosstalk: Direct cell-to-cell transfer of oncogenic microRNAs via tunneling nanotubes. ***Transl Res*** *2014 164: 359-365*

59. Thayanithy V, Babatunde V, Dickson EL, Wong P, Oh S, Ke X, Barlas A, Fujisawa S, Romin Y, Moreira AL, Downey RJ, Steer CJ, **Subramanian S,** Lou E. Tumor exosomes

induce tunneling nanotubes in lipid raft-enriched regions of human mesothelioma cells. ***Exp Cell Res*** *2014, 323: 178-188*

58. Kartha RV and **Subramanian S.** Competing Endogenous RNAs (ceRNAs): New Entrants to the Intricacies of Gene Regulation. ***Front Genet*** *2014 30; 5:8*

57. Varshney J and **Subramanian S.** Small is the new big- interplay of microRNAs in cancer. ***Current Science*** *2014* 107: *803-814*

56. Khatri R and **Subramanian S.** MicroRNA-135b and its circuitry networks as potential therapeutic targets in colon cancer. ***Front Oncol*** *2013 3:268*

55. Lou E, **Subramanian S,** Steer C. Pancreatic Cancer: Modulation of KRAS MicroRNAs and Intercellular Communication in the Setting of Tumor Heterogeneity. ***Pancreas*** *2013 42: 1218-1226*

54. Bannerjee S, Thayanithy V, Sangwan V, MacKenzie T, Saluja A, and **Subramanian S**. Minnelide induces cell death and reduces tumor burden in orthotopic mice models of osteosarcoma. ***Cancer Letters*** *2013* 335: 412-420

53. MacKenzie T, Mujumdar N, Banerjee S, Sangwan V, Sarver A, Vickers S, **Subramanian S,** Saluja A. Triptolide Induces the Expression of miR-142-3p a Negative Regulator of heat shock protein 70 and pancreatic cancer cell proliferation. ***Molecular Cancer Ther*** *2013 12:1266-1275*

52. Sarver A, Thayanithy V, Scott M, Cleton AM, Hogendoorn P, Modiano J, **Subramanian S.** Integrative and comparative genomic analyses of human and canine osteosarcoma reveal the prognostic significance of 14q32 locus microRNAs. ***Orph J Rare Diseases*** *2013* 8: 7

51. Charbonneau B, Vogel R, Manivel C, Rizzardi A, Schmechel S, Ognjanovic S, **Subramanian S,** Largaespada D, Weigel B. Expression of FGFR3 and FGFR4 and clinical risk factors associated with progression-free survival in synovial sarcoma. ***Human Pathology*** *2013 44:1918-1926*

50. Sunderbose K, Kartha RV, and **Subramanian S**. MicroRNAs as biomarkers in cancer. ***Diagnostics***. *2013* 3: 84-104

49. Raghu R, Liu CT, Mong-Hsun T, Xiaojia T, Krishna K, **Subramanian S,** Lee-Yan S. Transcriptome analysis of garlic induced hepatoprotection against alcoholic fatty liver. ***J Agri Food Chem.*** *2012* 60:11104-11119

48. Shu J, Xia Z, Li L, Liang ET, Slipek N, Shen D, Foo J, **Subramanian S,** Steer C. Dose-dependent differential mRNA target selection and regulation by let-7a-7f and miR-17-92 cluster microRNAs. ***RNA Biol*** *2012* 9:1275-1287

47. Angstadt AY, Thayanithy V, **Subramanian S,** Modiano JF and Breen M. A genome-wide approach to comparative oncology: High-resolution oligonucleotide aCGH of canine and human osteosarcoma pinpoints shared microaberrations. ***Cancer Genetics*** *2012* 205:572-587

46. Sarver A and **Subramanian S.** Competitive endogenous RNA Database. ***Bioinformation*** *2012* 8(15): 731-733.

45. Thayanithy V, Park C, Sarver A, Kartha RV, Korpela DM, Graef AJ, Steer CJ, Modiano JF **Subramanian S.** Combinatorial treatment of DNA and chromatin-modifying drugs cause cell death in human and canine osteosarcoma cell lines. ***PLOS One*** *2012* 7(9): e43720.

44. Jude J, Dileepan M, **Subramanian S,** Solway J, Panettieri R, Walseth T, Kannan MS. MicroRNA miR-140-3p regulation of TNF-□-induced CD38 expression in human airway smooth muscle cells. ***Am J of Physiol*** *2012 303:460-468*

43. **Subramanian S** and Kartha RV. MicroRNA mediated gene regulations in human sarcomas. ***Cell Mol Life Sci*** *2012* 69: 3571-3585

42. Lou E, Fujisawa S, Barlas A, Romin Y, Manova-Todorova K, Moore M, and **Subramanian S.** Tunneling nanotubes: A new paradigm for studying intercellular communication and therapeutics in cancer. ***Commun Integer Biol*** *2012* 5: 399–403 (Cover page article)

41. Steer CJ and **Subramanian S.** Circulating microRNAs as Biomarkers: A New Frontier in Diagnostics. ***Liver Transplantation*** *2012* 18:265-269 (Cover page article)

40. Li L, Sarver A, Alamgir S and **Subramanian S**. Downregulation of microRNAs miR-1 -206 and -29 stabilizes PAX3 and CCND2 expression in rhabdomyosarcoma. ***Lab Invest*** *2012 92:571-83*

39. Thyanithy V, Sarver A, Kartha R, Park CW, Scott MC, Angstadt A, Breen M, Steer CJ, Modiano J and **Subramanian S**. Perturbation in 14q32 miRNAs-MYC-miR-17~92 gene network contributes to osteosarcoma. ***Bone*** *2012 50:171-181*

38. Shu J, Kren BT, Xia Z, Wong PY, Li L, Hanse EA, Min MM, Li B, Albrecht JH, Zeng Y **Subramanian S,** and Steer CJ. Genome-wide microRNA downregulation as a negative feedback mechanism in the early phases of liver regeneration. ***Hepatology*** *2011* 54:609-619

37. Oberg AL, French AJ Sarver AL **Subramanian S,** Morlan BW, Riska SM, Borralho PM, Cunningham JM, Boardman LA, Wang L, Smyrk TC, Asmann Y, Steer CJ, Thibodeau SN. MicroRNA expression in colon polyps provides evidence for a multi-hit model of colon cancer. ***PLoS One*** *2011 6(6): e20465*

36. Scott MC, Sarver AL, Gavin K, Thayanithy V, Getzy DM, Newman RA, Cutter GR, Lindblad-Toh K, Kisseberth WC, Hunter LE, **Subramanian S,** Breen M, Modiano JF. Molecular subtypes of osteosarcoma identified by reducing tumor heterogeneity through an innovative comparative approach. ***Bone*** *2011 54:609-619*

35. Mills AM, Beck AH, Montgomery K, Zhu SX, Espinosa I, Lee CH, **Subramanian S** Fletcher C, van de Rijn M, West RB. Expression of subtype-specific Group 1 leiomyosarcoma markers in a wide variety of sarcomas by gene expression analysis and immunohistochemistry. ***Am J Surg Pathol*** *2011 35:583-589*

34. Beckman JD, Chen C, Nguyen J, Thayanithy V, **Subramanian S,** Steer CJ, Vercellotti GM. Regulation of Heme-Oxygenase-1 protein expression by miR-377 in combination with miR-217. ***J Biol Chem*** *2011 286: 3194-3202*

33. Shu J, Kren BT, Xia Z, Wong PY, Li L, Hanse EA, Min MM, Li B, Albrecht JH, Zeng Y **Subramanian S,** Steer CJ. Genome-wide microRNA downregulation as a negative feedback mechanism in the early phases of liver regeneration. ***Hepatology*** *2011* 54:609-619

32. Park C, Zeng Y, Zhang X, **Subramanian S,** and Steer CJ. MicroRNAs identified in highly purified nuclei from HCT116 colon cancer cells. ***RNA Biology*** *2010* 7:(5)

31. Sarver A, Phalak R, Thayanithy V, **Subramanian S**. S-MED: Sarcoma microRNA Expression Database. ***Lab Invest*** *2010 90: 753-761*

30. **Subramanian S*** Thayanithy, V West RB, Lee CH, Beck AH, Zhu S, Downs-Kelly, E Montgomery K, Goldblum JR, Hogendoorn PCW, Corless CL, Oliveira AM, Dry SM, Nielsen TO, Rubin BP, Fletcher JA, Fletcher CDM, van de Rijn M. Genome-wide transcriptome analyses reveals p53 inactivation mediated loss of miR-34a expression in malignant peripheral nerve sheath tumors. ***J Pathol*** *2010 220: 58-70* *Corresponding author selected as hot topic and highlighted in *J Pathol.* Virtual Issue Number 1 April 2010

29. **Subramanian S** and Steer CJ. MicroRNA as gatekeepers of apoptosis. ***J Cell Physiol*** *2010 223: 289-298* (cover page article and discussed in the highlight section)

28. Kartha RV and **Subramanian S**. MicroRNAs in cardiovascular diseases: Biology and potential clinical applications. ***J Cardiovasc Tran Res*** *2010 3: 256-270*

27. Wang L, Tang H, Thayanithy T, **Subramanian S,** Oberg AL, Cunningham JM, Cerhan JR Steer CJ, Thibodeau SN. Gene networks and microRNAs implicated in aggressive prostate cancer. ***Cancer Research*** *2009 69:9490-9497*

26. Lee CH, **Subramanian S,** Beck AH, Espinosa I, Senz J, Zhu S, Huntsman D, van de Rijn M Gilks C. MicroRNA profiling of BRCA1/2 mutation-carrying and non-mutation carrying high-grade serous carcinomas of ovary. ***PLoS One*** *2009* 4(10):e7314

