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Curriculum Vitae

Dimiter Bogdanov Avtanski, Ph.D.

Director, Gerald J. Friedman Diabetes Institute Research Laboratory, New York, New York
Professor of Medicine, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hempstead, New York
Investigator, Institute of Bioelectronic Medicine, Feinstein Institutes for Medical Research, Manhasset, New York

Contact Information and Profiles

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Academia: <https://northshorelij.academia.edu/DimiterAvtanski>

Short Bio

I am currently a Director of the Endocrine Research Laboratory at the Friedman Diabetes Institute of Lenox Hill Hospital in New York City, a Professor of Medicine at Donald and Barbara Zucker School of Medicine at Hofstra/Northwell in Hempstead, New York, and an Assistant Investigator at the Institute of Bioelectronic Medicine at the Feinstein Institutes for Medical Research in Manhasset, New York. I received my M.Sc. in Biology and Chemistry from Sofia University in Bulgaria and Ph.D. from the Bulgarian Academy of Sciences in collaboration with Beth Israel Medical Center at the Albert Einstein College of Medicine in New York City. I have specialized in Leipzig University, Germany, and have completed seven years of postdoctoral fellowships at the Johns Hopkins University School of Medicine in Baltimore, Maryland. My primary research focuses on the connection between obesity, diabetes, and breast cancer progression. I have authored 31 research articles, 17 review articles, and 5 book chapters, and have made 141 oral and poster presentations at international and national scientific meetings. I am also an editor of the Springer Nature books, *"Obesity, Diabetes, and Inflammation – Clinical Perspectives."* And *"Adipose Tissue: Endocrine Functions, Health Implications, and Future Perspectives."* I serve as an Associate Editor for the journals *Molecular Medicine*, *BMC Endocrine Disorders*, *Discover Oncology*, *Journal of Visualized Experiments (JoVE)*, and *World Journal of Diabetes*, and as an Editorial Board Member for several other scientific journals. I mentor rotating fellows from Lenox Hill Hospital, Hofstra University, Feinstein Institutes for Medical Research, and other schools.

Experience

- Endocrinology and Oncology basic science researcher with 25 years of experience
- Proficient in multiple biochemistry and molecular biology laboratory techniques
- Proficient in animal research and various surgical techniques
- Research laboratory director with experience in organizing day-to-day laboratory activities and managing staff
- Experienced in new laboratory design, setup, and laboratory certifications
- Experienced in grant applications
- Experienced in clinical research studies and IRB submissions
- Proficient scientific writing and presentation skills
- Involved in a variety of teaching activities for medical fellows, PhDs, college and high school students
- Journal editor and active peer reviewer

Education (Brief)

2011-2015	Post-Doctoral Fellowship , Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins University, Baltimore, Maryland, USA
2008-2011	Post-Doctoral Fellowship , Johns Hopkins University School of Medicine, Baltimore, Maryland, USA
2007	Ph.D. , Bulgarian Academy of Sciences, Sofia, Bulgaria and Beth Israel Medical Center, New York, USA
2000	M.Sc. , Sofia University, Sofia, Bulgaria

Professional Positions

2025-present	Professor of Medicine Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hofstra University, Hempstead, New York, USA
2019-present	Assistant Investigator (2023-present) Assistant Professor (2019-2023) Institute of Bioelectronic Medicine, Feinstein Institutes for Medical Research, Manhasset, New York, USA
2019-2025	Associate Professor of Medicine Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hofstra University, Hempstead, New York, USA
2015-2019	Assistant Professor of Medicine Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hofstra University, Hempstead, New York, USA
2016-present	Director, Endocrine Research Laboratory Gerald J. Friedman Diabetes Institute, Lenox Hill Hospital, Northwell Health, New York, New York, USA
2015	Adjunct Assistant Professor Department of Reproductive Biotechnologies and Cryobiology of Gametes, Institute of Biology and Immunology of Reproduction "Acad. Kiril Bratanov", Bulgarian Academy of Sciences, Sofia, Bulgaria
2001-2010	Research Associate, 1st Degree (2008-2010) Research Associate, 3rd Degree (2002-2008)

Biologist Specialist (2001-2002)

Department of Immunoneuroendocrinology, Institute of Biology and Immunology of Reproduction
 "Acad. Kiril Bratanov", Bulgarian Academy of Sciences, Sofia, Bulgaria

Education (Extended)

2011-2015

Post-Doctoral Fellow

Department of Oncology, Breast Cancer Program, Sidney Kimmel Comprehensive Cancer Center at
 Johns Hopkins University School of Medicine, Baltimore, Maryland, USA
 Research project: *"Role of adipocytokines in initiation and progression of breast cancer"*
 Mentor: Prof. Dipali Sharma, Ph.D.

2008-2011

Post-Doctoral Fellow

Division of Endocrinology and Metabolism, Department of Pediatrics, Johns Hopkins University
 School of Medicine, Baltimore, Maryland, USA
 Research project: *"Role of estrogens on somatotroph hormonal production"*
 Mentor: Prof. Sally Radovick, M.D.

2007

Ph.D. (Physiology, Pathophysiology, and Pharmacology)

Collaboration between the Institute of Biology and Immunology of Reproduction at the Bulgarian
 Academy of Sciences, Sofia, Bulgaria and the Department of Endocrinology and Metabolism at
 Beth Israel Medical Center, Albert Einstein College of Medicine, New York, New York, USA
 Dissertation thesis: *"Role of peroxisome proliferator-activated receptor- γ (PPAR γ) in the human
 ovary"*
 Mentors: Prof. Leonid Poretsky, M.D., Assoc. Prof. Donna Seto-Young, Ph.D., Assoc. Prof. Rossitza
 Konakchieva, Ph.D.

2000-2001

Visiting Scientist

Institute of Anatomy, Faculty of Medicine, University of Leipzig, Leipzig, Germany
 Research project: *"Ovarian macrophages as neuroendocrine cells in the ovarian cycle"*
 Mentor: Prof. Katharina Spanel-Borowski, M.D.

2000

M.Sc. (Biology and Chemistry)

Sofia University, Sofia, Bulgaria

Master theses:

- 1) *"Steroidogenic function of the Muscovy duck ovary (Cairina moschata, L.)"*, Department
 of Cell Biology, Histology, and Embryology, Faculty of Biology
 Mentor: Assoc. Prof. Vesselin Penkov, Ph.D.
- 2) *"Model of educational software: Nitrogen cycle in nature"*, Department of Methodology
 of Biology Education and Department of Methodology of Chemistry Education, Faculty of
 Biology and Faculty of Chemistry
 Mentor: Assoc. Prof. Natalia Tzanova, Ph.D.

Research Support

2022-2024

Effects of synthetic mono-carbonyl curcumin analogues on diabetes via modulation of oxidative stress and inflammation

Sponsor: Lenox Hill Hospital and MEETH Research Award, Donald and Barbara Zucker grant
 Role: Principal Investigator

2021-2023

Role of irisin in human reproduction

Sponsor: Lenox Hill Hospital and MEETH Research Award, Donald and Barbara Zucker grant
 Role: Co-Investigator

2021-2022

Investigation of the molecular mechanisms by which hypoxia modulates cytokine secretion in breast cancer cells

- Sponsor: Lenox Hill Hospital and MEETH Research Award, Donald and Barbara Zucker grant
Role: Principal Investigator
- 2019-2020 **Role of hypoxia in modulating cytokine secretion in breast cancer cells**
Sponsor: Gerald J. and Dorothy R. Friedman New York Foundation for Medical Research, Gerald J. Friedman Diabetes Institute
Role: Principal Investigator
- 2019-2021 **Role of inflammatory cytokines in affecting the outcome from *in vitro* fertilization procedure**
Sponsor: Michael Kors Research Innovations Grant, Katz Institute for Women's Health, Northwell Health
Role: Principal Investigator
- 2019-2020 **Transgender health aging study and registry**
Sponsor: Empire Clinical Research Investigator program (ECRIP), New York State Department of Health
Role: Mentor
- 2017-2020 **Role of resistin in obesity-induced insulin resistance**
Sponsor: Gerald J. and Dorothy R. Friedman New York Foundation for Medical Research, Gerald J. Friedman Diabetes Institute
Role: Principal Investigator
- 2017-2019 **Reproductive effects of irisin**
Sponsor: Gerald J. and Dorothy R. Friedman New York Foundation for Medical Research, Gerald J. Friedman Diabetes Institute
Role: Sub-Investigator
- 2017-2018 **Advanced glycation end-products (AGEs) and cardio-vascular complications in patients with diabetes**
Sponsor: Gerald J. and Dorothy R. Friedman New York Foundation for Medical Research, Gerald J. Friedman Diabetes Institute
Role: Sub-Investigator
- 2017-2019 **Obesity as a multifactorial disease: energy metabolism, insulin resistance, microbiome and endoscopic bariatric intervention in human obesity**
Sponsor: Empire Clinical Research Investigator program (ECRIP), New York State Department of Health
Role: Mentor

Research Involving Human (IRB) and Animal (IACUC) Subjects

- 2025 **Intraoperative parathyroid gland autofluorescence: Identification of an intrinsic fluorophore for optimal infusion-free imaging**
Northwell Health IRB, Study ID: 25-0381-LHH
Role: Co-Investigator
- 2024 **Investigating the impact of irisin on female reproduction and steroid expression in mice**
Northwell Health IRB, Study ID: 24-0397-CCP
Role: PI Designee
- 2023 **Weight and metabolism in transgender people on hormone therapy**
Northwell Health IRB, Study ID: 23-0663-NHPP
Role: Co-Investigator
- 2020 **Multidisciplinary research study to examine cardiovascular and bone density health in transgender individuals**
Northwell Health IRB, Study ID: 20-1106-NHPP

	Role: Co-Investigator
2020	The role of irisin and other cytokines in ovarian physiology Northwell Health IRB, Study ID: 20-0449-NHPP Role: Co-Investigator
2017	Evaluating serum concentrations of advanced glycation end-products as a predictor of coronary artery disease Northwell Health IRB, Study ID: 17-0676-LHH Role: Co-Investigator
2017	Evaluation of the pathophysiological defects in patients with and without irritable bowel syndrome (IBS) and small intestinal bacterial overgrowth (SIBO) Northwell Health IRB, Study ID: 17-0274-LHH Role: Co-Investigator
2016	Role of CAP1 in mediating resistin action in obesity-induced insulin resistance Northwell Health IRB, Study ID: 16-772-LHH Role: Principal Investigator
2016	The effects of structured outpatient diabetes program on the hospital readmission rates in patients with diabetes (SODP-HRAR) Northwell Health IRB, Study ID: HS16-0156-NS Role: Co-Investigator

Professional Service

Committees Roles

2025	Advisory Board Member <i>Kern National Network (KNN)</i> Northwell Health
2025	Selection Committee Member <i>Katz Institute for Women's Health Grant Program</i> Katz Institute for Women's Health, Northwell Health, New Hyde Park, New York
2022-present	Selection Committee Member <i>MD/PhD candidate selection</i> Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hempstead, New York
2021-present	Executive Committee Member <i>Limited Submission Grants</i> Northwell Health, New York
2019-present	Selection Committee Member <i>Summer Research Program 2020</i> Feinstein Institutes for Medical Research, Manhasset, New York
2018-present	Advisory Board Member <i>Elsevier</i>
2016-present	Program Evaluation Committee Member <i>Endocrine Fellowship Program Evaluation Committee (PEC)</i> Lenox Hill Hospital, Northwell Health, New York, New York
2008-2009	Vice President Head of International Committee <i>Johns Hopkins Post-Doctoral Association (JHPDA)</i>

Johns Hopkins University, Baltimore, Maryland

Grant Reviews

- 2025 **Grant Reviewer**
Katz Institute for Women's Health (KIWH) Innovation Grant Program 2025, Northwell Health
- 2024 **Grant Reviewer**
Swiss National Science Foundation
- 2022 **Grant Reviewer**
Limited Submission Grants
Women's Manhasset Coalition Against Breast Cancer (WMCABC), Northwell Health

Leadership and Event Organization

- 2025 **Webinar Organizer and Session Chair**
Webinar: *"Nutrition, adipose tissue, and human health"*
Host: *Nutrients* (MDPI)
May 23rd, 2025, Virtual
<https://sciforum.net/event/Nutrients-20?section=#program>

Conference Reviewing and Judging

- 2025 **Abstract Reviewer**
The Endocrine Society's 107th Annual Meeting & Expo (ENDO) 2025
July 12th-15th, 2025, San Francisco, California
<https://www.endocrine.org/meetings-and-events/endo-2025>
- 2025 **Poster Judge**
2025 Academic Day – Academic Competition and Research Symposium
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell
May 28th, 2025, Hempstead, New York
- 2025 **Abstract and Poster Judge**
WAC Lighting Foundation Invitational Science Fair 2025
Roslyn High School
April 27th, 2025, Roslyn Heights, New York
<https://www.theresearchassociation.org/a-message-from-wac-lighting>
- 2025 **Abstract Judge**
2025 Academic Competition and Research Symposium
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell
May 28th, 2028, Hempstead, New York
- 2025 **Abstract and Presentation Judge**
2025 Meical Marvels Competition
The Feinstein Institutes for Medical Research
February 28th, 2025, Manhasset, New York
<https://feinstein.northwell.edu/medical-marvels>
- 2024 **Abstract Judge**
2024 Academic Competition and Research Symposium
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell
June 5th, 2024, Hempstead, New York
https://academicworks.medicine.hofstra.edu/academic_competition/2024/
- 2024 **Abstract Reviewer**
The Endocrine Society's 106th Annual Meeting & Expo (ENDO) 2024

June 1st-4th, 2024, Boston, Massachusetts
<https://www.endocrine.org/meetings-and-events/endo-2024>

2024

Poster Judge

WAC Lighting Foundation Invitational Science Fair 2024

April 14th, 2024, Syosset High School, Syosset, New York

<https://www.theresearchassociation.org/a-message-from-wac-lighting>

2023

Abstract Reviewer

The Endocrine Society's 105th Annual Meeting & Expo (ENDO) 2023

June 15th-18th, 2023, Chicago, Illinois

<https://www.endocrine.org/meetings-and-events/endo2023>

2023

Abstract Judge

2023 Academic Competition and Research Symposium

Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

May 31st, 2023, Hempstead, New York

https://academicworks.medicine.hofstra.edu/academic_competition/2023

2023

Abstract and Poster Judge

WAC Lighting Foundation Invitational Science Fair 2023

April 23rd, 2023, New York, New York

<https://sites.google.com/view/the-research-association/home>

2022

Abstract Judge

2022 Academic Competition and Research Symposium

Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

June 1st, 2022, Hempstead, New York

https://academicworks.medicine.hofstra.edu/academic_competition/2022/

2022

Poster Judge

The National Spine & Pain Centers (NSPC) Brain & Spine Surgery Health Science Competition

