

Inside Urban Green

Modern methods of growing food, foliage or flowers for the millions of us who are not green thumbs



Join Our Mailing List

Email:

Go

Privacy by SafeSubscribe
For Email Newsletters
you can trust

Search



www

insideurbangreen.org

Google Search

Pages

[About Inside Urban Green](#)

[News, Articles & Events](#)

[Subscribe to this blog's feed](#)

Flickr

Flickr: Greenscaper

Google Plus:

<https://plus.google.com/1178>

My Sites

[Flickr - Digital Age Plant Set](#)

[InsideGreenNYC.org](#)

Categories

[AeroGarden](#)

[Aeroponics](#)

[Alberta Agriculture](#)

[Alterra formerly Valcent](#)

[Aquaculture](#)

[Aqualok](#)

[Aquapad sub-irrigation](#)

[Aquaponics](#)

[Artificial Lighting](#)

[Bag or Vertical Gardening](#)

[Balcony gardening](#)

[Bioscience](#)

[Bonsai](#)

[Botanical Gardens](#)

[BrightFarms](#)

[Center for Urban Greenscaping](#)

[Clay pots](#)

[Coir, Coco Peat](#)

[Community Gardening](#)

[Company Gardens](#)

[Composting](#)

[Container Gardening](#)

[« Future jobs: What Might You Be Doing? « Science So What | Main | Water Conservation: World Water Day, March 22 »](#)

March 19, 2010

SmartPlanet: Rethinking Agriculture With Genetic Engineering

Are we doing a good job of motivating and educating more young women to be future Pan Ronald's? From where I sit, I think not.

For the future of our country, let's hope the Obama administration really does something effective in the way of [education reform](#)...and of course...this should not be a partisan issue.

Via: [SmartPlanet](#)

Many consider genetically engineered food controversial, but to Pamela Ronald a UC Davis professor, it could be the answer to feeding the world. Twenty five percent of the world's rice is grown in areas that are very prone to submergence, and after three days rice will die. Ronald's lab has genetically engineered rice to help the plant be tolerant to stress and disease. The varieties her team has developed can survive for two weeks underwater and are expected to improve the livelihood of millions of farmers in developing countries.

My name is Pam Ronald. I'm a professor at the University California Davis and I study the role that genes play in the response to the environment.

I am very interested in the natural world and very interested in food and the world's food supply so rice is a very important staple food for half the people on this planet. 25% of the worlds rice is grown in areas that are very prone to submergence and we think of rice as growing in water which it does but if it's completely submerged for more than 3 days most rice varieties will die. My laboratory works on tolerance to stress and disease and so we have many different plants in the greenhouse, most of them are genetically engineered rice plants that carry different genes that we have identified that we believe can help the plant be tolerance to stress and disease. We use modern molecular approaches to isolate the gene encoding that trait and then the group in the Philippians used breathing approach to introduce that gene into varieties that are favored by farmers in Bangladesh and India. So those new varieties that were developed survive for 2 weeks under water and this is very important and it's expected to affect the livelihood of millions of farmers in these areas. We certainly need to radically rethink agriculture as it is today. We are still using too many toxic inputs and we still do not have fantastic ways of controlling losses to diseases, pests, and stresses so really the future of food is to provide seeds and farming practices to those farmers that are going to be feeding the world.

Posted by [Greenscaper](#) on March 19, 2010 at 12:05 AM in [Education](#), [Urban Agriculture](#), [Urban Food Supply](#), [Urban Future](#) | [Permalink](#)

Archives

[October 2016](#)

[September 2016](#)

[August 2016](#)

[July 2016](#)

[June 2016](#)

[May 2016](#)

[April 2016](#)

[February 2016](#)

[January 2016](#)

[December 2015](#)

[More...](#)

Recent Posts

[A New Way to Deliver Water to Sub-irrigated Planters in the Balcony Pollinator Garden...or Anywhere Else for that Matter](#)

[More Information About the No-Drip SIP Pollinator Balcony Garden](#)

[An Urban Garden to Improve the Quality of Life for Bees, Butterflies...and You!](#)

[SIP Pollinator Gardens, Part 3 - Maintaining Them](#)

[SIP Pollinator Gardens, Part 2 - How to Make Them](#)

[Pollinator SIP Gardens - Part 1](#)

