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## Microbial count of common Algerian fermented wheat: Hamoum and matmora

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In Algeria, naturally fermented wheat is consumed as couscous, appointed Hamoum; indeed this type of wheat is produced after a natural fermentation process in an underground granary called Matmora. After 5 months of natural fermentation of the sample, identification of lactic acid bacteria and yeasts was performed by determining the morphological, physiological and biochemical characteristics of isolates. In this study, 134 lactic acid bacteria isolates were isolated and purified from the fermented wheat "Hamoum". In 42 isolates of lactic acid bacteria, only 5 yeast strains were identified. All bacteria isolated contain different genres of *Lactobacillus* (62%), *Pediococcus* (14%), *Streptococcus* (10%), *Lactococcus* (10%) and *Enterococcus* (2%). The dominant species in our sample is the *Lactobacillus plantarum*. The *Lactobacillus paracasei* shows antibacterial effect more pronounced than the other strains after testing. Five yeast strains were identified in our fermented wheat Hamoum belonging to 3 different genera and species: *Candida ciferrii*, *Cryptococcus laurentii* and *Trichosporon mucoides*. Most of the lactic acid bacteria strains showed amylolytic and efficient proteolytic activity, the same results were reported for the yeast. Most of the lactic acid bacteria strains with amylolytic and proteolytic activity performance, tested after production of these enzymes, and the same results were reported for the yeast.

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## Establishment of a world food preservation center LLC®

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The challenge of how to feed a growing population is one of the most urgent issues of our time. By 2050, the world population is expected to grow by a quarter and reach 9.5 billion. We will not be able to meet this challenge by just producing more food. We need to pay more attention to the food that we lose and waste after it is produced. The World Food Preservation Center LLC\* was established to provide a world-class education to young postharvest scientists in developing countries in advanced technologies for the preservation of food and conduct research on innovative technologies for the postharvest preservation of food tailored for developing countries. The WFPC is presently comprised of 13 major research universities on six continents, the ARO Volcani Center in Israel and GrainPro, Inc. When young scientists return to their native countries after attending "Sister" Universities of the World Food Preservation Center LLC\* they are able to establish independent, self-sustaining research and education programs suited for the needs in their specific country. Also, they introduce innovative new technologies for the postharvest preservation of food developed by the World Food Preservation Center\* such as solar refrigeration, transportation and storage as well as biological controls for postharvest diseases and insects along with active and intelligent packaging. With its specific focus on postharvest losses of food the World Food Preservation Center LLC\* acts as an international hub and coordinator of other efforts worldwide to reduce postharvest losses. The World Food Preservation Education Foundation has been formed to obtain and administer scholarship and research funds for young students/scientists from developing countries to attend the "Sister" universities of the World Food Preservation Center LLC\*.

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