**CURRICULUM VITAE**

**DATE:** February 24, 2023

**NAME:** Melissa M. Alvarez-Downing, MD, FACS, FASCRS

**PRESENT TITLE:** Assistant Professor of Surgery, Clerkship Director of Rutgers NJMS

Medical Student Surgery Clerkship Assistant Program Director of General Surgery Residency,

**EDUCATION:**

1. Undergraduate

Sam Houston State University Huntsville, TX

Bachelor of Science in Chemistry December 2000

1. Graduate and Professional

Mount Sinai School of Medicine New York, NY

Medical Degree May 2005

# POSTGRADUATE TRAINING:

1. Internship and Residencies

Mount Sinai School of Medicine General Surgery Internship

July 2005 – June 2006

Saint Barnabas Medical Center General Surgery Residency July 2006 – June 2010 Academic Chief Resident

July 2009 – June 2010

1. Research Fellowship

National Cancer Institute, National Institutes of Health Surgery Branch

Surgical Oncology Fellowship July 2010 – June 2012

1. Postdoctoral Appointments

Cleveland Clinic Florida Colorectal Surgery Fellowship July 2012 – June 2013

**MILITARY:** None

# ACADEMIC APPOINTMENTS:

Department of Surgery

General Surgery, Section of Surgical Oncology Rutgers New Jersey Medical School

Assistant Professor of Surgery, March 2018 – Present

General Surgery Residency, Assistant Program Director, March 2018 – Present

Medical Student Surgery Clerkship, April 2021 - Present

Department of Surgery, Division of Colorectal Surgery Icahn School of Medicine at Mount Sinai

Assistant Professor of Surgery September 2013 – June 2017

# HOSPITAL APPOINTMENTS:

Department of Surgery Jersey City Medical Center Division of General Surgery Provisional

January 2022 - Present

Department of Surgery

Trinitas Regional Medical Center Division of General Surgery Provisional

October 2021

Department of Surgery

Newark Beth Israel Medical Center RWJ Barnabas Health

General Surgery Active Staff

February 2019 - Present

Department of Surgery, Division of General Surgery, Surgical Oncology University Hospital

Attending Surgeon March 2018 – Present

Department of Surgery, Division of Colorectal Surgery Mount Sinai St. Luke’s & Mount Sinai West

Attending Surgeon September 2013 – June 2017

# OTHER EMPLOYMENT OR MAJOR VISITING APPOINTMENTS:

# None

**PRIVATE PRACTICE:**

None

# CERTIFICATION:

American Board of Colon and Rectal Surgery/ 2541, expires December 2025 American Board of Surgery /056516/ expires January 2024

# MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

National Hispanic Medical Association

Council of Surgery Co-Chair

November 2021 – current

Member

March 2016 – Present

Association for Surgical Education

Diversity, Equity and Inclusion Task Force

November 2021 - Present

Member

March 2020 - Present

Latino Surgical Society Member

October 2021 – Present

American Society of Colon and Rectal Surgeons

Diversity, Equity & Inclusion Committee Member

March 2021 – Present

Program Committee Member

April 2021 - Present

Fellow

January 2012 – Present

New Jersey Chapter, American College of Surgeons Member

December 2018 – Present

New Jersey Society of Colon and Rectal Surgeons Treasurer

November 2018 – 2019

American College of Surgeons Women in Surgery Mentorship Program Member

September 2018 – 2019

International Anal Neoplasia Society Member

August 2018 – 2019

Association of Women Surgeons Member

December 2014 - Present

New York Society of Colon and Rectal Surgeons Fellow

September 2013 – Present

The Society of American Gastrointestinal and Endoscopic Surgeons

Committee Member, Fundamental of Endoscopic Surgery

October 2012 – 2014

Member

October 2012 – present

American College of Surgeons Fellow

September 2010 – Present

# HONORS AND AWARDS

1. Nominee, Rutgers New Jersey Medical School Golden Apple Teaching Award January 2022
2. Community Service Award

Latino Medical Student Association December 2021

1. Physician of the Month

Latino Medical Student Association Northeast Region November 2021

1. Nominee, New Jersey Medical School Diversity, Equity, Inclusion Champion October 2021
2. Nominee, New Jersey Health Foundation Excellence in Teaching Award Rutgers New Jersey Medical School

February 2021

1. Outstanding Young Alumni, <https://vimeo.com/301259466> Sam Houston State University

October 2018

1. The Department of Surgery Deiner Outstanding Chief Resident Award Saint Barnabas Medical Center Department of Surgery residents

June 2010

1. Herbert A. Schulte M.D. Award

Saint Barnabas Medical Center medical staff June 2010

1. UMDNJ Medical Student Council Distinguished Educator Nominee Saint Barnabas Medical Center medical students

June 2010

1. Dennis Filipone M.D. Department of Surgery Chairman Award Saint Barnabas Medical Center Chairman of Surgery

June 2008

1. Irwin Gelernt M.D. Award for Community Service Mount Sinai School of Medicine

May 2005

1. Comprehensive Clinical Assessment Outstanding Achievement Mount Sinai School of Medicine

May 2004

1. Harvard Minority Faculty Visiting Clerkship Program Mount Sinai School of Medicine

October 2004

1. Seymour L. Kaplan Scholarship Mount Sinai School of Medicine 2004
2. Patricia S. Levinson Fellowship Summer Research Grant Mount Sinai School of Medicine

June 2002

1. Dean’s List

Sam Houston State University 2000

1. President’s List

Sam Houston State University 2000

1. James C. Stallings Scholarship

Sam Houston State University Department of Chemistry 2000

1. Halina M. Lukaszewski Memorial Scholarship

Sam Houston State University Department of Chemistry 1999

1. Who’s Who

Sam Houston State University 1999

1. Golden Key National Honor Society Sam Houston State University

1998

1. Chemistry Academic Scholarship

Sam Houston State University Department of Chemistry 1997

1. Alpha Lambda Delta National Academic Honor Society for Freshmen Sam Houston State University

1997

1. Honors Program

Sam Houston State University 1997 - 2000

1. Outstanding Academic Scholarship

Sam Houston State University College of Arts & Sciences 1996 - 2000

1. Southland Conference All-Academic Team in Cross Country and Track & Field Sam Houston State University Division of Athletics

1996 - 2000

1. McDonald’s Hacer Foundation Hispanic American Commitment to Educational Resource Academic Scholarship, James Bowie High School

1996

# BOARD OF DIRECTORS/TRUSTEES POSITIONS:

# None

**SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:**

None

# SERVICE ON MAJOR COMMITTEES:

1. International: None
2. National:
3. National Hispanic Medical Association

Council of Surgery Co-Chair, November 2021 – current

1. The American Society of Colon and Rectal Surgeons

Diversity, Equity and Inclusion Committee, May 2021 – current Program Committee, May 2021 – current