25. Sarver AL, French A, Borralho PM, Thayanithy V, Silverstein K, Morlan B, Oberg A, Cunningham J, **Subramanian S,** Wang L, Rodrigues C, Thibodeau SN, Steer CJ. Human colon cancer profiles show differential microRNA expression depending on mismatch repair status and are characteristic of undifferentiated proliferative states. ***BMC Cancer*** *2009* 9:401

24. Wang L, Oberg AL, Asmann YW, Sicotte H, McDonnell SK, Riska SM, Liu W, Steer CJ, **Subramanian S** Cunningham JM Cerhan JR, and Thibodeau SN. Genome-wide transcriptional profiling reveals microRNA-correlated genes and pathways in human lymphoblastoid cell lines. ***PLoS One*** *2009* 4 (6): e5878

23. Hu Z, Fan C, Livasy C, He X, Oh DS Ewend MG, Carey LA, **Subramanian S,** West R, Ikpatt F, Olopade OI, van de Rijn M, Perou CM. A compact VEGF signature associated with distant metastases and poor outcomes. ***BMC Medicine*** *2009* Mar 16;7:9

22. Clarke B, Tinker AV, Lee C, **Subramanian S,** van de Rijn M, Turbin D, Cadungog MG, Huntsman D, Coukos G, Gilks CB. Intraepithelial T cells and Prognosis in Ovarian Carcinoma: Novel Associations with Stage Tumor Type and BRCA1 Loss. ***Mod Pathol*** *2009 22:393-402*

21. **Subramanian S,** Lui WO, Lee CH, Espinosa E, Nielsen T, Heinrich M, Corless C, Fire A, and van de Rijn M. MicroRNA expression signature of human soft tissue tumors. ***Oncogene*** *2008 27; 2015-2026*

20. Lubieniecka JM, de Bruijn D, Su Lvan Dijk A, **Subramanian S,** van de Rijn M, Poulin N, van Kessel, A Nielsen TO. Histone deacetylase inhibitors reverse SS18-SSX mediated polycomb silencing of the tumor suppressor EGR1 in synovial sarcoma. ***Cancer Research*** *2008 68: 4303-4310*

19. Lee C, Espinosa I, Jensen K, **Subramanian S,** Zhu S, Varma S, Montgomery K, Nielsen TO, van de Rijn M, and West R. Gene expression profiling identifies p63 as a diagnostic marker for giant cell tumor of the bone. ***Modern Pathology*** *2008 21:531-539*

18. Lee C, Espinosa I, Vrijaldenhoven S, **Subramanian S,** Montgomery K, Zhu S, Poulin N Nielsen T, West R, Gilks B, van de Rijn M. Prognostic significance of macrophage marker in leiomyosarcomas. ***Clinical Cancer Research*** *2008 14; 1423-1430*

17. Espinosa I Lee C Kim M Rouse B **Subramanian S** Montgomery K Corless CL Heinrich MC Smith KS et al. A novel monoclonal antibody against DOG1 is a sensitive and specific marker for gastrointestinal stromal tumors. ***Am J Surg Path*** *2008 32; 210-218*

16. Terry J, Saito T, **Subramanian S,** Ruttan C, Antonescu CR, Goldblum JR, Downs-Kelly E Corless CL, Rubin BP, van de Rijn M, Ladanyi M, and Nielsen TO. TLE1 as a diagnostic immunohistochemical marker for synovial sarcoma emerging from gene expression profiling studies. ***Am J Surg Path*** *2007 31: 240-246*

15. West RB, Rubin BP, Miller M, **Subramanian S,** Kaygusuz G, Montgomery K, Luca AD, Gilks B, Nielsen TO, Huntsman D, and van de Rijn M. CSF1-COL6A3 gene fusion is present in a minority of tumor cells in tenosynovial giant cell tumor and pigment villonodular synovitis. ***Proc Natl Acad Sci USA*** *2006 103:690-695*

14. **Subramanian S,** West RB, Marinelli RJ, Nielsen TO, Rubin BP, Goldblum, JR Patel, RM Zhu S Montgomery K, Ng TL, Corless CL, Heinrich MC and van de Rijn M. Gene Expression Profile of Extraskeletal Myxoid Chondrosarcoma. ***J Pathol*** *2005 206:433-444*

13. Suresh A, Shah V, Rani DS, Singh BN, Uma G, **Subramanian S,** Kumar S and Singh L. A mouse gene encoding a novel member of the WD family of proteins is highly conserved and predominantly expressed in testis (wdr13). ***Mol Reprod Dev*** *2005 72: 299-310*

12. West RB, Nuyten DSA, **Subramanian S,** Corless CL, Rubin BP, Montgomery K, Zhu SX, Nielsen TO, Patel R, Goldblum JR, Brown PO, van de Vijver M, van de Rijn M. Stromal Expression Signatures Predict Outcome in Breast Carcinoma. ***PLoS Biology*** *2005 3:3187*

11. **Subramanian S,** West RB, Corless C, Ou W, Rubin B, Chu K, Leung SY, Yuen ST, Zhu S, Hernandez-Boussard T, Montgomery KD, Nielsen TO, Patel RM Goldblum JR, Heinrich MC, Fletcher JA and van de Rijn M. Gastrointestinal Stromal Tumors (GISTs) with KIT and PDGFRA mutations have distinct gene expression profiles. ***Oncogene*** *2004 23: 7780-7790*

10. West RB, Corless CL, Chen X, Rubin BP, **Subramanian S,** Montgomery KD, Zhu S, Ball CA, Nielsen TO, Patel R, Goldblum JR, Brown PO, Heinrich MC, and van de Rijn M. The Novel Marker DOG1 is expressed ubiquitously in Gastrointestinal Stromal Tumors irrespective of KIT or PDGFRA mutation status. ***Am J Pathol*** *2004 165: 107-113*

9. Sabarinadh Ch, **Subramanian S** and Mishra RK. Extreme conservation of non-repetitive non-coding regions near HoxD complex of vertebrates. ***BMC Genomics*** *2004 5:75*

8. **Subramanian S,** Mishra RK and Singh L Genome-wide analysis of microsatellite repeats in human: Abundance and their density in specific genomic regions ***Genome Biology*** *2004 4: R13*

7. **Subramanian S,** Mishra RK and Singh L. Genome-wide analysis of Bkm sequences (GATA repeats): Predominant association with sex chromosomes and potential role in higher order chromatin organization and function. ***Bioinformatics*** *2003 19: 681-685*

6. **Subramanian S** Madugula VM George R Mishra RK Pandit MW Chanderashekar S Kumar and Singh L. Triplet repeats analysis in human genome: Abundance distribution and association with genes and other genomic regions. ***Bioinformatics*** *2003 19: 549-552*

5. **Subramanian S,** Madugula VM George R, Satish Kumar C Pandit MW, and Singh L. SSRD: A simple sequence repeat database for human genome. ***Int. J. Genomics*** *2003 4: 342-345*

4. Thangaraj K, **Subramanian S** and Singh L. A unique case of deletion and duplication in the long arm of the Y chromosome in an individual with ambiguous genitalia. ***Am J Med Genet*** *2003 116: 205-207*

3. Singh BN, Suresh A, Uma, **Subramanian S,** Sultana MS, Goel S, Kumar S and Singh L. A highly conserved human gene encoding a novel member of WD-repeat family of proteins (WDR13). ***Genomics*** *2003 81: 315-328*

2. Thangaraj K, Gupta NJ, Pavini K, Reddy AG, **Subramanian S,** Rani DS, Ghosh B, Chakravarty B and Singh L. Y-chromosome deletion in Azoospermic Men in India. ***J Andrology*** *2003 24: 588-597*

1. **Subramanian S,** Madgula VM, George R, Mishra RK, Pandit MW, Kumar CS, Singh L MRD: a microsatellite repeats database for prokaryotic and eukaryotic genomes. ***Genome Biology****. 2002; 3: 12*

**JOURNAL REPORTS**

1. **Subramanian S.** Y-chromosome multi-copy genes. ***Genome Biol***. 2001 2 (8): reports0023

2. **Subramanian S.** Selection for reproduction. ***Genome Biol***. 2001 2 (8): reports0025

3. **Subramanian S.** Haploid female mites. ***Genome Biol***. 2001 2 (9): reports0029

4. **Subramanian S.** Human chromosome 19 homologies. ***Genome Biol***. 2001 2 (10): reports0033
5. **Subramanian S.** Malarial origins. ***Genome Biol***. 2001 2 (10): reports0036

6. **Subramanian S.** You are what you eat. ***Genome Biol***. 2001 2 (9): reports0031

7. **Subramanian S.** Characterizing resistance to the pesticide Bt toxin. ***Genome Biol***. 2001 2 (10): reports0038

## CANCER and GENOMIC DATABASE

1. Sarcoma microRNA expression database http://www.oncomiR.umn.edu

2. Competing endogenous RNA database http://www.oncomiR.umn.edu/cefinder

3. Colon Cancer microRNA expression database http://www.oncomiR.umn.edu/colon

4. OncomiRNA cancer database http://www.oncomiR.umn.edu/OMCD

## JOURNAL PROCEEDINGS

1. M Scott, N Temiz, A Sarver, R LaRue, S Rathe, J Varshney, N Wolf, Spector L, Modiano J, Largaespada D, **Subramanian S**, Sarver A. Immune cell transcript levels, metastatic progression, and survival in osteosarcoma: A comparative transcriptome analysis. ***Clinical Cancer Research*** 24 (2 Supplement), PR14.

