

PROMOTION RECOMMENDATION
 UNIVERSITY OF MICHIGAN MEDICAL SCHOOL
 DEPARTMENT OF PATHOLOGY
 DEPARTMENT OF INTERNAL MEDICINE

Thomas J. Giordano, M.D., Ph.D., Associate Professor of Pathology, with tenure, Department of Pathology, and Associate Professor of Internal Medicine, without tenure, Department of Internal Medicine, Medical School, is recommended for promotion to Professor of Pathology, with tenure, Department of Pathology, and Professor of Internal Medicine, without tenure, Department of Internal Medicine, Medical School.

Academic Degrees:

M.D.	1990	UMDNJ/Robert Wood Johnson Medical School, New Jersey
Ph.D.	1988	UMDNJ/ Robert Wood Johnson Medical School, New Jersey and Rutgers, The State University, New Jersey
B.A.	1983	Johns Hopkins University

Professional Record:

2005–Present	Associate Professor of Internal Medicine, University of Michigan
2003–Present	Associate Professor of Pathology University of Michigan
2001–2003	Clinical Associate Professor of Pathology, University of Michigan
1994–2001	Assistant Professor of Pathology, University of Michigan

Summary of Evaluation:

Teaching: Dr. Giordano is an effective and enthusiastic teacher. In terms of medical student education, he has lectured in the second-year endocrine sequence since 1994, and has also coordinated the pathology laboratories for that sequence during the same time. In addition, he has been the coordinator for the entire endocrine sequence since 1997. He also is an instructor in the M2 pathology laboratories for other topics, and he directs some of the fourth-year medical student rotations through the Department of Pathology. He is active in resident education. He is the endocrine pathologist for the entire teaching program, so he teaches endocrine pathology to the residents and surgical pathology fellows on a daily basis during diagnosis. He also presents regular lectures to the residents and fellows on endocrine pathology and runs several consultation conferences. He has mentored several residents in endocrine related research projects which have resulted in poster and platform presentations at national meetings and subsequent publications. He has lectured to graduate students on cancer biology and on methodologic issues in cancer epidemiology. He has supervised several students and fellows in his laboratory and has served on a dissertation committee. Finally, he has given seminars and lectures on various aspects of endocrine pathology and molecular pathology at national meetings, including those of

the United States and Canadian Academy of Pathology and the American Society for Clinical Pathology. He has also presented lectures and seminars at medical centers throughout the country. In all of these areas of education, he is regarded as organized, confident, stimulating and an excellent teacher.

Research: Dr. Giordano has made significant contributions in the area of molecular profiling which offer a better understanding of cancer classification and pathogenesis and potential novel therapeutic approaches. As such, he has worked with several research teams of scientists and clinicians, including those involved with cancers of the head and neck, breast, lung, pancreas and soft tissue. However, most of his studies and most significant research accomplishments involve neoplasms of endocrine organs, particularly thyroid and adrenal. For instance, he has analyzed papillary thyroid carcinoma and discovered that there are different forms of this carcinoma with different mutations. He has also described potentially significant relationships between the PAX8-PPAR gamma translocation and clinical-pathological or molecular features in follicular thyroid carcinoma. He has also described distinct transcriptional profiles of adrenal cortical carcinoma as compared to adenomas. He is recognized nationally and internationally for his work by numerous invitations to present at other institutions, including the University of Cincinnati, University of Minnesota, New York University, Case Western University, Baylor Medical College, M.D. Anderson Cancer Center, and the University of Pittsburgh, to name a few. He has also been an invited speaker for the American Thyroid Association, the International Academy of Pathology, and the Translational Genomic Research Institute. In 2008, he will be a keynote speaker at the Danish Society of Anatomic Pathology and Clinical Cytology, and will be an invited speaker at an international endocrine meeting in France and at the Endocrine Society Meeting in San Francisco, all of which are prestigious invitations. Since his promotion to Associate Professor in 2003, he has been an author of 45 publications in high-quality, peer-reviewed journals.

Recent and Significant Publications:

Giordano TJ, Au A.T.M., Kuick R, Thomas DG, Rhodes DR, Wilhelm Jr KG, Vinco M, Misek DE, Sanders D, Zhu Z, Ciampi R, Hanash S, Chinnaiyan A, Clifton-Bligh RJ, Robinson BG, Nikiforov YE, Koenig RJ. Delineation, functional validation, and bioinformatic evaluation of gene expression in thyroid follicular carcinomas with the *PAX8-PPARG* translocation. *Clin Cancer Res* 12:1983-93, 2006.

Dobbin KK, Beer DG, Meyerson M, Yeatman TJ, Gerald WL, Jacobson JW, Conley B, Buetow KH, Heiskanen M, Simon RM, Minna JD, Girard L, Misek DE, Kuick R, Taylor JMG, Hanash S, Naoki K, Hayes DN, Ladd-Acosta C, Enkemann SA, Viale A, Giordano TJ: Inter-laboratory comparability study of cancer gene expression analysis using oligonucleotide microarrays. *Clin Cancer Res* 11:565-572, 2005.

