

presents:

## CASHEWS FOR COMPETITIVE ADVANTAGE: How Science & Art can Help

Mövenpick Ambassador Hotel & Hotel Novotel Accra, Ghana 16-19 September 2013 Kantha Shelke, Ph.D. kantha@corvusblue.net 312.951.5810 | cell 312.437.5810 e @kantha

Tival & Expo

VALUE CHAIN &

### Key Take-Aways CORVUS BLUE EMERGING TRENDS EMERGING SCIENCE NEW PRODUCTS

- Cashews are poised to meet the growing global demand for healthy low-glycemic foods that can delight everyone
- The glycemic response of foods is growing in importance around the world for managing hunger & managing weight
- Satiety is a key attribute of foods for health and pleasure
- Contrary to popular myth, energy dense foods like cashews are useful in the diet for managing hunger, weight, and calories
- Functionality and versatility make cashews invaluable in practically every food category in all regions of the world





## **Evolving Food Culture & How People Eat**

### The Global Paradigm Shift: Cooking vs. Assembling

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FROM COOK



#### **TO SHOPPER**

### WE EAT MORE OFTEN & OFTEN ALONE

#### As cooks, we:

- Shopped for ingredients
- Planned our meals
- Stocked our pantries
- Preserved seasonal foods
- Encouraged family meals

#### As diners, we:

- Shop for meals and deals
- Spontaneous vs. planned
- Stock our refrigerators
- Buy preserved foods
- Foster independent eating

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- WHO: Everybody eats! But who is your audience?
- WHEN: Planned? Spontaneous? Holiday? Ritual? Time?
- WHERE: At home? In the office? On the go?
- WHAT: The relevant need? The primary product design
- WHY: The emotional stakes? The story of your product!



## Eating: Reasons and Occasions

## The Many Faces of Snacking

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### AS A PROBLEM

- Mindless snacking
- High calorie snacks
- More eating occasions
- Highly fabricated
- Perceived as low quality



### AS A SOLUTION

- Healthy morsels
- Portion-sized eating
- Regulate energy levels, metabolism, & cravings
- High quality whole foods, less fabricated

The definition of snacking has changed substantially in the last two decades

- No longer regarded as "special"
- More frequent than occasional; almost ubiquitous
- No longer just for children; EVERYBODY is snacking
- No longer confined to only a small number of product categories; every meal poised to be a snack!



