Abu Dhabi National Exhibition Centre (ADNEC)
Abu Dhabi, United Arab Emirates
Global forum for innovations in agriculture

2014 | ADNEC | Abu Dhabi

3-4 February: Conference & Expo
5 February: Technical Tours

MIDDLE EAST & AFRICA FOCUS
Set-up Day
UA Innovation Exhibition Team
Best Team of postdocs and graduate student representing ABE, CALS and UA to the world.

Takanori Hoshino
Sara Kuwahara
Cody Brown
**THE ACCORDION PHOTOBIOREACTOR**

**WHAT IS THE ACCORDION PHOTOBIOREACTOR?**

- The Accordian photobioreactor, a patented technology developed at The University of Arizona and exclusively licensed to Biopharmia LLC, is designed to achieve high-productivity large-scale alage biomass production.

- Its unique wave configuration facilitates improved liquid mixing and gas exchange and low shear.

- Its simple structure of transparent plastic vessel and supporting frame lends modularity and reduced cost.

**WHY THE ACCORDION PHOTOBIOREACTOR?**

- Flexible scalability
  - Adjustable Configuration: 1.5 m
  - Multiple Reactors

- Modular components
  - The settings of the scaffold frame regulate the bioreactor vessel thickness to achieve optimal light path and promote algal photosynthetic activity. Prolonged residence time of supplemented gases results in lower energy requirement for efficient mixing and improved CO₂ consumption (gas exchange).

- Inexpensive/recyclable materials
  - Culture vessels are made from inexpensive low-density polyethylene (LDPE) films.
  - Use of inexpensive/recyclable LDPE results in lower initial costs, lower maintenance cost and excellent contamination control.

**ARIZONA**

**FOR MORE DETAILS**

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**ARIZONA**

**BIOPHARMAA**
Global forum for innovations in agriculture
Bill Gates
Director General
Abu Dhabi Food Control Authority
New Accordion PBR partner for UA/Biopharmia
GFIA Roundtable on Strategic Agriculture
. . . and it’s a wrap.
Next stop in Arizona (hopefully) in November!