Giordano TJ, Kuick R, Thomas DG, Misel DE, Vinco M, Sanders D, Zhu Z, Ciampi R, Roh M, Shedden K, Gauger P, Doherty G, Thompson NW, Hanash S, Koenig RJ, Nikiforov YE: Molecular classification of papillary thyroid carcinoma: distinct *BRAF*, *RAS*, and *RET/PTC*

mutation-specific gene expression profiles discovered by DNA microarray analysis. *Oncogene* 6:6646-6656, 2005.

Giordano TJ, Thomas DT, Kuick R, Lizyness M, Misek DE, Smith A, Sanders D, Aljundi RT, Gauger P, Thompson N, Taylor JMG, Hanash S: Distinct transcriptional profiles of adrenocortical tumors uncovered by DNA microarray analysis. *Am J Pathol* 162:521-531, 2003.

Beer DG, Kardia SLR, Huang C-C, Giordano TJ, Levin AL, Misek DE, Lin L, Chen G, Gharib TG, Thomas DG, Lizyness ML, Kuick R, Hayasaka S, Taylor JMG, Iannettoni MD, Orringer MB, Hanash S: Gene expression profiles predict survival of patients lung adenocarcinoma. *Nat Med* 8:816-824, 2002.

Service: Dr. Giordano has been a committed member of his profession. He is a member of the editorial board of the journal *Endocrine Pathology* and has been a manuscript reviewer for numerous peer-reviewed journals, including the *Journal of Clinical Endocrinology and Metabolism*, *Cancer Research*, *Modern Pathology*, *JNCI*, *Proteomics*, *Nature Clinical Practice Endocrinology and Metabolism* and *Human Pathology*, to name just a few. He is a member of the Anatomic Pathology Test Development and Advisory Committee of the American Board of Pathology, an exam reviewer for pathology subjects for the NBME, a grant reviewer for the NIH and NCI and a member of the External Advisory Board of the Lung SPORE for Memorial Sloan Kettering Cancer Center in New York. At the University of Michigan, he has been a member of numerous committees, including the Chair Search Committee for the Department of Pathology, the Search Committee for the Director of Clinical Informatics, the Funding Review Committee for Anatomic Pathology, the Team Science Task Force for the Dean's Office, and the Medical Institutional Review Board on which he continues to serve as an ad-hoc member.

Professional Work: Dr. Giordano is a highly renowned expert in the diagnosis of endocrine diseases, especially neoplasms. He has served as the departmental endocrine pathology expert since his arrival in July, 1994. As such, he is the interface between the Department of Pathology and the endocrinology services in both the medicine and surgery departments. In addition, he is assigned to the surgical pathology diagnostic services for approximately thirteen weeks a year, including general surgical pathology and frozen section diagnosis and two of the subspecialty diagnostic services. He is regarded as an excellent diagnostician with outstanding communication skills. In addition, he has considerable administrative responsibility as Director of the Tissue Core for the Comprehensive Cancer Center and Director of the Molecular Pathology Research Laboratory, both critical units for clinical and research activities for not just the Department of Pathology, but for members of the Health System's faculty in general.

External Review:

Reviewer A: "Dr. Giordano is clearly an exemplary academic pathologist who has a clear and complementary focus in his diagnostic and research activities. He has established a number of important collaborations that attest to his interdisciplinary achievements and collegial behavior. He has an international reputation and his work has and will continue to have impact on the practice of Pathology."

Reviewer B: “Dr. Giordano has co-authored almost 100 peer-reviewed publications, most in journals with very high impact factors. These publications have provided substantive new insights into our understanding of disease, particularly in the area of endocrine pathology. Dr. Giordano has been instrumental in bringing cutting edge molecular diagnostics into the realm of diagnostic surgical pathology.”

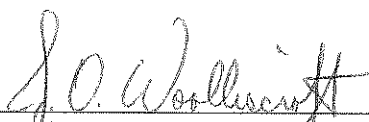
Reviewer C: “Dr. Giordano’s research work on translation of molecular profiling techniques to improve the understanding of human cancer pathogenesis and applications to diagnostic surgical pathology has had a significant impact in diagnostic pathology....He has an outstanding track record in his contributions at National meetings in the form of invited lectures and presentations. He has also served as the role model for younger pathologists who have been inspired by his abilities to combine service work in diagnostic pathology with the use of state-of-the-art research techniques.”

Reviewer D: “Dr. Giordano’s work from thyroid cancer to head and neck to multiple other tumors, has defined the essence and criteria for making diagnosis that has both a prognostic as well as a therapeutic impact. He has been at the forefront of tissue collection and translation of tissue collection in tumor molecular biology studies that provide new paradigms for tumor biology diagnosis and treatment.”

Reviewer E: “...Dr. Giordano has demonstrated innovative approaches to research, education and clinical practice. Without question, I would rank him in the top 10% of pathologists involved in significant translational research.”

Summary of Recommendation:

Thomas J. Giordano, M.D., Ph.D., is an internationally renowned endocrine pathologist who is well known for his diagnostic work and for his contributions to the molecular basis of endocrine neoplasms, especially thyroid papillary and follicular carcinomas. His work has been recognized by numerous invitations to present at national and international meetings. He is also a committed teacher who has been a coordinator for the second-year endocrine sequence for the past ten years, and the coordinator for the endocrine pathology laboratories for the past thirteen years. He is clearly deserving of this promotion to the rank of Professor in the Departments of Pathology and Internal Medicine.



James O. Woolliscroft, M.D.

Dean

Lyle C. Roll Professor of Medicine

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