[The Indoor Desert Garden is Now Growing on the East Coast](#)

[Garden State Urban Farms Helping Again to Fight Obesity and Fresh Food Deserts](#)

[An Update About the Indoor Desert Garden Growing in Sub-irrigated Planters \(SIPs\)](#)

[The Stephen Ritz Green Bronx Machine Roadshow Will be in Toronto Tomorrow Evening](#)

Categories

[AeroGarden](#) [Aeroponics](#)

[Alberta Agriculture](#)

[Alterra formerly](#)

[Valcent](#) [Aquaculture](#)

[Aqualok](#) [Aquapad sub-](#)

[irrigation](#) [Aquaponics](#)

[Artificial Lighting](#) [Bag or](#)

[Vertical Gardening](#)

[Balcony gardening](#)

[Bioscience](#) [Bonsai](#)

[Botanical Gardens](#)

[BrightFarms](#) [Center for](#)

[Urban Greenscaping](#)

[Clay pots](#) [Coir, Coco](#)

[Peat](#) [Community](#)

[Gardening](#) [Company](#)

[Gardens](#) [Composting](#)

[Container](#)

[Gardening](#)

[Contaminated Soil](#)

[Controlled Environment](#)

[Agriculture CEA](#)

[Counterculturalism](#) [Cut](#)

[Flowers](#) [D.I.Y. Sub-](#)

[irrigation](#) [Daily Drain](#)

[Contaminated Soil](#)
[Controlled Environment Agriculture CEA](#)
[Counterculturalism](#)
[Cut Flowers](#)
[D.I.Y. Sub-irrigation](#)
[Daily Drain Hole Report](#)
[Diet and Nutrition](#)
[Digital Age Garden Centers](#)
[Drench & Drain Watering](#)
[Drip System](#)
[Drought](#)
[Drought Tolerant Plants](#)
[EarthBox](#)
[EarthTainer](#)
[Ebb & Flow Irrigation aka Sub-irrigation](#)
[Economy](#)
[Editorial Comment](#)
[Education](#)
[Enabled Gardening](#)
[EPA](#)
[Factory Farming](#)
[Farm 1 at P.S1](#)
[FARM:shop](#)
[Ferrocement \(aka ferrocrete\)](#)
[Fertilizer, Nutrients](#)
[Ficus benjamina](#)
[Field Sub-irrigation](#)
[Fire Escape "Farming"](#)
[Flowers](#)
[Food Distribution](#)
[Garden Patch Grow Box](#)
[Garden State Urban Farms](#)
[Gleaning](#)
[Google Garden](#)
[Green Buildings](#)
[Green Business](#)
[Green Colleges](#)
[Green Gadgets](#)
[Green Homes](#)
[Green Jobs](#)
[Green roofs](#)
[Green Roofs](#)
[Green Walls](#)
[Greenhouses](#)
[Growing Connection, The](#)
[Growing Media](#)
[Horticultural Therapy](#)
[Horticulture Education](#)
[Hortitainment](#)
[Hydroculture](#)
[Hydroponics](#)
[Hydroponics - Raft](#)
[Hydroponics NFT](#)
[Hydroponics, Simplified](#)
[SH](#)
[Indoor Air Quality](#)
[Indoor Edible Gardening](#)
[Indoor Light Gardens](#)
[Indoor Plants](#)
[Indoor Plants aka Houseplants](#)
[Inside Plants Science Lab](#)
[Interior Plantscaping](#)
[Keyhole Raised Bed Gardens](#)
[Kids Gardening](#)
[L.E.D. Lighting](#)
[Lead Poisoning](#)
[Light Garden](#)

Comments



littlefish said...

speaking of rice, SIPs be a great way to grow rice, yes? you always make sure there's never too much water through a strategic placement of the overflow hole.

[Reply](#)

[March 23, 2010 at 12:10 PM](#)

Comments on this post are closed.