1. Association of Surgical Education

Diversity, Equity and Inclusion Task Force, November 2021 – current Clerkship Directors Committee, May 2020 – current

1. The Society of American Gastrointestinal and Endoscopic Surgeons Fundamental of Endoscopic Surgery Committee 2015 – 2018
2. Association of Women Surgeons

Clinical Practice Committee 2015 – 2016

1. National Boricua/Latino Health Organization President, July 2002 – June 2003
2. Students for Equal Opportunities in Medicine Co-President, August 2001 – June 2005
3. Medical School/University:
4. Rutgers New Jersey Medical School

Careers in Medicine (CiM) Advisor, August 2022 – current

1. Rutgers Biomedical and Health Sciences

Women and Gender Equity Faculty Council, February 2021

1. Rutgers New Jersey Medical School

Admissions Committee, February 2021 – current

1. Rutgers New Jersey Medical School

Awards Selection Committee, February 2021

1. Rutgers New Jersey Medical School

Graduate Medical Education Committee, March 2020 – current

1. Rutgers New Jersey Medical School

Clinical Curriculum Advisory Committee, March 2020 – current

1. Latino Medical Student Organization Advisor, September 2019 – current
2. Rutgers New Jersey Medical School

Continuing Medical Education Committee, October 2018 – current

1. Rutgers New Jersey Medical School

Department of Surgery General Surgery Residency Interview Committee, October 2018 - current

1. Icahn School of Medicine at Mount Sinai Promotions Committee, July 2016 – June 2017
2. Mount Sinai School of Medicine

Admissions Committee, July 2004 – June 2005

1. Mount Sinai School of Medicine

Yearbook Committee, July 2004 – June 2005

1. Mount Sinai School of Medicine Tour Guide, July 2002 – June 2003
2. Mount Sinai School of Medicine

Student Advisory Committee, August 2001 – June 2005

1. Sam Houston State University

Orange Keys, August 1999 – July 2000

1. Sam Houston State University Student Orientation, August 1997
2. Hospital:
3. University Hospital

Chair, Hispanic Heritage Month Committee, September – October 2019, 2020, 2021

1. University Hospital

Project Lead, American College of Surgeons (ACS) Agency for Healthcare Research and Quality (AHRQ) Safety Program for Improving Surgical Care Recovery (ISCR)

1. June 2019 - current
2. University Hospital

Surgical Site Infection Performance Improvement Team, October 2018 - 2020

1. University Hospital

Project Lead, Enhanced Recovery After Surgery Program, June 2018 – current New Jersey Faculty Organization Association, March 2018 – current

1. Mount Sinai St. Luke’s, Mount Sinai West

Project Lead, New York State Partnership for Patients, April 2014 – June 2017

1. Mount Sinai St. Luke’s, Mount Sinai West

Lead Physician, End-to-End Anastomosis (EEA) Stapler Quality Improvement, April 2014 – June 2017

1. Department:
2. Rutgers New Jersey Medical School Department of Surgery

Chair, Diversity, Equity & Inclusion Committee July 2020 – current

1. Rutgers New Jersey Medical School

Department of Surgery

Academic Residency Training Mentor December 2018 – current

1. Rutgers New Jersey Medical School Department of Surgery

Coach

December 2018 – 2020

1. Rutgers New Jersey Medical School Department of Surgery

Program Evaluation Committee

March 2018 – current

1. Rutgers New Jersey Medical School Department of Surgery

Residency Education Committee

March 2018 – current

1. Rutgers New Jersey Medical School Department of Surgery

Clinical Competency Committee

March 2018 – current

1. Rutgers New Jersey Medical School Department of Surgery

Simulation Committee

March 2018 – 2020

1. Mount Sinai St. Luke’s, Mount Sinai West

Department of Surgery

Residency Education Committee

April 2014 – June 2017

1. Mount Sinai St. Luke’s, Mount Sinai West

Division of Colorectal Surgery Clinical Competency Committee

September 2013 – June 2017

1. Saint Barnabas Medical Center

General Surgery Residency Admissions Committee July 2009 – June 2010

1. Editorial Boards: None
2. *AdHoc* Reviewer:
3. Journal for the Association of Surgical Education, June 2022
4. Association of Women Surgeons Starr Research Forum, July 2022
5. American Journal of Surgery, March 2020, April 2021
6. Surgical Endoscopy, June 2020, February-May 2021
7. American College of Surgeons Advanced Curriculum in General Surgery, July 2020
8. Association of Women Surgeons Research Madness, July 2020
9. Colorectal Disease, March 2020
10. Techniques in Coloproctology, February-March 2020

# SERVICE ON GRADUATE SCHOOL COMMITTEES:

# None

# SERVICE ON HOSPITAL COMMITTEES:

1. University Hospital

Chair, Hispanic Heritage Month Committee, September 2019 – current

1. University Hospital

Robotics Steering Committee, July 2019 – current

1. University Hospital

Director, Improving Surgical Care Recovery Committee, June 2019 – current

1. University Hospital

Surgical Site Infection Performance Improvement Team, October 2018 - 2020

1. University Hospital

Director, Enhanced Recovery After Surgery Program, June 2018 - current

1. Mount Sinai St. Luke’s, Mount Sinai West

Lead Physician, New York State Partnership for Patients, April 2014 – June 2017

1. Mount Sinai St. Luke’s, Mount Sinai West

Lead Physician, End-to-End Anastomosis (EEA) Stapler Quality Improvement

April 2014 – June 2017

# SERVICE TO THE COMMUNITY:

1. Moderator, Rutgers New Jersey Medical School and University Hospital Hispanic Heritage Month Town Hall: Obesity and Nutrition in the Latino Community, September 2020, October 2022
2. American Society of Colon & Rectal Surgeons DEI Student Pathway Mentoring Program, 2 mentees, September 2022
3. American Society of Clinical Oncology (ASCO) Summer Internship program at Rutgers New Jersey Medical School host, June-September 2022
4. Rutgers New Jersey Medical School Association of Women Surgeons (AWS) Chapter Meet and Greet roundtable, August 2022
5. Rutgers New Jersey Medical School and University Hospital Hispanic Heritage Month Family Workshop: It’s a Cooking Show, October 2021
6. Keynote Speaker, Rutgers Cancer Institute of New Jersey 5th Annual See, Test, Treat, Colorectal Cancer: Let’s Talk about Risk Factors! October 2021
7. Presenter, First Fridays in Newark’s Central Ward, The Importance of Cancer Screenings,

