

Anastasia Sacharidou, MSc, Ph.D.

Curriculum Vitae

General Information

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ORCID ID: 0000-0002-8474-4028
Published Work: <https://www.ncbi.nlm.nih.gov/myncbi/anastasia.sacharidou.1/bibliography/public/>
Google Scholar: <https://scholar.google.com/citations?hl=en&user=Z1SH5jcAAAAJ>
NIH Status: Early-Stage Investigator/New Investigator

Education

2010 Ph.D., Physiology
Department of Medical Pharmacology and Physiology
University of Missouri, Columbia, Missouri, USA

1999 MSc, Molecular Medicine
Imperial College of London, London, United Kingdom

1998 MSc, Molecular Medicine
University College of London, London, United Kingdom

1997 BSc, Cell and Molecular Biology
University of Essex, Colchester, United Kingdom

Other Education

2017 Postdoctoral Certificate in Advance Research
School of Biomedical Sciences
University of Texas Southwestern Medical Center, Dallas, Texas, USA

2015 Postdoctoral Certificate in Research
School of Biomedical Sciences
University of Texas Southwestern Medical Center, Dallas, Texas, USA

2015 Certificate in Responsible Conduct of Research
School of Biomedical Sciences
University of Texas Southwestern Medical Center, Dallas, Texas, USA

2014 Certificate in Ethics
Division of Basic Sciences
University of Texas Southwestern Medical Center, Dallas, Texas, USA

2014 Next Generation Sequencing and Data Analysis (short course)
School of Biomedical Sciences
University of Texas Southwestern Medical Center, Dallas, Texas, USA

Research Appointments

2024- present Assistant Professor (Tenure Track)
Department of Biological Sciences
University of North Texas

2020 – 2022	Instructor (Tenure track) Mentors: Dr. Philipp Scherer, Ph.D., and Dr. Philip W. Shaul, M.D. Laboratory of Dr. Philip W. Shaul, M.D. Center for Pulmonary and Vascular Biology Department of Pediatrics University of Texas Southwestern Medical Center, Dallas, Texas, US
2017 – 2019	Assistant Instructor Laboratory of Dr. Philip W. Shaul, M.D. (mentor) Center for Pulmonary and Vascular Biology Department of Pediatrics University of Texas Southwestern Medical Center, Dallas, Texas, USA
2013 – 2017	Postdoctoral Trainee Laboratory of Dr. Philip W. Shaul, M.D. (mentor), and Dr. Chieko Mineo, Ph.D. Center for Pulmonary and Vascular Biology Department of Pediatrics University of Texas Southwestern Medical Center, Dallas, Texas, USA
2010 – 2012	Postdoctoral Trainee Laboratory of Dr. George E. Davis, Ph.D. Department of Medical Pharmacology and Physiology University of Missouri, Columbia, Missouri, USA
2004 – 2006	Research Associate/Teaching Assistant Laboratory of Dr. Jorge Cruz- Reyes, Ph.D. Genetics Division Department of Biochemistry and Biophysics Texas A&M University, College Station, Texas, USA
2002 – 2004	Research Associate Laboratory of Dr. Craig Coates, Ph.D. Department of Entomology School of Biological Sciences Texas A&M University, College Station, Texas, USA
2001 – 2002	Research Fellow Laboratory of Dr. Makis Skoulakis, Ph.D. Department of Entomology School of Biological Sciences Texas A&M University, College Station, Texas, USA
2000 – 2001	Clinical Research Associate Department of Neurodegenerative Diseases Pfizer Hellas Athens, Greece
1999 – 2000	Research Associate Laboratory of Dr. Charalambos Roussos, M.D., Ph.D., FRCP(C), MRS Department of Lung Diseases Critical Care Unit EUAGELISMOS General Hospital, Athens, Greece

Mentoring/ Teaching Experience

2026 (Spring)	Assistant Professor, Histology (4300-001 new class & 4300-003 new lab), Department of Biological Sciences, UNT
2025 (Spring)	Assistant Professor, Endocrinology 4110/5110 (new class), Department of Biological Sciences, UNT
2013 – 2015	Adjunct Faculty Anatomy and Physiology SCIT 1307, SCIT 1407 and SCIT 1408 (AP& PI) Department of Science and Mathematics Brookhaven College, Dallas, Texas, USA
2012	Visiting Lecturer Cell and Molecular Biology classes Department of Respiratory Medicine Athens Medical School University, Athens, Greece
2004 – 2006	Teaching Assistant GENE 301 Comprehensive Genetics and BICH 432 Molecular Genetics (classes and labs) Department of Biochemistry and Biophysics Texas A&M University, College Station, Texas, USA