POWERED BY  TypePad

[Hole Report](#) [Diet and Nutrition](#) [Digital Age](#)
[Garden Centers](#) [Drench & Drain Watering](#) [Drip System](#) [Drought](#)
[Drought Tolerant Plants](#) [EarthBOX](#)
[EarthTainer](#) [Ebb & Flow Irrigation](#) [Irrigation aka Sub-irrigation](#) [Economy](#)
[Editorial Comment](#) [Education](#) [Enabled Gardening](#) [EPA](#) [Factory Farming](#)
[Farm 1 at P.S1](#) [FARM:shop](#) [Ferrocement](#) [\(aka ferrocrete\)](#)
[Fertilizer, Nutrients](#) [Ficus benjamina](#) [Field Sub-irrigation](#) [Fire Escape "Farming"](#)
[Flowers](#) [Food Distribution](#) [Garden Patch Grow Box](#) [Garden State Urban Farms](#)
[Gleaning](#) [Google Garden](#) [Green Buildings](#) [Green Business](#)
[Green Colleges](#) [Green Gadgets](#) [Green Homes](#) [Green Jobs](#)
[Green roofs](#) [Green Walls](#) [Greenhouses](#) [Growing Connection, The](#)
[Growing Media](#) [Horticultural Therapy](#) [Horticulture Education](#) [Hortitainment](#)
[Hydroculture](#) [Hydroponics](#) [Hydroponics - Raft](#) [Hydroponics NFT](#)
[Hydroponics, Simplified](#) [SH](#) [Indoor Air Quality](#) [Indoor Edible Gardening](#)
[Indoor Light Gardens](#) [Indoor Plants](#) [Indoor Plants aka Houseplants](#) [Inside Plants Science Lab](#)
[Interior Plantscaping](#) [Keyhole Raised Bed Gardens](#) [Kids Gardening](#) [L.E.D. Lighting](#)
[Lead Poisoning](#) [Light Garden](#) [Living Walls](#) [Local Food](#)
[Marijuana](#) [Cannabis Marketing](#) [McGill Edible Campus](#) [NatureMill Obesity](#)
[Office Design - Plants](#) [OLED Lighting](#) [Organic Growing](#) [Pallet Planters](#)
[Parklets](#) [Patrick Blanc - Felt Living Walls](#) [People's Gardens](#) [Peri-urban Agriculture](#)
[Permaculture](#) [Permaculturist Personal Food Production](#) [Pest Management](#) [Plant disease](#) [Plant Furniture](#)
[Plant pests](#) [Plant Science](#) [Plastics PONG Portable Micro Garden \(PMG\)](#)
[Portable Micro Gardens/Farms](#) [Propagation PS 133](#) [Brooklyn PS 39](#) [Brooklyn PS102](#)
[Rainwater collection](#) [Raised beds](#) [Recirculating Farms](#) [Recycled Buildings](#)
[Recycling/Repurposing](#) [Restaurant Gardens](#) [Retail Food Distribution](#) [Rooftop Rack Garden](#)
[Rooftop Garden](#) [Rooftop Garden Project - Montreal](#) [Rooftop Gardening Sack](#)
[Gardening Farming](#) [School Gardening](#) [Science & Technology](#) [Search Engines Seed starting](#)
[Senior Gardening](#) [SIP Auto Irrigation](#) [SIP Barrels](#) [SIP Beds & Boxes](#) [SIP Buckets](#)
[SIP City Pickers](#) [SIP Corrugated Drain Pipe \(CDP\)](#) [SIP Gardens To Go](#) [SIP Patio Pickers](#) [SIP Pollinator Gardens](#)
[SIP Rain Gutter System](#) [SIP Recycled Glass Bottles](#) [SIP Recycled Soda Bottles](#) [SIP Service](#)
[**SIP Sub-**](#)