2. Thayanithy V, Dickson EL, Steer C, **Subramanian S,** Lou E. Tumor-stromal crosstalk: Direct cell-to-cell transfer of oncogenic microRNAs via tunneling nanotubes. ***Trans Res*** 2014. S1931-5244(14)00198-4 (*commentary*)

3. West RB, Nuyten DSA, **Subramanian S,** Corless C, Rubin BP, Montgomery K, Zhu SX, Van de Rijn M. Stromal expression signatures predict outcome in breast carcinoma. ***Lab Invest*** *2005 85 55A-55A*

4. Kalof AN, West RB, **Subramanian S,** Zhu S, Montgomery K, Nielsen TO, Van de Rijn M Novel gene ANKS1 expression in gastrointestinal stromal tumors. ***Lab Invest*** *2005 85 16A-16A*

5. West RB, Kaygusuz G, **Subramanian S,** Corless CL, Rubin BP, Montgomery K, Van de Rijn M CSF1R expression in soft tissue tumors. ***Lab Invest*** *2005 85 23A-23A*

*6.* West RB, Horlings H, Nuyten DSA, **Subramanian S,** Zhu SX, Miller M, Rubin BP, Van de Rijn M. CSF1 expression signature identifies a subset of breast carcinomas and influences outcome. ***Breast Can Res and Treat*** *2005 94 S135-S135*

*7.* Cupp JS, Rubin BP, Miller MA, **Subramanian S,** Montgomery RJ, Marinelli A, Van de Rijn M. Translocation and expression of CSF1 in pigmented villonodular synovitis tenosynovial giant cell tumors and reactive synovial lesions. ***Lab Invest*** *2006 86 10A-10A*

*8.* Kartha RV, **Subramanian S,** Troxell ML, Higgins JP, Kambham N. Gene expression profiling of diabetic nephropathy using paraffin-embedded nephrectomy samples ***Lab Invest*** *2008 88 292A-292A*

*9.* Lee CH, **Subramanian S,** Espinosa I, Zhu S, Blood KA, van de Rijn M, D Gilks B. MicroRNA and mRNA expression profiling of 48 ovarian surface epithelial neoplasms. ***Lab Invest*** *2008 88 211A-211A*

10. Beckman JD, Nguyen J, Thayanithy V, **Subramanian S,** Steer CJ, Vercellotti GM. Regulation of heme-oxygenase-1 protein expression via expression of microRNAs 377 and 217. ***J Invest Med*** *2010 58 (4) 660-660*

11. Li L, Sarver A, **Subramanian S**. miR-183 functions as a potential oncogene by targeting EGR1 and promoting tumor cell migration. ***Hum Gene Ther*** *2010 21 (10) 1405-1405*
12. Dickson EL, Vogel R, Leung S, Chow C, Huntsman D, Gilks B, **Subramanian S.** FBXW7 as a predictor of outcomes in ovarian cancer. ***J Am Colle Surg*** *2013 217: S72-73*

*13.* MacKenzie TN, Mujumdar N, Thayanithy V, Sarver A, Chugh R, **Subramanian S,** Sangwan V, Saluja A. Triptolide Induces Expression of miR-129 and miR-142-3p in Pancreatic Cancer Cells. ***Pancreas*** *2010 39 (8) 1331-1331*

14. Fenger JM, Jaworski LN, Ozer HG, Sarver AL, **Subramanian S,** Breen M Modiano JF. Breed-associated differential microRNA expression in canine osteosarcoma. ***J Vet Int Med*** *2011 25 (3) 745-745*

15. MacKenzie TN, Sarver A, Chen Z, Mujumdar N, Banerjee S, Sangwan S, V Dudeja **Subramanian S,** Saluja A. Triptolide Causes Global Changes in the MicroRNAome and Transcriptome of Pancreatic Cancer Cells. ***Pancreas*** *2012 41 (8) 1382-1382*

16. MacKenzie TN, Sangwan V, Mujumdar N, Banerjee S, Dudeja V, **Subramanian S,** Saluja A. MicroRNA-142-3p a novel regulator of heat shock protein 70 modulates triptolide-induced pancreatic cancer cell death. ***Pancreatology*** *2013 12 (6) 589*

17. Dileepan M, Jude JA, Panettieri RA, Walseth TF, **Subramanian S** Kannan MS. MicroRNA regulation of CD38 expression in human airway smooth muscle cells: relevance to inflammatory airway. ***Respirology*** 2013 18 (1) 9-29

*18.* Dickson EL Thayanithy V Vogel R Argenta PA Geller M **Subramanian S** Lou E.

Tunneling nanotubes and intercellular communication: a novel approach to chemo-resistance in ovarian cancer. ***J Am Colle Surg*** *2013 217 (3) S72-S72*

19. Khatri R **Subramanian S.** STAT3 upregulates expression of microRNA-135b in colon cancer ***Diseases of the Colon & Rectum*** 57 (5) e298-e299

20. Dickson EL Li L Leung S Chow C Vogel RI Huntsman D Gilks CB **Subramanian S.** FBxW7 duality in ovarian cancer: Novel insight into ovarian cancer pathogenesis. ***Clin Cancer Res*** 2013 19 A17-A17

21. Dickson EL Thayanithy V Vogel RL Argenta P Geller V **Subramanian S** Lou E. Tunneling nanotubes and intercellular communication: Differences between platinum-resistant and platinum-sensitive ovarian cancer. ***J Clin Oncol*** 2013 31 (15)

22. Lou E Babatunde V Fujisawa S Barlas A Moreira AL Thayanithy V **Subramanian S** Downey R Manova-Todorova K Moore M. Tunneling Nanotubes: a new approach to studying intercellular communication in aggressive solid tumor malignancies. ***Cancer Res*** 2013 73 (8)

23. Hajeri PB Lui WO S **Subramanian S**. Novel human specific lncRNA SZP1 regulates components of polycomb repressor complex in pancreatic cancer. ***Pancreas*** 2014 43 (8) 1362-1362

24. Scott MC Sarver AL Phan F Gupta R Thayanithy V Subramanian S Modiano J. RB function as a central component of osteosarcoma behavior: A comparative assessment in dogs and humans. ***Mol Cancer Res*** 2014 12 (11 Supplement) B19-B19

25. Snider D **Subramanian S** Steer C Lou E Tunneling nanotube formation is significantly upregulated in invasive cancer cells. ***Cancer Research*** 2015 75 (15 Supplement) 3189-3189

26. Dixit A Dawra R Barlass U Sareen A Yuan Z Sarver A **Subramanian S** Saluja A. microRNAs Profiles of Mouse Acinar Cells and Its Implications in Acute Pancreatitis. ***Gastroenterology*** 2015148 (4) S-928

27. Dixit AK George J Barlass U Yuan Z Sareen A Dudeja V Dawra R **Subramanian S** Saluja AK (2015) Role of miR-21-3p in Promoting Inflammation During Acute Pancreatitis. ***Pancreas*** 44 (8) 1370-1370

28. AL Sarver, L Mills, N Temiz, MI Scott, A Sarver, L Spector, J Wang, Breen M, **Subramanian S,** Moriarity B, Modiano J, Largaespada D. Comparative genomic analyses of osteosarcoma etiology reveal a chromosomal structural rationale for the increased incidence of osteosarcoma in dogs. ***Cancer Research*** 2018 78 (13 Supplement), 3399-3399

29. **Subramanian S,** Zhao X and Yaun C. Tumor exosome-mediated immune regulation in colorectal cancer. ***J Immunol*** May 1, 2019, 202 (1 Supplement) 194.15

30. Lou E, Turbyville T, Simanshu D, Yang R, Columbus J, Stephens B, Sciacca D, Sarver A, Subramanian S, Nissley D, Nelson A. A novel RAS internal tandem duplication involving the switch II domain disrupts GAP binding and activates oncogenic signaling. ***Journal of Clinical Oncology*** 2019 37 (15_suppl), e15069-e15069

31. **Subramanian S,** Steer CJ MicroRNA regulation in health and disease ***Genes*** 2019 10 (6), 457

32. Thyagarajan B, Cassidy E, Nguyen V, Shanley R, Barcelo, Muldoon HD, Verneris MR, **Subramanian S,** Mukta Arora M. Decrease in T-Lymphocyte Mitochondrial DNA Copy Number Is Associated with Acute Graft Versus Host Disease. **Biology of Blood and Marrow Transplantation** 26 (3), S176-S177

## PLATFORM PRESENTATIONS AND POSTERS IN CONFERENCES AND MEETINGS

148. Gates TJ, Yuan C, Shetty M, Kaiser T, Starr TK, Staley C, **Subramanian S** (2022) Longitudinal microbiome signatures in AOM/DSS-driven colorectal cancer. Microbiome and Cancer Symposium, University of Minnesota, Minneapolis, USA

147. LaRocca C, Wilber S, Jensen E, **Subramanian S**, Steer S, Davydova J (2022) Determining the optimal fiber and promoter structures for oncolytic adenovirus therapy of metastatic colorectal cancer. Department of Surgery Research Day, University of Minnesota Minneapolis, USA

146. Wangmo D, Gates TJ, Zhao X, Yuan C, Aden A, Kollipara S, **Subramanian S** (2022) Role of tumor-cell intrinsic factors in colorectal cancer progression and Immune landscaping. Department of Surgery Research Day, University of Minnesota Minneapolis, USA

145. Hajeri PB, Temiz N, **Subramanian S** and Yamamoto M (2022) A novel next-generation sequencing library preparation method to sequence small, long, and low-quality (fragmented/ degraded) RNA with picograms quantity of template for better diagnostics, biomarker discovery, and research. Department of Surgery Research Day, University of Minnesota Minneapolis, USA

144. Guilliams K, Gates TJ, Zhao X, Wangmo D, **Subramanian S** (2022) Tumor extracellular vesicles taken by dendritic cells modulate immune responses. Department of Surgery Research Day. University of Minnesota, Minneapolis, USA

