

The University of North Carolina
at Chapel Hill

To all to whom these presents shall come

Greeting

Be it known that

Brian D. Bower

having completed the studies and fulfilled the requirements of the Faculty for
the degree of

Doctor of Philosophy in Genetics and Molecular Biology

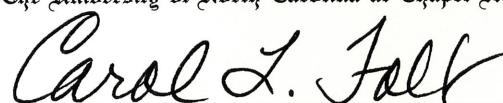
has accordingly been admitted to that degree, with all the rights, honors,
responsibilities, and privileges thereunto appertaining.

In witness whereof, the Seal of the University and the signatures
of duly authorized officers are affixed to this diploma.

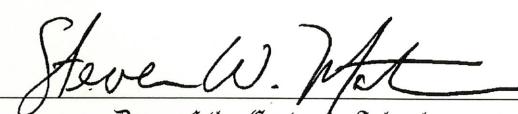
Given at Chapel Hill, in the State of North Carolina, this fourteenth
day of December in the year two thousand and fourteen and of this University
the two hundred and twenty-sixth.



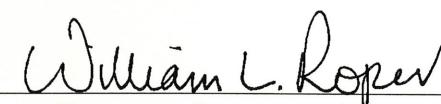
Chairman of the Board of Trustees
The University of North Carolina at Chapel Hill



Chancellor
The University of North Carolina at Chapel Hill



Dean of the Graduate School



Dean of the Professional School