April 2022, Virtual

<https://nspc.com/wp-content/uploads/2023/01/NSPC-Winter-2022-Practice-Newsletter-Approved-Version-31.0.pdf>

2022

Poster Judge

New York State Science and Engineering Fair (NYSSEF) Regeneron Division 2022

March 28th, 2022, New York Hall of Science, New York, New York

<https://www.nyssef.org/>

2022

Abstract Reviewer

The Endocrine Society's 104th Annual Meeting & Expo (ENDO) 2022

June 11th-14th, 2022, Atlanta, Georgia

<https://endo2022.endocrine.org/>

2022

Abstract Judge

WAC Lighting Foundation Invitational Science Fair 2022

April 3rd, 2022, Virtual

<https://waclighting.com/giving-back/>

2021

Abstract Judge

WAC Lighting Foundation Invitational Science Fair 2021

May 2021, Virtual

<https://waclighting.com/giving-back/>

2021

Abstract and Poster Judge

2021 Academic Competition & Research Symposium

Donald and Barbara Zucker School of Medicine at Hofstra/Northwell
 June 2nd, 2021, Virtual
https://academicworks.medicine.hofstra.edu/academic_competition/2021/

2021

Abstract Reviewer

The Endocrine Society's 104th Annual Meeting and Expo (ENDO) 2021

March 20th-23th, 2021, Virtual

<https://www.endocrine.org/meetings-and-events/endo2021/schedule-at-a-glance>

2020

Abstract Judge

2020 Academic Competition & Research Symposium Awards Day: The 55th Annual Academic Competition and The 15th Annual Teachers of the Year

Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

June 3rd, 2020, Virtual

https://academicworks.medicine.hofstra.edu/academic_competition/2020/

2020

Abstract Judge

WAC Lighting Foundation Invitational Science Fair

Jericho High School, Jericho, New York, * *Due to COVID-19 crisis, the event was cancelled.*

2019

Mentor and Poster Judge

Mentoring and Poster Reception, The Endocrine Society's 101st Annual Meeting and Expo (ENDO) 2019

March 24th, 2019, New Orleans, Louisiana

<https://www.endocrine.org/endo/endo2019>

2018

Poster Judge

Mentoring and Poster Reception, The Endocrine Society's 100th Annual Meeting and Expo (ENDO) 2018

March 18th, 2018, Chicago, Illinois

Memberships in Professional Organizations

2024-present	Katz Institute for Women's Health (KIWH)
2022-present	Northwell Health Cancer Institute (NHCI)
2019-present	New York Academy of Sciences (NYAS)
2019-present	International Cytokine & Interferon Society (ICIS)
2018-present	European Society of Human Reproduction and Embryology (ESHRE)
2017-present	American Diabetes Association (ADA)
2012-present	American Association for Cancer Research (AACR)
2008-present	Johns Hopkins Post-Doctoral Association (JHPDA)
2004-present	The Endocrine Society (ENDO)

Teaching Activities**Programs**

2025-present

CCNY DSE Capstone Project/Thesis Class (I9800/I9900)

City College of New York

Role: Mentor

2023-present

Packer's Independent Science Research Program

The Packer Collegiate Institute, Brooklyn, New York

Role: Research Mentor

Description: Research program for 10th-12th grade students from The Packer Collegiate Institute.

<https://www.packer.edu/academics/upper-school/independent-science-research-program>

- 2022 **New York Academy of Sciences Afterschool STEM Mentoring Program (ASMP)**
P.S. 002 Meyer London School, Manhattan, New York
 Role: Science Mentor
 Description: In partnership with the NYC Department of Youth and Community Development (DYCD), this program brings in research fellows, undergraduate, and graduate students, postdocs, transitional scientists, or R&D specialists to teach one-hour sessions twice a week in afterschool sites around New York City.
- 2021-present **Senior Experience Internship Program**
Bergen County Academies (BCA), Hackensack, New Jersey
 Description: Internship program for BCA students.
- 2019-present **Summer Research Program**
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hofstra University, Hempstead, New York
 Role: Mentor
 Description: Summer research elective rotation program for first year medical students.
- 2018-present **Medical Scholars Pipeline Program (MSPP)**
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hofstra University, Hempstead, New York
 Role: Facilitator
 Description: The MSPP provides an educational pathway for underrepresented in medicine (URM) students from the five boroughs of New York City, Nassau County, and Suffolk County, New York to enter the healthcare professions. The MSPP works collaboratively with the Gateway Institute for Pre-College Education at The City College of New York to recruit and support URM students in their higher education goals and pursuit of health careers. The program serves high school students who are rising juniors, rising seniors, and rising college freshmen.
- 2018-present **Endocrinology Basic Science Research Elective**
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hofstra University, Hempstead, New York
 Role: Mentor
 Description: Created an elective course (4276: Endocrinology Basic Science Research) for 4th year medical students at Hofstra University.
- 2017-present **Basic Science Research Rotation**
Lenox Hill Hospital, Northwell Health, New York, New York
 Role: Mentor
 Description: Developed a research rotation for second year medical fellows at the Division of Endocrinology at Lenox Hill Hospital, Northwell Health.
- 2017-present **Feinstein Institutes Summer Intern Program**
The Feinstein Institutes for Medical Research, Manhasset, New York
 Role: Mentor
 Description: Summer research program for high school and college students.
- 2010 **7th Framework Program of the European Union**
Institute of Biology and Immunology of Reproduction, Bulgarian Academy of Sciences, Sofia, Bulgaria
 Role: Lecturer
 Description: Developed and lectured methodological seminar “Quantitative RT-PCR analysis – opportunities, advantages, and uses in reproductive biology” under the 7th Framework Program of the European Union “Unlocking and development the research potential in the EU’s convergence and outermost regions”; Project # FP-7-REGPOT-2009-1.
- 2010-2012 **Bulgarian Academy of Sciences teaching activities**

Institute of Biology and Immunology of Reproduction, Bulgarian Academy of Sciences, Sofia, Bulgaria

Role: Lecturer and Research Associate

Description: Developed various teaching activities under the 7th Framework Program of the European Union “Unlocking and development the research potential in the EU’s convergence and outermost regions”; Project: “Reinforcement of the research capacity of the Bulgarian Institute of Biology and Immunology of Reproduction”; Project # FP-7-REGPOT-2009-1.

1999-2004

Teacher in Biology and Chemistry

Professional Technical High School of Electronics “John Atanasoff”, Sofia, Bulgaria

Role: Teacher

Description: Taught Biology and Chemistry classes to 8th, 9th, 10th, and 11th grade students.

PhD Dissertations Reviewer/Independent Expert Opinion

2025

Julia Ilievna

PhD Dissertation Title: “Role of Autophagy and Inflammasome Pathways in Endothelial Damage Triggered by Extracellular DNA Traps”

Laboratory of OMICS Technologies, Institute of Biology and Immunology of Reproduction, Bulgarian Academy of Sciences, Sofia, Bulgaria

MSc Thesis Defense Committee Member

2023

Sara Velichkovikj

Department of Biology, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, North Macedonia

2022

Radoslav Stojchevski

Department of Biology, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, North Macedonia

Mentorship

Friedman Diabetes Institute at Lenox Hill Hospital

08/2025-09/2025
04/2025

Artjola Meli, CCNY DSE Capstone Project/Thesis Class (I9800 / I9900), City College of New York
Rachel Josselson, MD/PhD Student, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hempstead, New York

03/2025-present
10/2024-05/2025
11/2024-05/2025

Anabel Carcía Corral, MD, Feinstein Institutes Visiting Scientist, Manhasset, New York
Edward Sutanto, Feinstein Institutes Summer Visiting Scholar, Manhasset, New York
Lilly Kisseur, Feinstein Institute Summer Intern, The Packer’s Collegiate Institute, Brooklyn, New York

07/2024-08/2024

Ellis Rosenberg, Feinstein Institutes Summer Intern, Portledge High School, Locust Valley, New York

05/2024-06/2024
01/2024-08/2024

Elitsa Pavlova, PhD, Fulbright Scholar, Sofia University, Sofia, Bulgaria
Lilly Kisseur, Feinstein Institute Summer Intern, The Packer’s Collegiate Institute, Brooklyn, New York

08/2023-09/2023
08/2023-09/2023
07/2023-08/2023
06/2023-08/2023
09/2022-07/2023
07/2022-08/2023
07/2022-08/2022

Isabella Sabato, MD, Medical Student Rotation
Shivali Devjani, MD, Medical Student Rotation
David Abelev, Volunteer, Hewlett High School, Hewlett, New York
Erin Yim, Feinstein Institutes Summer Intern; Cornell University, Ithaca, New York
Aaron Lavi, Brooklyn College, New York, New York
Lizi Tedorashvili, Hunter College, New York, New York
Udithi Kothapalli, Feinstein Institutes Summer Visiting Scholar, Carnegie Mellon University, Pittsburgh, Pennsylvania

07/2022-08/2022	Ethan Abelev , Feinstein Institutes Summer Visiting Scholar, Geroge W. Hewlett High School, Hewlett, New York
07/2022-08/2022	Bianca Cinquemani , Feinstein Institutes Summer Visiting Scholar, Manhasset High School, Manhasset, New York
02/2022	Paria Zarghamravanbakhsh, MD , Endocrinology Fellow, Friedman Diabetes Institute, Lenox Hill Hospital, New York, New York
10/2021	Dmitri Zbarsky, MD , Visiting Scholar, Tel Aviv Sourasky Medical Center-Ichilov, Tel Aviv, Israel
09/2021-05/2022	Harnoor Sachar , Intern, Bergen County Academies Senior Experience Program, Bergen County Academies (BCA), Hackensack, New Jersey
08/2021-12/2021	Elitsa Pavlova, PhD , Fulbright Scholar, Sofia University, Sofia, Bulgaria
07/2021-08/2021	Hannah Son , Visiting Scholar, College of Human Ecology, Cornell University, Ithaca, New York
07/2021-08/2021	Ethan Abelev , Visiting Scholar, George W. Hewlett High School, Hewlett, New York
07/2021-08/2021	Khaled Alqahtani , Feinstein Institute Summer Intern, College of Letters and Sciences, UC Berkeley, Berkeley, California
04/2021	Swetha Murthi, MD , Fellow, Friedman Diabetes Institute at Lenox Hill Hospital, Northwell Health, New York, New York
11/2020-present	Radoslav Stojchevski, BSc , Friedman Fellow, Division of Endocrinology, Lenox Hill Hospital, Northwell Health, New York, New York; Ss. Cyril and Methodius University, Skopje, North Macedonia
11/2020	Micheal Frenkel, BSc , Tufts University, Medford, Massachusetts
11/2020 (program canceled)	Renee Murray-Bachmann, EdD, MSN, CDN, RN, CDE, CPT , Northwell Health, New York, New York
(program cancelled)	Madison Fraser , Hofstra Summer Program, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hempstead, New York – Student accepted but Hofstra Summer Program-2020 was cancelled due to the COVID-19 crisis
(program canceled)	Udithi Kothapalli , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; Sophomore at St. Anthony's High School, South Huntington, New York; current position: student at Carnegie Mellon University – Student accepted but Hofstra Summer Program-2020 was cancelled due to the COVID-19 crisis
(program canceled)	Khaled Alqahtani , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; College of Letters and Sciences, UC Berkeley, Berkeley, California – Student accepted but Hofstra Summer Program-2020 was cancelled due to the COVID-19 crisis
(program canceled)	Marin Yamaguchi , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; The Birch Wathen Lenox School, New York, New York – Student accepted but Hofstra Summer Program-2020 was cancelled due to the COVID-19 crisis
06/2019-08/2019	Udithi Kothapalli , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, NY; Sophomore at St. Anthony's High School, South Huntington, New York; current position: student at Carnegie Mellon University
06/2019-08/2019	Leo Satlof , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; Ethical Culture Fieldston School, New York, New York; currently a student at Emory University College of Arts and Sciences
06/2019-08/2019	Noah Ziluck , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; Irvington High School, Irvington, New York
06/2019-08/2019	Maribel Lema , Hofstra Summer Program, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hempstead, New York
05/2019-06/2019	Damian Inlall , Clinical Research Supervisor at Gerald J. Friedman Diabetes Institute at Lenox Hill Hospital, Northwell Health, New York, New York
09/2018-09/2019	Karin Chen, MD , New York State Department of Health Empire Clinical Research Investigator Program (ECRIP) Fellow; Gerald J. Friedman Diabetes Institute, New York, New York
07/2018-08/2018	Aaron B. Lavi , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; North Shore Hebrew Academy Middle School, Great Neck, New York; currently a student at Brooklyn College, Brooklyn, New York
06/2018-10/2018	Rebecca Jonas, MD , Lenox Hill Hospital, Northwell Health, New York, New York

06/2018-08/2018	Leo Satlof , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; Sophomore at Ethical Culture Fieldston School, New York, New York
05/2018-07/2018	Kajol Bahl, BSc , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; Binghamton University, State University of New York, New York, New York
05/2018-07/2018	Melanie Kaiser, BA , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; Case Western Reserve University, Cleveland, Ohio
05/2018-10/2018	Daniel K. Weber , Visiting Scholar, Feinstein Summer Research Program, Feinstein Institutes for Medical Research, Manhasset, New York; Torah Academy of Bergen County, Teaneck, New Jersey; currently a student at Johns Hopkins University, Baltimore, Maryland
06/2018-08/2018	Awlad Bhuiyan, BSc , Visiting Scholar, Ross University School of Medicine, Portsmouth, Dominica
02/2018-08/2018	Mikail J. Koroma, MD , New York State Department of Health Empire Clinical Research Investigator Program (ECRIP) Fellow; Gerald J. Friedman Diabetes Institute, New York, New York; Georgetown University, Washington, District of Columbia
09/2017-04/2018	Beatriz C. Caraballo, MD , Visiting Scientist, University of Carabobo, Maracay, Venezuela
09/2017-03/2018	Priyanthan Thangeswaran, MD , Visiting Scholar, Tianjin Medical University, Tianjin, China
08/2017	Sahej Chohan , Medical Pipeline High School Student, Thomas A. Edison Career and Technical Education High School, Jamaica, New York
07/2017-08/2017	Sela Marin , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; Columbia Grammar and Preparatory School, New York, New York; currently a student at Johns Hopkins University, Baltimore, Maryland
07/2017-08-2017	Aaron B. Lavi , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; North Shore Hebrew Academy High School, Great Neck, New York; currently a student at Brooklyn College, Brooklyn, New York
07/2017-08/2017	Julianna Bianco , Visiting Scholar, Feinstein Summer Intern Program, Feinstein Institutes for Medical Research, Manhasset, New York; Syosset High School, Syosset, New York
05/2017-08/2017	Christopher Ronca, BSc , Visiting Scholar, Columbia University, New York, New York
05/2017-06/2017	Miroslava Varadinova, MD , Visiting Scholar, Medical University – Sofia, Sofia, Bulgaria
02/2017-02/2018	Anabel Garcia Corral , Gerald J. Friedman Research Fellow, Universidad Del Valle de Mexico, Hermosillo, Sonora, Mexico
12/2016-07/2017	Valeriia M. Shnyder, MD , Visiting Scientist, St. Petersburg First Pavlov State Medical University, St. Petersburg, Russia