October 2021

1. Panelist, University Hospital Connecting with the Community “Colon Cancer” with Congressman Payne Facebook Live Event, March 2021, [https://www.facebook.com/UniversityHospitalNewark/videos/congressman-payne-colon-](https://www.facebook.com/UniversityHospitalNewark/videos/congressman-payne-colon-cancer/369086017480339) [cancer/369086017480339,](https://www.facebook.com/UniversityHospitalNewark/videos/congressman-payne-colon-cancer/369086017480339) 1.2K views
2. Panelist, University Hospital Connecting with the Community “Cancers: Prevention, Screening & Treatment” Facebook Live Event, October 2020, [https://www.facebook.com/UniversityHospitalNewark/videos/1079002305852039,](https://www.facebook.com/UniversityHospitalNewark/videos/1079002305852039) 1.6K views
3. Moderator, Rutgers New Jersey Medical School and University Hospital Hispanic Heritage Month Town Hall: Mistrust in the Medical Community and Addressing Health Disparities, October 2020
4. Moderator, Rutgers New Jersey Medical School and University Hospital Hispanic Heritage Month Town Hall: Taboo Topics in Our Communities, September 2020
5. Panelist, University Hospital Connecting with the Community “The Leading Causes of Death for Men & How to Prevent Them” Facebook Live Event, June 2020, [https://www.facebook.com/UniversityHospitalNewark/videos/2601483996756244,](https://www.facebook.com/UniversityHospitalNewark/videos/2601483996756244) 3.5K views
6. Co-Chair, 16th Annual Breakfast of Legends, Mount Sinai Adolescent Health Center,

November 2019

1. Director, Rutgers New Jersey Medical School and University Hospital Hispanic Heritage Month Health Sciences Day and Health Fair, October 2019, [http://bit.ly/TAP\_hhm,](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2FTAP_hhm&data=02%7C01%7Cmelissa.alvarezdowning%40rutgers.edu%7C41ed76a6199743d0395a08d756464013%7Cb92d2b234d35447093ff69aca6632ffe%7C1%7C0%7C637072732025765756&sdata=n5QI9cnwMUjI%2FMgooyV6Cs8Tmp8xq5qAGxmC0CFsLwA%3D&reserved=0) [http://bit.ly/RLS\_newark,](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2FRLS_newark&data=02%7C01%7Cmelissa.alvarezdowning%40rutgers.edu%7C41ed76a6199743d0395a08d756464013%7Cb92d2b234d35447093ff69aca6632ffe%7C1%7C0%7C637072732025765756&sdata=92mLBuWGPSA1Rm4JeKOCYzk8ivo5BiP7Jm8Di5vNYjo%3D&reserved=0) [http://bit.ly/Univision\_njms](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2FUnivision_njms&data=02%7C01%7Cmelissa.alvarezdowning%40rutgers.edu%7C41ed76a6199743d0395a08d756464013%7Cb92d2b234d35447093ff69aca6632ffe%7C1%7C0%7C637072732025775709&sdata=NewaYgbwP35I3XB8L0WK2QOTY7Rxr99whFC2g7w5%2BLY%3D&reserved=0)
2. Introduction to Medicine, Park Elementary School, October 2019
3. Benefit Committee, All Star Code 5th Annual Summer Benefit, July 2018 and July 2019
4. Co-Chair, Poly Prep Historically Underrepresented Groups Black & Latinx,

September 2017 - 2021

1. Steering Committee, Apollo Women’s EmpowHer, October 2015 – 2020
2. Executive Committee, Committee for Hispanic Children and Families, September 2015 – current
3. Mission Trip to Haiti, The CRUDEM Foundation, Saint Barnabas Medical Center Department of Surgery, January 2012 and January 2010
4. East Harlem Health Outreach Program, Mount Sinai School of Medicine, July 2004 – June 2005
5. Rape Crisis Counselor, Mount Sinai School of Medicine Sexual Assault and Violence Intervention Program, July 2002 – June 2003
6. Homework Help and Tutoring Program, Mount Sinai Hospital Department of Health Education, July 2002 – June 2003
7. President, Students Teaching Aids to Students, Mount Sinai School of Medicine, August 2001 – June 2003

# SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

1. Abiola Biriowo, Doctor of Nursing Practice degree, Rutgers School of Nursing, ERAS education project, March 2022 – current
2. Christine Ogunleye, Rutgers Biomedical and Health Sciences, School of Graduate Studies, MPH Global Public Health Masters Candidate, Applied Practice Experience, January 2022 - 2023
3. Rima Patel, Doctor of Nursing Practice degree, Rutgers School of Nursing, “Improving Patient Adherence with Preoperative Instructions: A Quality Improvement Project,”

June 2021 – December 2021

1. Giovanna Mele, Rutgers New Jersey Medical School 3rd year student research year sponsor,

July 2020 – June 2021

# SPONSORSHIP OF POSTDOCTORAL FELLOWS:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Level of Trainee** | **Role in Training and Dates** | **Training Venue** |
| 1.  Ritha Belizaire | Colorectal Surgery Fellowship | Faculty Advisor August 2016 – June 2017 | St. Luke’s Roosevelt Hospital Center, Icahn School of  Medicine at Mount Sinai |
| 2. Brett Howe | Colorectal Surgery Fellowship | Faculty Advisor July 2015 – June 2016 | St. Luke’s Roosevelt Hospital Center, Icahn School of Medicine at Mount Sinai |
| 3.  Ziad Kronfol | Colorectal Surgery Fellowship | Faculty Advisor July 2014 – June 2015 | St. Luke’s Roosevelt Hospital Center, Icahn School of Medicine at Mount Sinai |
| 4.  Hamza Geund | Colorectal Surgery Fellowship | Faculty Advisor September 2013 –  June 2014 | St. Luke’s Roosevelt Hospital Center, Icahn School of Medicine at  Mount Sinai |

**TEACHING RESPONSIBILITIES:**

1. Lectures or Course Directorships

# Undergraduate Medical Education

1. Barnard College Student Lecture, Perspectives on a Career in Medicine, 1 hour, October 2014
2. Barnard Collegiate Science and Technology Entry Program, Introduction to Medicine at Mount Sinai St. Luke’s, 4 hours, July 2014, 2015, 2016
3. Sam Houston State University Department of Chemistry Teaching Assistant, August 1997 – December 2000