Professional Honors & Awards

2016	ATVB Junior Investigator Award for Women ATVB/PVD 2016 Scientific Sessions, 2016, Nashville, TN, USA
2010	2 nd place, Outstanding Poster Presentation Integrin Signaling in Physiology and Disease (NAVBO), Hyannis, Massachusetts, USA
2010	1 st place, Outstanding Poster Presentation Developmental Vascular Biology Workshop (NAVBO), Monterey, California, USA
2009	1 st place, Outstanding Abstract and Poster Presentation Department of Medical Pharmacology and Physiology University of Missouri, Columbia, Missouri, USA
2008	1 st place, Outstanding Poster Presentation Developmental Vascular Biology Workshop (NAVBO), Monterey, California, USA
2006	2 nd place Outstanding Abstract and Poster Presentation Texas A&M Agricultural Conference, South Padre, Texas, USA
2001	Outstanding Clinical Research Associate Award Aricept Clinical Trial for Alzheimer's Disease in Greece Pfizer New York, New York, USA
2000	Outstanding Clinical Research Associate Award Department of Cardiovascular Diseases EUAGELISMOS Hospital, Athens, Greece

Other Recognition

2021	Invited Speaker Molecular and Cellular Mechanisms of Atherosclerosis Session AHA/Vascular Discovery: From Genes to Medicine 2021 Scientific Sessions, Virtual
2016	Invited Speaker ATVB/PVD 2016 Scientific Sessions, Nashville, Tennessee, USA
2011	Invited Speaker Cardiovascular Gordon Conference, Hyannis, Massachusetts, USA
2008	Invited Speaker Experimental Biology (EB) Conference, San Diego, California, USA
2005	Invited Speaker RNA Editing Gordon Conference, Woods Hole, Massachusetts, USA

Grants and Fellowships

PENDING RESEARCH FUNDING

American Heart Association – innovative Project Award (PI: Anastasia Sacharidou) 2026

Title: Epigenomic Rewiring of the Blood-Brain Barrier Endothelium as a Targetable Driver of Stroke Injury
This project will define, for the first time, the stroke-induced epigenomic and transcriptional programs in blood-brain barrier endothelial cells during the acute 24-hour window after injury.
Role: Principal Investigator

Keck Foundation (Lead PI: Anastasia Sachardou/ co-I Rajeev Azad) 2026

Title: Endothelial Cell, The Gatekeeper of Glucose Homeostasis
Define microvascular endothelial cell (EC) dysfunction as a primary determinant of IR and a fundamental contributor to the pathogenesis of T2D.
Role: Lead Principal Investigator

PEW Biomedical Scholars (PI: Anastasia Sacharidou) 2026

Title: Endothelial Basis of Rheumatoid Arthritis-Induced Thrombosis
The objective of this proposal is to elucidate the mechanisms in ECs responsible for the increased thrombosis associated with RA.
Role: Principal Investigator

NIH/MIGMS -RLI-S10 (Equipment grant) (PI: Ed Dzialowski) 2026

Equipment grant for the purchase of Vevo F2 LT-high frequency ultrasound instrument for the new vivarium)
Role: Major User Faculty

NIH/NIGMS -RLI-S10 (Equipment grant) (PI: Toby Tao – TWU) 2026

Equipment grant for the purchase of NanoZoomer digital slide scanner for Texas Women University.
Role: Major User Collaborating Faculty

NIH/NIGMS-T32 (PI: Ed Dzialowsky) 2026

Training grant for the University of North Texas
Role: Contributing faculty

R21- NIH/ NIDDK**(PI: Anastasia Sacharidou)****2026**

Title: Endothelial Regulation of Insulin Action

The major goal of this project is to determine how insulin-related processes, in both mice and humans, are governed in the microvascular endothelium of skeletal muscle in health and disease to influence peripheral insulin action.

