



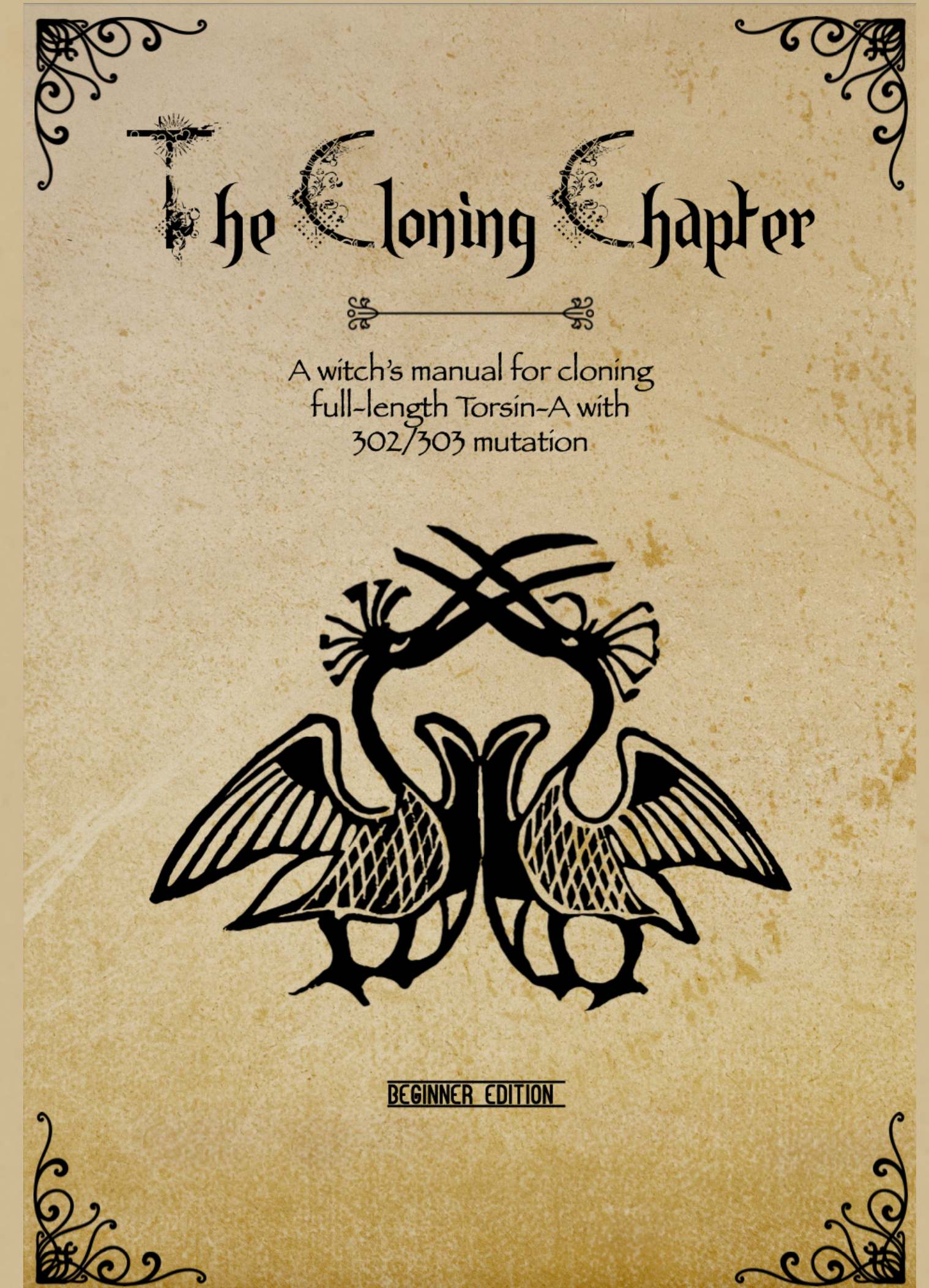
CREATIVITY IN A HEALTH AND LIFE SCIENCE PRACTICAL

artistic alchemy

Niko Golo, Celia Suárez Cob, Roland Chiu and Steven Bergink

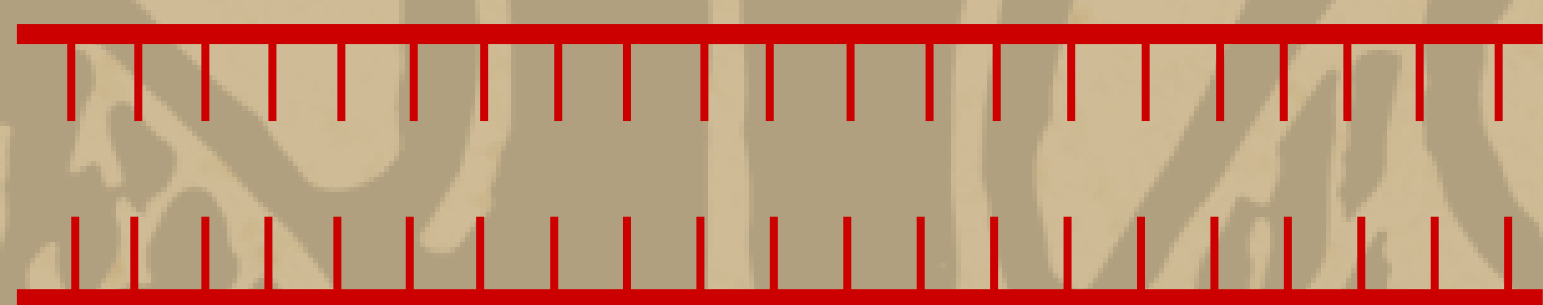
While the use of creative-based assignments is well established in education, it is not frequently used in Science courses. Practica provide a crucial hands-on experience with techniques. One goal of practica is to make students aware of the principles behind these techniques. Here we use a creative based assessment to enhance learning and reduce stress.

The witch's manual for cloning (on the right) was made by two students and explains the practica in a creative way. Importantly, the manual is scientifically valid albeit in an atypical approach.



PCR

seperation of the two DNA strands
(Denaturing)



binding of two small pieces of DNA
(Annealing)



Copying of DNA by a so called polymerase
(Elongation)



The cycle is repeated and amplifies DNA exponentially

MYSTICAL MULTIPLICATION

"Phusion, Phusion, catalyst divine,
Unleash your power, let it intertwine.
Merge the strands, replicate with grace,
Amplify the essence, in this sacred space.
HindIII and BamHI, guardians of the gate,
Open the path, where the DNA awaits.
Forward ,reverse essence of green, unite as one,
Guide the way, let the enchantment be done.
In the crucible of Phusion, secrets unfurl,
With each cycle, the DNA shall twirl.
By the power of PCR, let it be,
As we unlock nature's mysteries, let us see.
May the incantation spark the flame,
And the PCR enchant our Torsin-A."