# Graduate Medical Education

1. Rutgers New Jersey Medical School Colorectal Surgery Elective, Course Director, May 2022 – current
2. Rutgers New Jersey Medical School Department of Surgery Acting Internship, Course Director, May 2022 - current
3. Rutgers New Jersey Medical School General Surgery Resident Lecture, Anal fissure, fistula and abscess, 1.5 hours, April 2022
4. Rutgers New Jersey Medical School Gastroenterology Fellowship Lecture, IBD and the Role of Surgery, December 2021
5. Rutgers New Jersey Medical School General Surgery Resident Lecture, Colorectal Cancer, Operations for Colon Cancer, Procedures for Rectal Cancer, 1.5 hours, October 2021
6. Rutgers New Jersey Medical School General Surgery Resident Lecture, Anal Neoplasms, Presacral Tumors and Rare Malignancies, 1.5 hours, October 2021
7. Rutgers New Jersey Medical School Gastroenterology Fellowship Lecture, IBD: When to get the surgeon involved, 1 hour, February 2021
8. Rutgers New Jersey Medical School Gastroenterology Fellowship Lecture, Anorectal Disease - What a GI Doctor Needs to Know, 1 hour, December 2020
9. Rutgers New Jersey Medical School 3rd Year Medical Student Clinical Reasoning Elective, 1.5hrs, April 2020, April 2021, April 2022
10. Rutgers New Jersey Medical School, Surgery Clerkship, Course Director, March 2020 - current
11. American College of Surgeons Resident and Associate Society Google Hangout Call Presenter, Choosing a Specialty – Colorectal Surgery, 1 hour, January 2020
12. Hackensack Meridian Health Palisades Medical Center General Surgery Residency Program Simulation Lab, GI Mentor, 2 hours, November 2019 & January 2020
13. Rutgers New Jersey Medical School General Surgery Resident Lecture, Inflammatory Bowel Disease, 2 hours, October 2019
14. Rutgers New Jersey Medical School General Surgery Resident Lecture, Anorectal Neoplasms, 1 hour, September 2019
15. Rutgers New Jersey Medical School General Surgery Animal Lab, 4 hours, May 2019
16. Rutgers New Jersey Medical School General Surgery Resident Lecture, Benign Anorectal Disease, 1 hour, November 2018
17. Rutgers New Jersey Medical School General Surgery Resident Lecture, Colorectal Cancer, 1 hour, November 2018
18. Rutgers New Jersey Medical School Gastroenterology Fellowship Lecture, Perianal Crohn’s Disease, October 2018
19. Rutgers New Jersey Medical School General Surgery Resident Lecture, Intern Boot Camp: Common Patient Emergencies, 2 hours, July 2018 & 2019
20. Rutgers New Jersey Medical School General Surgery Resident Simulation Lab, GI Mentor, 2 hours, June, September, November 2018; May, August, September 2019
21. Rutgers New Jersey Medical School Medical Student Didactic Week Lecture, Perianal Problems, 30 minutes, May 2018, June 2018, October 2018, June 2019
22. Mount Sinai System-Wide Combined Colorectal Conference, Rectal Prolapse, 1 hour, February 2016
23. Mount Sinai St. Luke’s, Mount Sinai West Internal Medicine Resident Lecture, Colorectal Cancer, 1 hour, August 2015
24. Mount Sinai St. Luke’s, Mount Sinai West Internal Medicine Resident Lecture, Fecal Incontinence, 1 hour, July 2015
25. Mount Sinai St. Luke’s, Mount Sinai West General Surgery Resident Lecture, On- call Tips for Interns, 1 hour, June 2015
26. Mount Sinai System-Wide Combined Division of Colorectal Surgery Conference, Parastomal Hernia, 1 hour, May 2015
27. Icahn School of Medicine at Mount Sinai General Surgery 3rd Year Clerkship Student Lecture, Colon Cancer and Diverticular Disease, 4 sessions of 1 hour each, 2015 – 2017
28. Mount Sinai St. Luke’s, Mount Sinai West Resident Simulation Course Co-Director, July 2015 – June 2017
29. Mount Sinai System-Wide Combined Colorectal Conference, Fecal Incontinence, 1 hour, November 2014
30. Mount Sinai St. Luke’s, Mount Sinai West General Surgery Resident Lecture, Oncology & Tumor Biology, 1 hour, November 2014
31. Mount Sinai St. Luke’s, Mount Sinai West Combined Colorectal Surgery Conference Director July 2016 – June 2017, July 2014 – June 2015
32. Icahn School of Medicine at Mount Sinai Center for Multicultural and Community Affairs, Preparation for the Wards: OR Etiquette and Procedures, 2 hours, June 2014
33. Mount Sinai St. Luke’s, Mount Sinai West General Surgery Resident Lecture, Basic Immunology, 1 hour, March 2014
34. Cleveland Clinic Florida Department of Colorectal Surgery Visiting Professor Case Presentation, Anal Fistula, 30 minutes, April 2013
35. Cleveland Clinic Florida Department of Colorectal Surgery Visiting Professor Case Presentation, Loop Ileostomy Reversal After Colorectal Surgery, 30 minutes, April 2013
36. Cleveland Clinic Florida Department of Colorectal Surgery Jagelman Turnbull Conference Live Surgery, Transanal Endoscopic Microsurgery, 30 minutes, February 2013
37. Cleveland Clinic Florida Department of Colorectal Surgery Visiting Professor Case Presentation, Anal Intraepithelial Neoplasia, 30 minutes, January 2013
38. Cleveland Clinic Florida Department of Colorectal Surgery Visiting Professor Case Presentation, Attenuated FAP, 30 minutes, January 2013
39. Cleveland Clinic Florida Department of Colorectal Surgery Visiting Professor Case Presentation, Colonic Stricture, 30 minutes, December 2012
40. Cleveland Clinic Florida Department of Colorectal Surgery Visiting Professor Case Presentation, J Pouch Fistula, 30 minutes, December 2012
41. Cleveland Clinic Florida Department of Colorectal Surgery Resident Lecture, Rectovaginal Fistula, 1 hour, December 2012
42. Cleveland Clinic Florida Department of Colorectal Surgery Resident Lecture, Surgical Management of Colon Cancer, 1 hour, October 2012
43. Cleveland Clinic Florida Department of Colorectal Surgery Resident Lecture, Lower GI Hemorrhage, 1 hour, October 2012
44. Cleveland Clinic Florida Department of Colorectal Surgery Resident Lecture, Colorectal Cancer Surveillance, 1 hour, October 2012
45. Cleveland Clinic Florida Department of Colorectal Surgery Visiting Professor Case Presentation, Tailgut Cyst, 30 minutes, September 2012
46. Cleveland Clinic Florida Department of Colorectal Surgery Visiting Professor Case Presentation, Colonic Volvulus, 30 minutes, September 2012
47. Cleveland Clinic Florida Department of Colorectal Surgery Resident Lecture, Surgical Management of Colorectal Cancer, 1 hour, September 2012
48. Cleveland Clinic Florida Department of Colorectal Surgery Resident Lecture, Surgical Management of Perianal Disease, 1 hour, July 2012
49. National Institutes of Health, National Cancer Institute Surgery Branch Tea Presentation, Adoptive Cell Therapy with MART-1-specific CD8+ T cells in Patients with Metastatic Melanoma, 1 hour, May 2012
50. National Institutes of Health, National Cancer Institute Surgery Branch Lab Meeting, In vivo comparative studies of MART27-35 specific CD8+ T cell clones after adoptive transfer: NCI trial 12-C-0045, 1 hour, February 2012
51. National Institutes of Health, National Cancer Institute Journal Club, Laparoscopic vs. Open Colectomy, 1 hour, October 2011
52. National Institutes of Health, National Cancer Institute Journal Club, Peritoneal Carcinomatosis from Gastric Cancer, 1 hour, June 2011
53. National Institutes of Health, National Cancer Institute Resident Lecture, Metastatic Colorectal Cancer, 1 hour, June 2011
54. National Institutes of Health, National Cancer Institute Case Presentation, GI Bleed, 1 hour, May 2011
55. National Institutes of Health, National Cancer Institute Case Presentation, Metastatic Medullary Thyroid Cancer and MEN-2B, 1hour, May 2011
56. National Institutes of Health, National Cancer Institute Resident Lecture, Parathyroid Carcinoma, 1 hour, April 2011
57. National Institutes of Health, National Cancer Institute Case Presentation, GIST, 1 hour, April 2011
58. National Institutes of Health, National Cancer Institute Case Presentation, Laparoscopic Liver Resection, 1 hour, April 2011
59. National Institutes of Health, National Cancer Institute Resident Lecture, Pheochromocytoma, 1 hour, April 2011
60. National Institutes of Health, National Cancer Institute Case Presentation, Hyperparathyroidism and MEN-1, 1 hour, April 2011
61. National Institutes of Health, National Cancer Institute Resident Lecture, Buschke- Lowenstein Syndrome, 1 hour, March 2011
62. National Institutes of Health, National Cancer Institute Surgery Branch Lab Meeting, Isolation and adoptive transfer of MART27-35 specific central memory CD8+ T cell clones from the peripheral blood of high risk and metastatic melanoma patients, 1 hour, December 2010
63. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Fundamentals of Laparoscopic Surgery Curriculum: Laparoscopic Hernia Repair, 1 hour, April 2010
64. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Fundamentals of Laparoscopic Surgery Curriculum: Laparoscopic Colon Resection, 1 hour, April 2010
65. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Fundamentals of Laparoscopic Surgery Curriculum: Mechanical Basics of Laparoscopic Surgery, 1 hour, March 2010
66. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Dissecting and Suturing, 1 hour, March 2010
67. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Surgical Definitions, 1 hour, March 2010
68. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Surgical Instruments, 1 hour, March 2010
69. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Variceal Hemorrhage, 1 hour, November 2009
70. Saint Barnabas Medical Center Department of Surgery Vascular Conference: Aortic Thrombosis, 1 hour, October 2009
71. Saint Barnabas Medical Center Department of Surgery Grand Rounds: Advances in the Medical and Surgical Management of Crohn’s Disease, 1 hour, September 2009
72. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Ulcerative Colitis, 1 hour, September 2009
73. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Treatment Options in Breast cancer, 1 hour, July 2009
74. Saint Barnabas Medical Center Department of Surgery Resident Lecture, Questions on GI, Wound and Antibiotics, 1 hour, July 2009
75. Saint Barnabas Medical Center Department of Surgery Resident Lecture, TPN, 1 hour, July 2009
76. Saint Barnabas Medical Center Department of Surgery and Emergency Medicine Trauma Rounds, Pediatric Trauma, 1 hour, April 2009
77. Saint Barnabas Medical Center Department of Surgery Grand Rounds, Laparoscopic SLN Biopsy for CRC: Is it Ready for Primetime? 1 hour, March 2009
78. Saint Barnabas Medical Center Department of Surgery Vascular Conference, Abdominal Aortic Aneurysm, 1 hour, February 2008
79. Saint Barnabas Medical Center Department of Surgery Grand Rounds, PET Scan: How Does it Work, Who Benefits and Does it Make a Difference? 1 hour, September 2007
80. Saint Barnabas Medical Center Tumor Board Case Presentation, 1 hour, February 2007
81. Mount Sinai School of Medicine Student Lecture, Renovascular Hypertension, 30 minutes, September 2004