143. Gates TJ, Yuan C, Zhao X, Wangmo D, Starr TK, Staley C, **Subramanian S** (2022) Multiomics microbiota-metabolites-immune cell investigation of the colorectal cancer microenvironment. Department of Surgery Research Day, University of Minnesota, Minneapolis, USA

142. Gates TJ, Yuan C, Shetty M, Kaiser T, Starr TK, Staley C, **Subramanian S** (2022) Fecal microbiota restoration modulates longitudinal microbiome signatures in inflammation-driven Colorectal Cancer. Department of Surgery Research Week, University of Minnesota Minneapolis, USA

141. Wangmo D, Zhao X, Sun R, **Subramanian S.** (2022) Role of CEP55 in antitumor immune regulation in colorectal cancer. Masonic Cancer Center symposium, University of Minnesota Minneapolis, USA

140. Gates, T, Yuan C, Staley C, Starr, T, **Subramanian S.** (2022) Host-microbiota-metabolic interactions in colorectal cancer. Masonic Cancer Center symposium, University of Minnesota Minneapolis, USA

139. Wangmo D, Zhao X, Sun R, **Subramanian S.** (2022) The role of tumor-cell intrinsic factors in colorectal cancer immune evasion. American Association of Cancer Research Annual Meeting. New Orleans, USA

138. Yuan C, Gates T, Staley C, Starr T, **Subramanian S.** (2021) Generational microbiome stability through the breeding of humanized mice. Cancer and microbiome symposium, University of Minnesota Minneapolis, USA

137. Gates, T, Yuan C, Staley C, Starr, T, **Subramanian S.** (2021) Immunosuppressive microbial metabolites in colorectal cancer. Cancer and microbiome symposium, University of Minnesota Minneapolis, USA

136. Gates, T, Yuan C, Staley C, Starr, T, **Subramanian S.** (2021) Role of Microbial metabolites in macrophage polarization. Cancer and microbiome symposium, University of Minnesota Minneapolis, USA (Platform presentation)

135. Kollipara S, Wangmo D, Gates T, Zhao X, Burkule B, Yuan C, **Subramanian S.** (2021) Characterization of Colorectal cancer organoids. University of Minnesota Minneapolis, USA

134. Lou E, Nelson A, Pandey R, Salem M, Fontana E, Tobias A, Sun W, **Subramanian S** (2021) Increased neutrophil infiltration and lower prevalence of tumor mutation burden, and microsatellite instability are hallmarks of RAS mutant colorectal cancers. American Society of Clinical Oncology Annual meeting.

133. Makielski KM, Donnelly AJ, Khammanivong A, Scott MC, Ortiz AR, Galvan DC, Tomiyasu H, Kisseberth WC, O'Brien TD, Spector LG, Bryan BA, **Subramanian S,** Modiano JF. (2021) Development of an exosomal biomarker signature to detect minimal residual disease in dogs with osteosarcoma using a novel xenograft platform and machine learning. American Association of Cancer Research Annual meeting.

132. **Subramanian S,** Zhao X, and Yaun C. (2019) Tumor exosome-mediated immune regulation in colorectal cancer. Annual meeting, American Association for Immunologists. San Diego, USA

131. Sarver AL, **Subramanian S,** Spector L, Modiano J, Largaespada DA, Sarver A. (2019) miRNA components of mRNA transcriptional patterns discovered using Dimensional reduction analyses of osteosarcoma tumor RNA-seq data. Connective Tissue Oncology Society annual meeting, Tokyo, Japan

130. Thyagarajan B, Cassidy E, Nguyen V, Shanley R, Barcelo H, Muldoon D, Verneris MR, **Subramanian S,** Arora M (2019) Decrease in T-lymphocyte mitochondrial DNA copy number is associated with acute graft versus host disease. Bone marrow transplant, Tandem Meeting, Orlando FL

129. Wilcock P, Yuan A, **Subramanian S**. (2019) Immune checkpoint gene expression in colorectal cancer. Department of Surgery Research Day, University of Minnesota Minneapolis, USA

128. Yuan A, Staley C, **Subramanian S**. (2019) Mucosal microbiota and metabolome along the intestinal tracts reveals location-specific relationship. Department of Surgery Research Day University of Minnesota Minneapolis, USA

127. Wangmo D, Zhao X, Yuan A, **Subramanian S**. (2019) Regulation of colon cancer immune response by ACKR4. Department of Surgery Research Day, University of Minnesota, Minneapolis USA

126. Zhao X, Li L, Yuan A, Wangmo D, **Subramanian S**. (2019) Suppression of exosomal miR-424 indices antitumor immune response in colorectal cancer. Department of Surgery Research Day University of Minnesota, Minneapolis, USA (best poster award)

125. Yuan C, Burns M, Blekhman R, **Subramanian S**. (2018) Gut microbiome and microRNA interactions in colorectal cancer. Department of Surgery Research Day University of Minnesota, Minneapolis, USA (best poster award)

124. Sarver AL, Mills L, Temiz N Scott M Sarver A, Spector L, Wang J, Breen M **Subramanian S** Moriarity B Modiano J Largaespada D (2018) Comparative genomic analyses of osteosarcoma etiology reveal a chromosomal structural rationale for the increased incidence of osteosarcoma in dogs American Association for Cancer Research Annual meeting. Chicago, USA

123. Mills LJ, Deshpande A, Auch B, Bekman K, Curtin B, Varshney V, Sarver AL, Scott M, Modiano J, **Subramanian S** (2017) Genome-wide methylation and gene expression patterns in human and canine osteosarcoma. Connective Tissue Oncology Society meeting Maui, USA

122. Sarver AL, Temiz N, Moriarity M, Wang J, **Subramanian S,** Modiano J, Largaespada D (2017) Utilizing sleeping beauty transposon mouse screens to identify naturally occurring driver events in human and canine osteosarcoma. Connective Tissue Oncology Society meeting, Maui, USA (Platform presentation)

121. Li L, Zhao X, Yuan C, **Subramanian S**. Modified extracellular vesicles improve host immune response in colorectal cancer (2017) National Institutes of Health Exosome research consortium, Rockville, USA Platform presentation.

120. Audre M, Xianda Z, Li L, **Subramanian S**. MicroRNA miR-552 regulation of ACKR4/CCR7 dependent dendritic cell chemotaxis in colorectal cancer (2017) Annual Biomedical Research Conference, Phoenix, USA

119. Li L, Zhao X, Yuan C, **Subramanian S** (2017) Modified extracellular vesicles improves host immune response in colorectal cancer. Extracellular RNA Communication Consortium Washington DC. USA

118. Curtin B, Kartha RV, Sarver A, Eckert A, Cloyd JC, Patterson EE, **Subramanian S** (2017) Circulating microRNAs as potential biomarkers for epilepsy. 6th London-Innsbruck Colloquium on Status Epilepticus and Acute Seizures, Salzburg, Austria

117. Xianda Z, Li L, Audre M, **Subramanian S**. (2017) A novel role of ACKR4 in regulating colorectal cancer immunity. Cancer Immunology and Immunotherapy meeting National Institutes of Health, Bethesda, USA

116. Xianda Z, Li L, Starr T, **Subramanian S**. (2017) Tumor location affects immune response in colon cancer mouse models. Department of Surgery Research Day University of Minnesota, Minneapolis USA

115. Scott MC, Garbe JR, Tomiyasu H, Donnelly A, Bryan BA, **Subramanian S,** JF Modiano (2017) Unbiased discovery of exosome-associated biomarkers using xenograft models. American Association for Cancer Research Annual Meeting (Poster). Washington DC USA

114. Scott MC, Temiz NA, Sarver AE, LaRue RS, Rathe SK, Varshney J, Wolf NK, Moriarity BS, Spector LG, Modiano JF, Largaespada DA, **Subramanian S,** Sarver AL (2017) Immune Cell Transcript Levels Metastatic Progression and Survival in Osteosarcoma: A Comparative Transcriptome Analysis. Advances in Sarcomas: From Basic Science to Clinical Translation, Philadelphia USA (plenary talk)

113. Shah PP, Brockman MJ, Scott MC, Deshpande A, Auch B, Curtin B, Varshney V, Sarver AE, Sarver AL, **Subramanian S,** Beckman K, Modiano JF, Richmond T, (2017) Methylation Pattern Discovery with Streamlined SeqCap Epi Target Enrichment Kit Bisulfite Sequencing Data Analysis Pipeline. Annual Clinical Genetics Meeting, Phoenix, USA

112. Li L, Zhao X, Sarver A, **Subramanian S** (2016) MicroRNAs Secreted via Extracellular Vesicles Regulate Immune Response in Colon Cancer by Targeting the T cell Costimulatory Pathway American Society for Exosome and Microvesicles (ASEMV) Annual meeting Asilomar, USA (platform presentation)

111. Kartha RV, Sarver A, Curtin B Balzekas I, White J, Cloyd JC, Subramanian S, Koh S (2016). Early life seizure alters microRNA expression in the cortex in a two-hit murine model of epileptogenesis. American Epilepsy Society Annual Meeting, Houston, TX

110. Curtin B, Sarver A, Eckert A, Cloyd JC, Patterson E, **Subramanian S,** *Kartha RV* (2016) Circulating MicroRNAs as Potential Biomarkers for Epilepsy. University of Minnesota Clinical and Translational Science Institute Annual Poster Session & Reception (best poster award)

109. Curtin B, Sarver A, **Subramanian S**, Koh S, Kartha RV (2016) MicroRNAs as Potential Biomarkers for Pediatric Epilepsies. University of Minnesota Undergraduate Symposium and Minnesota Academy of Science Winchell Symposium, Minneapolis, MN

108. Zhao X, Li L, Sarver A, Starr T, **Subramanian S** (2016) Novel orthotopic models of colon cancer. Department of Surgery Research Day, University of Minnesota, Minneapolis, USA

