

## Curriculum Vitae

### Miguel Angel Miranda-Román

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#### EDUCATION

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<b>Gerstner Sloan Kettering Graduate School of Biomedical Sciences</b> <b>Ph.D. in Cancer Biology</b> Laboratory of Ping Chi, M.D., Ph.D.	2015–2021 (expected) New York, USA
<b>University of Puerto Rico-Río Piedras</b> <b>B.Sc. in Cellular &amp; Molecular Biology</b> <i>Magna cum laude</i> , departmental honors	2010–2015 San Juan, Puerto Rico

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#### HONORS & AWARDS

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- Department of Defense Peer Reviewed Cancer Horizon Award fellowship 2019-2021
- GSK Palestine Fellowship 2016–2017
- NIH Maximizing Access to Research Careers (MARC) fellowship 2013–2015
- Faculty of Natural Sciences Honor Dean's List 2010–2015
- Magna Cum Laude in B.Sc., Major in Cellular and Molecular Biology 2015
- Outstanding Cancer Biology Poster Award at the 2014 ABRCMS Conference 2014

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#### PUBLICATIONS

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Lozada-Delgado EL, Grafals-Ruiz N, **Miranda-Román MA**, Santana-Rivera Y, Valiyeva F, Rivera-Díaz M, Marcos-Martínez MJ, Vivas-Mejía PE. Targeting MicroRNA-143 Leads to Inhibition of Glioblastoma Tumor Progression. *Cancers*, October 2018.

Gupta S, Seydel K, **Miranda-Román MA**, Feintuch CM, Saidi A, Kim RS, Birbeck GL, Taylor T, Daily JP. Extensive Alterations of Blood Metabolites in Pediatric Cerebral Malaria. *Plos One*, April 2017.

Rivera-Díaz M, **Miranda-Román MA**, Soto D, Quintero-Aguilo M, Ortiz-Zuazaga H, Marcos-Martinez MJ, Vivas-Mejía, PE. MicroRNA-27a Distinguishes Glioblastoma Multiforme from Diffuse and Anaplastic Astrocytomas and Has Prognostic Value. *American Journal of Cancer Research*, January 2015.

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#### RESEARCH EXPERIENCE

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<b>Memorial Sloan Kettering Cancer Center</b> <b>Ph.D. Thesis</b> in the laboratory of Ping Chi, M.D., Ph.D.	New York, NY July 2016–Present
<ul style="list-style-type: none"><li>• Pathogenesis and novel therapeutics for Malignant Peripheral Nerve Sheath Tumor<ul style="list-style-type: none"><li>○ Study cell signaling alterations in MPNST as a way to develop novel therapeutics strategies for MPNST patients.</li></ul></li></ul>	
<b>University of Puerto Rico-Comprehensive Cancer Center</b> <b>Undergraduate Researcher</b> in the laboratory of Pablo Vivas-Mejía, Ph.D.	San Juan, PR 2013–2015
<ul style="list-style-type: none"><li>• Role of MicroRNAs in Glioblastoma Multiforme<ul style="list-style-type: none"><li>○ Studied miRNAs and their potential role in human GBM tumorigenesis, as well as their use as biomarkers of brain tumors in patients.</li></ul></li></ul>	
<b>University of Pennsylvania</b> <b>Undergraduate Researcher</b> in the laboratory of Kathryn E. Wellen, Ph.D.	Philadelphia, PA 2014 (Summer)

- Role of acetyl-CoA in the regulation of gene expression in cancer cells
  - Studied the effects that changing intracellular levels of acetyl-CoA could have on the activity of transcriptional regulators, like  $\beta$ -catenin, in cancer cells.

**Albert Einstein College of Medicine**

Bronx, NY

**Undergraduate Researcher** in the laboratory of Johanna P. Daily, M.D.

2013 (Summer)

- Identification of Small Molecules Biomarkers for the Rapid Diagnosis of Bacteremia
  - Studied small molecules present in the blood of patients with bacteremia as a way to identify biomarkers to predict and follow bacterial infections.

**University of Puerto Rico-Río Piedras**

San Juan, PR

**Undergraduate Researcher** in the laboratory of José Lasalde, Ph.D.

2012

- Innovation Technology for Membrane Protein Crystallization
  - Studied conditions needed for obtaining high-quality nAChR crystals from *T. californica* tissue, as a way to help facilitate the receptor characterization.