# Continuing Medical Education:

1. Rutgers Cancer Institute of New Jersey Oncology Committee, Clinical Updates on Colorectal Cancer, 30 min, March 2019
2. Mount Sinai West Institute for Advanced Medicine HIV Grand Rounds, Colorectal Cancer Screening in Patients with HIV, 1 hour, October 2016
3. Mount Sinai St. Luke’s Staying Alive Conference: Addressing Major Causes of Female Mortality and Beyond, Colorectal Cancer and Screening, 1 hour, May 2016
4. Saint Barnabas Medical Center Department of Surgery Grand Rounds, Health Disparities with Colorectal Cancer Screening and Treatment, 1 hour, January 2016
5. Mount Sinai Office of Diversity and Inclusion Health Lecture Series for Hispanic/Latino Heritage Month, Health Disparities with Colorectal Cancer Screening and Treatment in the Hispanic Community, 1 hour, October 2015
6. New York State Partnership for Patients Advanced Colon Bundle web presentation, Experience with the Colon Bundle, 30 minutes, July 2014
7. Cleveland Clinic Florida Department of Colorectal Surgery Grand Rounds, Transanal Resection of T1 Rectal Cancer – Indication, Techniques and Outcomes, 1 hour, March 2013
8. Saint Barnabas Medical Center Department of Surgery Grand Rounds, Natural Orifice Transluminal Endoscopic Surgery, 1 hour, June 2007
9. Research Training (other than Primary Mentorship) Post-Doctoral Fellows: Not applicable

Pre-Doctoral Students: Not applicable

# CLINICAL RESPONSIBILITIES:

Serve as the sole Board-certified colorectal surgery practitioner in the Rutgers New Jersey Medical School Department of Surgery; manage office hours; perform endoscopic procedures and outpatient/inpatient minimally invasive surgery, both laparoscopic and robotic; teach and mentor medical students and general surgery residents