Johns Hopkins University

2015	Brian Meyers , Summer Student, CMM Program, Johns Hopkins University, Baltimore, Maryland
2014	Brandi Temple , Summer Student, Summer Internship Program at Xavier University of Louisiana, New Orleans, Louisiana
2014	Yailleen D. Guzman Avocho , Summer Student, CUPID Summer Fellowship Program at University of Puerto Rico, San Juan, Puerto Rico
2013	Timothy Tiutan , Summer Student, CUPID Summer Student Research Program at University of Arizona College of Medicine, Tucson, Arizona
2013	Maran Palaniappan , Summer Student, Johns Hopkins University, Baltimore, Maryland
2013	Kabir Chhabra , Summer Student, Johns Hopkins University, Baltimore, Maryland
2011	Estefania Zapata-Rodriguez , Summer Student, STEPUP Program, NIDDK, University of Puerto Rico, Mayagüez, Puerto Rico

Beth Israel Medical Center

2004-2008	Training of research fellows, residents, and summer research students in the Endocrinology Research Laboratory at Beth Israel Medical Center, Albert Einstein College of Medicine, New York, New York
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Editorial Activities

Editor Positions

- 2024-present **Associate Editor**
Discover Oncology (Springer Nature)
<https://link.springer.com/journal/12672/editorial-board>
- 2020-present **Associate Editor**
BMC Endocrine Disorders (BMC/Springer Nature)
<https://bmccendocrdisord.biomedcentral.com/about/editorial-board>
- 2018-present **Associate Editor**
Molecular Medicine (BMC/Springer Nature)
<https://molmed.biomedcentral.com/about/editorial-board>
- 2022-present **Review Editor**
Frontiers in Oncology (Frontiers)
 Specialty Section: "Molecular and Cellular Oncology"
<https://loop.frontiersin.org/people/498054/overview>
- 2018-2020 **Handling Editor**
Annals of Medical and Clinical Oncology (Gavin Publishers)

Guest Editor Positions

- 2025-present **Guest Editor**
Frontiers of Oncology (Frontiers)
 Section "Breast Cancer", Article Collection "Cytokine Signaling Dynamics in Breast Cancer: From Tumor Initiation to Progression and Therapy Resistance"
- 2025-present **Guest Editor**
Academia Oncology (Academia)
 Section "Cancer Epidemiology and Prevention", Special Issue: "The Metabolic Roots of Cancer: Intersections of Obesity, Diabetes, and Tumorigenesis"
<https://www.academia.edu/journals/academia-oncology/special-issues/1091/The-Metabolic-Roots-of-Cancer-Intersections-of-Obesity-Diabetes-and-Tumorigenesis>
- 2025-present **Topic Editor**
Frontiers in Immunology (Frontiers)
 Research Topic: "Autophagy-Mediated Immune System Regulation in the Reproductive System"
 Co-Editors: Soren Hayrabedian, Eytan Barnea
<https://www.frontiersin.org/research-topics/68486/autophagy-mediated-immune-system-regulation-in-the-reproductive-system>
- 2024-present **Guest Editor**
International Journal of Molecular Sciences (MDPI)
 Special Issue: "Lipidomics and Lipid Metabolism in Health and Disease"
https://www.mdpi.com/journal/ijms/special_issues/R9X9EQJI7Q
- 2024-present **Guest Editor**
Nutrients (MDPI)
 Special Issue: "Nutrition, Adipose Tissue, and Human Health"
https://www.mdpi.com/journal/nutrients/special_issues/FYL5I7DXH6
- 2023-2024 **Guest Editor**
Molecular Medicine (BMC, Springer Nature)
 Article Collection: "Evolutionary Aspects of Metabolic Diseases"
<https://www.biomedcentral.com/collections/EAMDMOME>

2023-present	Guest Editor <i>Cancers</i> (MDPI) Article collection: “Multi-Omics Analysis in the Study of Carcinogenesis” https://www.mdpi.com/journal/cancers/special_issues/3TIGPKAAEE
2023-2024	Guest Editor <i>Frontiers in Oncology</i> (Frontiers) Research Topic: “Cytokines, Inflammation, and Cancer”
2023-2024	Guest Editor <i>Cancers</i> (MDPI) Special issue: “Overcoming Drug Resistance to Systemic Therapy in Breast Cancer” Co-Editor: Nethaji Muniraj https://www.mdpi.com/journal/cancers/special_issues/W437V6974H
2022-2023	Guest Editor <i>Cancers</i> (MDPI) Special issue: “Polyphenols in Cancer Treatment” Co-Editors: Sonali Sengupta, Marcos Roberto de Oliveira https://www.mdpi.com/journal/cancers/special_issues/5IV9YG3YI8
2022-2023	Guest Editor <i>Life</i> (MDPI) Special issue: “Connections Among Obesity, Diabetes, Steroidogenesis, and Carcinogenesis” https://www.mdpi.com/journal/life/special_issues/884SRVS13P
2022-present	Guest Editor <i>BMC Endocrine Disorders</i> (BMC/Springer Nature) Article collection: “Cellular and Molecular Therapies and Mechanisms of Endocrine Disorders” Co-Editor: Ramkumar Mohan https://www.biomedcentral.com/collections/CMTMED
2020	Guest Editor <i>Journal of Visualized Experiments</i> (JoVE) Methods Collection “Methods in Endocrine Metabolism” Co-Editors: Sumit Sidhharth, Nethaji Muniraj https://www.jove.com/methods-collections/731
2018	Section Editor <i>Journal of Food Science and Nutrition Research</i> (Fortune Journals)

Editorial Board Positions

2025-present	Editorial Board Member <i>Academia Oncology</i> (Academia) https://www.academia.edu/journals/academia-oncology/about/editorial-board
2024-present	Editorial Board Member <i>Discover Oncology</i> (Springer Nature) https://link.springer.com/journal/12672/editorial-board
2024-present	Editorial Board Member <i>Scientific Reports</i> (Elsevier) https://www.nature.com/srep/about/editors
2024-present	Editorial Board Member <i>Biomedical Reports</i> (Spandidos Publications)
2024-present	Topical Advisory Panel Member

International Journal of Molecular Sciences (MDPI)
https://www.mdpi.com/journal/ijms/topical_advisory_panel?search=avtanski

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| 2022-present | Editorial Board Member
<i>Frontiers in Oncology</i> (Frontiers) |
| 2021-present | Editorial Team Member
<i>Cancer Diagnosis and Treatment</i> (SciMedicine)
https://scimedjournal.org/index.php/SMJ/about/editorialTeam |
| 2021-present | Topical Advisory Panel Member
<i>Cancers</i> (MDPI)
https://www.mdpi.com/journal/cancers/topic_editors |
| 2020-present | Editorial Board Member
<i>European Journal of Experimental Biology</i> (Insight Medical Publishing)
https://www.imedpub.com/european-journal-of-experimental-biology/editors.php |
| 2020-present | Editorial Board Member
<i>Microorganisms</i> (MDPI) |
| 2020-present | Editorial Board Member
<i>SciMedicine Journal</i> (ITAL Publication) |
| 2020-present | Editorial Board Member
<i>Biomedical Reports</i> (Spandidos Publications) |
| 2020-present | Editorial Board Member
<i>Endocrine Disorders</i> (BMC, Springer Nature) |
| 2020-present | Editorial Board Member
<i>Healthcare</i> (MDPI) |
| 2018-present | Editorial Board Member
<i>International Journal of Clinical Oncology and Cancer Research</i> (Science Publishing Group) |
| 2018-present | Editorial Board Member
<i>Molecular Medicine Letters</i> (Gratis Open Access Publishers) |
| 2018-present | Editorial Board Member
<i>World Journal of Diabetes</i> (Baishideng Publishing Group) |

Editor Assignments

Total number:	783
Number of journals:	9
List of journals:	<i>Molecular Medicine</i> (BMC Springer Nature) <i>BMC Endocrine Disorders</i> (BMC Springer Nature) <i>Discover Oncology</i> (BMC Springer Nature) <i>Cancers</i> (MDPI) <i>Life</i> (MDPI) <i>Nutrients</i> (MDPI) <i>Journal of Diabetes and Clinical Research</i> (Scientific Archives LLC) <i>Journal of Food Science and Nutrition Research</i> (Fortune Journals) <i>Annals of Medical and Clinical Oncology</i> (Gavin Publishers)

Journal Peer Reviews

Total number:	600+
Number of journals:	82
List of journals:	<i>Oncogene</i> (Nature Publishing Group), IF (2014): 8.459

Cancer Letters (Elsevier), IF (2019): 7.360
Oncotarget (Impact Journals LLC), IF (2014): 6.359
Metabolism, Clinical and Experimental (Elsevier), IF (2017): 5.777
Molecular Medicine (The Feinstein Institute for Medical Research), IF (2013): 4.824
Journal of Endocrinology (Bioscientifica Ltd.): 4.041
Endocrine (Springer Nature), IF (2014): 3.878
Nutrition, Metabolism & Cardiovascular Diseases (Elsevier), IF (2015/2016): 3.630
Journal of Pharmacy and Pharmacology (Wiley-Blackwell, Royal Pharmaceutical Society of Great Britain), IF (2014): 2.264
Bioelectronic Medicine (Springer Nature)
Cell Biology and Toxicology (Springer Nature)
Biomedicine & Pharmacotherapy (Elsevier)
Cells (MDPI)
Cardiovascular & Hematological Disorders – Drug Targets (Bentham Science)
Current Nanomaterials (Bentham Science)
Endocrine, Metabolic & Immune Disorders – Drug Targets (Bentham Science), IF (2017): 1.897
World Journal of Diabetes (Baishideng Publishing Group)
International Journal of Plant Biology & Research (JSciMed Central)
Advances in Environmental Studies (Scholarity Pages)
Current Bioactive Compounds (Bentham Science)
International Journal of Women's Health and Wellness (ClinMed International Library)
World Journal of Clinical Cases (Baishideng Publishing Group)
Medical Science Monitor (International Scientific Information)
Current Drug Delivery (Bentham Science Publishing)
Biomedical and Pharmacology Journal (Oriental Scientific Publishing Company)
Current Bioactive Compounds (Bentham Science Publishers)
Oncology Letters (Spandidos Publications)
Nutrients (MDPI)
Endocrine, Metabolic & Immune Disorders–Drug Targets (Bentham Science Publishers)
International Journal of Molecular Sciences (MDPI), IF (2018) = 4.183
Cancer Management and Research (Dove Medical Press Ltd.)
International Journal of Diabetes and Clinical Research
International Journal of Plant Biology & Research (JSciMed Central)
Molecular Medicine Reports (Spandidos Publications)
World Journal of Stem Cells (Baishideng Publishing Group)
3 Biotech (SpringerOpen)
Archives of Microbiology (Springer Nature)
Cancers (MDPI)
Experimental and Therapeutic Medicine (Spandidos Publications)
Inorganic Chemistry Communications (Elsevier)
Journal of Basic Microbiology (Wiley)
Journal of Cancer (Ivyspring International Publisher)
Journal of Cancer Treatment & Diagnosis
Molecular and Clinical Oncology (Spandidos Publications)
OncoTargets and Therapy (Dove Medical Press Ltd.)
Open Biology (The Royal Society)
World Journal of Clinical Oncology
Aging (Impact Journals LLC)
American Journal of Case Reports (International Scientific Information)
Annals of Gynecology and Obstetrics
Biomolecules (MDPI)
Cancer Biomarkers (IOS Press)
Cancer Research and Cellular Therapeutics

Clinical Oncology Research and Reports
Clinical Research: Open Access
Frontiers in Oncology (Frontiers)
International Journal of Cancer (Wiley)
International Journal of Environmental Research and Public Health (MDPI)
International Journal of Experimental Pathology (Wiley)
International Journal of Oncology (Spandidos Publications)
International Journal of Women's Health and Wellness (ClinMed International Library)
Journal of Cancer Research and Therapeutics (Medknow Publications)
Journal of Cancer Science and Research (OMICS Publishing Group)
Journal of Clinical Case Studies
Journal of Clinical Medicine (MDPI)
Journal of Food Science and Nutrition (Herald Open Access)
Journal of Investigative Medicine (BMJ Publishing Group)
Journal of Network Medicine and Targeted Therapies
Journal of Pharmacy and Pharmacology (Wiley)
Mini-Reviews in Medicinal Chemistry (Bentham Science Publishers)
Oncology Reports (Spandidos Publications)
World Journal of Cardiology (Baishideng Publishing Group)
World Journal of Gastroenterology (Baishideng Publishing Group)
World Journal of Meta-analysis
Current Research in Nutrition and Food Science
Etc.

