

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

Colin S. Duckett, 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:

Ph.D.	1993	University of London/University of Michigan, conjoint
B.Sc.	1989	University of London

Professional Record:

2006-present	Associate Professor of Pathology and Internal Medicine, University of Michigan
2002-2006	Assistant Professor of Pathology and Internal Medicine, University of Michigan
1997-2001	Senior Investigator, Metabolism Branch, National Cancer Institute, National Institutes of Health

Summary of Evaluation:

Teaching: Dr. Duckett's teaching activities have centered on graduate students in formal courses and graduate students and postdoctoral students in the laboratory setting. His formal course work includes courses in pathology, immunology and cancer biology, seven of which he does yearly. He is also the director of the Cancer Biology Training Course. His ratings from the students in these courses are high, generally very good to excellent. He trains clinical and postdoctoral fellows in his laboratory, a total of nine since his promotion to associate professor, and he has served on numerous thesis committees. Many of his fellows have become faculty members at other institutions. Therefore, Dr. Duckett has made a strong commitment to the educational activities of the Department of Pathology, and he has performed successfully.

Research: Dr. Duckett's research has centered on the understanding of mechanisms by which cell number is controlled in higher organisms including humans. His laboratory has particularly focused on leukemias and lymphomas including Hodgkin's and anaplastic large cell lymphoma. His laboratory has characterized the IAP proteins which are now known to be deregulated in the wide range of human malignancies. His research has been well funded. Currently, he is the principal investigator on an R01 grant for control of signaling and apoptosis by XIAP. His work has been published in high-quality, peer-reviewed journals, 20 publications since his promotion to associate professor, on most of which he is the senior author. The journals include *Science*, *Journal of Biological Chemistry*, *Biochemical Journal*, and *Journal of Cell Science*. He has been invited to present his work at national and international meetings and major medical centers, including the NIH, ASCO, Keystone Symposium, Gordon Research Conference,

Livermore National Laboratories, and the Universities of Utah, Utrecht in the Netherlands, Duke University, and the University of Toronto.

Recent and Significant Publications:

Brady GF, Galban S, Liu X, Basrur V, Gitlin JD, Elenitoba-Johnson KSJ, Wilson TE, Duckett CS: Regulation of the copper chaperone CCS by XIAP-mediated ubiquitination. *Mol Cell Biol* 30:1923-1936, 2010.

Wright CW and Duckett CS: ARNT modulates CD30-mediated NF- $\kappa$ B transactivation through regulation of RelB. *Science* 323:251-255, 2009.

Csomos RA and Duckett CS: Enhanced cytoprotective effects of the IAP protein, c-IAP1 through stabilization with TRAF2. *J Biol Chem* 284:20531-20539, 2009.

Wilkinson JC, Wilkinson AS, Csomos RA, Galban S, Duckett CS: AIF is a target for ubiquitination through interaction with XIAP. *Mol Cell Biol* 28:237-247, 2008.

Mufti AR, Burstein E, Csomos RA, Graf PCF, Wilkinson JC, Dick RD, Challa M, Son J-K, Bratton SB, Su GL, Brewer GJ, Jakob U, Duckett CS: XIAP is a copper binding protein deregulated in Wilson's Disease and other copper toxicosis disorders. *Mol Cell* 21:775-785, 2006.

Service: Dr. Duckett has made a strong commitment to service to the University of Michigan and to investigative pathology nationally. He has been a member of numerous committees within the Medical School, including the Graduate School Advisory Committee for the Immunology Graduate Program, the Curriculum Review Committee for the same program, the Graduate Admissions Committee for the Cellular and Molecular Biology Graduate Program of which he is currently the chair, the Advisory Committee on Appointments, Promotions and Tenure for the Medical School, and he is co-director of the Division of Cancer Cell Biology for the Comprehensive Cancer Center. At the national level, he is on the editorial boards of *Biochemical Journal* and *Cell Death and Differentiation*, and he has been an ad hoc reviewer for over twenty journals. He was a regular member of the NIH Cellular and Molecular Immunology B Study Section from 2004 to 2007. He has been an ad hoc reviewer for numerous organizations including the NIH, the Wellcome Trust, the Italian Association for Cancer Research and the Australian National Health and Medical Research Council. He has been chair of the ExL Pharma Conference on Apoptosis Research and Drug Development and a selected member of the Defense Science Study Group. Therefore, Dr. Duckett has clearly made a strong commitment to service activities expected for a nationally and internationally known scientist.

External Review:

Reviewer A: "...his careful delineation of the interface between IAP proteins and apoptosis are all significant achievements. There is no question but that Colin is an outstanding scientific investigator with a broad and intuitive grasp of biology and a gift for distilling structure and function from within complex biological phenomena...He has an extensive and successful track record in training graduate students and post doctoral fellows and in mentoring at all levels..."

Reviewer B: “His 2006 paper in Molecular Cell on XIAP function in copper metabolism, (followed up by several significant additional contributions) is a remarkable study that greatly extends our understanding of IAP biology. His 2009 paper on ARNT in CD30 signaling, published in Science, is a major work that has gained a great deal of attention both for its contribution to understanding CD30 and insights into lymphoma, and has helped to further establish Dr. Duckett as a major player in this highly competitive area. In short, his science is outstanding.”

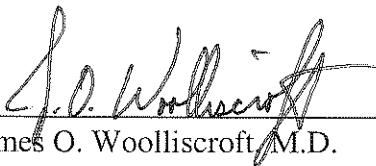
Reviewer C: “When Colin first suggested a link between XIAP and copper metabolism, it was met with surprise; he has now moved this into the mainstream arena and the interactions between XIAP and copper metabolism are well recognized. He really launched this work and is the acknowledged leader in the area...In addition to publishing excellent work and giving outstanding oral presentations, Colin is widely acknowledged as a generous and extremely helpful colleague. If you perused the acknowledgements sections of many papers dealing with IAPs you would find that many thank Colin for provision of reagents, advice, or critical reading of manuscripts.”

Reviewer D: “...it is clear that Colin’s work is making a real impact, and that he is an internationally respected scientist who compares extremely favourably with his peers. It really is an achievement and a testimony to Colin’s talent that he has been able to create a niche for himself in this extremely hot area.”

Reviewer E: “The combination of his funding record, the consistency and rigor of his scholarship and his administrative and service work to the University of Michigan and the greater scientific community lead me to enthusiastically support his promotion to the rank of Professor.”

Summary of Recommendation:

Dr. Colin Duckett is an established scientist whose work has made significant national and international impact in the field of IAP proteins, and in the proapoptotic signaling cascades utilized by lymphoid cells. His work has been recognized by numerous invitations to present at other institutions and at major seminars. In addition, he is an excellent educator who consistently gets high marks from his students. He has also taken on considerable committee work within the University of Michigan and nationally. I am pleased to recommend Colin S. Duckett, Ph.D. for promotion to professor of pathology, with tenure, and professor of internal medicine, without tenure, Medical School.



James O. Woolliscroft, M.D.

Dean

*Lyle C. Roll Professor of Medicine*

May 2011