### Healthy snacks are driving growth in retail



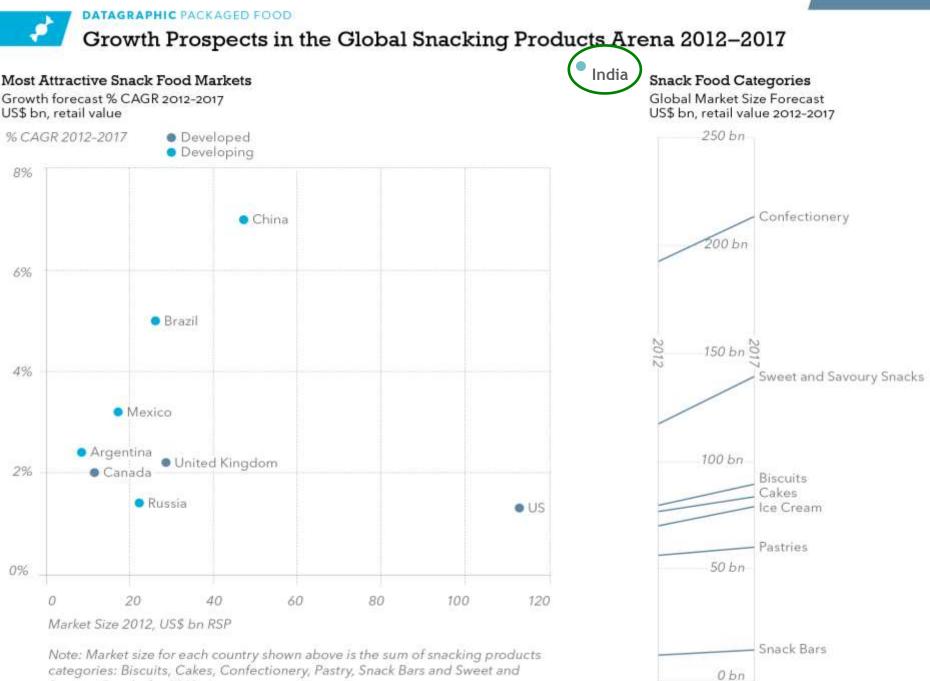
### Healthy snacking industry trends

- Lower junk calories: fat reduction, baking, popping
- Nutrient benefits: protein, fiber, probiotic, omega, healthy fats
- **Energy-rich:** caffeine, vitamins, amino acids
- Ingredients: nuts, whole grain, oats, legumes
- Clean labels: natural, organic, non-GMO, kosher, vegan, gluten-free

# Major brands struggle to meet consumer demands without antagonizing core products and consumers

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Crunchfuls / CEO Deepa Shenoy



Savoury Snacks for 2012

#### © EUROMONITOR INTERNATIONAL



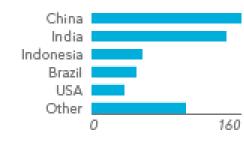
#### Snacking Culture Flourishes in Asia Sweet and Savoury Snacks, 2012-2013

volume: kg per cap. value: US\$ per cap (2013 ex rates)

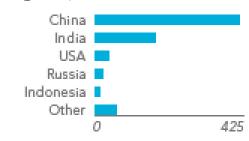


#### China and India Dominate Future Growth Extruded Snacks, 2013-2018

retail volume growth, 'ooo tonnes



China's Love of Jerky Drives Global Demand Other Sweet and Savoury Snacks, 2013-2018 retail volume growth, '000 tonnes

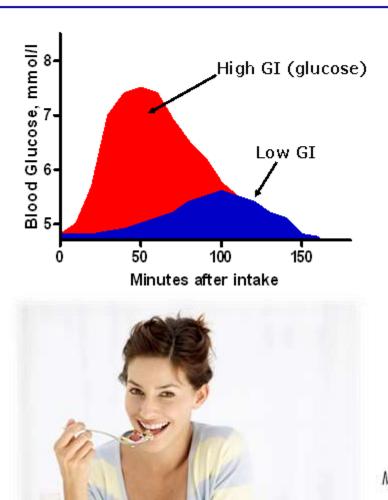


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**Product Expressions** Wellness, Functional & Free-from Foods

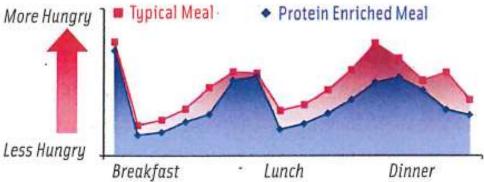
#### **Glycemic Index**







unice/CECI/

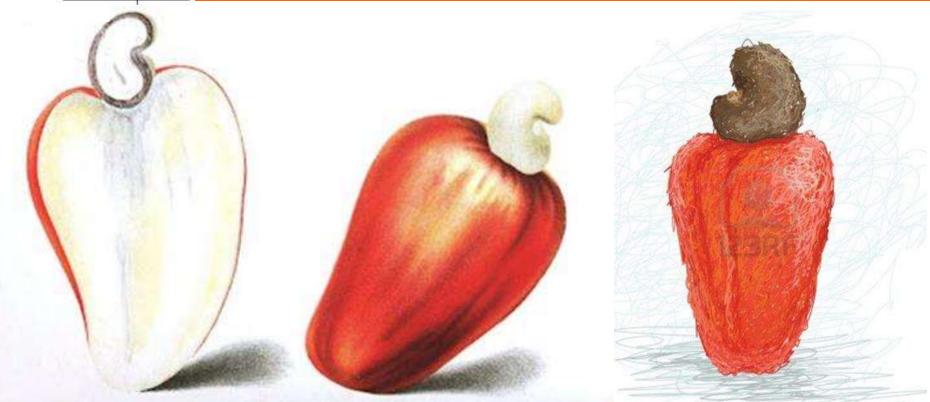


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Same.

## **Cashew Nuts Are Cracking Big Time!**

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Versatility fosters product applications; nutritional profile endears cashews to consumers everywhere!

