Design, Syntheses and Bioactivities of Androgen Receptor Targeted Taxane Analogs, Simplified Fluorescently Labeled Discodermolide Analogs, and Conformationally Constrained Discodermolide Analogs

Jun Qi

Dissertation submitted to the faculty of
the Virginia Polytechnic Institute and State University
In the partial fulfillment of the requirement for the degree of

Doctor of Philosophy
In
Chemistry

Dr. David G. I. Kingston, Chairman
Dr. Felicia A. Etzkorn
Dr. Harry W. Gibson
Dr. Paul R. Carlier
Dr. S. Richard Turner

February 18, 2010
Blacksburg, Virginia

Keywords: paclitaxel, docetaxel, taxol, androgen receptor, cyanonilutamide, tubulin, microtubules, discodermolide, fluorescence, tubulin binding conformation

Copyright 2010, Jun Qi