107. Li L, Zhao X, Sarver A, **Subramanian S** (2016) Colon Cancer derived exosomes precondition host immune response. Department of Surgery Research Day University of Minnesota, Minneapolis, USA

106. Scott M, Bryan B, Tomiyasu H, Amaya C, **Subramanian S** and Modiano J (2016) Characterization of RNA in osteosarcoma-derived exosomes. Keystone Symposium (Exosomes/Microvesicles: Novel Mechanisms of Cell-Cell Communication. Keystone, USA

105. Varshney J, Slipek J, Osborne J, Sarver A, Cornax I, Sullivan G, **Subramanian S**, Largaespada D (2016) The miR-17-92 microRNA cluster plays a crucial role in osteosarcoma progression. American Association for Cancer Research Annual Meeting San Diego USA (Poster). New Orleans, USA

104. Sarver A, Sarver A, **Subramanian S** (2016). Immune scoring in cancers using TCGA datasets. Minnesota Supercomputing Institute Research conference, Minneapolis, USA

103. Xianda X, Li L, Maile M, Sarver A, Starr T, and **Subramanian S** (2016) Establishment and characterization of a novel orthotopic colorectal cancer model. 2nd Midwest Tumor Microenvironment conference, Minneapolis USA

102. Nair A, **Subramanian S,** Krishna K (2016) Differential frequency of microRNA binding sites in triple-negative breast cancers. 8th annual symposium for the BICB program. University of Minnesota, Rochester, USA (Best poster award)

101. Sarver A, Sarver A, **Subramanian S** (2015) Identification of immunosuppressive networks in colon cancer. AACR Noncoding RNAs and cancer meeting. Boston USA

102. Dixit AK, George J Barlass U, Yuan Z, Sareen A, Dudeja V, Dawra R, **Subramanian S** Saluja AK (2015) Role of miR-21-3p in Promoting Inflammation During Acute Pancreatitis. American Pancreatic association annual meeting, San Diego, USA

100. Li L, Sarver A, **Subramanian S** (2015). Colon cancer cell secreted microRNAs regulation of CD28 in T cell. Frontiers in Basic Immunology National Institutes of Health, Bethesda USA

99. Thayanithy V, **Subramanian S,** Steer CJ, Lou E (2015) Intercellular transfer of oncogenic microRNA via tunneling nanotubes increase malignant potential in stromal cells. Robert Hebbel Medicine Research Day, University of Minnesota, Minneapolis, USA

98. Scott MC, Tomiyasu H, LaRue RS, Garbe JR, Sarver AL, Rathe SK, Temiz AN, Sarver AE, Spector LG, **Subramanian S,** Largaespada DA, Modiano JF (2015). Subtypes of

osteosarcoma with different biological behavior drive distinct interactions with the stromal environment in xenograft hosts. Connective Tissue Oncology Society Meeting, Salt Lake City, USA

97. Dixit A, Dawra R, Barlass U, Sareen A, Yuan Z, Sarver A, **Subramanian S,** Saluja A (2015) MicroRNAs profiles of mouse acinar cells and its implications in acute pancreatitis. Digestive Disease Week, Washington DC. USA

96. Tomiyasu H, Scott MC, Sarver AL, Cornax I, Li L, **Subramanian S,** Modiano JF (2015). A comparative model to study biological behavior of osteosarcoma in vivo. Connective Tissue Oncology Society Meeting, Salt Lake City, USA

95. Nair A, Niu N, Kocher JP, Wang L, **Subramanian S,** Kalari K (2015) Novel circular RNA identified in breast tumors and validated in cancer cell lines. Center for Individualized Medicine Conference, Mayo Clinic Rochester, USA.

94. Naqvi R, Suarez-Pinzon W, Singh A, Burlak C, Li L, **Subramanian S,** Graham M, Hering B (2015) Plasma microRNA-375 – A single test to quantitate injury to porcine islet grafts and to diagnose accelerated porcine islet graft loss in nonhuman primates? The International Pancreas and Islet Transplant Association Melbourne Australia (oral presentation).

93. Li L, Sarver A, Hajeri P, and **Subramanian S** (2015) Exosome delivered miRNAs fosters immune privilege in colon cancer. Department of Surgery Research Day University of Minnesota Minneapolis, USA

92. Sarver AE, Sarver AL, Thayanithy V, **Subramanian S**. (2015) Systematic RNA sequencing identifies novel biomarkers and therapeutic targets in human sarcomas. Department of Surgery Research Day University of Minnesota Minneapolis, USA

91. Varshney J, Slipek N, Osborne J, Largaespada DA, **Subramanian S** (2015) Role of miR-135b is crucial in osteosarcoma maintenance and progression. Department of Surgery Research Day University of Minnesota Minneapolis, USA

90. Snider D, **Subramanian S,** Steer C, Lou E (2015) Tunneling nanotube formation is significantly upregulated in invasive cancer cells. American Association for Cancer Research Annual Meeting San Diego USA (Poster). Philadelphia, USA

89. Sarver AE, Sarver AL, Thayanithy V, **Subramanian S**. (2015) Identification of novel candidate biomarkers and therapeutic targets in human sarcomas by systematic RNA sequencing. Minnesota Supercomputing Science Institute Research Symposium. Minneapolis, USA

88. Tomiyasu H, Scott MC, Li L, Lewellen M, Ito D, Van Etten J, **Subramanian S,** Modiano JF (2014) The effects of chromatin modifying drugs on canine osteosarcoma cell lines. Masonic Cancer Center Research Symposium, Minneapolis USA

87. Varshney J, Thayanithy V, Moriarity B, Largaespada D, Modiano J, Saluja A, and **Subramanian S** (2014) cMYC transactivated miR-17-92 cluster plays a crucial role in

osteosarcoma progression. Mechanisms and Models of Cancer Cold Spring Harbor Laboratory Meetings, Cold Spring Harbor USA (poster)

86. Sarver A, Sarver L, Thayanithy V, **Subramanian S** (2014) Systematic RNA-SEQ based identification of Sarcoma Biomarkers and their miRNA regulatory circuits. 2nd Annual BICB Industry Symposium Precision Agriculture and Medicine: From Data to Knowledge Minneapolis, USA (poster)

85. Lihua Li, Sarver A, Khatri R, Hajeri P, Thibodeau S, Steer C, and **Subramanian S** (2014) Sequential Expression of miR-182 and miR-503 cooperatively targets FBXW7 contributing to the malignant transformation of colon adenoma to adenocarcinoma. Department of Surgery Research Day, University of Minnesota Minneapolis, USA (First prize poster presentation)

84. Varshney J, Thayanithy V, and **Subramanian S** (2014) miR-17-92 cluster is crucial in osteosarcoma progression. Department of Surgery Research Day, University of Minnesota, Minneapolis USA

83. Praveensingh Hajeri and **Subramanian S** (2014) A Novel Human Specific lncRNA SZP1 Regulates components of polycomb repressor complex in pancreatic cancer. Department of Surgery Research Day, University of Minnesota Minneapolis USA

82. Anne Sarver, Li L, and **Subramanian S** (2014) Role of microRNAs in the HIF1-alpha hypoxic response in colon cancer. Department of Surgery Research Day University of Minnesota, Minneapolis, USA

81. Khatri R and **Subramanian S.** Transcription factor STAT3 drives the expression of microRNA-135b in colon cancer cells (2014). Department of Surgery Research Day University of Minnesota, Minneapolis, USA (Platform presentation)

80. Hajeri P, Weng-Onn Lui, WO and **Subramanian S** (2014). A novel human specific lncRNA regulates PRC2 in pancreatic cancer. American Pancreatic Association. Hawaii, USA. (Poster).

79. Khatri R and **Subramanian S**. Regulation of miR-135b by STAT3 in colon cancer (2014) Minnesota Surgical Society, Minneapolis, USA

78. Nair A, Thompson J.K, Tang X, Kocher J, **Subramanian S,** Kalari RK (2014) Identification of circular RNAs (circRNAs) and their potential regulation in breast cancer subtypes. 22nd Annual International Conference on Intelligent Systems for Molecular Biology, Boston USA

77. Kannan MS, Dileepan M, Jude JA, Walseth TA, Panettieri RA, and **Subramanian S** (2014) Regulation of pro-inflammatory genes by miR-708 in airway smooth muscle. ERS annual meeting, Munich, Germany

76. Li L, Sarver A, Khatri R, Hajeri P, Kamenev I, Thibodeau S, Steer C **Subramanian S** (2014) MicroRNAs miR-503 and -182 regulate FBXW7 contributing to the malignant

transformation to colon adenocarcinoma. American Association for Cancer Research Annual Meeting, San Diego, USA (Poster)

75. Thayanithy V, Dickson EL, **Subramanian S,** Steer C, Lou E. (2014) Long-distance intercellular transport of microRNAs via tunneling nanotubes: role in tumor-stroma interactions and increasing malignant potential. American Association for Cancer Research Annual Meeting, San Diego, USA (Poster)

74. Varshney J, Thayanithy V, Sarver A, Saluja A, Largaespada D, Modiano J and **Subramanian S** (2013) cMYC transactivated miR-17-92 targets contributes to osteosarcoma progression. Point of Pride Research Day College of Veterinary Medicine St Paul, USA. The poster won the first prize.