# GRANT SUPPORT:

1. Principal Investigator: None
2. Co-Investigator: None
3. Pending: None

**PUBLICATIONS:**

1. Referenced Original Article in Journal
   1. **Alvarez-Downing MM** and da Silva Giovanna; Bumps down under: hemorrhoids, skin tags and all things perianal. *Curr Opin Gastroentrol,* 38(1):61- 66, 2022
   2. Oberoi KPS, Scott MT, Schwartzman J, Mahajan J, Patel NM, **Alvarez-Downing MM**, Merchant AM, Kunac A; Resident endoscopy experience correlates poorly with colonoscopy performance on a VR simulator; *Surg J (NY),* 8(1):e80-e85, 2022
   3. Patel R, Pant K, Patel KS, Merchant AM, **Alvarez-Downing MM**; Association of hospital factors and socioeconomic status on the utilization of minimally invasive surgery for colorectal cancer over a decade. *Surg Endosc,* 10.1007/s00464-021-08690-w ahead of print, 2021
   4. Patel R, Patel KS, **Alvarez-Downing MM**, Merchant AM; Laparoscopy improves failure to rescue compared to open surgery for emergent colectomy; *Updates Surg,* 72(3):835-844, 2020
   5. Shantha Kumara HMC, Pettke E, Shah A, Yan X, Cekic V, **Downing MA**, Gandhi ND, Whelan RL; Plasma levels of the proangiogenic protein CXCL16 remains elevated for 1 month after minimally invasive colorectal cancer resection; *World J Surg Oncol,* 16(1):132, 2018
   6. **Alvarez-Downing MM**, Kushal N, Inchauste SM, Khangura SK, Malech HL, Holland SM, Hughes MS, Heller T, Sherry RM; The role of surgery in the management of patients with refractory chronic granulomatous disease colitis; *Diseases of the Colon & Rectum*, 56(5):609-14, 2013
   7. Wang A, Chandran S, Shah SA, Chiu Y, Paria BC, Aghamolla T, **Alvarez- Downing MM**, Lee CC, Singh S, Li T, Dudley ME, Restifo NP, Rosenberg SA, Kammula US; The stoichiometric production of IL-2 and IFN-γ mRNA defines memory T cells that can self-renew after adoptive transfer in humans; *Science Translational Medicine*, 4(149):149, 2012
   8. **Alvarez-Downing MM**, Inchauste SM, Dudley ME, White DE, Wunderlich JR, Rosenberg SA, Kammula US; Minimally invasive liver resection to obtain tumor infiltrating lymphocytes for adoptive cell therapy in patients with metastatic melanoma; *World Journal of Surgical Oncology*, 10(1):113, 2012
   9. **Alvarez-Downing MM**, Klaassen Z, Orringer R, Gilder M, Tarantino D, Chamberlain RS; Incidence of small bowel obstruction after laparoscopic and open colon resection; *The American Journal of Surgery*, 3:411-15, 2011
2. Books, Monographs and Chapters
   1. Kronfol, Ziad N. and **Alvarez-Downing, Melissa M**; Chapter 63: Hemorrhoids; Evidence Based Practices in Gastrointestinal & Hepatobiliary Surgery; 1st Edition; Govind Nandakumar; pages 903-914; Jaypee Brothers Medical Publishers, New Delhi, India, 2017
   2. **Alvarez-Downing, Melissa M.** and Maron, David J; Chapter 33: Laparoscopy in Pregnant Patients; Minimally Invasive Approaches to Colon and Rectal Disease; 1st Edition; Howard M. Ross; pages 373-379; Springer, New York, NY 2015
   3. **Alvarez-Downing, Melissa M.** and Cera, Susan M; Chapter 6: Parastomal Hernia; Operative Techniques in Colon and Rectal Surgery; 1st Edition; Michael W. Mulholland; pages 330-335; Wolters Kluwer Health, Philadelphia, PA, 2015
3. Patents Held – None
4. Other articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications
   1. Rutgers New Jersey Medical School Group on Women in Medicine and Science Woman Faculty Spotlight, May 2021, https://njms.rutgers.edu/faculty\_affairs/gwims/faculty\_of\_the\_month.php
   2. Rutgers New Jersey Medical School Celebrating Hispanic Heritage Month with Dr. Melissa Alvarez-Downing, October 2020, <https://www.youtube.com/watch?v=lY5BNgQLUv0>
   3. AAMC Group on Women in Medicine and Science Women in Medicine Physician Spotlight, September 2019, https://[www.aamc.org/professional-development/affinity-](http://www.aamc.org/professional-development/affinity-) groups/gwims/women-physicians
   4. Rutgers New Jersey Medical School Hispanic Center of Excellence Physician Spotlight, October 2019, <https://youtu.be/xyQXOgwWs3w>
   5. Association of Women Surgeons Blog, “When the Job of Your Dreams Isn’t.” September 2019, [https://blog.womensurgeons.org/career-development/when-the-job-of-your- dreams-isnt/](https://blog.womensurgeons.org/career-development/when-the-job-of-your-dreams-isnt/)
   6. Mount Sinai Office for Diversity and Inclusion, Faces of Sinai for Hispanic/Latino Heritage Month, October 2016
5. Abstracts
   1. George LC, Dar A, Linz MS, **Alvarez-Downing MM**, Howard D; Patient Outcomes and Surgeon Gender: A Systematic Review; e-Poster presentation at The American College of Obstetricians and Gynecologists 2022 District III Junior Fellow Day.
   2. Patel R, Patel KS, Merchant AM, **Alvarez-Downing MM**; Laparoscopy improves failure to rescue compared to open surgery for emergent colectomy; Poster presentation at Rutgers New Jersey Medical School Department of Surgery Sixth Annual Research Symposium, 2020
   3. **Alvarez-Downing MM** and Chokshi, R. Implementation costs for enhanced recovery after surgery (ERAS) protocols – Practical or prohibitive?: e-Poster presentation at American Society of Colon and Rectal Surgeons annual conference, 2019, p70
   4. Oberoi KPS, Liotta MA, Cojocaru SD, Livingston DH, **Alvarez-Downing MM**, Merchant AM, Kunac A; Validation of a synthetic bowel model created using 3D printing; Poster presentation at Rutgers New Jersey Medical School Department of Surgery Annual Research Symposium, 2018
   5. Shantha Kumara MC, Abhinit Shah, Erica Pettke E, Yan X, Cekic V, Gandhi ND, **Alvarez-Downing MM**, Whelan RL; Plasma levels of the proangiogenic protein CXCL16 are persistently elevated during the first month after minimally invasive colorectal resection for colorectal cancer; Presented at Society of American Gastrointestinal and Endoscopic Surgeons annual conference, 2017
   6. Angela C. Gabasan, RN, BSN, MSN, CIC, **Melissa M. Alvarez-Downing, MD, FACS,** Barbara A. Smith, RN, BSN, MPA, CIC, Emilia Mia Sordillo, MD, PhD; Sustained reduction in colon surgical site infections after bundle implementation: Experience at 2 hospitals; Presented at Association of Professionals in Infection Control Conference, 2017
   7. Bellini G, Sutton E, Cekic V, Howe BL, Gandhi N, **Alvarez-Downing MM**, Whelan RL. Long term “loose” seton use in fistula patients is associated with migration of the internal opening outward and may eliminate LIFT or advancement flap procedures as definitive treatment options; Presented at American Society of Colon and Rectal Surgeons annual conference, 2016
   8. Shantha Kumara HMC, Miyagaki H, Yan X, Njoh L, Cekic V, Gandhi N,

