## Photographs and Image Sequences (Primary Source Materials, Part of HAL-01251319 and HAL-01253250)

Notes: These illustrations are not essential to the main flow of the study report but constitute supplementary information on reconstituted kefir grains, and should be referred as part of the original full-text report. All photographic records were created during the study period from August 2012 until November 2012 (using an experimental culture model [ECM] system) and continuing through December 2015 (using routine milk culture conditions). A Sony digital camera, Model DSC-W350 was used for image acquisition. For readability, only representative images are shown here.

Illustrations 1-53: Transitional forms of newly-discovered, reconstituted kefir grains in an ECM system. Individual kefir grains are molded into many life forms that are under continuous growth and deformation. Note the matched regions between forms that can be found in the numerous image-series taken on various days or weeks apart. After giving close attention to structural elements, the reader should be able to identify the linkage between the forms for any given grain. Some images illustrate dynamic scenes containing moving grains in different orientations.

Illustrations 54-63: Propagating kefir grains in milk culture system originating from reconstituted kefir grains. Complex macrostructures were observed with many interesting morphological features laying the foundation for the next generations of grains. The last image show partially dehydrated grains preserved in powdered milk before freezing; these grains have remained viable for at least 18 months.

Illustration 1


Illustration 2


Illustration 3


Illustration 4


Illustration 5


Illustration 6


Illustration 7


Illustration 8


Illustration 9


Illustration 10


Illustration 11



Illustration 13


Illustration 14


Illustration 15


Illustration 16


Illustration 17


Illustration 18


## Illustration 19



Illustration 20


Illustration 21


Illustration 22


Illustration 23


Illustration 24


Illustration 25


Illustration 26


Illustration 27


Illustration 28


Illustration 29


Illustration 30

Illustration 31


Illustration 32


Illustration 33


Illustration 34


Illustration 35


Illustration 36


Illustration 37


## Illustration 38



Illustration 39


Illustration 40


Illustration 41


Illustration 42


Illustration 43


Illustration 44


Illustration 45


Illustration 46


Illustration 47


Illustration 48


Illustration 49


Illustration 50


Illustration 51


Illustration 52


Illustration 53


Illustration 54


Illustration 55


Illustration 56


Illustration 57


Illustration 58


Illustration 59


Illustration 60


Illustration 61


Illustration 62


## Illustration 63