Book Chapter Peer Reviews

Total number: 1
 2020 Regulation of the menstrual cycle. In *Understanding, managing and treating female infertility with Chinese medicine*, STEMIO eBooks

Company Reviews

Total number: 1
 2017 Diagrams review: *Contribution of soluble factors to EMT*
 Cell Signaling Biotechnology, Danvers, Massachusetts
<https://www.cellsignal.com/contents/science-cst-pathways-stem-cell-markers/contribution-of-soluble-factors-to-emt-interactive-signaling-pathway/pathways-emt-soluble-factors>

Recognitions and Awards

2025 **Highly Viewed Papers**
 Articles: *"Exploring the Genetic Orchestra of Cancer: The Interplay Between Oncogenes and Tumor-Suppressor Genes"* and *"Translational Advances in Oncogene and Tumor-Suppressor Gene Research"*
Cancers, MDPI
<https://www.mdpi.com/journal/cancers/announcements/13628>

2025 **Springer Nature Author Service Award 2025**
Molecular Medicine

2025 **Springer Nature Editorial Contribution Award 2025**
Molecular Medicine

2025 **Springer Nature Editorial Contribution Award 2025**
BMC Endocrine Disorders

- 2025 **Top View Papers 2024 List**
Article "*Adipose Tissue Dysfunction Related to Climate Change and Air Pollution: Understanding the Metabolic Consequences*" selected as the Top View Papers of International Journal of Molecular Sciences (IJMS) (MDPI) in 2024
- 2024 **Recognized Abstract**
Abstract qualified for the Presidential Poster Competition
The Endocrine Society's 106th Annual Meeting & Expo (ENDO) 2024
June 1st-4th, 2024, Boston, Massachusetts
- 2024 **Top 10 Downloaded Pre-Print Article**
Pre-print article: "*C66 and B2BrBC modulate oxidative stress, Jnk activity, and pancreatic gene expression in rats with streptozotocin-induced diabetes*"
Social Science Research Network (SSRN)
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4653989
- 2022 **Top Downloaded Article**
One of the most downloaded articles during its first 12 months of publication
Wiley
- 2020 **Outstanding Editorial Board**
World Journal of Diabetes (BPG)
- 2020 **Recognized Reviewer**
Cancer Letters (Elsevier)
- 2020 **Recognized Reviewer**
Biomedicine and Pharmacotherapy (Elsevier)
- 2020 **One of the most well-cited articles of the last two years**
Molecular Medicine (BMC Springer Nature)
- 2020 **Reviewer of the Quarter** (Second Quarter of 2020)
Molecular Medicine (BMC Springer Nature)
<https://molmed.biomedcentral.com/about/rotq>
- 2020 **Best Reviewer of the Month** (June 2020)
Biomedical and Pharmacology Journal (Oriental Scientific Pub. Co.)
- 2020 **Excellent Contribution Recognition**
Current Research in Nutrition and Food Science j (Enviro Research Publishers)
- 2020 **Most Active Reviewer in the research field "*Biochemistry & Molecular Biology*" on Publons**
Ranked position #1 (among 21,948 researchers) for the number of peer reviews performed for the last 12 months in the research field "*Biochemistry & Molecular Biology*"
Publons
- 2020 **Outstanding Reviewer**
Biomedical and Pharmacology Journal (Oriental Scientific Pub. Co.)
- 2020 **Excellence in Reviewing Award**
International Journal of Oncology (Spandidos Publications)
- 2019 **Michael Kors, Inc. Research Innovations Grant Award**
Awarded \$15,000 for project "*Role of inflammatory cytokines in affecting the outcome from in vitro fertilization procedure*"
Katz Institute for Women's Health, Northwell Health, New Hyde Park, New York
- 2019 **Top 1% Peer Reviewer Awards**

Awarded for top 1% of reviewers in categories “Clinical Medicine” and “Cross-Field” on Publons global reviewer database, Web of Science Group
Publons

- 2019 **Recognized Reviewer Award**
Inorganic Chemistry Communications (Elsevier)
- 2019 **First Place Poster Award**
6th Evening of Research, 2nd Annual Poster & Podium Presentations
Lenox Hill Hospital, Northwell Health
 May 15th, 2019, New York, New York
- 2019 **Grant Proposal Selection**
 The project proposal “*Role of hypoxia in modulating cytokine secretion in breast cancer cells*” selected to be the official Northwell Health grant proposal Mary Kay Foundation
Northwell Health, New York
- 2019 **Grant Proposal Selection**
 The project proposal “*Mechanism of resistin-induced metastasis in breast cancer*” selected to be the official Northwell Health grant proposal to Manhasset Women’s Coalition Against Breast Cancer
Northwell Health, New York
- 2018 **Outstanding Contribution in Reviewing Award**
Biomedicine & Pharmacotherapy (Elsevier)
- 2018 **Outstanding Contribution in Reviewing Award**
Metabolism (Elsevier)
- 2018 **Top 1% Peer Reviewer Award**
 Awarded for top 1% in the field “*Biology & Biochemistry*” on Publons global reviewer database, Web of Science Group
Publons
- 2018 **Recognized Reviewer Award**
Biomedicine & Pharmacotherapy (Elsevier)
- 2018 **Student award**
 Student Aaron Lavi was awarded third place in Biology at *SAAWA Science Fair*
 Nassau County, New York
- 2018 **Student award**
 Student Aaron Lavi was recognized with high honors, Senior Division
Long Island Science Congress, STANYS
 New York, New York
- 2018 **Highly Influential Article Recognition**
 The article “*Both estrogen receptor alpha and beta stimulate pituitary GH gene expression*” included in the Highly Influential Expert database (BPG)
- 2018 **Poster Recognition**
 Abstract “*Resistin increases breast cancer metastatic potential by inducing epithelial to mesenchymal transition and stemness*” selected for poster presentation at Northwell Health 2018 Academic Awards Day
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hempstead, New York
- 2018 **Poster Recognition**
 Poster “*Resistin increases breast cancer cell motility and induces cellular mesenchymal reprogramming*” selected for inclusion in a moderated poster session (Abstract # SAT-329)

*The Endocrine Society's 100th Annual Meeting & Expo (ENDO) 2018*March 17th-20th, 2018, Chicago, Illinois

2018

Grant Proposal Selection

The project proposal *"Role of resistin in mediating obesity-induced breast cancer progression"* selected to be the official Northwell Health grant proposal to Mary Kay Foundation Northwell Health, New York

2017

Outstanding Reviewer Award*Nutrition, Metabolism and Cardiovascular Diseases* (Elsevier)

2017

Recognized Reviewer Award*Nutrition, Metabolism and Cardiovascular Diseases* (Elsevier)

2017

Recognized Reviewer Award*Metabolism* (Elsevier)

2017

First Place Abstract Award

Awarded \$3,000 at the 3rd Lenox Hill Evening of Research
The Auxiliary of Lenox Hill Hospital, New York, New York

2017

Poster Recognition

Abstract *"Plasma levels of resistin correlate with adenylyl cyclase-associated protein 1 (CAP1) in diet-induced obesity mouse model"* selected for presentation
2017 Rachmiel Levine-Arthur Riggs Diabetes Research Symposium
March 28th-31st, 2017, Orlando, Florida, USA

2016

Outstanding Reviewer Award*Metabolism* (Elsevier)

2016

Top 100 Peer Reviewers Award

Awarded for Top 100 peer reviewers in category *"Biochemistry, Genetics and Molecular Biology"* on Publons global reviewer database, Web of Science Group
Publons

2010

Photography Award

Award winner and photograph work publication, *National Geographic* magazine (USA), *Daily Dozen* award for the photography *"Fishermen in the Gulf of Mexico"*
National Geographic Magazine, February 9th, 2010

2004-2008

Fellowship Award*Thanks To Scandinavia Foundation*, New York, New York**Citation Indices****Google Scholar**

Citation Indices	All	Last 5 years
Citations	1,573	958
h-index	19	16
i10-index	32	29

Publications**Books**

1. **Avtanski D** (Editor). Adipose tissue: Endocrine functions, health implications, and future perspectives. Contemporary Endocrinology. *Springer, Cham*, 2024. DOI: <https://doi.org/10.1007/978-3-031-72570-8>; ISSN: 2523-3785; ISSN (electronic): 2523-3793; ISBN: 978-3-031-72569-2; ISBN (eBook): 978-3-031-72570-8
2. **Avtanski D**, Poretsky L (Editors). Obesity, diabetes and inflammation. Molecular Mechanisms and Clinical Management. Contemporary Endocrinology. *Springer, Cham*, 2023. DOI: <https://doi.org/10.1007/978-3-031-39721-9>; ISSN: 2523-3785; ISSN (electronic): 2523-3797; ISBN (hardcover): 978-3-031-39720-2; ISBN (softcover): 978-3-031-39723-3; ISBN (eBook): 978-3-031-39721-9

Research Publications

1. (manuscript in review) Stojchevski R, Velichkovikj S, Bogdanov J, Dragarska K, Todorovska I, Hadzi-Petrushev N, Mladenov M, Poretsky L, **Avtanski D**. Assessment of the anticancer and antimetastatic effects of monocarbonyl analogs of curcumin, C66 and B2BrBC, in breast cancer cells. Submitted in *Cancer Cell International*
2. (manuscript in review) Kochakzade M, Karami E, Karla P, Isenberg JS, Leung TM, Davarzani R, **Avtanski D**, Salehian B. Optical sensing with artificial intelligence for non-invasive glucose measurement: A clinical study. Submitted in *Frontiers in Endocrinology*
3. Stojchevski R, Velichkovikj S, Bogdanov J, Hadzi-Petrushev N, Mladenov M, Poretsky L, **Avtanski D**. Monocarbonyl analogs of curcumin C66 and B2BrBC modulate oxidative stress, Jnk activity, and pancreatic gene expression in rats with streptozotocin-induced diabetes. *Biomedical Pharmacology*, 2024, 229:116491. DOI: <https://doi.org/10.1016/j.bcp.2024.116491>; Preprint: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4653989
4. Stojchevski R, Velichkovikj S, Bogdanov J, Hadzi-Petrushev N, Mladenov M, Poretsky L, **Avtanski D**. Impact of monocarbonyl analogs of curcumin (MACs) C66 and B2BrBC on the expression of diabetes-related genes in streptozotocin-treated rat pancreatic RIN-m cells – Quantitative RT-PCR array data. *Data Brief.*, 2024, 57:110952. DOI: <https://doi.org/10.1016/j.dib.2024.110952>
5. Reçica S, Kryeziu I, Thaçi Q, **Avtanski D**, Mladenov M, Basholli-Salihi M, Sopi RB. Protective effects of resveratrol against airway hyperreactivity, oxidative stress, and lung inflammation in a rat pup model of bronchopulmonary dysplasia. *Physiological Research*, 2024, 73:239-251. DOI: <https://doi.org/10.33549/physiolres.935239>
6. Pavlova E, Stojchevski R, **Avtanski D**. The effect of resistin on the redox state of breast cancer. *Journal of Cancer Research and Clinical Oncology*, 2024, 150(1):24. DOI: <https://doi.org/10.1007/s00432-023-05556-7>
7. Poretsky L, Yeshua A, Cantor T, **Avtanski D**, Stojchevski, Ziskovich K, Singer T. The effects of irisin and leptin on steroidogenic enzyme gene expression in human granulosa cells: *in vitro* studies. *Metabolism Open*, 2023, 100230. DOI: <https://doi.org/10.1016/j.metop.2023.100230>
8. Angelovski M, Hadzi-Petrushev N, Atanasov D, Nikodinovski A, Mitrokhin V, **Avtanski DB**, Mladenov M. Protective effects of L-2-oxothiazolidine-4-carboxylate during isoproterenol-induced myocardial infarction in rats: *In vivo* study. *Life (Basel)*, 2022, 12(10):1466. DOI: <https://doi.org/10.3390/life12101466>
9. Stojchevski R, Singer T, Ziskovich K, Poretsky L, **Avtanski D**. *In vitro* treatment of human granulosa cells with irisin and leptin: Quantitative RT-PCR array data (female infertility panel). *Data Brief.*, 2022, 40:107781. DOI: <https://doi.org/10.1016/j.dib.2021.107781>
10. Nagalingam A, Siddharth S, Parida S, Muniraj N, **Avtanski D**, Kuppusamy P, Elsey J, Arbiser JL, Györfy B, Saxena N, Sharma D. Hyperleptinemia in obese state renders luminal breast cancers refractory to tamoxifen by coordinating a crosstalk between Med1, miR205 and ErbB. *NPJ Breast Cancer*, 2022, 7(1):105. DOI: <https://doi.org/10.1038/s41523-021-00314-9>
11. Basman C, **Avtanski D**, Fishman S, Rashid U, Kodra A, Chen K, Jonas R, Stoffels G, Lesser M, Inlall D, Ziskovich K, Singh V, Poretsky L. Glycosylated hemoglobin, but not advanced glycation end-products, predicts severity of coronary artery disease in patients with or without diabetes. *Metabolism Open*, 2020, 7:100050. DOI: <https://doi.org/10.1016/j.metop.2020.100050>
12. Chen K, Satlof L, Stoffels G, Kothapalli U, Ziluck N, Lema M, Poretsky L, **Avtanski D**. Cytokine secretion in breast cancer cells–MILLIPLEX assay data. *Data Brief.*, 2020, 28:104798. DOI: <https://doi.org/10.1016/j.dib.2019.104798>
13. **Avtanski D**, Pavlov VA, Tracey KJ, Poretsky L. Characterization of inflammation and insulin resistance in high-fat diet-induced C57Bl/6J mouse model of obesity. *Animal Model Exp Med*, 2019, 2:252-258. DOI: <https://doi.org/10.1002/ame2.12084>

14. **Avtanski D**, Garcia A, Caraballo B, Thangeswaran P, Marin S, Bianco J, Lavi A, Poretsky L. *In vitro* effects of resistin on epithelial to mesenchymal transition (EMT) in MCF-7 and MDA-MB-231 breast cancer cells—qRT-PCR and Western blot analyses data. *Data Brief*, 2019, 25:104118. DOI: <https://doi.org/10.1016/j.dib.2019.104118>
15. **Avtanski D**, Chen K, Poretsky L. Resistin and adenylyl cyclase-associated protein 1 (CAP1) regulate the expression of genes related to insulin resistance in BNL CL.2 mouse liver cells. *Data Brief*, 2019, 25:104112. DOI: <https://doi.org/10.1016/j.dib.2019.104112>
16. **Avtanski D**, Garcia A, Caraballo B, Thangeswaran P, Marin S, Bianco J, Lavi A, Poretsky L. Resistin induces breast cancer cells epithelial to mesenchymal transition (EMT) and stemness through both adenylyl cyclase-associated protein 1 (CAP1)-dependent and CAP1-independent mechanisms. *Cytokine*, 2019, 120:155-164. DOI: <https://doi.org/10.1016/J.CYTO.2019.04.016>
17. Seto-Young D, **Avtanski D**, So-Young K, Sy V, Liao E, Liu G, Wan S, Lesser M, Poretsky L. Insulin-like growth factor (IGF)-I, IGF-binding protein (IGFBP)-1, and fibroblast growth factor (FGF) 21 serum levels in Chinese women with and without gestational diabetes. *Clinical Obstetrics, Gynecology and Reproductive Medicine*, 2017, **3(5)**:1-4. DOI: <https://doi.org/10.15761/COGRM.1000194>
18. Sonmez H, Kambo V, **Avtanski D**, Lutsky L, Poretsky L. The readmission rates in patients with *versus* those without diabetes mellitus at an urban teaching hospital. *J Diabetes Complications*, 2017, 31(12):1681-1685. DOI: <https://doi.org/10.1016/j.diabcomp.2017.07.006>
19. Poretsky L, Islam J, **Avtanski D**, Lin YK, Shen YL, Hirth Y, Lesser M, Rosenwaks Z, Seto-Young D. Reproductive effects of irisin: Initial *in vitro* studies. *Reprod Biol*, 2017, 17:285-288. DOI: <https://doi.org/10.1016/j.reprobio.2017.05.011>
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35. **Avtanski D**, Wondisford F, Radovick S. Enhanced GH gene expression by estrogen receptor activation. *Endocrine Reviews*, 2010, 31(3)
36. **Avtanski D**, Wondisford F, Radovick S. Enhanced GH gene expression by estrogen receptor activation. *Book: Posters V*, Endocrine Society, 2010, p. P3-241

