

**ANDRIANA P. NIKOLOVA, M.D., PHD**

**CURRICULUM VITAE**

April 14<sup>th</sup>, 2021

**PROFESSIONAL CONTACT INFORMATION**

Business Address: Cedars-Sinai Medical Center  
8700 Beverly Blvd  
Los Angeles, CA 90048

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**EDUCATION**

**Undergraduate**

Grinnell College, Grinnell, IA 2003-2007  
B.A, Honors in Biochemistry and Mathematics

**Medical Education**

Harvard Medical School, Boston, MA 2007-2012  
Harvard-MIT Division of Health, Sciences and Technology

**Residency**

Brigham and Women's Hospital, Boston, MA 2012-2015

**General Cardiology Fellowship**

Cedars-Sinai Medical Center, Los Angeles, CA 2015-2019  
Chief Cardiology Fellow (2017-2018)

Cedars-Sinai Medical Center, Los Angeles, CA 2016-2019  
PhD in Biomedical Sciences and Translational Medicine  
Supported by NIH T32 training grant, Laboratory of TingTing Hong, MD, PhD

Cedars-Sinai Medical Center, Los Angeles, CA 2019-  
Advanced Heart Failure and Transplantation Fellowship

**LICENSURE:**

National Provider Identifier (NPI), 1841551694 2012-  
California Medical License, #A136106 2015 -  
Drug Enforcement Administration (DEA), FN6427478 2019-

### **BOARD CERTIFICATION:**

Internal Medicine, American Board of Internal Medicine	2015-
Adult Echocardiography – Level III	2017-
Cardiovascular Disease, American Board of Internal Medicine	2018-
Cardiovascular Computed Tomography – Level III+	2018-

### **PROFESSIONAL EXPERIENCE:**

#### **Present Position:**

09/2020 –	Attending Physician, California Heart Center, Cedars-Sinai Heart Institute, Los Angeles, California
02/2016 –	Sub-principal investigator of the SOPRANO clinical trial

#### **Previous Position:**

2012 – 2017	CEO and Co-Founder, Yosko, Inc. Los Angeles, California
2018 – 2019	ACC FIT Newsletter Editor, Women in Cardiology Section

### **PROFESSIONAL ACTIVITIES:**

#### **Committee Services:**

2020 –	Heart Transplant Executive Committee Meeting
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#### **Professional Associations/Society Memberships:**

2019 –	Member, American Heart Association
2020 -	Member, American Society of Transplantation
2020 –	Member, International Society for Heart and Lung Transplantation

### **HONORS AND SPECIAL AWARDS:**

2001	Recipient of the Soros Foundation full scholarship for academic exchange year in the USA – one of 7 Bulgarian students selected across all foreign language schools in the country.
2003	Recipient of the Special Eastern European Scholarship – a full scholarship for four years of studies at Grinnell College, awarded to the single applicant from Eastern Europe exhibiting exceptional promise.
2006	Recipient of the Joseph Wall Scholarship – awarded to the single junior who has established outstanding academic records and made a significant contribution to the college community.
2006	Recipient of the Fischlowitz International Travel Fellowship – awarded for my project to construct a vignette of the health care status across the major cities of the USA.
2007	Recipient of the Jack Kent Cooke Foundation full scholarship for four years of studies at Harvard Medical School
2007	Elected member of the Phi Beta Kappa Society
2015	IBM Watson Top 10 Entrepreneur in the world
2016	Recipient of the Eliot Corday Outstanding Fellow of the Year award
2016	Women in Cardiology Trainee Award for Excellence presented by the American Heart

Association Council on Clinical Cardiology

- 2017 Recipient of the Mandell Research Award, Cedars Sinai Medical Center, Los Angeles, CA
- 2017 Young Investigator Award Runner-Up, European Society of Cardiology Heart Failure Summit, Paris, France
- 2017-2018 Chief Cardiology Fellow, Cedars Sinai Medical Center, Los Angeles, CA
- 2018 Clinical Fellow Best Research Award, Los Angeles, CA
- 2018 Recipient of the Eliot Corday Outstanding Fellow of the Year award, Cedars-Sinai Medical Center, Los Angeles, CA
- 2019 Selected participant in the HFSA Future Leaders in Heart Failure Symposium, Washington DC

**RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:**

**Completed:**

**4T32HL116273-04 (MPI)**

**Eduardo Marban (PI)**

**07/01/2017-06/30/2019**

**BIN1** regulates t-tubule organization in heart failure with preserved ejection fraction The goal of this project is to determine the role of the t-tubule protein Bridging Integrator 1 (BIN1) in cardiac remodeling in a rat model of heart failure with preserved ejection fraction. Role: PhD student scientist