### **Cashews at a Glance**

Nutrient rich Heart healthy fats Revered world-wide Satisfying hunger-abating fiber Low-glycemic Gluten-free protein

Flavorful, but not overpowering Versatile taste & delicate texture Crunchy, yet soft and smooth A range of forms & derivatives Robust shelf-life: raw or prepared

FORMS & TEXTURES



WHOLE OR BROKEN RAW OR PREPARED Snacks - savory & sweet Nutrition / meal replacement bars Confectionery Medical foods & supplements Soups, gravies, stews, & sauces Prepared foods & beverages

> Increases glycolysis Improves blood lipid profile Stimulates glucose uptake Anti-inflammatory properties Suppresses cell proliferation

#### PRODUCT POTENTIAL



## **Good News for African Cashews**

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- Cashews + chocolate = permissible indulgence (now EFSA approved)
- EFSA's positive opinion on the blood flow support by cocoa powder or dark chocolate is a call to cashew producers to explore dark chocolate product possibilities with specific health claims.
- Cashews' enhanced health appeal will create more opportunities for indulgent foods with cashews and draw more fans.
- There are opportunities galore for cashews—whole, broken, and derivatives!





#### © INNOVA DATABASE | LUANN WILLIAMS

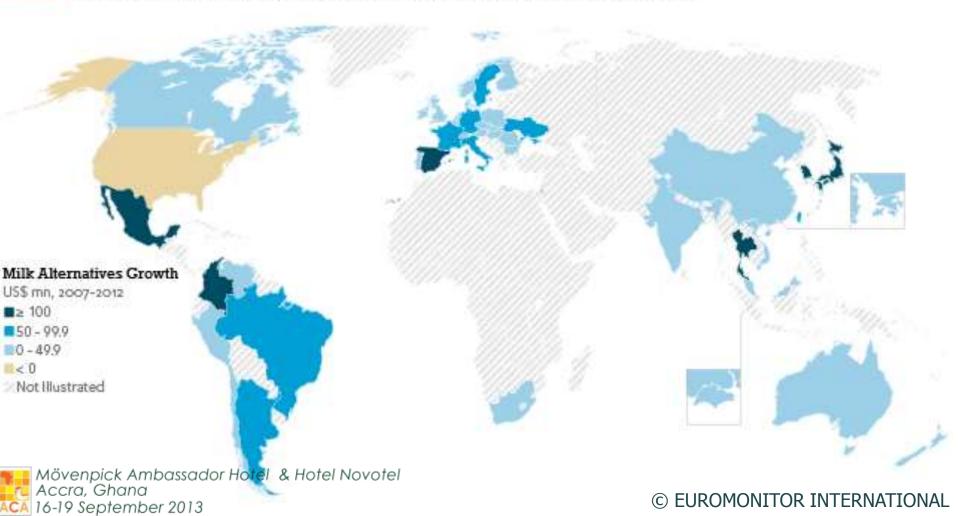
## A Bright Future for Cashew Milk

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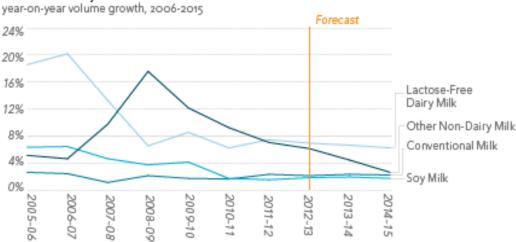


DATAGRAPHIC HEALTH AND WELLNESS

Demand for Milk Alternatives Outpacing Conventional Milk



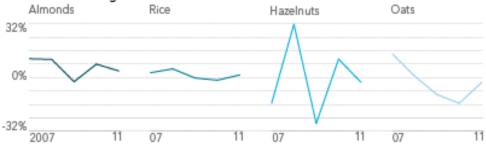
#### Other Non-Dairy Milk Exceeds Soy Milk HW Milk and Dairy Growth