Other Scientific Publications

1. Shurulinkov, P, **Avtanski D**. Records of Tengmalm's Owl (*Aegolius funereus*) from the Šar Mts, Republic of Macedonia. *Historia Naturalis Bulgarica*, 2018, 28:1-4. DOI: <https://doi.org/10.48027/hnb.28.01001>; ISSN (print): 0205-3640; ISSN (online): 2603-3186, <http://www.nmnhs.com/historia-naturalis-bulgarica/>

Encyclopedia Entries

1. Stojchevski R, Sutanto EA, Sutanto R, Hadzi-Petrushev N, Mladenov M, Singh SR, Sinha JK, Ghosh S, Yarlagadda B, Singh KK, Verma P, Sengupta S, Bhaskar R, **Avtanski D**. New Frontiers in Cancer Therapy and Diagnostics. *Encyclopedia MDPI Video*, 2025. Release Date: 2025-08-26. <https://encyclopedia.pub/video/1682>
2. **Avtanski D**, Reddy V, Stojchevski R, Hadzi-Petrushev N, Mladenov M. The microbiome in the obesity-breast cancer axis. *Encyclopedia*, 2023, Entry # 52269. <https://encyclopedia.pub/entry/52269>
3. Sazdova I, Keremidarska M, Dimitrova D, Mitrokhin V, Kamkin A, Hadzi-Petrushev N, Bogdanov J, Schubert R, Gagov H, **Avtanski D**, Mladenov M. Pharmacokinetics of EF24. *Encyclopedia*, 2023, 52228. <https://encyclopedia.pub/entry/52228>
4. Mladenov M, Lubomirov L, Grisk O, **Avtanski D**, Mitrokhin V, Sazdova I, Keremidarska-Markova M, Danailova Y, Nikolaev G, Konakchieva R, Gagov H. Antioxidants in diabetes, vascular injury, hypoxia, atherosclerosis, allergies. *Encyclopedia*, 2023, 48054. <https://encyclopedia.pub/entry/48054>
5. Mladenov M, Lubomirov L, Grisk O, **Avtanski D**, Mitrokhin V, Sazdova I, Keremidarska-Markova M, Danailova Y, Nikolaev G, Konakchieva R, Gagov H. Oxidative stress, reductive stress and antioxidants. *Encyclopedia*, 2023, 740. https://encyclopedia.pub/video/video_detail/750
6. Josifovska S, Panov S, Hadzi-Petrushev N, Mitrokhin V, Kamkin A, Stojchevski R, **Avtanski D**, Mladenov M. Tetrahydrocurcumin-related neuropathic protection. *Encyclopedia*, 2023. <https://encyclopedia.pub/entry/44144>
7. Atanasova-Panchevska N, Stojchevski R, Hadzi-Petrushev N, Mitrokhin V, **Avtanski D**, Mladenov M. Antibacterial and antiviral properties of tetrahydrocurcumin-based formulations. *Encyclopedia*, 2022, 32131. <https://encyclopedia.pub/entry/32131>
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Popular Science Publications

1. **Avtanski D**. The bay of the large seals (article in Bulgarian). *Пътешественик (Traveler)* newspaper (Bulgaria), 2004, Issue 6 (July 26th-August 1st), p. 4
2. **Avtanski D**. The life of the northern elephant seals (article in Bulgarian). *Животински Свят (Animal World)* website (Bulgaria), 2004. <http://gergana1.dir.bg/animals/expeditions/index.htm>

Presentations

Invited Oral Presentations

1. (upcoming) **Avtanski D**. Academic writing for international scientific journals: A practical guide using *Molecular Medicine* as a Model. *Chinese National Higher Education Research Institute (CNHERI)*, December 17th 2025, Virtual
2. **Avtanski D**. Nutrition, adipose tissue, and human health. *Webinar: Nutrition, Adipose Tissue, and Human Health*. May 23rd, 2025, Virtual
3. **Avtanski D**, Karami E, Karla P, Leung TM, Sisenberg, JS, Davarzani R, Salehian B, Kochakzade M. Evaluating the accuracy of a novel AI-powered optical device for non-invasive glucose monitoring: Results from a prospective

- clinical study. *Evening of Research, 3rd Annual Podium & Poster Presentation*. Lenox Hill Hospital, Northwell Health, April 21st, 2025, New York, New York
4. **Avtanski D.** Advances in translational medicine: The impact of stem cells on inflammation, metabolic, and cancer pathways. *EATRIS-Bulgaria Annual Conference 2024*, November 7th-9th, 2024, Sofia, Bulgaria
 5. **Avtanski D.** The future of EHS: Leveraging tomorrow's technology to maximize today's data. *The Ortus Club roundtable*, May 10th, 2023, New York, New York
 6. **Avtanski D.** Obesity and breast cancer – molecular insights. *International Symposium on Updates on Obesity*, February 6th-8th, 2022, Virtual
 7. **Avtanski D.** Characterization of the cytokine secretion profile of breast cancer cells. *7th Edition – Webinar on Breast Cancer-2021*, July 14th-15th, 2021. <https://cancer.endeavorresearchgroup.com/index.php>
 8. **Avtanski D.** Resistin induces epithelial to mesenchymal transition (EMT) in breast cancer cells through activation of AXL tyrosine kinase receptor. *5th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, May 14th, 2019, Manhasset, New York
 9. Garcia A, Caraballo B, Thanges P, Bianco J, Marin S, Lavi A, Poretsky L, **Avtanski D.** Resistin increases breast cancer cell motility and induces cellular mesenchymal reprogramming. *11th Annual Gerald J. Friedman Fellows Symposium: Nutrition, Diabetes, and Human Health*, November 14th, 2018, Virtual
 10. **Avtanski D**, Caraballo B, Poretsky L. Targeting resistin signaling pathway as a strategy for enhancing the effect of chemotherapy drugs in reducing breast cancer cells aggressiveness. *15th International Conference on Pharmaceutical Formulations & Drug Delivery*, September 17th-18th, 2018, Philadelphia, Pennsylvania
 11. **Avtanski D**, Garcia A, Caraballo B, Thangeswaran P, Bianco J, Lavi A, Marin S, Ronca C, Poretsky L. Resistin increases breast cancer cell motility and induces cellular mesenchymal reprogramming. *4th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, April 10th, 2018, Manhasset, New York
 12. **Avtanski D**, Garcia A, Caraballo B, Thangeswaran P, Bianco J, Lavi A, Marin S, Ronca C, Poretsky L. Resistin increases breast cancer cell motility and induces cellular mesenchymal reprogramming. *The Endocrine Society's 100th Annual Meeting & Expo, Session MP19, Moderated Posters: Tumor Biology I*, March 17th-20th, 2018, Chicago, Illinois
 13. Garcia A, Caraballo B, Thangeswaran P, Marin S, Bianco J, Lavi A, Ronca C, Poretsky L, **Avtanski D.** Resistin increases breast cancer invasiveness by potentiating cellular mesenchymal transition. *3rd Lenox Hill Evening of Research*, November 30th, 2017, New York, New York – **1st place abstract award**
 14. Georgiev G, **Avtanski D**, Konakchieva R. *In vitro* modulation of ovarian cells steroid secretion under glucocorticosteroid resistance *Scientific Session Dedicated at the 70th Anniversary of the Institute of Biology and Immunology of Reproduction, Bulgarian Academy of Sciences*, 2008, Sofia, Bulgaria
 15. Araki T, **Avtanski D**, Parikh G, Goldman M, Rosenwaks Z, Poretsky L. Thiazolidinediones inhibit aromatase activity in human granulosa cells by interfering with androgen binding to aromatase. *Department of Medicine, Division of Endocrinology & Metabolism, Beth Israel Medical Center, Albert Einstein College of Medicine*, 2006, New York, New York
 16. Seto-Young D, **Avtanski D**, Poretsky L. Insulin and peroxisome proliferator activated receptor γ signaling in human ovary – basic mechanisms and clinical implications. *11th International Symposium of Immunology of Reproduction*, 2006, Varna, Bulgaria
 17. **Avtanski D**, Seto-Young D, Konakchieva R, Poretsky L. The human ovary – target of PPAR γ -mediated action of thiazolidinediones. *7th National Congress on Sterility, Contraception and Hormone Replacement Therapy*, 2006, Borovetz, Bulgaria
 18. **Avtanski D**, Konakchieva R. Immunomodulation by melatonin. *9th Scientific Session of the Faculty of Biology, Sofia University*, 2001, Sofia, Bulgaria
 19. **Avtanski D**, Kehayov I, Konakchieva R. Calcium-binding proteins of the S100 family are targeted by glucocorticoids in process of differentiation and apoptosis. *9th Scientific Session of the Faculty of Biology, Sofia University*, 2001, Sofia, Bulgaria
 20. **Avtanski D**, Tzanova N. Model of educational software: Nitrogen cycle in nature. *9th Scientific Session of the Faculty of Biology, Sofia University*, 2001, Sofia, Bulgaria
 21. **Avtanski D**, Penkov V. Follicular atresia in Muscovy duck (*Cairina moschata*, L.). *National Student Scientific Session, Sofia University and Sofia Medical University*, 2000, Sofia, Bulgaria
 22. **Avtanski D.** Histochemical study of the ovary of Muscovy duck (*Cairina moschata*, L.) regarding its steroidogenic function. *Student Scientific Conference of the Faculty of Biology, Sofia University*, 1998, Sofia, Bulgaria

Department Seminars

1. Friedman Diabetes Institute Research Laboratory – Projects update. *Division of Endocrinology Seminar Series*, Lenox Hill Hospital, January 7th, 2025, Virtual
2. Friedman Diabetes Institute Research Laboratory – Projects update. *Division of Endocrinology Seminar Series*, Lenox Hill Hospital, April 4th, 2023, Virtual
3. Role of hypoxia in modulating cytokine secretion of breast cancer cells. *Department of Surgery Seminar Series*, Lenox Hill Hospital, Northwell Health, September 16th, 2020, New York, USA
4. ADA-2019 meeting: Highlights. *Division of Endocrinology Seminar Series*, Lenox Hill Hospital, June 25th, 2019, New York, New York
5. Resistin and breast cancer metastasis. *Division of Endocrinology Seminar Series*, Lenox Hill Hospital, February 27th, 2018, New York, New York
6. Endocrinology Division: Research update. *Division of Endocrinology Seminar Series*, Lenox Hill Hospital, October 17th, 2017, New York, New York
7. Adipokines, insulin resistance and reproduction. *Division of Endocrinology Seminar Series*, Lenox Hill Hospital, February 7th, 2017, New York, New York
8. Research update. *Division of Endocrinology Seminar Series*, Lenox Hill Hospital, November 1st, 2016, New York, New York
9. Strategies to overcome leptin signaling in breast cancer. *Breast Cancer Program Seminar Series*, Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins University School of Medicine, March 10th, 2015, Baltimore, Maryland
10. Oncogenic role of leptin in breast cancer. *Breast Cancer Program Seminar Series*, Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins University School of Medicine, March 4th, 2013, Baltimore, Maryland
11. Both estrogen receptor alpha and beta stimulate pituitary GH gene expression. *Prostate Cancer Laboratory Seminar Series*, Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins University School of Medicine, September 26th, 2011, Baltimore, Maryland
12. Role of estrogens in regulation of somatotroph hormonal production. *Institute of Biology and Immunology of Reproduction Seminar Series*, Bulgarian Academy of Sciences, April 20th, 2011, Sofia, Bulgaria
13. Insulin-independent and insulin-dependent effects of thiazolidinediones in the human ovary. *Institute of Biology and Immunology of Reproduction Seminar Series*, Bulgarian Academy of Sciences, September 21st, 2006, Sofia, Bulgaria
14. Direct effects of estrogens on somatotroph function. *Division of Endocrinology Seminar Series*, Johns Hopkins University School of Medicine, November 20th, 2009, Baltimore, Maryland

Poster Presentations

1. Sutanto EA, Garcia AC, Lee J, Stojchevski R, **Avtanski D**. AI-driven detection of EMT-related gene expression patterns from high throughput imaging of PANC1 cells. *CUNY School of Medicine Research Day 2025*, November 18th, 2025, New York, New York
2. Vako L, Leung TM, Ziskovich K, Stojchevski R, **Avtanski D**, Poretsky L, Cusano NE. Skeletal profiles and bone mineral parameters of transgender and gender non-binary individuals receiving gender-affirming hormone therapy: A prospective study. *The American Society for Bone and Mineral Research (ASBMR) 2025 Annual Meeting*, Seattle, Washington, September 5th-8th, 2025. Poster # 552.
<https://asbmr.confex.com/asbmr/2025/meetingapp.cgi/Person/13256>
3. Sutanto E, Stojchevski R, Poretsky L, **Avtanski D**. Drug-like ADME profiles and antimetastatic properties of monocarbonyl curcumin analogs C66 and B2BrBc with improved stability. *The Endocrine Society's 107th Annual Meeting and Expo (ENDO 2025)*, July 12th-15th, 2025, San Francisco, California – Poster # SAT-307
4. **Avtanski D**, Karami E, Karla P, Leung TM, Isenberg JS, Davarzani R, Salehian B, Kochakzade M. Evaluating the efficacy of a novel AI-powered optical device for non-invasive glucose monitoring: Results from a prospective clinical study. *The American Diabetes Association 85th Scientific Sessions*, June 20th-23rd, 2025, Chicago, Illinois – Poster # 1027-P
5. Stojchevski R, Sutanto E, Dragarska K, Todorovska I, Hadzi-Petrushev N, Bogdanov J, Mladenov M, Poretsky L, **Avtanski D**. Drug-like ADME profiles and antimetastatic properties of monocarbonyl curcumin analogs C66 and B2BrBC with improved stability. *Evening of Research, 3rd Annual Podium & Poster Presentation*. Lenox Hill Hospital, Northwell Health, April 21st, 2025, New York, New York