**MENTORING & TEACHING EXPERIENCE**

**GSK Graduate School Teaching Fellow**

**February - March 2020**

- Gerstner Sloan Kettering Graduate School of Biomedical Sciences  
Memorial Sloan Kettering Cancer Center

New York, NY

**Summer Student Program Mentor**

**Summer 2019**

- Human Oncology and Pathogenesis Summer Research Program  
Memorial Sloan Kettering Cancer Center

New York, NY

**Summer Student Program Mentor**

**Summer 2018**

- Human Oncology and Pathogenesis Summer Research Program  
Memorial Sloan Kettering Cancer Center

New York, NY

**PRESENTATIONS**

**Memorial Sloan Kettering Cancer Center**

- *Graduate Student Seminar* **February 2019**  
Talk: Overcoming resistance to MEK inhibitor treatment in Malignant Peripheral Nerve Sheath Tumor.
- *Human Oncology and Pathogenesis Program's Work in Progress* **September 2018**  
Talk: Overcoming resistance to MEK inhibitor treatment in Malignant Peripheral Nerve Sheath Tumor.
- *Gerstner Sloan Kettering's Fifth Biennial Retreat* **May 2018**  
Poster: Overcoming resistance to MEK inhibitor treatment in Malignant Peripheral Nerve Sheath Tumor.
- *Graduate Student Seminar* **May 2018**  
Talk: Overcoming resistance to MEK inhibitor treatment in Malignant Peripheral Nerve Sheath Tumor.
- *2018 Geoffrey Beene Cancer Research Retreat* **April 2018**  
Poster: Overcoming resistance to MEK inhibitor treatment in Malignant Peripheral Nerve Sheath Tumor.

**Undergraduate Symposiums**

- *Annual Biomedical Research Conference for Minority Students (ABRCMS)* **November 2014**  
Poster: Investigating Acetyl-CoA Regulation of Gene Expression in Glioblastoma Cells.
- *1st Puerto Rico Cancer Research Meeting* **October 2014**  
Poster: Detection of MicroRNAs in Blood and Saliva as Potential Biomarkers for Brain Tumor Patients.

- *Leadership Alliance National Symposium (LANS)* **July 2014**  
Talk: Investigating Acetyl-CoA Regulation of Gene Expression in Glioblastoma Cells.
- *2014 Ivy Plus Symposium* **March 2014**  
Poster: Role of miR-143 in Glioblastoma Multiforme Cell Lines.
- *Annual Biomedical Research Conference for Minority Students (ABRCMS)* **November 2013**  
Poster: Identification of Small Molecule Biomarkers for the Rapid Diagnosis of Bacteremia.

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#### TECHNICAL EXPERTISE

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**Cell biology:** Cell culture (patient derived cell lines), transfections (expression plasmids and siRNA), lenti- and retro-viral transduction and infection, fluorescent microscopy

**Molecular Biology:** PCR (standard and quantitative), DNA cloning (expression plasmids), agarose gel electrophoresis, Western blot

**Mouse work:** Handling, xenograft models (sub-cutaneous injections), drug delivery (oral gavage, intraperitoneal injection), tumor dissection, *in vivo* study design

**Biochemistry/Immunology:** Immunofluorescence, immunoprecipitation (IP), chromatin IP, flow cytometry, cell viability assays, cell death assays

**Computer related:** Microsoft Office, GraphPad Prism, Adobe Photoshop, Integrative Genomics Viewer (IGV), Integrated Genome Browser (IGB), software for drug synergism analysis

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#### CLINICAL EXPERIENCE

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| <b>Clinical Shadowing</b> at Memorial Sloan Kettering Cancer Center | New York, NY          |
| • Oncology – Dr. Hani Hassou  | May 2016              |
| • Neurology – Dr. Antonio Omuro                                     | March 2016            |
| • Oncology – Dr. Ronald DeMatteo                                    | December 2015         |
| <b>Clinical Shadowing</b> at HIMA San Pablo Hospital                | Bayamón, PR           |
| • Cardiology – Dr. Juan Igartua                                     | October–December 2012 |
| • Pneumology – Dr. Reinaldo Gonzalez                                | August–October 2012   |

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#### REFERENCES

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Ping Chi, MD, PhD (PhD thesis supervisor)  
Assistant Member, Human Oncology and Pathogenesis Program  
Assistant Attending Physician, Department of Medicine  
Memorial Sloan Kettering Cancer Center  
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