#### Almonds Shows Strongest Growth Production of Raw Ingredients Growth

tonnes, 2007-2011 year-on-year

#### Production of Ingredient



2012

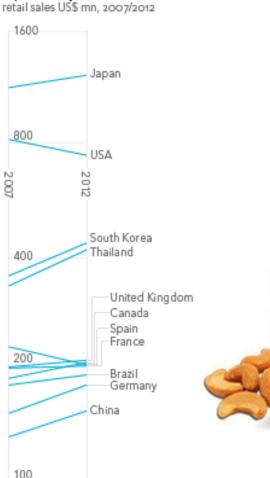
#### Milk Alternatives Near US\$7 bn Global Non-Dairy Milk Retail Value

2006

US\$ million, flxed exchange rate, 2006-12 7,000 5,125 5,250 4,375 3,500

#### Oatly's in The Lead Non-Dairy Milk Excluding Soy retail value US\$ mn, 2010





US Moves Away From Soy

Top 11 HW Soy Milk Markets



Note: This chart is using a logarithmic scale with a base of 2

#### Non-Dairy Milk Takes Root

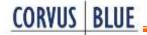
A rising prevalence of food allergies and intolerances is key to the success of non-dairy milk. Cereal and nut-based products, eg oat, hazelnut, almond and rice milk, will continue to gain share from soy milk. While oat milk leads the way other variants are fast gaining interest.

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**Opportunities for African Cashews:** Health | Pleasure | Substitutes | Innovation

## For the Health of it!



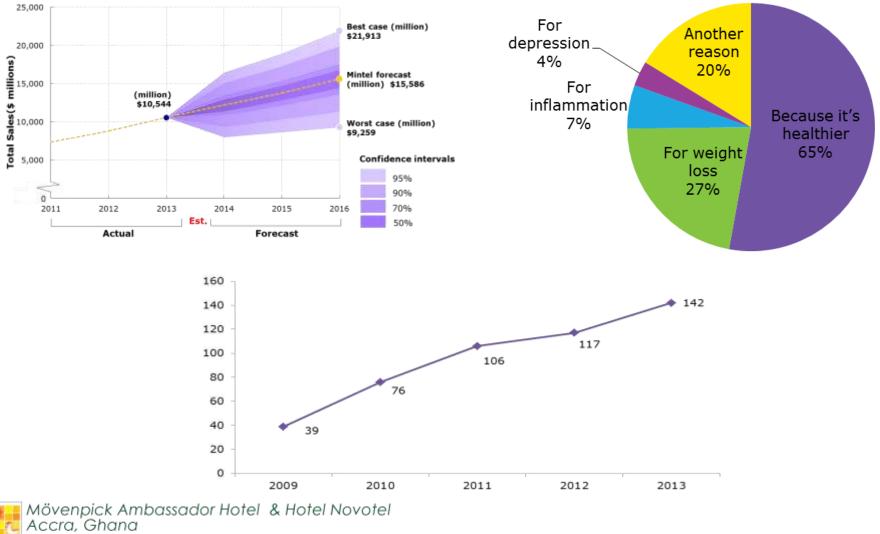


Natural | No preservatives | Low cholesterol | Organic | Non-GMO | Fiber | No trans-fats | Gluten-free |Heart health | Antioxidant | Energy/ alertness | Low-glycemic index | Prebiotic | Protein | Satiety | Minerals



### **Global Gluten-Free**

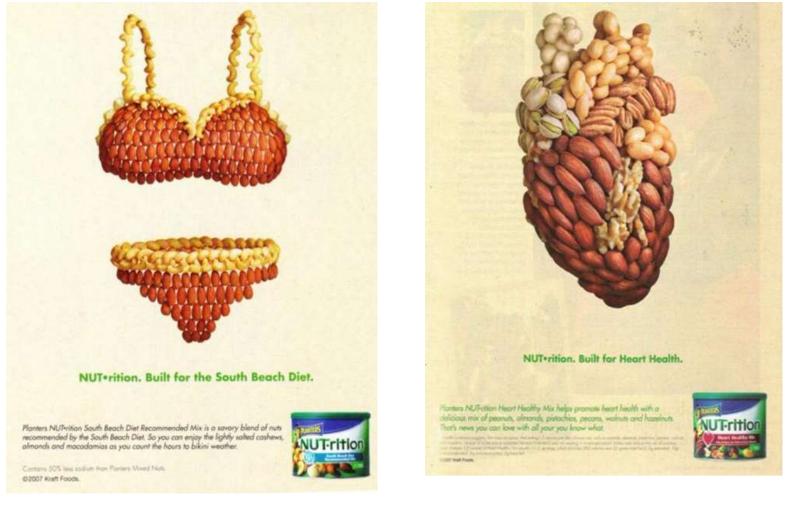
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## **Targeting the Health Conscious**