6. Sutanto EA, **Avtanski D**, Stojchevski R. Evaluation of the anti-cancer potential of two novel monocarbonyl analogs of curcumin. *CUNY School of Medicine Research Day 2024*, November 19th, 2024, New York, New York
7. Fried H, **Avtanski D**, Stojchevski R, Ziskovich K, Swe NC, Thermidor S, Eid M, Ahmed S, Shaarbay R, Leung TM, Gianos E, Ong C, Sanchez AS, Poretsky L, Cusano N. A prospective study of bone density parameters and plasma procollagen type 1 N-terminal propeptide (P1NP) levels in gender-diverse persons. *WPATH 28th Scientific Symposium*, September 25th-30th, 2024, Lisbon, Portugal
8. Ong C, Thermidor S, Swe NC, Eid M, Ahmed S, **Avtanski D**, Stojchevski R, Leung TM, Ziskovich K, Shaarbay R, Sanchez A, Gianos E, Poretsky L, Cusano N. Cardiometabolic metrics in transgender patients receiving gender-affirming hormone therapy. *WPATH 28th Scientific Symposium*, September 25th-30th, 2024, Lisbon, Portugal
9. Kochakzade M, Karami E, Karla K, Leung TM, **Avtanski D**, Isenberg JS, Davarzani R, Salehian B. Optical sensing with adaptive artificial intelligence for non-invasive glucose monitoring: A clinical trial. *2024 Rachmiel Levine-Arthur Riggs Diabetes Research Symposium*, September 21st-24th, 2024, Pasadena, California
10. Stojchevski R, Lavi A, Bogdanov J, Hadzi-Petrushev N, Mladenov M, Poretsky L, **Avtanski D**. Monocarbonyl analogs of curcumin C66 and B2BrBC modulate diabetes-related gene expression in rat pancreatic cells. *The American Diabetes Association 84th Scientific Sessions*, June 21st-24th, 2024, Orlando, Florida
11. Stojchevski R, Lavi A, Bogdanov J, Hadzi-Petrushev N, Mladenov M, Poretsky L, **Avtanski D**. Impact of the monocarbonyl analogs of curcumin, C66 and B2BrBC, on the protein expression of epithelial and mesenchymal markers in MCF-7 breast cancer cells. *The Endocrine Society's 106th Annual Meeting and Expo (ENDO 2024)*, June 1st-4th, 2023, Boston, Massachusetts – **Abstract qualified for the Presidential Poster Competition at ENDO 2024**
12. Dragarska K, Todorovska I, Stojchevski R, Hadzi-Petrushev N, Mladenov M, **Avtanski D**, Bogdanov J. Design and *in vitro* evaluation of monocarbonyl curcumin analogs eliciting breast cancer cytotoxicity. *26th Congress of the Society of Chemists and Technologists of Macedonia (SCTM)*, September 20th-23rd, 2023, Ohrid, N. Macedonia
13. Stojchevski R, Angelovski M, Velichkovikj S, Hadzi-Petrushev N, Mladenov M, Bogdanov J, Poretsky L, **Avtanski D**. Monocarbonyl curcumin analogs C66 and B2BrBC improve redox status in streptozotocin-induced diabetic rats. *The American Diabetes Association 83rd Scientific Sessions*, June 23rd-26th, 2023, San Diego, California, Abstract # 557-P
14. Stojchevski R, Hadzi-Petrushev N, Mladenov M, Bogdanov J, Poretsky L, Avtanski D. Effects of two experimental monocarbonyl analogs of curcumin (MACs) on breast cancer growth, migration, and epithelial-to-mesenchymal transition (EMT). *The Endocrine Society's 105th Annual Meeting and Expo (ENDO 2023)*, June 15th-18th, 2023, Chicago, Illinois
15. Stojchevski R, Poretsky L, **Avtanski D**. Effects of two experimental monocarbonyl analogs of curcumin on breast cancer growth, migration, and epithelial-to-mesenchymal transition. *The 2023 Academic Competition and Research Symposium*, Zucker School of Medicine, Hofstra University, May 31st, 2023, New York, New York
16. Hadzi-Petrushev N, Mladenov M, Stojchevski R, Posterky L, **Avtanski D**. Testing the effects of various experimental monocarbonyl analogs of curcumin (MACs) on breast cancer growth, migration, and epithelial-to-mesenchymal transition (EMT). *The Feinstein Institutes Poster Session 2023*, May 11th, 2023, Manhasset, New York
17. Hadzi-Petrushev N, Mladenov M, Stojchevski R, Posterky L, **Avtanski D**. Monocarbonyl curcumin analogs C66 and B2BrBC improve redox status in streptozotocin-induced diabetic rats. *The Feinstein Institutes Poster Session 2023*, May 11th, 2023, Manhasset, New York
18. **Avtanski D**, Stojchevski R, Ziskovikj K, Singer T, Poretsky L. Energy metabolism hormones irisin and leptin affect steroidogenesis in human granulosa cells: *in vitro* studies. *Feinstein Institutes October Scientific Poster Session*, October 20th, 2022, Manhasset, New York
19. Cusano N, Gianos E, Frenkel M, **Avtanski D**, Stojchevski R, Ziskovich K, Hassan M, Thermidor S, Poretsky L. Energy metabolism hormones and lipid profiles in transgender individuals: Cross-sectional pilot study. *Feinstein Institutes October Scientific Poster Session*, October 20th, 2022, Manhasset, New York
20. **Avtanski D**, Stojchevski R, Ziskovikj K, Singer T, Poretsky L. Energy metabolism hormones irisin and leptin affect steroidogenesis in human granulosa cells: *in vitro* studies. *The Endocrine Society's 104th Annual Meeting and Expo (ENDO) 2022*, June 11th-14th, 2022, Atlanta, Georgia
21. Poonacha S, Falvey A, Zeng Q, **Avtanski DB**, Stojchevski R, Tracey KJ, Pavlov VA. Selective optogenetic stimulation of cholinergic innervations of the celiac-superior mesenteric ganglion complex attenuates inflammation in murine endotoxemia. *45th Annual Conference on Shock*, June 4th-7th, 2022, Toronto, Ontario
22. Stojchevski R, Angelovski M, Velichkovik S, Hadzi-Petrushev N, Mladenov M, Bogdanov J, Poretsky L, **Avtanski D**. Effect of monocarbonyl curcumin analogues C66 and B2BrBC on pancreatic expression of genes related to insulin

- signaling pathway and oxidative stress in streptozotocin-induced diabetes. *The American Diabetes Association 82nd Scientific Sessions*, June 3rd-7th, 2022, New Orleans, Louisiana – Abstract # 557-P
23. Cusano N, Gianos E, Frenkel M, **Avtanski D**, Stojchevski R, Ziskovich K, Hassan M, Thermidor S, Poretsky L. Energy metabolism hormones and lipid profiles in transgender individuals: Cross-sectional pilot study. *90th European Atherosclerosis Society (EAS) Congress*, May 22nd-25th, 2022, Milan, Italy – Abstract # EP238
 24. Palandira SP, Falvey A, Zeng Q, Avtanski DB, Stojchevski R, Poretsky L, Tracey KJ, Pavlov VA. Optogenetic stimulation of cholinergic neuronal endings of the celiac-superior mesenteric ganglion complex attenuates inflammation in murine endotoxemia. *Feinstein Institutes Scientific Poster Session Series*, April 14th, 2022, Manhasset, New York
 25. Stojchevski R, Angelovski M, Velichkovik S, Hadzi-Petrushev N, Mladenov M, Bogdanov J, Poretsky L, **Avtanski D**. Effect of monocarbonyl curcumin analogues C66 and B2BrBC on pancreatic expression of genes related to insulin signaling pathway and oxidative stress in streptozotocin-induced diabetes. *Feinstein Institutes Scientific Poster Session Series*, April 14th, 2022, Manhasset, New York
 26. Palandira S, Falvey A, Zeng Q, **Avtanski DB**, Stojchevski R, Poretsky L, Tracey KJ, Pavlov VA. Optogenetic stimulation of cholinergic neuronal endings in the celiac-superior mesenteric ganglion complex suppresses inflammation in murine endotoxemia. *Experimental Biology 2022*, April 2nd-5th, 2022, Philadelphia, Pennsylvania – Abstract # R4472
 27. Falvey, A, Palandira S, Zeng Q, Stojchevski R, **Avtanski D**, Tracey KJ, Pavlov VA. Electrical stimulation of the dorsal motor nucleus of the vagus activates the efferent arm of the inflammatory reflex shifting the cytokine balance in murine endotoxemia towards suppression of inflammation. *Neuroscience 2021 50th Annual Meeting*, November 8th-11th, 2021, Virtual – Poster # P617.01
 28. Palandira S, Falvey A, Zeng Q, **Avtanski DB**, Stojchevski R, Poretsky L, Tracey KJ, Pavlov VA. Optogenetic cholinergic stimulation of the celiac-superior mesenteric ganglia complex attenuates inflammation. *Neuroscience 2021 50th Annual Meeting*, November 8th-11th, 2021, Virtual – Poster # P617.05
 29. **Avtanski D**, Ziskovich K, Singer T, Singer T, Yeshua A, Cantor T, Poretsky L. The effects of leptin and irisin on steroidogenic enzyme gene expression in human ovarian granulosa cells - initial studies. *The Endocrine Society's Annual Meeting and Expo (ENDO) 2021*, March 20th-23rd, 2021, Virtual – Abstract # 7284
 30. Poretsky L, **Avtanski D**, Ziskovich K, Inlall D, Vegesna A, Leung TM, Benias P. A retrospective study of weight and metabolic changes in patients with obesity (BMI \geq 30 Kg/m²) after endoscopic sleeve gastropasty (ESG) or laparoscopic sleeve gastrectomy (LSG). *The American Diabetes Association 80th Scientific Sessions*, Virtual. June 12th-16th, 2020 – Abstract 2027-P – **Poster selected for moderated session**
 31. Chen K, Satlof L, Kothapalli U, Ziluck N, Lema M, Poretsky L, **Avtanski D**. Role of hypoxia in modulating cytokine secretion in breast cancer cells. Role of hypoxia in modulating cytokine secretion in breast cancer cells. *Cancer Metabolism and Signaling 2020*, The New York Academy of Sciences, April 17th, 2020, Virtual
 32. Chen K, Satlof L, Kothapalli U, Ziluck N, Lema M, Poretsky L, **Avtanski D**. Optimization of experimental conditions for mimicking hypoxia in cultured breast cancer cells by using cobalt(II) chloride (CoCl₂). *The Endocrine Society's 102nd Annual Meeting & Expo (ENDO) 2020*, March 29th-31st, 2020, Virtual – Abstract # 6094
 33. **Avtanski D**, Chen K, Satlof L, Stoffels G, Kothapalli U, Ziluck N, Lema M, Poretsky L. Hypoxia effect on cytokine production by breast cancer cells. *The Endocrine Society's 102nd Annual Meeting & Expo (ENDO) 2020*, March 29th-31st, 2020, Virtual – Abstract # 6104
 34. Garcia A, Caraballo B, Thangeswaran P, Bianco J, Marin S, Lavi A, Poretsky L, **Avtanski D**. Resistin increases breast cancer cell motility and induces cellular mesenchymal reprogramming. *12th Annual Friedman Fellows Symposium*, November 14th, 2019, New York, New York
 35. Lema M, **Avtanski D**. Role of AXL tyrosine kinase receptor in mediating resistin actions on epithelial to mesenchymal transition in breast cancer cells. *Scholarship Day*, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, November 6th, 2019, Hempstead, New York – Abstract # 47
 36. Ziluck N, Satlof L, Kothapalli U, Lema M, Chen K, Poretsky L, **Avtanski D**. The effect of hypoxia on cytokine secretion in breast cancer cells. *The Feinstein Institute Summer Students Poster Presentation*, August 14th, 2019, Manhasset, New York
 37. Satlof L, Chen K, Weber D, Poretsky L, **Avtanski D**. The role of tyrosine kinase receptor AXL in resistin-mediated epithelial to mesenchymal transition (EMT) *The Feinstein Institute Summer Students Poster Presentation*, August 14th, 2019, Manhasset, New York
 38. Kothapalli U, Satlof L, Chen K, Ziluck N, Lema M, Poretsky L, **Avtanski D**. The effects of hypoxia on hypoxia-inducible factor 1 alpha (HIF-1 α) and carbonic anhydrase 9 (CA9) expression in various breast cancer cell lines. *The Feinstein Institute Summer Students Poster Presentation*, August 14th, 2019, Manhasset, New York

39. **Avtanski D**, Poretsky L. Tumor microenvironment proinflammatory cytokines modulate secretory activity of breast cancer cells – *in vitro* study. *Tumor Microenvironments: Mechanisms and Therapeutic Implications 6th Annual Symposium*, Memorial Sloan Kettering Cancer Center and Weill Cornell Medicine, July 19th, 2019, New York, New York – Abstract # 2
40. Basman C, **Avtanski D**, Ziskovich K, Jonas R, Fishman S, Sonmez H, Rashid U, Kodra A, Stoffels G, Lesser M, Singh V, Poretsky L. Serum levels of the advanced glycation end-product (AGE) pentosidine do not correlate with the extent of coronary artery disease assessed by SYNTAX score. *American Diabetes Association 79th Scientific Sessions*, June 7th-11th, 2019, San Francisco, California – Abstract # 2215-PUB
41. Chen K, Lavi A, Bahl K, Kaiser M, Weber D, Satlof L, Poretsky L, **Avtanski D**. Proinflammatory cytokines modulate resistin expression in breast cancer cells. *6th Evening of Research, 2nd Annual Research Poster & Podium Presentations*, May 15th, 2019, Lenox Hill Hospital, Northwell Health, New York, New York – Abstract # 25. ***1st Place Poster Award**
42. Chen K, Weber D, Satlof L, Lavi A, Bahl K, Kaiser M, Poretsky L, **Avtanski D**. Resistin induces epithelial to mesenchymal transition (EMT) in breast cancer cells through activation of AXL tyrosine kinase receptor. *5th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, May 14th, 2019, Manhasset, New York – Abstract # 4
43. **Avtanski D**, Lavi A, Bahl K, Kaiser M, Weber D, Satlof L, Chen K, Poretsky L. Proinflammatory cytokines modulate resistin expression in breast cancer cells. *5th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, May 14th, 2019, Manhasset, New York – Abstract # 1
44. Jonas R, Basman C, **Avtanski D**, Chen K, Kodra A, Rashid U, Fishman S, Singh V, Poretsky L. Evaluating serum concentrations of advanced glycation end-products as predictors of coronary artery disease. *5th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, May 14th, 2019, Manhasset, New York – Abstract # 9
45. Nagalingam A, Muniraj N, Siddharth S, **Avtanski D**, Parida S, Kuppusamy P, Gyorffy B, Saxena N, Sharma D. Hyperleptinemia in obese state renders luminal breast cancers refractory to tamoxifen coordinating a crosstalk between Med1, miR205 and Erb B kinases. *The American Association for Cancer Research (AACR) Annual Meeting*, March 29th-April 3rd, 2019, Atlanta, Georgia – Abstract # 310/1
46. **Avtanski D**, Lavi A, Bahl K, Kaiser M, Weber D, Satlof L, Chen K, Poretsky L. Proinflammatory cytokines modulate resistin expression in breast cancer cells. *The Endocrine Society's 101st Annual Meeting (ENDO) 2019*, March 23rd-26th, 2019, New Orleans, Louisiana – Abstract # SAT-334
47. Weber D, Satlof L, Lavi A, Bahl K, Kaiser M, Chen K, Poretsky L, **Avtanski D**. Resistin induces epithelial to mesenchymal transition (EMT) in breast cancer cells through activation of AXL tyrosine kinase receptor. *The Endocrine Society's 101st Annual Meeting (ENDO) 2019*, March 23rd-26th, 2019, New Orleans, Louisiana – Abstract # SAT-335
48. Chen K, Weber D, Satlof L, Lavi A, Bahl K, Kaiser M, Poretsky L, **Avtanski D**. Resistin induces epithelial to mesenchymal transition (EMT) in breast cancer cells through activation of AXL tyrosine kinase receptor. *Feinstein Scientific Retreat*, February 27th, 2019, New Hyde Park, New York – Abstract # 13
49. **Avtanski D**, Lavi A, Bahl K, Kaiser M, Weber D, Satlof L, Chen K, Poretsky L. Proinflammatory cytokines modulate resistin expression in breast cancer cells. *Feinstein Scientific Retreat*, February 27th, 2019, New Hyde Park, New York – Abstract # 14
50. Rashid U, **Avtanski D**, Ziskovich K, Jonas R, Fishman S, Sonmez H, Basman C, Kodra A, Stoffels G, Lesser M, Singh V, Poretsky L. Serum levels of the advanced glycation end-product (AGE) pentosidine do not correlate with the extent of coronary artery disease assessed by SYNTAX score. *Feinstein Scientific Retreat*, February 27th, 2019, New Hyde Park, New York – Abstract # 45
51. **Avtanski D**, Poretsky L. Phyto-polyphenols as potential inhibitors of breast cancer metastasis. *IEEE 13th International Conference on Nano/Molecular Medicine and Engineering*, Grand Hyatt, Singapore, April 22nd-26th, 2018
52. **Avtanski D**, Garcia A, Thangeswaran P, Caraballo B, Poretsky L. Role of adenylyl cyclase-associated protein 1 (CAP1) in mediating resistin actions in mouse liver cells. *11th Annual Gerald J. Friedman Fellows Symposium: Nutrition, Diabetes, and Human Health*, November 14th, 2018
53. Lavi A, Weber D, Satlof L, Poretsky L, **Avtanski D**. Role of AXL receptor tyrosine kinase in mediating resistin effects on epithelial to mesenchymal transition (EMT) in breast cancer. *The Feinstein Institute Summer Students Poster Presentation*, August 15th, 2018, Manhasset, New York