73. Scott MC, Sarver AL, Phan F, Gupta R, Thayanithy V, **Subramanian S,** Modiano JF (2013) RB function as a central Component of osteosarcoma behavior: a comparative assessment in dogs and humans. American Association for Cancer Research The Translational Impact of Model Organisms in Cancer, San Diego USA

72. Varshney J, Thayanithy V, Sarver A, Moriarity B, Banerjee S, Scott M, Li L, Saluja A, Largaespada D, Modiano J, and **Subramanian S** (2013) MiR-17-92 microRNAs targets tumor suppressor driver genes and contributes to osteosarcoma progression. Masonic Cancer Center Research Symposium, Minneapolis, USA

71. Li L, Saluja A, **Subramanian S**. Triptolide treatment inhibits the expression of oncogenic miR-503 in colon cancer. Masonic Cancer Center Research Symposium Minneapolis USA

70. Dickson EL, Thayanithy V Vogel R, Argenta P, Geller MA, **Subramanian S,** Lou E (2013) Tunneling nanotubes: A novel conduit for chemoresistance in ovarian cancer. Society of Gynecologic Oncology Annual Meeting on Women's cancer Tampa USA

69. Dickson E, Li L, Leung S, Chow C, Vogel R, Huntsman H, Gilks B, **Subramanian S** (2013) FBXW7 duality in ovarian cancer: Novel insight into ovarian cancer pathogenesis. Advances in Ovarian Cancer Research: From Concept to Clinic. Miami USA

68. Varshney J, Thayanithy V, Sarver A, Moriarity B, Banerjee S, Scott M, Li L, Saluja A, Largaespada D, Modiano J, and **Subramanian S** (2013) cMYC transactivated miR-17-92 cluster plays a crucial role in osteosarcoma progression by targeting tumor suppressor driver genes. International Conference on Advances in Canine and Feline Genomics and Inherited Diseases. Cambridge, USA (Platform presentation)

67. Scott M, Sarver A, **Subramanian S,** Modiano J (2013) Inactivation of the RB tumor suppressor protein is causally related to highly aggressive phenotype osteosarcoma. International Conference on Advances in Canine and Feline Genomics and Inherited Diseases. Cambridge, USA

66. Dickson EL, Li L, Gilks B, Huntsman D, **Subramanian S** (2013) FBXW7 as a predictor of outcomes in ovarian cancer. American College of Surgeons Annual meeting. USA (Platform presentation) Washington DC. USA

65. Li L, Sarver A, Hajeri P, Thibodeau S, Steer C, **Subramanian S.** miR-503 and -182 cooperatively regulate FBXW7 and contribute to the malignant transformation of colon adenoma (2013). Department of Surgery Research Day University of Minnesota, Minneapolis, USA

64. Hajeri P and **Subramanian S** (2013) A novel pseudogene SUZ12P1 regulates its functional counterpart SUZ12 and promotes cell proliferation in the colon and pancreatic cancer. Department of Surgery Research Day University of Minnesota, Minneapolis, USA

63. Varshney J and **Subramanian S** (2013) cMYC transactivated miR-17-92 cluster plays a crucial role in osteosarcoma progression. Department of Surgery Research Day University of Minnesota, Minneapolis, USA

62. Lou E, Babatunde V, Sho S, Barlas A, Moreira AL , Thayanithy V, **Subramanian S,** Downey R, Manova-Todorova K, Moore M (2013) Tunneling Nanotubes: a new approach to studying intercellular communication in aggressive solid tumor malignancies. American Association for Cancer Research Annual Meeting, Washington DC, USA

61. Dickson EL, Thayanithy T, Vogel R, Argenta P, Geller M, **Subramanian S,** Lou E (2013) Tunneling nanotubes and intercellular communication: Differences between platinum-resistant and platinum-sensitive ovarian cancer. American Society for Clinical Oncology Annual Meeting, Chicago, USA.

60. MacKenzie TN, Sangwan V, Majumdar N, Dudeja V, Subramanian S Vickers S, Saluja AK (2012) MicroRNA-142-3p a novel regulator of heat shock protein 70 modulates triptolide-induced pancreatic cancer cell death Pancreatology 12: 6 589 European Pancreatic Club Prague, Checz Republic

59. Thayanithy V and **Subramanian S** (2012) Gene network in osteosarcoma Annual Research Day, Department of Surgery, University of Minnesota, Minneapolis, USA.

58. Shu J and **Subramanian S** (2012) Loss-of-imprinting at the 14q32 locus correlates with early-onset of osteosarcoma Annual Research Day Department of Surgery University of Minnesota, Minneapolis, USA

57. Li L and **Subramanian S.** (2012) MicroRNA mediated gene regulation in colon adenomas 6th Annual Research Day Department of Surgery University of Minnesota, Minneapolis, USA

56. Li L, Sarver A, Hajeri P, Thibodeau S, Steer CJ, **Subramanian S.** (2012) MicroRNA-driver gene deregulations trigger malignant transformation in colon adenomas. Masonic Cancer Center Research Symposium, Minneapolis, USA

55. Scott MC, Sarver A, Thayanithy V, **Subramanian S,** Modiano J. (2012) Loss of RB function is a determinant of a prognostically significant gene expression signature in osteosarcoma. Masonic Cancer Center Research Symposium, Minneapolis, USA

54. Fenger JM, Volinia S, Jalkanen S, Ozer GH, Sarver A, **Subramanian S,** Breen M, Modiano J, London C, Kisseberth W (2012) Breed-associated differential miRNA expression in canine osteosarcoma. American Association for Cancer Research Annual Meeting, Chicago, USA

53. Li L, Alamgir S, Sarver A, **Subramanian S.** (2012) MicroRNA gene regulatory networks in rhabdomyosarcoma. Second Symposium on Translational Genomics. NCI NIH, Maryland USA

52. Thyanithy V, Sarver A, Kartha R, Park C, Scott M, Steer C Modiano J, **Subramanian S**. (2012) Perturbation of 14q32 miRNAs-cMYC gene network in osteosarcoma. Keystone Symposia Gene Silencing by Small RNAs Vancouver Canada

51. Harindhanavudhi T, Mauer M, Kim Y, **Subramanian S,** and Caramori LM (2012) Differences in microRNA (miRNA) Expression Levels in Cultured Skin Fibroblasts (SF) of Monozygotic Twins Discordant for Type 1 Diabetes (T1D). American Diabetes Association Annual Meeting, Philadelphia, USA

50. Shu J, Li L, Moriarity B, Thayanithy V, Spector L, Largaespada D, Steer CJ, and **Subramanian S** (2012). Loss of imprinting at the 14q32 locus contributes to osteosarcoma. American Association for Cancer Research Annual Meeting, Chicago, USA

49. Dileepan M, Jude J, Kannan M, Panettieri R, **Subramanian S,** Walseth T (2011) Role of microRNA-140 in TNF-Alpha-induced CD38 expression in human airway smooth muscle (HASM) cells American Thoracic Society International Conference. Denver, USA

48. Thayanithy V, Sarver AL, Kartha RV, Park C, Scott M, Angstadt AY, Breen M, Steer CJ, Modiano JF, and **Subramanian S** (2011) Perturbation in the 14q32 miRNAs-cMYC-miR-17~92 gene network contributes to osteosarcoma and is associated with survival outcome. Department of Surgery Research Day, University of Minnesota, Minneapolis, USA (Received best poster award first place)

47. Thayanithy V, Li L, Sarver AL, and **Subramanian S** (2011) cMYC and RUNX2 modulates the expression of oncogenic microRNAs. Department of Surgery Research Day, University of Minnesota, Minneapolis, USA

46. Li L, Sarver AL, Alamgir S, and **Subramanian S** (2011) Downregulation of microRNAs miR-1/-206 stabilizes PAX3 expression in rhabdomyosarcoma. Department of Surgery Research Day, University of Minnesota, Minneapolis, USA

45. Li L, Sarver AL, and **Subramanian S** (2011) miR-183 functions as an oncogene targeting EGR1 in colon cancer. Department of Surgery Research Day University of Minnesota, Minneapolis, USA

44. Kartha RV, **Subramanian S,** Cheung B, Schroeder H (2011) Low Concentrations of Aspirin Activate Cytoprotective Signaling Pathway Genes in Human Endothelial Cells: A Gene Expression Profiling Study. American Heart Association Basic Cardiovascular Sciences, New Orleans, USA (poster)

43. Jude JA, Dileepan M, **Subramanian S,** Panettieri RA, Walseth TF Kannan M.S Role of microRNA 140 in TNF-Alpha-induced CD38 expression in human airway smooth muscle (HASM) cells. Am J Respir Crit Care Med 183; 2011: A3535

42. Moriarity BS, Sarver AL, **Subramanian S,** Khanna C, Hewitt S, and Largaespada DA (2011) An Unbiased Screen for Osteosarcoma Initiation Progression and Metastasis Genes. Conference on Genome Engineering, Singapore (Platform presentation)

41. MacKenzie TN, Mujumdar N, Banerjee S, Sarver A, Sangwan V, **Subramanian S,** Vickers S, Saluja A (2011) Triptolide-induced expression of microRNA-142-3p mediates apoptosis of pancreatic cancer by inhibition of HSP70. Experimental Biology annual meeting Washington DC, USA (poster)

40. Shu J, Salvatore K, Thayanithy V, Xia Z, Steer CJ, and **Subramanian S** (2011) Loss-of-imprinting at 14q32 locus in osteosarcoma. Gordon Research Conference Cancer Genetics & Epigenetics Ventura, CA USA (poster)

39. **Subramanian S** (2011) MicroRNA gene regulatory networks in sarcomas Molecular Tri-Conference, San Francisco, USA

38. **Subramanian S** (2010) MicroRNA gene networks in the transformation of polyp to colon cancer. Annual Meeting of Indian Society of Gastroenterology, Hyderabad, India

37. **Subramanian S** (2010) MicroRNAs in childhood bone sarcoma Leiden University, Leiden, The Netherlands.

