



LAUREN PARKER JACKSON, PH.D.

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES
AND BIOCHEMISTRY

Lauren Jackson, Ph.D. earned her B.S. degree in chemistry at Vanderbilt University, where she graduated *summa cum laude* as the College of Arts & Sciences Founders Medalist. She undertook her Ph.D. degree at the MRC Laboratory of Molecular Biology and Trinity College in Cambridge, UK, and completed postdoctoral training at the Cambridge Institute for Medical Research. Dr. Jackson began her faculty appointment at Vanderbilt in January 2014 and is currently affiliated with the Center for Structural Biology, Chemical & Physical Biology Program, Epithelial Biology Center, and Vanderbilt Brain Institute.

Dr. Jackson's work focuses on understanding the molecular mechanisms that govern membrane trafficking processes. Her doctoral and postdoctoral work focused on determining X-ray crystal structures that elucidated how vesicle coat proteins recognize specific linear and folded motifs found in transmembrane proteins in the context of binding membranes. Currently funded by the Pew Charitable Trusts and the National Institute of General Medical Sciences, her lab currently focuses on understanding the roles of non-clathrin coat assembly and regulation in both fundamental cell biology and human disease.

Dr. Jackson is active in undergraduate teaching, both in and out of the lab. She currently teaches biochemistry to juniors and seniors. She serves as the Associate Director of the Vanderbilt Beckman Scholars Program and was named a 2016 Littlejohn Faculty Fellow as part of the Vanderbilt Undergraduate Summer Research Program (VUSRP). Dr. Jackson was named a Pew Scholar in 2016, is a current member of the American Society for Cell Biology (ASCB), and serves on the editorial board for the journal, *Traffic*.

THE
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LECTURE SERIES

VANDERBILT CUTTING-EDGE DISCOVERY

**CUTTING-EDGE MOLECULAR TOOLS DRIVE
BASIC SCIENCE DISCOVERY AND PATIENT CARE**

MARIJA ZANIC, PH.D.

CHRISTINE M. LOVLY, M.D., PH.D.

LAUREN PARKER JACKSON, PH.D.

SEPTEMBER 21, 2017

4:00 P.M.

208 LIGHT HALL

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VANDERBILT  UNIVERSITY
MEDICAL CENTER



MARIJA ZANIC, PH.D.

**ASSISTANT PROFESSOR OF
CELL & DEVELOPMENTAL BIOLOGY AND
CHEMICAL AND BIOMOLECULAR ENGINEERING**

Marija Zanic, Ph.D., is an Assistant Professor of Cell and Developmental Biology at Vanderbilt University School of Medicine. Dr. Zanic received her M.S. degree in Physics from the University of Zagreb, Croatia. She continued her studies in theoretical physics at the University of Texas at Austin, where she completed her Ph.D. degree in Physics in 2007. Dr. Zanic obtained her postdoctoral training in biophysics at the Max Planck Institute of Molecular Cell Biology and Genetics in Dresden, Germany. She spent a year as an Associate Research Scientist in the Department of Molecular Biophysics and Biochemistry at Yale University prior to starting her independent laboratory at Vanderbilt University in August 2014.

Dr. Zanic's research focuses on elucidating the molecular mechanisms underlying the dynamic architecture of the microtubule cytoskeleton. In line with Dr. Zanic's background and expertise, the Zanic laboratory uses a highly multidisciplinary research approach, combining the tools of biology and physics. Dr. Zanic holds a secondary appointment in the Department of Chemical and Biomolecular Engineering, is a Faculty Fellow of the Vanderbilt Institute of Integrative Biosystems Research and Education, and a member of the Vanderbilt-Ingram Cancer Center. She is involved in graduate teaching and mentoring of undergraduate and graduate students. Dr. Zanic is an active participant in the Systems Biology and Bioengineering Undergraduate Research Experience, as well as a preceptor in the Vanderbilt Molecular Biophysics and the Cellular, Biochemical, and Molecular Sciences Graduate Training Programs. She is a recipient of the Career Development Award from the Human Frontier Science Program, and the 2016 Searle Scholars Award.



CHRISTINE M. LOVLY, M.D., PH.D.

**ASSISTANT PROFESSOR OF MEDICINE,
DIVISION OF HEMATOLOGY/ONCOLOGY,
AND CANCER BIOLOGY**

Christine M. Lovly, M.D., Ph.D., is currently an Assistant Professor of Medicine and Cancer Biology at the Vanderbilt University School of Medicine and Vanderbilt-Ingram Cancer Center. She received a B.A. in chemistry from Johns Hopkins University followed by M.D. and Ph.D. degrees as part of the Medical Scientist Training Program at Washington University in St. Louis, MO. She then completed internal medicine residency and medical oncology subspecialty training at Vanderbilt University. During her final year of fellowship, she was the Jim and Carol O'Hare Chief Fellow. She started on faculty at Vanderbilt as Assistant Professor in July 2013. Her laboratory research is directed at understanding and developing improved therapeutic strategies for specific clinically relevant molecular subsets of cancer.

Dr. Lovly has received grant funding from Uniting Against Lung Cancer, the Conquer Cancer Foundation of the American Society of Clinical Oncology, the Sarcoma Foundation of America, the American Cancer Society, the Damon Runyon Cancer Research Foundation, the LUNGevity Foundation, the V Foundation, and the American Association for Cancer Research. She is the author of several peer-reviewed scientific manuscripts, and she is an active member in the American Society of Clinical Oncology (ASCO), the International Association for the Study of Lung Cancer (IASLC), and the American Association for Cancer Research (AACR). She is co-Editor-In-Chief for the website www.mycancergenome.org, a Vanderbilt initiated, freely available website which aims to provide health care practitioners, patients, and advocates with up-to-date information regarding genetically informed cancer medicine. Dr. Lovly is also an elected member of the American Society for Clinical Investigation (ASCI).