54. **Avtanski D**, Garcia A, Thangeswaran P, Caraballo B, Poretsky L. Role of adenylyl cyclase-associated protein 1 (CAP1) in mediating resistin actions in mouse liver cells. *American Diabetes Association 78th Scientific Sessions*, June 22nd-26th, 2018, Orlando, Florida – Abstract # 1754-P
55. Koroma M, Caraballo B, Thangeswaran P, Poretsky L, **Avtanski D**. Resistin increases breast cancer metastatic potential by inducing epithelial to mesenchymal transition and stemness. *Northwell Health 2018 Academic Awards Day, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell*, June 5th, 2018, Hempstead, New York – Abstract # BS4 – **Recognized poster**
56. Koroma M, **Avtanski D**, Vegesna A, Spector YJ, Okolo P, Benias P, Roland B, Miller L, Poretsky L. Obesity as a multifactorial disease: Energy metabolism, insulin resistance, endoscopic bariatric intervention and the pathophysiology of small intestinal bacterial overgrowth (SIBO) in human obesity. *4th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, April 10th, 2018, Manhasset, New York – Abstract # 6
57. Basman C, Fishman S, Sonmez H, **Avtanski D**, Stoffels G, Singh V, Poretsky L. The role of circulating advanced glycation end-products (AGEs) in predicting clinically significant coronary artery disease. *4th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, April 10th, 2018, Manhasset, New York – Abstract # 3
58. **Avtanski D**, Garcia A, Thangeswaran P, Caraballo B, Poretsky L. Role of adenylyl cyclase-associated protein 1 (CAP1) in mediating resistin actions in mouse liver cells. *4th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, April 10th, 2018, Manhasset, New York – Abstract # 2
59. **Avtanski D**, Garcia A, Thangeswaran P, Caraballo B, Lavi A, Bianco J, Marin S, Ronca C, Poretsky L. Resistin inhibits insulin signaling in adenylyl cyclase-associated protein 1 (CAP1)-dependent manner. *4th Annual Feinstein Institute Research Symposium: Diabetes, Endocrinology and Metabolic Disorders*, April 10th, 2018, Manhasset, New York – Abstract # 1
60. **Avtanski D**, Garcia A, Thangeswaran P, Caraballo B, Lavi A, Bianco J, Marin S, Ronca C, Poretsky L. Resistin inhibits insulin signaling in adenylyl cyclase-associated protein 1 (CAP1)-dependent manner. *The Endocrine Society's 100th Annual Meeting & Expo (ENDO) 2018*, March 17th-20th, 2018, Chicago, Illinois – Abstract # SUN-141
61. **Avtanski D**, Garcia A, Caraballo B, Thangeswaran P, Bianco J, Lavi A, Marin S, Ronca C, Poretsky L. Resistin increases breast cancer cell motility and induces cellular mesenchymal reprogramming. *The Endocrine Society's 100th Annual Meeting & Expo (ENDO) 2018*, March 17th-20th, 2018, Chicago, Illinois – Abstract # SAT-329 – **abstract selected for inclusion in a moderated poster session**
62. Lavi A, Marin S, Bianco J, Ronca C, Garcia A, Poretsky L, **Avtanski D**. Resistin interferes with insulin signaling by modulating GLUT4 and CAP1 cellular translocation. *The Feinstein Institute Summer Students Poster Presentation*, March 24th, 2017, Manhasset, New York
63. Bianco J, Lavi A, Marin S, Ronca C, Garcia A, Poretsky L, **Avtanski D**. Resistin increases breast cancer cell invasiveness by potentiating their mesenchymal transition. *The Feinstein Institute Summer Students Poster Presentation*, March 24th, 2017, Manhasset, New York
64. Sonmez H, Kambo V, **Avtanski D**, Lutsky L, Poretsky L. The readmission rates in patients with and without *diabetes mellitus* at an urban teaching hospital. *American Diabetes Association's 77th Scientific Sessions*, June 9th-13th, 2017, San Diego, California. Abstract # 1352-P
65. Islam JR, Seto-Young D, **Avtanski D**, Lin YK, Shen S, Hirth Y, Lesser M, Rosenwaks Z, Poretsky L. The effects of irisin in reproductive system – Update 2017. *10th Annual Gerald J. Friedman Fellows Symposium 2017: Nutrition, Diabetes, and Human Health*, April 22nd, 2017, Chicago, Illinois
66. Garcia A, **Avtanski D**, Kuppusamy P, Sonmez H, Shnayder V, Wolfe A, Pavlov VA, Tracey KJ, Poretsky L. Effect of high-fat diet on cofilin and MMP9 protein expression in diet-induced obesity mouse model. *10th Annual Gerald J. Friedman Fellows Symposium 2017: Nutrition, Diabetes and Human Health*, April 22nd, 2017, Chicago, Illinois
67. Garcia A, **Avtanski D**, Kuppusamy P, Sonmez H, Shnayder V, Wolfe A, Pavlov VA, Tracey KJ, Poretsky L. Effect of obesity on resistin and adenylyl cyclase-associated protein 1 (CAP1) expression in white adipose tissue. *10th Annual Gerald J. Friedman Fellows Symposium 2017: Nutrition, Diabetes and Human Health*, April 22nd, 2017, Chicago, Illinois
68. **Avtanski D**, Kuppusamy P, Sonmez H, Shnayder V, Garcia A, Wolfe A, Pavlov VA, Tracey KJ, Poretsky L. Plasma levels of resistin correlate with adenylyl cyclase-associated protein 1 (CAP1) in diet-induced obesity mouse model. *3rd Annual Feinstein Symposium: Diabetes, Endocrinology and Metabolic Disorders*, April 7th, 2017, Manhasset, New York – Abstract # 8

69. Sonmez H, Kambo V, **Avtanski D**, Lutsky L, Poretsky L. The readmission rates in patients with and without *diabetes mellitus* at an urban teaching hospital. *3rd Annual Feinstein Symposium: Diabetes, Endocrinology and Metabolic Disorders*, April 7th, 2017, Manhasset, New York – Abstract # 10
70. **Avtanski D**, Kuppusamy P, Sonmez H, Shnyder V, Wolfe A, Pavlov VA, Tracey KJ, Poretsky L. Plasma levels of resistin correlate with adenylyl cyclase-associated protein 1 (CAP1) in diet-induced obesity mouse model. *The Endocrine Society's Annual Meeting (ENDO) 2017*, April 1st-4th, 2017, Orlando, Florida – Abstract # SAT-573
71. **Avtanski D**, Kuppusamy P, Sonmez H, Shnyder V, Wolfe A, Pavlov VA, Tracey KJ, Poretsky L. Plasma levels of resistin correlate with adenylyl cyclase-associated protein 1 (CAP1) in diet-induced obesity mouse model. *Rachmiel Levine-Arthur Riggs Diabetes Research Symposium*, March 28th-31st, 2017, Orlando, Florida – Abstract # LRS-3 – **The Endocrine Society's Annual Meeting poster awarded for presentation at R. Levine-A. Riggs Symposium**
72. Nagalingam A, **Avtanski D**, Tomaszewski J, Prabhakar R, Difillippantonio M, Mears B, Saxena N, Malhotra S, Sharma D. Indolo-pyrido-isoquinolin based alkaloid inhibits epithelial-mesenchymal transition and stemness via activation of p53-miR-34a axis. *The American Association for Cancer Research (AACR) Annual Meeting*, April 16th-20th, 2016, New Orleans, Louisiana – Abstract # 1228
73. Islam J, Seto-Young D, **Avtanski D**, Lesser M, Rozenwaks Z, Poretsky L. Update: Does irisin has an effect on female reproductive function? Initial *in vitro* studies. *9th Annual Gerald J. Friedman Fellows Symposium*, June 11th, 2016, New Orleans, Louisiana
74. **Avtanski D**, Hirth Y, Babushkin N, Sy V, Sharma D, Poretsky L, Seto-Young D. *In vitro* effects of pioglitazone on the expression of Wnt signaling pathway components and markers of bone mineralization. *2nd Feinstein Institute Research Symposium: Diabetes & Metabolic Disorders*, April 2016, Manhasset, New York – Abstract # 2
75. **Avtanski D**, Nagalingam A, Kuppusamy P, Saxena NK, Sharma D. Natural phenolic compound honokiol inhibits leptin-induced epithelial to mesenchymal transition in breast cancer. *The Endocrine Society's Annual Meeting (ENDO) 2016*, April 1st-4th, 2016, Boston, Massachusetts – Abstract # SUN 104
76. **Avtanski D**, Hirth Y, Babushkin N, Sy V, Sharma D, Poretsky L, Seto-Young D. *In vitro* effects of pioglitazone on the expression of Wnt signaling pathway components and markers of bone mineralization. *The Endocrine Society's Annual Meeting (ENDO) 2016*, April 1st-4th, 2016, Boston, Massachusetts – Abstract # SUN 352
77. Malhotra SV, Tomaszewski JE, Difilippantonio M, Risbood PA, Nagalingam A, **Avtanski D**, Sharma D. Indolo-pyrido-isoquinolin based alkaloid inhibits growth of breast cancer cells *Division of Medicinal Chemistry 250th National Meeting and Exposition*, August 16th-20th, 2015, Boston, Massachusetts – Abstract # MEDI 193
78. **Avtanski D**, Tiutan T, Saxena N, Sharma D. Novel mechanistic insights into the bioactive compound honokiol-mediated inhibition of epithelial to mesenchymal transition in breast cancer. Therapeutic modulation of miR-34a via tumor suppressor LKB1. *7th Annual Safeway Breast Cancer Retreat*, May 1st, 2014, Baltimore, Maryland – Abstract # 2
79. **Avtanski D**, Tiutan T, Saxena N, Sharma D. Novel mechanistic insights into the bioactive compound honokiol-mediated inhibition of epithelial to mesenchymal transition in breast cancer. Therapeutic modulation of miR-34a via tumor suppressor LKB1. *The Johns Hopkins University Sidney Kimmel Comprehensive Cancer Center Fellow Research Day 2014*, 2014, Baltimore, Maryland – Abstract # 3
80. **Avtanski D**, Tiutan T, Saxena N, Sharma D. Novel mechanistic insights into the bioactive compound honokiol-mediated inhibition of epithelial to mesenchymal transition in breast cancer. Therapeutic modulation of miR-34a via tumor suppressor LKB1. *The American Association for Cancer Research (AACR) Annual Meeting*, April 5th-9th, 2014, San Diego, California – Abstract # LB-187
81. Sharma D, **Avtanski D**, Nagalingam A, Kuppusamy P, Saxena N. A novel bioactive approach to inhibit leptin-induced epithelial-mesenchymal transition in breast cancer. *2013 San Antonio Breast Cancer Symposium*, December 9th-11th, 2013, San Antonio, Texas – Abstract # 851732
82. **Avtanski D**, Nagalingam A, Kuppusamy P, Saxena N, Sharma D. A novel bioactive approach to inhibit leptin-induced epithelial-mesenchymal transition in breast cancer. *Johns Hopkins Post-Doctoral Symposium*, 2013, Baltimore, Maryland
83. **Avtanski D**, Kuie Lin Y, Hirth Y, Babushkin N, Sy V, Seth A, Pareek A, Sharma D, Poretsky L, Seto-Young D. Thiazolidinedione effects on the mineral content and the components of the Wnt signaling pathway in human osteoblasts. *The Endocrine Society's 95th Annual Meeting (ENDO 2013)*, June 15th-18th, 2013, San Francisco, California – Abstract #4659