Role: Principal Investigator

COMPLETED RESEARCH FUNDING**R01 HL144969-A1****(PI: Shaul, Philip W)**

07/01/2020 – 06/30/2024

NIH/NHLBI

Title: Unraveling ApoE4 Promotion of Cardiometabolic Disease

The major goal of this project is to determine how endothelial actions of the apolipoprotein E variant apolipoprotein E4 contribute to vascular and metabolic disease.

Role: Faculty Investigator

R01 HD09439501**(PI: Mineo, Chieko)**

08/15/2018 – 05/31/2023

NIH/NHLBI

Title: Molecular Basis of Pregnancy Complications in the Antiphospholipid Syndrome

The major goal of this project is to determine the mechanisms by which antiphospholipid antibodies induce fetal loss, intrauterine growth restriction, and maternal hypertension through dysfunction of trophoblasts.

Role: Faculty Investigator

10xGenomics – Grant Program**(PI: Anastasia Sacharidou)**

09/2021

Title: Identifying Gene Regulatory Elements Controlling Endothelial Genes Dysregulated in Obesity-Induced T2D.

The primary goal of this project is to use chromium single-cell ATAC sequencing to analyze chromatin accessibility as the single-cell level of human skeletal muscle endothelial cells in healthy control and obesity-induced type 2 diabetic subjects.

Role: Principal Investigator

10xGenomics – Grant Program**(PI: Anastasia Sacharidou)**

09/2019

Title: Skeletal Muscle Endothelial Dysregulation in Type 2 Diabetes

The major goal of this project was to use single cell RNA sequencing to generate molecular maps of human skeletal muscle in healthy control and obesity-induced type 2 diabetic subjects.

Role: Principal Investigator

T32 HL098040**(PI: Terada, Lance)**

07/01/14 – 07/01/17

NIH/NHLBI

Training Program in Lung Biology and Disease

The primary goal of this project was to train pulmonary scientists who will investigate key questions in lung biology and translate this knowledge into advances in the management of lung diseases. Trainees will receive a comprehensive field- and project-specific didactic curriculum. Both clinical and basic science trainees will be guided by an individualized advisory committee that has both basic and clinical science mentors to broaden the trainee's perspective and facilitate bench-to-bedside thinking.

Role: Postdoctoral Fellow

Professional Societies

2007 – Present

Active Member, American Heart Association

2007 – Present

Member, North American Vascular Biology Organization (NAVBO)

2017 – Present

Active Member, American Diabetes Association

Extramural Professional Service

2014 – 2022	Lean-In Circle for Women UTSW (group leader)
2019 – Present	Ad-hoc scientific journal reviewer for <i>Molecular Medicine Journal</i> and <i>Atherosclerosis Journal</i>
2019 – Present	AHA Early Career Committee member
2021 – Present	Women & Allies Business Resource Group, Office of Institutional Equity and Access, Division of Diversity & Inclusion, UT Southwestern Medical Center

First Author Manuscripts Submitted for Peer Review

Sacharidou A, Chambliss K, Tanigaki K, Lee WR, Yuhanna I, Chu H, Hui DY, Abe J, Shaul PW, Mineo C. Breakpoint Cluster Region Protein is a Novel Akt Kinase That Mediates HDL Actions in Endothelium. (UNDER REVIEW at Cardiovascular Research Journal).

Collaborative Manuscripts Submitted for Peer Review

Sharon Wu; Thandiwe Chavula; Costanza Calamai, Catherine R. Wasser; Iva Lazarrova¹; Miranda Leal-Garcia; Muriel Busson; Claire Peghaire; **Anastasia Sacharidou**; Bingying Chen; Reto Fiolka; Maria Z Kounnas; Joachim Herz, M.D; Laurent Calvier. A self-amplifying brain-periphery inflammatory loop driven by circulating Reelin sustains neurovascular dysfunction in Alzheimer's disease. (UNDER REVIEW at Nature journal)

Publications (newest to oldest)