36. **Subramanian S** (2010) MicroRNAs in the pathogenesis of human sarcomas. Institut Curie Paris France (Platform presentation)

35. Thyanithy V, Sarver A, Kartha R, Park CW, Scott MC, Angstadt A, Breen M, Steer CJ Modiano J, and **Subramanian S** (2010) MicroRNA gene network contributes to osteosarcoma and is associated with survival outcome. Connective Tissue Oncology Society meeting, Paris France (Platform presentation)

34. Li L, Sarver AL, Thayanithy V, Ognjanovic S and **Subramanian S** (2010) MicroRNA gene regulatory networks in rhabdomyosarcoma. Connective Tissue Oncology Society meeting Paris, France (Platform presentation)

33. Shu J, Kren BT, Zeng Y, Wong PY, Li L, **Subramanian S,** and Steer CJ (2010) Genome-wide microRNA downregulation is a negative feedback mechanism in the early phases of liver regeneration. FASEB summer meeting Snowmass village, Colorado, USA (poster)

32. **Subramanian S** MicroRNA regulatory networks in osteosarcoma. (2010) Childhood Bone Tumor Genomics Consortium meeting Washington DC USA (Platform presentation)

31. MacKenzie TN, Mujumdar N, Thayanithy V, Sarver A, Chugh R, **Subramanian S,** Sangwan V, Vickers S, and Saluja A (2010) Triptolide Induces Expression of miR-129* and miR-142-

3p in Pancreatic Cancer Cells. American Pancreatic Association Annual meeting Chicago Illinois USA (Platform presentation)

30. Beckman JD, Nguyen J, Thayanithy V, **Subramanian S,** Steer CJ, and Vercellotti GM. Regulation of Heme-Oxygenase-1 protein expression via expression of microRNAs miR-377 and miR-217 (2010). American Society for Clinical Investigation Chicago Illinois USA (Poster)

29. Young AC, Thomas R, Tsai P, Kisseberth W, **Subramanian S,** Modiano FM, and Breen M Heritable and breed specific genetic abnormalities in canine osteosarcoma. (2009) 5th International Canine Cancer Conference, Orlando, USA (Platform presentation)

28. **Subramanian S** MicroRNA expression signatures in rhabdomyosarcoma. (2009) The Emerging Role of MicroRNAs in Skeletal Muscle Biology Experimental Biology Annual Meeting, New Orleans, Louisiana, USA (Platform presentation)

27. Kartha RV **Subramanian S** Troxell ML Higgins JP and Kambham N. Gene expression profiling of Diabetic nephropathy using paraffin-embedded nephrectomy samples. (2008) United States and Canadian Academy of Pathology annual meeting Vancouver, Canada (Platform presentation)

26. Poulin NM, Clemons HJ, **Subramanian S,** van de Rijn M, Cheng H, Nielsen TO. (2007) The gene expression profile of myxoid liposarcoma highlights apidogenic and angiogenic signatures. CTOS, Seattle, USA (Platform presentation)

25. Lee C, Espinosa I, Vrijaldenhoven S, **Subramanian S,** Montgomery KD, Zhu S, Marinelli RJ, Peterse JL, Poulin N, Nielsen TO, West RB, Gilks BC, van de Rijn M. (2007) Prognostic significance of macrophage infiltration in leiomyosarcomas CTOS, Seattle, USA (Poster)

24. **Subramanian S,** Lee Ch, Espinosa I, Neilsen TO, Rubin BP, van de Rijn M. (2007) miRNA signature for sarcomas characterized by chromosomal translocations. Connective Tissue Oncology Society CTOS Annual Meeting, Seattle, USA (Poster; Best poster award)

23. **Subramanian S,** Lui WO, Fire A, and van de Rijn M. MicroRNA expression signature of human soft tissue tumors GIST LMS and SS. (2007) 98$^{th}$ Annual meeting of American Association of Cancer Research AACR, Washington DC USA (Poster)

22. **Subramanian S,** West RB, Nielsen TO, Rubin BP, Downs-Kelly E, Goldblum JR, Zhu S, Montgomery K, Hogendoorn PCW, Corless CL, Oliveira AM. Fletcher CDM and van de Rijn M. Genome-wide transcriptome analysis of nerve sheath tumors. (2006) 97$^{th}$ Annual meeting of American Association of Cancer Research AACR, Washington DC USA (Poster)

21. Cupp JS, Rubin BP, Miller MA, **Subramanian S,** Montgomery K, Marinelli RJ, De Luca A, Nielsen TO, O'Connell JX, Huntsman DM, van de Rijn M, Gilks CB, West RB. Translocation and Expression of CSF1 in Pigmented Villonodular Synovitis Tenosynovial Giant Cell Tumors and Reactive Synovial Lesions. (2006) United States and Canadian Academy of Pathology annual meeting, Atlanta, USA (Poster)

20. West RB, Horlings H, Nuyten DSA, **Subramanian S,** Zhu SX, Miller M, Rubin BP, Nielsen TO, Gilks CB, Huntsman DG, Tibshirani R, van de Vijver M, van de Rijn M. CSF1 expression signature identifies a subset of breast carcinomas and influences outcome. (2005) 28th San Antonio breast cancer symposium. San Antonio, Texas, USA. (Poster)

19. **Subramanian S,** West RB, Zhu S, Nielsen TO, Dry SM, Goldblum JR, Patel RM, Rubin BP, Brown PO, van de Rijn M (2004) Extraskeletal Myxoid Chondrosarcoma: Gene Discovery Using cDNA Microarrays. United States and Canadian Academy of Pathology annual meeting Vancouver, Canada. (Platform presentation)

18. West RB, Corless C, Heinrich M, Zhu S, **Subramanian S,** Nielsen TO, Goldblum JR, Patel R, Rubin BP, Brown P, van de Rijn M (2004) PDGFRa RNA Expression in Neoplasia. United States and Canadian Academy of Pathology annual meeting Vancouver, Canada. (Platform presentation)

17. West RB, Rubin BP, Miller M **Subramanian S,** Kaygusuz G, Montgomery K, Nielsen TO, De Luca A, Gilks CB, Huntsman D, van de Rijn M. Survey of receptor tyrosine kinase expression in soft tissue tumors uncovers an activating CSF1 translocation in tenosynovial giant cell tumors and pigmented villonodular synovitis (2005) 10th annual Connective Tissue Oncology Society annual meeting, Boca Raton Florida, USA (Platform presentation)

16. West RB, Nuyten DSA, **Subramanian S,** Corless CL, Rubin BP, Montgomery K, Zhu SX, Nielsen TO, Patel R, Goldblum JR, Brown PO, van de Vijver M van de Rijn M. (2005) Stromal Expression Signatures Predict Outcome in Breast Carcinoma. United States and Canadian Academy of Pathology annual meeting, San Antonio, Texas USA. (Platform presentation)

15. Kalof AN, **Subramanian S,** West RB, Zhu S, Montgomery K, Nielsen TO, Goldblum JR, Patel R, Rubin BP, Van de Rijn M (2005) Novel Gene ANKS1 Expression in Gastrointestinal Stromal Tumors. United States and Canadian Academy of Pathology annual meeting, San Antonio Texas, USA. (Poster)

14. West RB, Kaygusuz G, **Subramanian S,** Corless CL, Rubin BP, Montgomery K, Zhu SX, Nielsen TO, Patel R, Goldblum JR, Brown PO, Heinrich MC, Kuzu I, van de Rijn M. (2005) CSF1R Expression in Soft Tissue Tumors. United States and Canadian Academy of Pathology annual meeting, San Antonio Texas, USA. (Poster)

13. West RB, Corless CL, Heinrich MC, Zhu S, **Subramanian S,** Nielsen TO, Goldblum JR Patel RM, Rubin BP, Brown PO, van de Rijn M. (2004) PDGFRa RNA Expression in Neoplasia. United States and Canadian Academy of Pathology annual meeting Vancouver, Canada. (Platform presentation)

12. Thangaraj K, Gupta NJ, Pavani K, Reddy AG, **Subramanian S,** Deepa SR, Ghosh B Charravarty BN, and Singh L. (2002) Y-chromosome deletion in Azoospermic men in India. The current excitements in biology. Silver jubilee symposium at Centre for Cellular and Molecular Biology, Hyderabad, India (Poster)

11. **Subramanian S,** Mishra RK, and Singh L. (2002) Genome-wide analysis of Bkm sequences (GATA repeats): Predominant association with sex chromosomes and potential role in higher order chromatin organization and function. The current excitements in biology. Silver jubilee symposium at Centre for Cellular and Molecular Biology Uppal Road Hyderabad 500 007 India (Platform presentation)

10. **Subramanian S,** Suresh A, Goel S, Alex JL, UmaPrasad G, Sultana M Shah V, Kumar S and Singh L (2002) Molecular organization of sex chromosomes and a novel sex-linked gene WDR13 specifically expressed in testis. The current excitements in biology. Silver jubilee symposium at Centre for Cellular and Molecular Biology, Hyderabad, India (Poster)

9. **Subramanian S,** Mishra RK, and Singh L. Genome-wide analysis of Bkm sequences (2002) GATA repeats. 10th annual conference of Intelligent Systems for Molecular Biology, ISMB Edmonton, Canada. (Poster)

8. **Subramanian S,** Mishra RK, Madugula VM, George R, Pandit MW, Kumar CS, and L Singh (2002) SSRD: A database for simple sequence repeats. Association for the Promotion of DNA Fingerprinting and other DNA Technologies. ADNAT 6th annual symposium, Hyderabad, India (Platform presentation)

7. Thangaraj K, Gupta NJ, Reddy AG, **Subramanian S,** Rani DS, Joshi M, Chakravarthy BN, and Singh L. (2002) Genetic causes of male infertility in Indian population. 2nd International Symposium on Molecular Medicine, Vadodara, India (Poster)

6. **Subramanian S** and Singh L (2001) Identification and characterization of a novel Y-linked testis-specific transcript from human. Indian society of Cell Biology XXV Annual Conference, Indian Institute of Science, Bangalore, India (Poster)