84. **Avtanski D**, Nagalingam A, Kuppusamy P, Saxena N, Sharma D. Targeting epithelial-mesenchymal transition in breast cancer cells using Honokiol, a natural phenolic compound. *6th Annual Safeway Breast Cancer Research Retreat 2013*, May 17th, 2013, Baltimore, Maryland
85. **Avtanski D**, Nagalingam A, Kuppusamy P, Saxena N, Sharma D. A novel bioactive approach to inhibit leptin-induced epithelial-mesenchymal transition in breast cancer. *6th Annual Safeway Breast Cancer Research Retreat 2013*, May 17th, 2013, Baltimore, Maryland
86. **Avtanski D**, Nagalingam A, Kuppusamy P, Saxena N, Sharma D. A novel bioactive approach to inhibit leptin-induced epithelial-mesenchymal transition in breast cancer. *The Johns Hopkins University Sidney Kimmel Comprehensive Cancer Center Fellow Research Day 2013*, 2013, Baltimore, Maryland – Abstract # 4
87. **Avtanski D**, Nagalingam A, Kuppusamy P, Saxena N, Sharma D. A novel bioactive approach to inhibit leptin-induced epithelial-mesenchymal transition in breast cancer. *The American Association for Cancer Research (AACR) Annual Meeting*, April 6th-10th, 2013, Washington, District of Columbia – Abstract # 5497
88. **Avtanski D**, Nagalingam A, Kuppusamy P, Saxena N, Sharma D. Targeting epithelial-mesenchymal transition in breast cancer cells using Honokiol, a natural phenolic compound. *The American Association for Cancer Research (AACR) Annual Meeting*, April 6th-10th, 2013, Washington, District of Columbia – Abstract # 299
89. **Avtanski D**, Yan D, Saxena NK, Sharma D. Leptin-induced epithelial-mesenchymal transition in breast cancer cells requires β -catenin activation via Akt/GSK3-dependend and MTA/Wnt1-dependent pathways. *5th Annual Safeway Breast Cancer Retreat*, 2012, Baltimore, Maryland – Abstract #1
90. **Avtanski D**, Yan D, Saxena NK, Sharma D. Leptin-induced epithelial-mesenchymal transition in breast cancer cells requires β -catenin activation via Akt/GSK3-dependend and MTA/Wnt1-dependent pathways. *The Johns Hopkins University Sidney Kimmel Comprehensive Cancer Center Fellow Research Day 2012*, 2012, Baltimore, Maryland – Abstract # 5
91. **Avtanski D**, Yan D, Saxena NK, Sharma D. Leptin-induced epithelial-mesenchymal transition in breast cancer cells requires β -catenin activation via Akt/GSK3-dependend and MTA/Wnt1-dependent pathways. *The Johns Hopkins Institute for NanoBio Technology Symposium: Cancer: The Big Picture*, 2012, Baltimore, Maryland – Abstract #70
92. Yan D, **Avtanski D**, Saxena NK, Sharma D. Leptin-induced epithelial-mesenchymal transition in breast cancer cells requires β -catenin activation via Akt/GSK3-dependend and MTA/Wnt1-dependent pathways. *The American Association for Cancer Research (AACR) Annual Meeting*, March 31st-April 4th, 2012, Chicago, Illinois – Abstract # 349
93. Zapata-Rodrigues E, Sinha Roy S, **Avtanski D**, Nagalingam A. Sensitization of Human Breast Cancer Cells to Apoptosis Induced by Doxorubicin Using the Natural Products Benzyl Isothiocyanate and Honokiol. *Annual Biomedical Research Conference for Minority Students (ABRCMS)*, November 9th-12th, 2011, St. Louis, Missouri – Abstract # 488
94. **Avtanski D**, Pine-Twaddell E, Kineman R, Wondisford F, Radovick S. Estrogens regulate somatotroph hormonal production directly through estrogen receptor alpha. *The Endocrine Society's 93rd Annual Meeting (ENDO) 2011*, June 4th-7th, 2011, Boston, Massachusetts – Abstract # P1-387
95. Pine-Twaddell E, Miller R, Romero C, **Avtanski D**, Radovick S. Effect of CBP phosphorylation on growth hormone signaling in the somatotroph. *The Endocrine Society's 93rd Annual Meeting (ENDO) 2011*, June 4th-7th, 2011, Boston, Massachusetts – Abstract # P2-338
96. **Avtanski D**, Wondisford F, Radovick S. Enhanced GH gene expression by estrogen receptor activation. *The Endocrine Society's 92nd Annual Meeting (ENDO) 2010*, June 19th-22nd, 2010, San Diego, California – Abstract #P3-241
97. **Avtanski D**, Ng W, Diaczock D, Romero C, Sima D, Chen C, Novaira H, Wondisford F, Radovick S. Estrogen directly increases GH expression in somatotroph cell lines. *12th International Symposium of Immunology of Reproduction*, June 25th-27th, 2009, Varna, Bulgaria
98. **Avtanski D**, Seto-Young D, Parikh G, Strizhevsky M, Feng Y, Pareek A, Singh J, Singh N, Polskaya M, Rosenwaks Z, Poretsky L. Thiazolidinediones inhibit estrogen synthesis by interfering with androgen binding to aromatase. *The Endocrine Society's 90th Annual Meeting (ENDO) 2008*, June 15th-18th, 2008, San Francisco, California – Abstract # P2-44
99. **Avtanski D**, Strizhevsky M, Parikh G, Araki T, Rosen O, Demetri C, Goldman M, Cadag S, Rosenwaks Z, Poretsky L, Seto-Young D. The effects of thiazolidinediones on estrogen production in human granulosa cells. *The Endocrine Society's 89th Annual Meeting (ENDO) 2007*, June 2nd-5th, 2007, Toronto, Canada – Abstract # P1-317
100. **Avtanski D**, Park A, Kaplun J, Strizhevsky M, Kantor Y, Holcomb K, Poretsky L, Seto-Young D. Effects of mitogen-activated protein kinase (MAPK) inhibition on progesterone and insulin-like growth factor binding protein-1 (IGFBP-

- 1) production in human ovarian cells. *The Endocrine Society's 88th Annual Meeting (ENDO) 2006*, June 24th-26th, 2006, Boston, Massachusetts – Abstract # P1-409
101. **Avtanski D**, Kaplun J, Strizhevsky M, Park A, Patel P, Kantor Y, Kearny Brown M, Dhillon S, Pang X, Goldman M, Yeshou D, Moosavy A, Holcomb K, Rosenwaks Z, Seto-Young D, Poretsky L. Interactions among PPAR γ , insulin signaling pathways and aromatase in human ovarian cells. *The Endocrine Society's 88th Annual Meeting (ENDO) 2006*, June 24th-26th, 2006, Boston, Massachusetts – Abstract # P1-397
102. **Avtanski D**, D. Seto-Young, R. Konakchieva, L. Poretsky. Insulin-independent and insulin-sensitizing effects of thiazolidinediones in human ovary. *11th International Symposium of Immunology of Reproduction*, June 2nd-4th, 2006, Varna, Bulgaria
103. Seto-Young D, Paliou M, Schlosser J, Patel P, Park A, **Avtanski D**, Latif W, Babar N, Yeshou D, Omry G, Holcomb K, Poretsky L. Peroxisome proliferator-activated receptor γ (PPAR γ) in human ovarian cells: its role in regulation of steroidogenesis and IGFBP-1 production. *The Endocrine Society's 87th Annual Meeting (ENDO) 2005*, June 4th-7th, 2005, San Diego, California – Abstract # P3-564
104. Taushanova P, **Avtanski D**, Konakchieva R. Immunomodulation by melatonin – physiological significance. *10th Jubilee International Symposium of Immunology of Reproduction*, September 4th-6th, 2003, Varna, Bulgaria
105. Taushanova P, **Avtanski D**, Konakchieva R. Immunomodulation by melatonin – interference in glucocorticoid-induced differentiation of lymphocytes. *10th Meeting of the European Neuroendocrine Association (ENEA)*, September 12th-14th, 2002, Munich, Germany

Acknowledgements

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2. Acknowledgement to reviewers of JPM in 2020. *Journal of Molecular Pathology*, 2021, 11, 63. DOI: <https://doi.org/10.3390/jpm11020063>
3. Acknowledgement to reviewers of Nutrients in 2019. *Nutrients*, 2020. DOI: <https://doi.org/10.3390/nu12010273>
4. Kang BH, Cho JH, Kim SY, Jeong KA, Kim SH, Kim C, Lim SJ, Shim KS. Growth and bone mineral density changes in ovariectomized rats treated with estrogen receptor alpha or beta agonists. *J Korean Med Sci*. 2020, 35(45):e370. DOI: <https://doi.org/10.3346/jkms.2020.35.e370>
5. Acknowledgement to reviewers of Cancers in 2019. *Cancers*, 2020, 12, 243. DOI: <https://doi.org/10.3390/cancers12010243>
6. Acknowledgement to reviewers of Biomolecules in 2019. *Biomolecules*. 2020, 10, 145. DOI: <https://doi.org/10.3390/biom10010145>
7. Acknowledgement to reviewers. *Metabolism Clinical and Experimental*, 2019, 93:103-5
8. Xie B, Zhao L, Guo L, Liu H, Fu S, Fan W, Lin L, Chen J, Wang B, Fan L, Wei H. Benzyl isothiocyanate suppresses development and metastasis of murine mammary carcinoma by regulating the Wnt/ β -catenin pathway. *Molecular Medicine Reports*, 2019. DOI: <https://doi.org/10.3892/mmr.2019.10390>
9. 2018 Acknowledgment to reviewers. *Metabolism*. 2018, 82:156-65. DOI: <https://doi.org/10.1016/j.metabol.2018.03.013>
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11. Acknowledgment to reviewers. *Metabolism*, 2017, 69:211-3 [https://www.metabolismjournal.com/article/S0026-0495\(17\)30005-7/pdf](https://www.metabolismjournal.com/article/S0026-0495(17)30005-7/pdf)
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13. Giustina A *et al.* Acknowledgment of reviewers 2015. *Endocrine*, 2016, 54:841-8. DOI: <https://doi.org/10.1007/s12020-016-1154-8>
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15. Shurulinkov P, Stoyanov G, Komitov E, Daskalova G, Ralev A. Contribution to the knowledge on distribution, number and habitat preferences of rare and endangered birds in Western Rhodopes Mts, Southern Bulgaria. Strigiformes and Piciformes. *Acta Zool Bulg*, 2012, 64(1):43-56

16. Nankinov D, Dalakchieva S, Nikolov B, Shurulinkov P, Popov K, Kirilov S, Zareva K, Borisov B, Stojanov G, Nankinov N, Minchev N, Kjachukov D, Nikolov I, Stanchev R, Ganchev E. Studying the behaviour of birds during the solar eclipse on August 11, 1999. *Russian Ornithological Journal*, 2001, 142:355-369, ISSN 0869-4362

Invited Talks

Invited Courses

1. Animal models in reproductive biology. A 15-hours course for students in Biology, Medicine, and Veterinary Medicine, PhD students, and post-doctoral fellows at Sofia University "St. Kliment Ohridsky", 2015, Sofia, Bulgaria

Press Interviews and Mentions

1. Science & the Big Apple: A Bulgarian Fulbright Scholar at Lenox Hill Hospital, NYC. By Elitsa Pavlova. *Fulbright Bulgaria Newsletter*, 2022, 94, pp. 20-21
2. Obesity increases risk of breast cancer and worsens prognosis. Food for Breast Cancer, September 11th, 2022. <https://foodforbreastcancer.com/articles/obesity-increases-risk-of-breast-cancer-and-worsens-prognosis>
3. Maintaining a healthy diet with breast cancer. Yes, We Care, September 1st, 2022. <https://yeswecare.co.za/2022/09/01/maintaining-a-healthy-diet-with-breast-cancer/>
4. Fat-secreted molecule lowers response to common cancer treatment. *WorldHealth.net*, November 24th, 2021. <https://www.worldhealth.net/news/fat-secreted-molecule-lowers-response-common-cancer-treatment/>
5. Fat-secreted molecule lowers response to common cancer treatment. *Science Daily*, November 9th, 2021. <https://www.sciencedaily.com/releases/2021/11/211109095351.htm>
6. ["Mentors help young scientists say not to unreliable scientific journal publications"] (article in Greek) by Marilia Mavrikiou, *Open Knowledge*, Greece. <https://okfn.gr/%CE%BF%CE%B9-%CE%BC%CE%AD%CE%BD%CF%84%CE%BF%CF%81%CE%B5%CF%82-%CE%B2%CE%BF%CE%B7%CE%B8%CE%BF%CF%8D%CE%BD-%CF%84%CE%BF%CF%85%CF%82-%CE%BD%CE%AD%CE%BF%CF%85%CF%82-%CE%B5%CF%80%CE%B9%CF%83%CF%84%CE%AE/>
7. Australasian Human Research Ethics Consultancy Services Pty Ltd (AHRECS). Published/Released on January 14, 2019, Posted by Admin on February 2, 2019, "Mentors help authors say "no" to predatory journals – Elsevier Connect (Marilynn Larkin, November 2018)." https://ahrecs.com/resources/mentors-help-authors-say-no-to-predatory-journals-elsevier-connect-marilynn-larkin-november-2018?fbclid=IwAR1sWILDV_fuE1rh12yRd84_vEzc0OkBXEHv96tmDUDKjhE5vQAX1M02Jw
8. Interview for Northwell Health by Amy Pilot, January 15th, 2019, "Gerald J. Friedman Diabetes Institute"
9. Interview for Elsevier by Marilynn Larkin, November 14th, 2018, "Mentors help authors say "no" to predatory journals." <https://www.elsevier.com/connect/mentors-help-authors-say-no-to-predatory-journals>
10. Interview for Elsevier by Marilynn Larkin, August 22nd, 2018, "To thwart predatory publishing, we need to work together", "Mentoring helps authors say "no" to predatory journals", and "Supporting value: How rigorous processes & collaborations help ensure research integrity." <https://www.elsevier.com/connect/to-thwart-predatory-publishing-we-need-to-work-together>
11. Interview for Reuters Health by Will Boggs, Managed Health Care Connect, December 20th, 2016, "Increased Risk of bone fractures with pioglitazone use." <http://www.managedhealthcareconnect.com/content/increased-risk-bone-fractures-pioglitazone-use>
12. *The Catalyst*, May 2009, Volume I, Issue 4, p. 4
13. *The Catalyst*, October 2008, Volume I, Issue I, p. 4
14. *Leading The Way*, Spring 2007, cover and p. 3-4

Professional Consulting

2025-present	Consulting Expert Chinese National Higher Education Research Institute (CNHERI) Beijing, China
2022-present	Consulting Expert

VisasQ/Coleman Research
New York, New York, USA/Tokyo, Japan

2022-present **Consulting Expert**
Stream Media Group Holding Inc.
New York, New York, USA

Company Boards

2024-present **Team Member and Team Lead Clinical Trial**
Glycosa
<https://glycosa.org/team>

Volunteer Work

2019-present **Volunteer**
The Rumie Initiative
Work description: To develop and deliver low-cost technology that enables the distribution of digital learning resources to communities with limited internet service.
Virtual

2017 **Volunteer**
Wildlife Action Group
Work description: Protection of Malawi's wildlife and environment and assisting and supporting the Malawi government in the protection of national parks, game and forest reserves.
Thuma Forest Reserve, Malawi

2005-2008 **Volunteer-Photographer**
Brooklyn Animal Foster
Work description: Photograph works were used for preparing advertising materials and the organization's website.
Brooklyn, New York

Languages

Bulgarian	native proficiency
English	full professional working proficiency
German	professional working proficiency
Russian	limited working proficiency