[Lighting for Plants](#)
[Living Walls](#)
[Local Food](#)
[Marijuana, Cannabis](#)
[Marketing](#)
[McGill Edible Campus](#)
[NatureMill](#)
[Obesity](#)
[Office Design - Plants](#)
[OLED Lighting](#)
[Organic Growing](#)
[Pallet Planters](#)
[Parklets](#)
[Patrick Blanc - Felt](#)
[Living Walls](#)
[People's Gardens](#)
[Peri-urban Agriculture](#)
[Permaculture,](#)
[Permaculturist](#)
[Personal Food Production](#)
[Pest Management](#)
[Plant disease](#)
[Plant Furniture](#)
[Plant pests](#)
[Plant Science](#)
[Plastics](#)
[PONG](#)
[Portable Micro Garden \(PMG\)](#)
[Portable Micro Gardens/Farms](#)
[Propagation](#)
[PS 133, Brooklyn](#)
[PS 39, Brooklyn](#)
[PS102](#)
[Rainwater collection](#)
[Raised beds](#)
[Recirculating Farms](#)
[Recycled Buildings](#)
[Recycling/Repurposing](#)
[Restaurant Gardens](#)
[Retail Food Distribution](#)
[Rolling Rack Garden](#)
[Rooftop Farming](#)
[Rooftop Garden](#)
[Rooftop Garden Project - Montreal](#)
[Rooftop Gardening](#)
[Sack](#)
[Gardening/Farming](#)
[School Gardening](#)
[Science & Technology](#)
[Search Engines](#)
[Seed starting](#)
[Senior Gardening](#)
[SIP Auto Irrigation](#)
[SIP Barrels](#)
[SIP Beds & Boxes](#)
[SIP Buckets](#)
[SIP City Pickers](#)
[SIP Corrugated Drain Pipe \(CDP\)](#)
[SIP Gardens To Go](#)
[SIP Patio Pickers](#)
[SIP Pollinator Gardens](#)
[SIP Rain Gutter System](#)
[SIP Recycled Glass Bottles](#)
[SIP Recycled Soda Bottles](#)
[SIP Service](#)
[SIP Sub-Irrigated Planter aka incorrectly as "self-watering"](#)
[SIP Tote Boxes](#)
[Small Business](#)
[Smart Home, Museum of Science & Industry](#)
[Social Good](#)

[Irrigated Planter aka incorrectly as "self-watering"](#) [SIP](#)
[Tote Boxes](#) [Small Business](#) [Smart Home, Museum of Science & Industry](#) [Social Good](#)
[Soil & Growing Media](#)
[Soil Contamination](#) [Soil Moisture](#) [Spathiphyllum](#)
[Peace Lily](#) [Square Foot Gardening](#) [STEM in Horticulture](#) [Sub-irrigation](#)
[History](#) [Sub-irrigation in the Greenhouse](#) [Sub-irrigation: Bubble SIP Technology](#) [The Growing Connection & UN FAO Tomato Success Kit](#)
[Tools & Materials](#) [Trellis](#)
[UN - FAO](#) [Upcycling](#)
[Urban Agriculture](#)
[Urban Food Supply](#) [Urban Future](#) [Urban Gardening](#) [Urban Greenscaping](#)
[Urbanization](#) [USDA & Extension Master Gardener Program](#)
[USDA & Extension](#)
[Vegetable Growing](#)
[Vermiculture](#) [Vertical Farming](#)
[Vertical Gardens](#) [Victory Gardens](#) [Wading Pool Gardening](#)
[Water Conservation](#) [Water Storage](#) [Watering in the Zone](#) [Waterpod](#) [Website Reviews](#) [White House White Roofs](#)
[Wick - Cloth Wicking Beds & Boxes](#)
[Window Box SIPs](#) [World Food Supply](#) [World Hunger](#)

[Soil & Growing Media](#)
[Soil Contamination](#)
[Soil Moisture](#)
[Spathiphyllum - Peace Lily](#)
[Square Foot Gardening](#)
[STEM in Horticulture](#)
[Sub-irrigation](#)
[Sub-irrigation History](#)
[Sub-irrigation in the Greenhouse](#)
[Sub-irrigation: Bubble SIP Technology](#)
[The Growing Connection & UN FAO](#)
[Tomato Success Kit](#)
[Tools & Materials](#)
[Trellis](#)
[UN - FAO](#)
[Upcycling](#)
[Urban Agriculture](#)
[Urban Food Supply](#)
[Urban Future](#)
[Urban Gardening](#)
[Urban Greenscaping](#)
[Urbanization](#)
[USDA & Ext Master Gardener Program](#)
[USDA & Extension](#)
[Vegetable Growing](#)
[Vermiculture](#)
[Vertical Farming](#)
[Vertical Farms](#)
[Vertical Gardens](#)
[Victory Gardens](#)
[Wading Pool Gardening](#)
[Water Conservation](#)
[Water Storage](#)
[Watering in the Zone](#)
[Waterpod](#)
[Website Reviews](#)
[White House](#)
[White Roofs](#)
[Wick - Cloth](#)
[Wicking Beds & Boxes](#)
[Window Box SIPs](#)
[World Food Supply](#)
[World Hunger](#)