5. **Subramanian S** and Singh L (2001) Physical mapping and molecular characterization of human Y chromosomal DNA. Indian Society of Human Genetics. XXVI Annual conference Hyderabad, India (Platform presentation)

4. **Subramanian S,** Thangaraj K, Singh BN, Sultana M, and Singh L (2000) Physical and molecular Characterization of pF1: A human Y chromosome DNA. Association for the Promotion of DNA fingerprinting and other DNA technologies, ADNAT 4th convention Chennai, India (Poster)

3. **Subramanian S** and Singh L (1999) High-resolution physical mapping and molecular characterization of a Bkm positive human Y chromosomal fragment. All India Cell Biology conference, Hyderabad, India (Poster)

2. **Subramanian S** and Rangarajan M (1997) Studies on plasmid and protein profiles of *Rhizobium species* of different origins. Proceedings of the National seminar on "Molecular approaches to crop improvement Kottayam India pp 181-186 (Platform presentation)

1. **Subramanian S** and Rangarajan M (1997) Genetic diversity at a molecular level among *Rhizobium spp*. as revealed by Random Amplified Polymorphic DNA. Proceedings of the

National seminar on Molecular approaches to crop improvement Kottayam India pp 187-191 (Platform presentation)

## TEACHING AND MENTORING ACTIVITIES

***Postdoctoral scholars/ Research Associates***

| | |
|---|---|
| Venugopal Thayanithy, Ph.D. | (2008- 2013 Research Associate) |
| Lihua Li, Ph.D | (2008-2017 Research Associate) |
| Jingmin Shu, Ph.D. | (2009-2013 Research Associate) |
| Elizabeth Dickson, MD | (2009 Surgical oncology, NIH T-32 training fellow) |
| Praveensingh Hajeri, Ph.D. | (2010-2015 Postdoctoral fellow) |
| Rohini Khatri, MD | (2012-2013 Surgical oncology research fellow) |
| Anne Sarver, Ph.D. | (2012-2016 Research Associate, NIH T-32 training fellow) |
| Jamie Van Ettan, Ph.D. | (2014-2016 Postdoctoral fellow, NIH T-32 training) |
| Xianda Zhao MD, Ph.D. | (2020-2021 Postdoctoral fellow, MCCRF fellow) |

***Member of Graduate/Ph.D. student's thesis committee***

| | |
|---|---|
| Abaineh D Endalew, MS scholar | (2008 VMED committee member) |
| Joan Beckman MD/Ph.D scholar | (2009 Committee external advisor) |
| Caitlin Conboy M.D Ph.D. scholar | (2009 MICaB committee member) |
| Rasik Palak MS scholar | (2009 Primary advisor) |
| Tiffany Makenzie, Ph.D. scholar | (2010 Pharmacology thesis committee member) |
| Asha Nair, Ph.D. scholar | (2011 BICB Primary advisor) |
| Dayane Alcantara, Ph.D. scholar | (2012 Visiting student researcher Sau Paulo Brazil) |
| Mithily Dileepan, Ph.D. scholar | (2012 VMED Thesis committee member) |
| Yan Yan, Ph.D. scholar | (2013 Pharmacology thesis committee member) |
| Jyotika Varshney, Ph.D. scholar | (2012 VMED Primary advisor) |
| Nidhi Desai MS Scholar | (2016 Pharmacology Primary advisor) |
| Erica Schnettler, Ph.D. scholar | (2016 Pharmacology thesis committee member) |
| Xianda Zhao, Ph.D. scholar | (2016 MICaB Primary advisor) |
| Zahra Masoud, Ph.D. scholar | (2017 Pharmacology thesis committee member) |
| Angelo Yuan Ph.D. Scholar | (2017 BICB Primary advisor) |
| Dechen Wangmo Ph.D. Scholar | (2018 Pharmacology, Primary advisor) |
| Duha Alshareef, MS scholar | (2019 Pharmacology, Primary advisor) |
| William S Morris MS Scholar | (2019 Biology, Primary advisor) |
| Bilva Burkule MS Scholar | (2020 Pharmacology, Primary advisor) |
| Travis Gates, Ph.D. Scholar | (2020, Pharmacology, Primary advisor) |
| Sabrina Arif, Ph.D. Scholar | (2022 MICaB, thesis committee member) |
| Ross Staudt Ph.D. Scholar | (2022 Comprehensive exam, committee member) |
| Chang-Jung Lee Ph.D. Scholar | (2023 MICaB, thesis committee member) |

***Undergraduate research trainees***

| | |
|---|---|
| Lei Li, MS DVM | (2008 Research assistant) |
| James De Valle, BS | (2008 Undergraduate research student) |
| Justin Howard, MD | (2008 Research student) |
| Nick Root, BS | (2009 Research student) |
| Rachael Latchana, BS | (2010 Research assistant) |
| Hena Vadher | (2010 Summer student) |

| | |
|---|---|
| Iris Kamenev, BS | (2010-2013 UROP Undergraduate research student) |
| Kamini Sanjeev, MBBS | (2011-2013 Research trainee) |
| Derek Scherbel, BS | (2012-2013 Honors thesis Directed research student) |
| Eric Eisenberg, BS | (2014 Research student) |
| Samuel Finnerty, BS | (2014-2016 UROP Research student) |
| Xinwen Zhang, BS | (2014 Rotation student) |
| Bridget Curtin, BS | (2015 Research student) |
| John Rieth, MD | (2015 Research trainee) |
| Jonathan Dauber, BS | (2015-2016 Research Assistant and UROP student) |
| Lauren Pincomb, BS | (2015 Rotation student) |
| Joseph Mountain | (2016-2017 Summer student) |
| Shiyao Huang, BS | (2016 Undergraduate research student) |
| Zachariah Tritz, BS | (2016 Summer student) |
| Dechen Wangmo, BS | (2017 Undergraduate research assistant) |
| Audrey McCarthy, BS | (2017 Undergraduate directed research student) |
| Ashraf Shabaneh, BS | (2017 Undergraduate UROP student) |
| Audre May, BS | (2017 NIH LSSURP Summer student) |
| Xioawen Xu, MD | (2017 China merit scholarship) |
| Beminet Kassaye, BS | (2017 NIH CURE research scholar) |
| Pearl Wilcock, BS | (2018 Undergraduate research assistant) |
| Krishna Mishra, BS | (2018 Undergraduate research assistant) |
| Madeline Kehoe, BS | (2018 Undergraduate research assistant) |
| Nile Lui, BS | (2018 NIH LSSURP Summer student) |
| Jessica Faulkner, BS | (2018 Undergraduate research assistant) |
| Jacob Meyers, BS | (2018 Rotating graduate student) |
| Isabella Ramirez, BS | (2019 Summer student) |
| Christian Linares | (2019 NIH LSSURP Summer student) |
| Yanjan Chen, BS | (2020 Rotating graduate student) |
| Saketh Kollipara | (2021 NIH LSSURP Summer student) |
| Katie Guilliams | (2022 NIH LSSURP Summer student) |
| Safiyo Aden | (2022 M-ASEND Summer student) |

**Laboratory Research Scientists**

| | |
|---|---|
| Sitara Alamgir | (Researcher 2) |
| Lisa Basso | (Researcher 5) |

## PROFESSIONAL ACTIVITIES

### Ad Hoc reviewer partial list

*American Journal of Pathology*
*American Journal of Physiology*
*AJP-Heart and Circulatory Physiology*
*Bioinformatics*
*BMC Genomics*
*BMC Cancer*
*BMC Medical Genomics*
*BMC Veterinary Research*
*BioMed Research International*

*British Journal of Cancer*
*British Journal of Medicine and Medical Research*
*Cancers*
*Cancer Genetics Cancer Epidemiology*
*Cancer Informatics*
*Cancer Research*
*Cancer Immunology Research*
*Cell Reports*
*Cancer Science Cell Biochemistry and Function*
*Cellular and Molecular Life Sciences*
*Clinical Cancer Research*
*Clinical Chemistry*
*Clinical Medicine Insights*
*Current Cancer Drug Targets*
*Developmental Cell*
*Disease of Colon and Rectum*
*DNA and Cell Biology*
*Drug Discovery Today*
*Endocrine-Related Cancer*
*European Journal of Cancer*
*Frontiers Genetics*
*Frontiers Oncology*
*Future Oncology*
*Gastroenterology*
*Genes Chromosome and Cancer*
*Genome Medicine*
*Human Molecular Genetics*
*Human Pathology*
*In Silico Biology*
*International Journal of Bioinformatics*
*International Journal of Molecular Sciences*
*International Journal of Cancer*
*JAMA*
*Journal of Clinical Investigation*
*Journal of Cellular Physiology*
*Journal of Molecular Diagnosis*
*Journal of Pathology Diagnostics*
*Journal of the American College of Cardiology*
*Journal of Cardiovascular Translational Research*
*Journal of Experimental & Clinical Cancer Research*
*Journal of Hematology and Oncology*
*Journal of Visualized experiments*
*Journal of Immunotherapy of Cancer*
*Journal of Hepatology*
*Laboratory Investigation*
*Life Sciences*
*Microarrays*
*MicroRNA*

*Modern Pathology*
*Molecular Cancer Research*
*Molecular Cancer Therapeutics*
*Molecular Therapy*
*Nature Immunology Reviews*
*Nature Reviews Microbiology*
*Oncogene*
*Oncotarget*
*Pathology: Research and Practice Physiological Genomics*
*PLoS One*
*RNA*
*Scientific Reports*
*Scientific World Journal Skeletal Muscle*
*Translational Research*
*Tumor Biology*
*Vaccines*

**PROFESSIONAL MEMBERSHIPS**

Member, American Association for Immunologists (AAI)
Member, American Association for Cancer Research (AACR)
Member, International Society for Extracellular Vesicles (ISEV)
Member, Society for Immunotherapy of Cancer (SITC)