- 1) **Sacharidou A**, Chambliss KL, Peng J, Tanigaki K, Islam MN, Sirsi S, Lemoff A, Hoyt K, Mineo C, Shaul PW. Apolipoprotein E receptor 2 in endothelium promote glucose tolerance by mediating insulin delivery to skeletal muscle. *Mol Metab.* 2025 Nov;101:102238. doi: 10.1016/j.molmet.2025.102238. Epub 2025 Sep 2. PMID: 40907945
- 2) Papaetis GS, Picolos MK, **Sacharidou A**. Pioglitazone with SGLT2 inhibitors or GLP-1 receptor agonists in patients with type 2 diabetes and non-alcoholic fatty liver disease: could the combinations of an old friend with new players yield better outcomes? *Arch Med Sci Atheroscler Dis.* 2025 Mar 14;10:e1-e15. doi: 10.5114/amsad/202298. eCollection 2025. PMID: 40620743
- 3) Papaetis GS, **Sacharidou A**, Michaelides IC, Mikellidis KC, Karvounaris SA. Insulin Resistance, Hyperinsulinemia and Atherosclerosis: Insights into Pathophysiological Aspects and Future Therapeutic Prospects. *Curr Cardiol Rev.* 2024 Oct 16. Doi:10.2174/011573403X314035241006185109. PMID: 39415589
- 4) **Sacharidou A**, Chambliss K, Peng J, Barrera J, Tanigaki K, Luby-Phelps K, Özdemir İ, Khan S, Sirsi SR, Kim SH, Katzenellenbogen BS, Katzenellenbogen JA, Kanchwala M, Sathe AA, Lemoff A, Xing C, Hoyt K, Mineo C, Shaul PW. Endothelial ER α promotes glucose tolerance by enhancing endothelial insulin transport to skeletal muscle. *Nat Commun.* 2023 Aug 17;14(1):4989. doi:10.1038/s41467-023-40562-w. PMID: 37591837; PMCID: PMC10435471.
- 5) Yu L, Xu L, Chu H, Peng J, **Sacharidou A**, Hsieh HH, Weinstock A, Khan S, Ma L, Durán JGB, McDonald J, Nelson ER, Park S, McDonnell DP, Moore KJ, Huang LJ, Fisher EA, Mineo C, Huang L, Shaul PW. Macrophage-to-endothelial cell crosstalk by the cholesterol metabolite 27HC promotes atherosclerosis in male mice. *Nat Commun.* 2023 Jul 25;14(1):4101. doi: 10.1038/s41467-023-39586-z. PMID: 37491347; PMCID: PMC10368733.
- 6) Calvier L, Manouchehri N, **Sacharidou A**, Mineo C, Shaul PW, Hui DY, Kounnas MZ, Stüve O, Herz J. Apolipoprotein E receptor 2 deficiency decreases endothelial adhesion of monocytes and protects against autoimmune encephalomyelitis. *Sci Immunol.* 2021 Aug 27;6(62):eabd0931.