**Alvarez-Downing MM**, Whelan RL; Plasma levels of Cartilage Oligomeric

* 1. Matrix Protein (COMP) are significantly increased in patients with colorectal cancer; Presented at American Association for Cancer Research Conference, 2016
  2. Angela C. Gabasan, RN, BSN, MSN, CIC, **Melissa Alvarez-Downing, MD**, Barbara A. Smith, RN, BSN, MPA, CIC, Eloisa Santos, RN, BSN, MA, MEd, Emilia Mia Sordillo, MD, PhD; Implementing a Colon Bundle in 2 Hospitals: A Multidisciplinary Approach to a Quality Improvement Initiative at Mount Sinai St Luke’s and West; Presented at Association of Professionals in Infection Control conference, 2016
  3. Shantha Kumara HMC, Miyagaki H, Herath SA, Gaita D, Yan X, Njoh L, Cekic V, **Alvarez-Downing MM**, Richard RL; Minimally invasive colorectal resection (MICR) is associated with significantly elevated plasma osteopontin levels during the first month after surgery which may promote cancer recurrence and metastasis; Presented at Society of American Gastrointestinal and Endoscopic Surgeons annual conference, 2015
  4. Miyagaki H, Arkenbosch J, Cekic V, Guend H, Gandhi N, **Alvarez-Downing M**, Whelan RL; The impact of complications on length of stay in patients undergoing elective colorectal resection (ACS-NSQIP database review); Presented at American Society of Colon and Rectal Surgeons annual conference, 2014
  5. Arkenbosch J, Miyagaki H, Gandhi N, **Alvarez-Downing M**, Guend H, Lee D, Cekic V, Whelan RL; Complications after hospital discharge leading to readmission in colorectal resection patients: a review of the American College of Surgeons National Surgical Quality Improvement Database; Presented at Digestive Disease Week, 2014
  6. Inchauste SM, **Alvarez-Downing MM**, Atay SM, Steinberg SM, Phan GQ, Sherry RM, Royal RE, Rosenberg SA, Hughes MS, Pandalai PK; Small bowel metastasectomy for adoptive immunotherapy in metastatic melanoma: A single institution experience; Presented at Society of Surgical Oncology's 67th Annual Cancer Symposium, 2014
  7. **Alvarez-Downing MM**, Haubert LM, Van Koughnett JM, Takano S, da Silva GM, Wexner SD, Sands DR; When Does Diverticulitis Perforate? Presented at American Society of Colon and Rectal Surgeons annual meeting, 2013, p86
  8. Haubert LM, Van Koughnett JA, **Alvarez-Downing MM**, da Silva GM, Wexner SD; How common are long-term motor and sensory complications of gracilis muscle transposition? Presented at American Society of Colon and Rectal Surgeons annual conference, 2013
  9. **Alvarez-Downing MM**, Kushal N, Inchauste SM, Malech HL, Gallin JI, Holland SM, Hughes MS, Sherry RM, Heller T; The role of surgery in the management of patients with refractory chronic granulomatous disease colitis; Presented at American Society of Colon and Rectal Surgeons annual conference, 2012
  10. Kammula US, Wang A, Chiu Y, Aghamolla T, Paria B, **Alvarez-Downing M**, Mudigonda T, Ramadorai V; New ammunition to fight cancer: The rapid isolation and adoptive transfer of central memory derived CD8+ T cell clones to patients with metastatic melanoma; Presented at NCI Intramural Scientific Investigators Retreat, 2011
  11. **Alvarez-Downing MM**, Klaassen Z, Orringer R, Gilder M, Tarantino D, Chamberlain RS; Incidence of small bowel obstruction after laparoscopic and open colon resection; Presented at American College of Surgeons Midwest Surgical Association meeting, 2010
  12. **Alvarez M**, Ghalyaie N, Kigongo S; Metastatic mucinous carcinoma of likely colonic origin in a 13 year old patient: A case report; Presented at Saint Barnabas Medical Center Department of Surgery Research Day, 2009
  13. Bukur M, Ghanta H, Italiano F, Binetti B, **Alvarez M**; Fast track colorectal surgery in a community hospital: Do we practice what we teach? Presented at Saint Barnabas Medical Center Department of Surgery Research Day, 2008
  14. **Alvarez M**, Horowitz C, Zaldivar A; A culturally sensitive peer-education intervention for diabetic patients living in East Harlem; Presented at Mount Sinai School of Medicine Student Research Day, 2002