## **BIBLIOGRAPHY/PUBLICATIONS**

### **Research Papers – Peer Reviewed:**

1. Lee MN, Takawira D, **Nikolova AP**, Ballou DP, Furtado VC, Phung NL, Still BR, Thorstad MK, Tanner JJ, Trimmer EE. A Functional Role for the Conformationally Mobile Phenylalanine 223 in the Reaction of Methylenetetrahydrofolate Reductase from *E. coli*. *Biochemistry* 48 (32), pp 7673–7685, 2009. PMID: 19610625
2. **Nikolova AP**, Ablasser K, von Ballmoos MCW, Poutias D, Kaza E, McGowen FX, Moses MA, del Nido PJ, Friehs I. Endogenous Angiogenesis Inhibitors Prevent Adaptive Capillary Growth in Left Ventricular Pressure-Overload Hypertrophy. *Ann Thorac Surg.* 94 (5): pp1509-17, 2012. PMID: 22795062
3. Loffredo FS, **Nikolova AP**, Pancoast JR, Lee RT. Heart failure with preserved ejection fraction: molecular pathways of the aging myocardium. *Circ Res.* 115 (1): pp 97-107, 2015. PMID: 24951760
4. Zuo C, Jolly AL, **Nikolova AP**, Satzer DI, Cao S, Sanchez JS, Ballou DP, Trimmer EE. A role for glutamine 183 in the folate oxidative half-reaction of methylenetetrahydrofolate reductase from *Escherichia coli*. *Arch Biochem Biophys.* 2018 Mar 15;642:63-74. PMID: 29407039
5. Shaw RM, **Nikolova AP**. A Surprising Noncanonical Role for Calcineurin in Pressure-Induced Cardiac Hypertrophy. *J Am Coll Cardiol.* 2018 Feb 13;71(6):668-669. PMID: 29420963
6. **Nikolova AP**, Shaw RM. Are cytokines ready for prime time? Insights from markers and trials. *Trends Cardiovasc Med.* 2018 Aug;28(6):380-381. PMID: 29661709
7. **Nikolova AP**, Hitzeman TC, Baum R, Caldaruse AM, Agvanian S, Xie Y, Geft DR, Chang DH, Moriguchi JD, Hage A, Azarbal B, Czer LS, Kittleson MM, Patel JK, Wu AHB, Kobashigawa JA, Hamilton M, Hong T, Shaw RM. Association of a Novel Diagnostic Biomarker, the Plasma Cardiac Bridging Integrator 1 Score, With Heart Failure With Preserved Ejection Fraction and Cardiovascular Hospitalization. *JAMA Cardiol.* 2018 Dec 1;3(12):1206-1210. PMID: 30383171
8. Shaw RM, **Nikolova AP**. The Clinical Course of a Genetic Dilated Cardiomyopathy: Letting the Cat Out of the BAG3. *J Am Coll Cardiol.* 2018 Nov 13;72(20):2482-2484. PMID: 30442291
9. **Nikolova AP**, Kobashigawa JA. Cardiac allograft vasculopathy-the enduring enemy of cardiac transplantation. *Transplantation.* 2019 Jul;103(7):1338-1348. PMID: 31241553
10. **Nikolova AP**, Hong T, Shaw RM. Letter by Nikolova et al Regarding Article, "Heart Failure With Preserved Ejection Fraction in Perspective". *Circ Res.* 2019 Aug 2;125(4):e24-e25. PMID: 31518204
11. **Nikolova AP**, Kobashigawa JA. Is the Yardstick for Post-Transplant Outcomes Too Short? *Circ Heart Fail.* 2019 Nov;12(11):e006575. PMID: 31718317
12. Hitzeman TC, Xie Y, Zadikany RH, **Nikolova AP**, Baum R, Caldaruse AM, Agvanian S, Melmed GY, McGovern DPB, Geft DR, Chang DH, Moriguchi JD, Hage A, Azarbal B, Czer LS, Kittleson MM, Patel JK, Wu AHB, Kobashigawa JA, Hamilton M, Hong T, Shaw RM. cBIN1 Score (CS) Identifies Ambulatory HF<sub>r</sub>EF Patients and Predicts Cardiovascular Events. *Front Physiol.* 2020 May 25;11:503. doi: 10.3389/fphys.2020.00503. PMID: 32670075; PMCID: PMC7326053.