- 7) Chu H*, **Sacharidou A***, Nguyen A, Li C, Chambliss KL, Salmon JE, Shen YM, Lo J, Leone GW, Herz J, Hui DY, Marciano DK, Abrahams VM, Natale BV, Montalbano AP, Xiao X, Xu L, Natale DR, Shaul PW, Mineo C. Protein Phosphatase 2A Activation Via ApoER2 in Trophoblasts Drives Preeclampsia in a Mouse Model of the Antiphospholipid Syndrome. *Circ Res.* 2021 Sep 17;129(7):735-750. doi: 10.1161/CIRCRESAHA.120.318941. Epub 2021 Aug 18. PMID: 34404233; PMCID: PMC8448973. (* **joint first authors**)
- 8) Calvier L, Xian X, Lee RG, **Sacharidou A**, Mineo C, Shaul PW, Kounnas MZ, Tsai S, Herz J. Reelin Depletion Protects Against Atherosclerosis by Decreasing Vascular Adhesion of Leukocytes. *Arterioscler Thromb Vasc Biol.* 2021 Apr;41(4):1309-1318. doi: 10.1161/ATVBAHA.121.316000. Epub 2021 Feb 25. PMID: 33626909; PMCID: PMC7990715.
- 9) Calvier L, Demuth G, Manouchehri N, Wong C, **Sacharidou A**, Mineo C, Shaul PW, Monson NL, Kounnas MZ, Stüve O, Herz J. Reelin depletion protects against autoimmune encephalomyelitis by decreasing vascular adhesion of leukocytes. *Sci Transl Med.* 2020 Aug 12;12(556):eaay7675. doi: 10.1126/scitranslmed.aay7675. PMID: 32801146; PMCID: PMC7860587.
- 10) Peng J, Vongpatanasin W, **Sacharidou A**, Kifer D, Yuhanna IS, Banerjee S, Tanigaki K, Polasek O, Chu H, Sundgren NC, Rohatgi A, Chambliss KL, Lauc G, Mineo C, Shaul PW. Supplementation With the Sialic Acid Precursor N-Acetyl-D-Mannosamine Breaks the Link Between Obesity and Hypertension. *Circulation.* 2019 Dec 10;140(24):2005-2018. doi: 10.1161/CIRCULATIONAHA.119.043490. Epub 2019 Oct 10. PMID: 31597453; PMCID: PMC7027951.
- 11) **Sacharidou A**, Chambliss KL, Ulrich V, Salmon JE, Shen YM, Herz J, Hui DY, Terada LS, Shaul PW, Mineo C. Antiphospholipid antibodies induce thrombosis by PP2A activation via apoER2-Dab2-SHC1 complex formation in endothelium. *Blood.* 2018 May 10;131(19):2097-2110. doi: 10.1182/blood-2017-11-814681. Epub 2018 Mar 2. PMID: 29500169; PMCID: PMC5946764.
- 12) Tanigaki K, **Sacharidou A**, Peng J, Chambliss KL, Yuhanna IS, Ghosh D, Ahmed M, Szalai AJ, Vongpatanasin W, Mattrey RF, Chen Q, Azadi P, Lingvay I, Botto M, Holland WL, Kohler JJ, Sirsi SR, Hoyt K, Shaul PW, Mineo C. Hyposialylated IgG activates endothelial IgG receptor FcγRIIB to promote obesity-induced insulin resistance. *J Clin Invest.* 2018 Jan 2;128(1):309-322. doi: 10.1172/JCI89333. Epub 2017 Nov 27. PMID: 29202472; PMCID: PMC5749535.
- 13) **Sacharidou A**, Shaul PW, Mineo C. New Insights in the Pathophysiology of Antiphospholipid Syndrome. *Semin Thromb Hemost.* 2018 Jul;44(5):475-482. doi:10.1055/s-0036-1597286. Epub 2017 Jan 27. PMID: 28129662; PMCID: PMC6333209.
- 14) Mineo C, Lanier L, Jung E, Sengupta S, Ulrich V, **Sacharidou A**, Tarango C, Osunbunmi O, Shen YM, Salmon JE, Brekken RA, Huang X, Thorpe PE, Shaul PW. Identification of a Monoclonal Antibody That Attenuates Antiphospholipid Syndrome-Related Pregnancy Complications and Thrombosis. *PLoS One.* 2016 Jul 27;11(7):e0158757. doi: 10.1371/journal.pone.0158757. PMID: 27463336; PMCID: PMC4963039.
- 15) Tanigaki K, Chambliss KL, Yuhanna IS, **Sacharidou A**, Ahmed M, Atochin DN, Huang PL, Shaul PW, Mineo C. Endothelial Fcγ Receptor IIB Activation Blunts Insulin Delivery to Skeletal Muscle to Cause Insulin Resistance in Mice. *Diabetes.* 2016 Jul;65(7):1996-2005. doi: 10.2337/db15-1605. Epub 2016 Apr 26. PMID: 27207525; PMCID: PMC4915578.
- 16) Ulrich V, Gelber SE, Vukelic M, **Sacharidou A**, Herz J, Urbanus RT, de Groot PG, Natale DR, Harihara A, Redecha P, Abrahams VM, Shaul PW, Salmon JE, Mineo C. ApoE Receptor 2 Mediation of Trophoblast Dysfunction and Pregnancy Complications Induced by Antiphospholipid Antibodies in Mice. *Arthritis Rheumatol.* 2016 Mar;68(3):730-739. doi: 10.1002/art.39453. PMID: 26474194; PMCID: PMC47675511