1. Reports: None

**PRESENTATIONS:**

1. Scientific: None
2. Clinical:
3. Invited, Rutgers New Jersey Medical School Careers in Medicine Gastrointestinal Systems specialty panel, 1 hour, August 2022
4. Panelist, American Society of Colon & Rectal Surgeons Diversity, Equity & Inclusion Committee Inaugural Pathway Program: Preparing for a Future Career During Medical School, 1 hour, May 2022
5. Invited moderator, American Society of Colon & Rectal Surgeons Annual Scientific Meeting, ePosters: Benign Anorectal Disease, 1 hour, May 2022
6. Invited, Women in Medicine and Surgery Interest Group California University of Science and Medicine School of Medicine, My Journey in Medicine, 1hour, April 2022
7. Invited, New Jersey Chapter of American College of Surgeons Annual Meeting, How to Obtain a Position in the COVID-era: Jobs, Fellowship and Residency, 2 hour panel, December 2021
8. Invited, SAGES/AAST/EAST Annual Scientific Meeting, Masters in Acute Care Surgery: MIS Opportunities within the Spectrum of Urgent and Emergent Patients, Current Management of Rectal Foreign Bodies, 2 hour panel, August 2021
9. Invited moderator, SAGES/AAST/EAST Annual Scientific Meeting, Abstract Presentations, 2 hours, August 2021
10. Invited, Rutgers New Jersey Medical School Ben Rush Surgical Society, Choosing a Surgical Specialty and Fellowship, 1.5 hours, July 2021
11. Invited, Herbert Wertheim College of Medicine Specialty Residency Rounds focused on Surgery, 1 hour, June 2021
12. Panelist, Association of Surgical Education 2021 Annual Meeting Workshop, Pandemic Pedagogy: Dissecting the Long-Term Ramifications of COVID-19 to Surgery Education, 2 hours, April 2021
13. Invited, Rutgers New Jersey Medical School Transition to Residency Panel, Surgery, 1 hour, April 2021
14. Rutgers New Jersey Medical School Ben Rush Surgical Society, Balancing Personal Life with Surgical Residency, 1 hour, February 2021
15. Rutgers New Jersey Medical School Ben Rush Surgical Society, Virtual Interviews Tips and Tricks for Success, 1 hour, January 2021, September 2021
16. Rutgers New Jersey Medical School Ben Rush Surgical Society, Journey to Surgery, 1 hour, October 2020
17. Rutgers New Jersey Medical School Latino Medical Student Association, My Journey in Medicine, 1 hour, September 2020
18. Invited moderator, The 31st International Colorectal Disease Symposium, Fluorescence Imaging Day: Other Important Applications of Fluorescence Imaging, 2.5 hours, February 2020
19. Invited, Newark Beth Israel Medical Center Department of Medicine Grand Rounds, Surgical Management of Stage IV Colorectal Cancer, 1 hour, February 2020
20. Invited, Rutgers New Jersey Medical School Department of Surgery Grand Rounds, Minimally Invasive Colorectal Surgery, 1 hour, February 2019
21. Invited, Rutgers New Jersey Medical School Office for Diversity and Community Engagement, Summer Youth Scholars Program (SYSP), Being a Surgeon, 1 hour, July 2018
22. Invited, Icahn School of Medicine at Mount Sinai Student Presentation, Women in Medicine: Keeping it Real Series, 1 hour, March 2017
23. Invited, The Manhattan Life Sciences Secondary School Career Day, Round Table Discussion, 1 hour, March 2017
24. Invited, Mount Sinai West Institute for Advanced Medicine HIV Grand Rounds, Colorectal Cancer Screening in Patients with HIV, 1 hour, October 2016
25. Invited moderator, Icahn School of Medicine at Mount Sinai 2nd year Medical Student Career Fair Round Table, 2 hours, October 2016, 2015
26. Invited, Mount Sinai St. Luke’s Staying Alive Conference: Addressing Major Causes of Female Mortality and Beyond, Colorectal Cancer and Screening, 1 hour, May 2016
27. Invited, Saint Barnabas Medical Center Department of Surgery Grand Rounds, Health Disparities with Colorectal Cancer Screening and Treatment, 1 hour, January 2016
28. Invited, Mount Sinai Office of Diversity and Inclusion Health Lecture Series for Hispanic/Latino Heritage Month, Health Disparities with Colorectal Cancer Screening and Treatment in the Hispanic Community, 1 hour, October 2015
29. Podium presentation, American Society of Colon and Rectal Surgeons Annual Meeting, “When does diverticulitis perforate?” Phoenix, AZ, May 2013
30. Cleveland Clinic Florida Department of Colorectal Surgery Grand Rounds, Transanal Resection of T1 Rectal Cancer – Indication, Techniques and Outcomes, 1 hour, March 2013
31. National Institutes of Health, National Cancer Institute Resident Presentation, Medical Mission Trip to Haiti: Before and After, 1 hour, May 2012
32. Saint Barnabas Medical Center Department of Surgery and Anesthesiology Grand Rounds, Mission Trip to Haiti: Two Perspectives from the Saint Barnabas OR, 1 hour, May 2010
33. Saint Barnabas Medical Center Department of Surgery Grand Rounds, Natural Orifice Transluminal Endoscopic Surgery, 1 hour, June 2007
34. Keynote Address, The Manhattan Life Sciences Secondary School Graduation, A Personal Account of My Journey to a Career in Medicine, 30 minutes, May 2005
35. Mount Sinai School of Medicine Student Presentation, CFHI: Exploring Healthcare in Quito, Ecuador, 30 minutes, March 2004

# APPENDIX:

# Continuing Education

American College of Surgeons

Surgeons as Educators

September 2022

Atlanta, Georgia

# American Society of Colon & Rectal Surgeons Diseases of the Colon & Rectum Reviewer’s Guild Class, January 2023

Society of Gastrointestinal Endoscopic Surgeons (SAGES) Fundamentals of Leadership course, October 2022

American Society of Colon & Rectal Surgeons Diversity, Equity & Inclusion Pipeline Program grant proposal and program development, contributing author, submitted to American College of Surgeons, May 2022

Association for Surgical Education and the Surgical Education Research Fellowship (SERF), May 2022

Rutgers Biomedical Health Science Building Bridges for Impact & Growth Diversity Champion Ambassador, November 2021

International Association of Medical Science Educators (IAMSE) Faculty Development Webinar Series, January 2021, September 2022

Rutgers Office for Faculty Development Oasis Leadership and Professional Development Program, 2020 – 2021

Rutgers Biomedical and Health Sciences Vice Chancellor for Diversity & Inclusion “Racial Literacy Tools for Health Care Providers,” October 2020

Rutgers Biomedical and Health Sciences Vice Chancellor for Diversity & Inclusion “Train-the- Trainer Workshop on Building an Anti-Racist Learning Environment,” September 2020

IRB Protocols:

Principal Investigator, Exercise Frequency and its Effect on Physician Burnout Among Colorectal Surgeons, IRB # Pro2021001376, 2022

Principal Investigator, Randomized, Double-Blind, Placebo-Controlled, Phase 2 Trial to Evaluate the Safety and Efficacy of TU-100 as an Adjunct to an Enhanced Recovery after Surgery (ERAS) Protocol in Subjects Undergoing Bowel Resection, Protocol No.

TU100P2T4, IRB #Pro20203738, Pro2021001878, 2022

Co-Investigator, COVID-19: Surgical Implications Study, IRB Study #Pro2020000853, 2021

Co-Investigator, Surgical Outcomes in ACS and Elective General Surgery, IRB Study #Pro2018000707, 2020

Negotiation 101 Virtual Course for Female Faculty/Practicing Physicians, December 2020

Satisfaction, Scholarship, Advancement & Leadership (S2AIL) coaching series by the Rutgers New Jersey Medical School Hispanic Center of Excellence, June 2020

Scientific Writing Series with Dr. Darcy Gioia, March 2019 AAMC Grant Writers Coaching Group, September 2018

Women’s Leadership in Surgery Conference: Setting Yourself up for Success, August 2018