13. **Nikolova A**, Youn JC, Kobashigawa JA. Commentary: The anticlimax of the left ventricular assist devices-associated antibodies. *J Thorac Cardiovasc Surg.* 2020 Jul 11:S0022-5223(20)32011-0. doi: 10.1016/j.jtcvs.2020.06.090. Epub ahead of print. PMID: 32768302.
14. **Nikolova AP**, Kobashigawa JA. Donor-specific antibodies in heart transplantation: can we afford the price or is it too steep to pay? *Curr Opin Organ Transplant.* 2020 Dec;25(6):555-562. doi: 10.1097/MOT.0000000000000818.PMID: 33044348

**Research Papers – Peer Reviewed (In Press): None**

**Research Papers – Peer Reviewed (Submitted): None**

**Chapters:**

**Letters: None**

**Reviews: None**

**Editorials: None**

**Papers in Preparation (Research Completed): None**

**Abstracts:**

1. Kolachalama VB, Wu CY, Levine EG, **Nikolova AP**, Edelman ER. Stent distensibility and arterial drug distribution: Importance of integrative modeling approaches. Third FDA/NHLBI/NSF Workshop on Cardiovascular Devices, Rockville, MD, 2010.
2. **Nikolova AP**, Passano E, Aintablian T, Arabia F, Czer L, Moriguchi J, Kobashigawa K. What factors influence right ventricular (RV) function improvement in the setting of pulmonary pressures normalization after left ventricular assist device (LVAD) placement? Abstract, ISHLT Conference, April 6th 2017.
3. **Nikolova AP**, Hitzeman TC, Baum R, Xu B, Agvanian S, Xie Y, Geft D, Chang D, Moriguchi J, Hage A, Azarbal B, Czer L, Kittleson M, Patel J, Kobashigawa J, Hamilton M, Hong TT, Shaw RM. Plasma Based cBIN1 Levels Correlate with Myocardial Health. Oral presentation/Young Investigator Award Runner-up at the ESC Heart Failure Congress April 29th, 2017.
4. **Nikolova AP**, Hitzeman TC, Baum R, Xu B, Agvanian S, Xie Y, Geft D, Chang D, Moriguchi J, Hage A, Azarbal B, Czer L, Kittleson M, Patel J, Kobashigawa J, Hamilton M, Hong TT, Shaw RM. cBIN1 – A Novel Marker of Myocardial Health. Oral presentation at the Gordon Research Conference on Muscle Excitation Contraction Coupling, Les Diablerets, Switzerland, June 8th 2017.
5. **Nikolova AP**, Hitzeman TC, Baum R, Xu B, Agvanian S, Xie Y, Geft D, Chang D, Moriguchi J, Hage A, Azarbal B, Czer L, Kittleson M, Patel J, Kobashigawa J, Hamilton M, Hong TT, Shaw RM. Plasma cBIN1 Based Heart Failure Index Identifies Patients With HFpEF and Prognosticates Future Hospitalizations. AHA Poster Presentation. November 14th, 2017.
6. **Nikolova AP**, Hitzeman TC, Baum R, Xu B, Agvanian S, Xie Y, Geft D, Chang D, Moriguchi J, Hage A, Azarbal B, Czer L, Kittleson M, Patel J, Kobashigawa J, Hamilton M, Hong TT, Shaw RM. Plasma

cBIN1 Based Score (CS) as a marker of myocardial health. Invited oral presentation at the Peking University Hypertension and Metabolism Forum, Beijing, China, March 17th 2018.

7. **Nikolova AP**, Zhou K, Agvanian S, Hou J, Aynaszyan S, Cho JH, Goldhaber J, Marban E, Shaw RM, Hong TT. Tubule Morphology Distinguishes HFpEF from HFrEF cardiomyocytes. AHA Abstract Presentation. November 11th, 2018.
8. Hitzeman TC, Xie Y, Zadikany R, **Nikolova AP**, Baum R, Caldaruse AM, Agvanian S, Melmed G, McGovern DT, Geft DR, Chang DH, Moriguchi JD, Hage A, Azarbal B, Czer LS, Kittleson MM, Patel JK, Kobashigawa JA, , Hong T, Shaw RM. Cardiac Bridging Integrator 1 Score Identifies Ambulatory Heart Failure With Reduced Ejection Fraction and Predicts Cardiovascular Events. Abstract. AHA 2019. Philadelphia, PA.
9. Miller R, **Nikolova A**, Kwan A, Levine R, Dimbil S, Kobashigawa J, Kransdorf E, Patel J, Thomson L, Li D, Berman D, and Tamarappoo B. *Multiparametric Cardiac Magnetic Resonance Phenotyping of Patients with a History of Cardiac Transplant Rejection*. J Am Coll Cardiol. 2019; 73(9, supp 1): 1639.