- 17) Lee EE, **Sacharidou A**, Mi W, Salato VK, Nguyen N, Jiang Y, Pascual JM, North PE, Shaul PW, Mettlen M, Wang RC. A Protein Kinase C Phosphorylation Motif in GLUT1 Affects Glucose Transport and is Mutated in GLUT1 Deficiency Syndrome. *Mol Cell*. 2015 Jun 4;58(5):845-53. doi: 10.1016/j.molcel.2015.04.015. Epub 2015 May 14. PMID: 25982116; PMCID: PMC4458224.
- 18) Lee WR, **Sacharidou A**, Behling-Kelly E, Oltmann SC, Zhu W, Ahmed M, Gerard RD, Hui DY, Abe J, Shaul PW, Mineo C. PDZK1 prevents neointima formation via suppression of breakpoint cluster region kinase in vascular smooth muscle. *PLoS One*. 2015 Apr 17;10(4):e0124494. doi: 10.1371/journal.pone.0124494. PMID: 25886360; PMCID: PMC4401672.
- 19) Yuan L, Le Bras A, **Sacharidou A**, Itagaki K, Zhan Y, Kondo M, Carman CV, Davis GE, Aird WC, Oettgen P. ETS-related gene (ERG) controls endothelial cell permeability via transcriptional regulation of the claudin 5 (CLDN5) gene. *J Biol Chem*. 2012 Feb 24;287(9):6582-91. doi: 10.1074/jbc.M111.300236. Epub 2012 Jan 10. PMID: 22235125; PMCID: PMC3307294.
- 20) **Sacharidou A**, Stratman AN, Davis GE. Molecular mechanisms controlling vascular lumen formation in three-dimensional extracellular matrices. *Cells Tissues Organs*. 2012;195(1-2):122-43. doi: 10.1159/000331410. Epub 2011 Oct 13. PMID: 21997121; PMCID: PMC3325603.
- 21) Yuan L, **Sacharidou A**, Stratman AN, Le Bras A, Zwiers PJ, Spokes K, Bhasin M, Shih SC, Nagy JA, Molema G, Aird WC, Davis GE, Oettgen P. RhoJ is an endothelial cell-restricted Rho GTPase that mediates vascular morphogenesis and is regulated by the transcription factor ERG. *Blood*. 2011 Jul 28;118(4):1145-53. doi: 10.1182/blood-2010-10-315275. Epub 2011 May 31. PMID: 21628409; PMCID: PMC3148162.
- 22) Chan AC, Drakos SG, Ruiz OE, Smith AC, Gibson CC, Ling J, Passi SF, Stratman AN, **Sacharidou A**, Revelo MP, Grossmann AH, Diakos NA, Davis GE, Metzstein MM, Whitehead KJ, Li DY. Mutations in 2 distinct genetic pathways result in cerebral cavernous malformations in mice. *J Clin Invest*. 2011 May;121(5):1871-81. doi: 10.1172/JCI44393. Epub 2011 Apr 1. Erratum in: *J Clin Invest*. 2012 May 1;122(5):1948. PMID: 21490399; PMCID: PMC3083782.
- 23) Davis GE, Stratman AN, **Sacharidou A**, Koh W. Molecular basis for endothelial lumen formation and tubulogenesis during vasculogenesis and angiogenic sprouting. *Int Rev Cell Mol Biol*. 2011; 288:101-65. doi: 10.1016/B978-0-12-386041-5.00003-0. PMID: 21482411; PMCID: PMC3891664.
- 24) Xu K, **Sacharidou A**, Fu S, Chong DC, Skaug B, Chen ZJ, Davis GE, Cleaver O. Blood vessel tubulogenesis requires Rasip1 regulation of GTPase signaling. *Dev Cell*. 2011 Apr 19;20(4):526-39. doi: 10.1016/j.devcel.2011.02.010. Epub 2011 Mar 10. PMID: 21396893; PMCID: PMC3078994.
- 25) **Sacharidou A**, Koh W, Stratman AN, Mayo AM, Fisher KE, Davis GE. Endothelial lumen signaling complexes control 3D matrix-specific tubulogenesis through interdependent Cdc42- and MT1-MMP-mediated events. *Blood*. 2010 Jun 24;115(25):5259-69. doi: 10.1182/blood-2009-11-252692. Epub 2010 Mar 9. PMID:20215637; PMCID: PMC2892954.
- 26) Fisher KE*, **Sacharidou A***, Stratman AN, Mayo AM, Fisher SB, Mahan RD, Davis MJ, Davis GE. MT1-MMP- and Cdc42-dependent signaling co-regulate cell invasion and tunnel formation in 3D collagen matrices *J Cell Sci*. 2009 Dec 15;122(Pt 24):4558-69. Doi: 10.1242/jcs.050724. Epub 2009 Nov 24. PMID: 19934222; PMCID: PMC2787465. (joint first authors)
- 27) Koh W, Sachidanandam K, Stratman AN, **Sacharidou A**, Mayo AM, Murphy EA, Cheresch DA, Davis GE. Formation of endothelial lumens requires a coordinated PKCepsilon-, Src-, Pak- and Raf-kinase-dependent signaling cascade downstream of Cdc42 activation. *J Cell Sci*. 2009 Jun 1;122(Pt 11):1812-22. doi: 10.1242/jcs.045799. Epub 2009 May 12. PMID: 19435802; PMCID: PMC2684834.

- 28) Stratman AN, Saunders WB, **Sacharidou A**, Koh W, Fisher KE, Zawieja DC, Davis MJ, Davis GE. Endothelial cell lumen and vascular guidance tunnel formation requires MT1-MMP-dependent proteolysis in 3- dimensional collagen matrices. *Blood*. 2009 Jul 9;114(2):237-47. doi: 10.1182/blood-2008-12-196451. Epub 2009 Apr 1. PMID: 19339693; PMCID: PMC2714200.
- 29) Koh W, Stratman AN, **Sacharidou A**, Davis GE. In vitro three-dimensional collagen matrix models of endothelial lumen formation during vasculogenesis and angiogenesis. *Methods Enzymol*. 2008; 443:83-101. doi: 10.1016/S0076-6879(08)02005-3. PMID: 18772012.
- 30) Hernandez A, Panigrahi A, Cifuentes-Rojas C, **Sacharidou A**, Stuart K, Cruz- Reyes J. Determinants for association and guide RNA-directed endonuclease cleavage by purified RNA editing complexes from *Trypanosoma brucei*. *J Mol Biol*. 2008 Aug 1;381(1):35-48. doi: 10.1016/j.jmb.2008.05.003. Epub 2008 May 8. PMID: 18572190; PMCID: PMC2596986.
- 31) Halbig K*, **Sacharidou A***, De Nova-Ocampo M, Cruz-Reyes J. Preferential interaction of a 25kDa protein with an A6 pre-mRNA substrate for RNA editing in *Trypanosoma brucei*. *Int J Parasitol*. 2006 Oct;36(12):1295-304. doi: 10.1016/j.ijpara.2006.05.011. Epub 2006 Jun 19. PMID: 16860325. **(joint first authors)**
- 32) **Sacharidou A**, Cifuentes-Rojas C, Halbig K, Hernandez A, Dangott LJ, De Nova- Ocampo M, Cruz-Reyes J. RNA editing complex interactions with a site for full-round U deletion in *Trypanosoma brucei*. *RNA*. 2006 Jul;12(7):1219-28. doi: 10.1261/rna.2295706. Epub 2006 May 11. PMID: 16690999; PMCID: PMC1484423.
- 33) Cifuentes-Rojas C, **Sacharidou A**, Halbig K, De Nova-Ocampo M, Cruz-Reyes J. Minimal pre-mRNA substrates with natural and converted sites for full-round U insertion and U deletion RNA editing in trypanosomes. *Nucleic Acids Res*. 2005 Nov 23;33(20):6610-20. doi: 10.1093/nar/gki943. PMID: 16306234; PMCID: PMC1298919.
- 34) Rasidakis A, Orphanidou D, Kalomenidis J, Papamichalis G, Toumbis M, Lambaditis J, **Sacharidou A**, Papastamatiou H, Jordanoglou J. Expression of mdm-2 protein in neoplastic, preneoplastic, and normal bronchial mucosa specimens: comparative study with p53 expression. *Hybridoma*. 1998 Aug;17(4):339-45. doi: 10.1089/hyb.1998.17.339. PMID: 9790068.
- 35) Orfanidou D, Kalomenidis J, Rasidakis A, Papamichalis G, Toumbis M, Labaditis J, **Sacharidou A**, Papastamatiou H, Jordanoglou J. Immunohistochemical detection of p53 protein in neoplastic, preneoplastic and normal bronchial mucosa specimens obtained during diagnostic bronchoscopy. *Oncol Rep*. 1998 May-Jun;5(3):763-9. doi: 10.3892/or.5.3.763. PMID: 9538