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### **Pure Pleasure**

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## Innovation

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USA: Filtered water, evaporated cane syrup, nuts (almonds, cashews, hazelnuts), inulin, trisalcium phosphate, soy lecithin, carrageenan, natural flavors, sea salt, gellan gum, vitamin E (D-alpha tocopheryl acetate), vitamin A palmitate, vitamin D2, vitamin B12.

www.tastethedream.com

Chunky Dips Chunky Dips Buckshew & Parimesan

AUSTRALIA: Cashew nuts (35%), canola oil, sun dried tomatoes (preservative (E220, E202), capsicum (14%), white vinegar, sweet chilli sauce (4%) [(thickener (E1422)], parmesan cheese (4%) (contains milk), garlic, salt, herbs and spices.

www.menora.com.au



<u>UK:</u> Filtered water, raw agave syrup\*, cashew nuts\* vanilla extract\* 0.07%. \*Organically grown ingredient

www.boojabooja.com

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## **Popular Innovations**

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## **Innovation in the Pipeline**

100% Natural

Ute wherever & wheneve the recipe calls for

> \* CHOLESTEROL PI \*LACTOR PREM < OLUTER PRES + NON-RMO \* WEGAN

CREAM ALTERNATIVE U PARVE 16 FLOZ. 473 mL

### CORVUS BLUE



www.mimiccreme.com

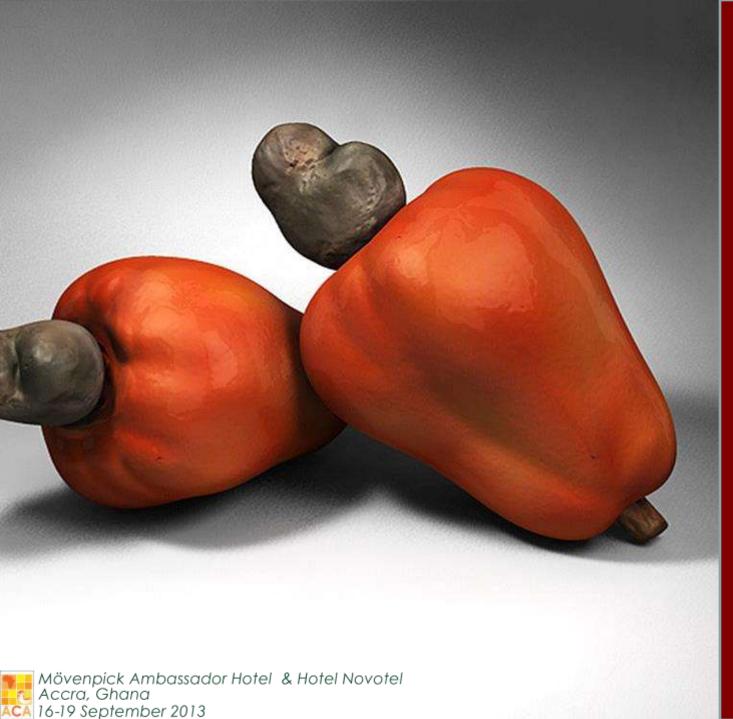


UK: Filtered water, raw agave syrup\*, cashew nuts\*) vanilla extract\* 0.07%. Organically grown ingredient

www.lulitonix.com

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The anti-obesity effects of cashew:

FlavorSatietyEnergy density

## **Digestive Functionality of Cashews**

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Cashews can affect hunger and satiety in various ways:

- Proteins often enhance satiety
- Carbohydrates have a lower satiety value than fats, but low glycemic carbohydrates are very satisfying
- Fiber and bulky foods provide a sense of satiety
- Solid foods: more filling than semisolids or liquids

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• Energy density: a major factor in determining satiety

### Satiation/satiety may be induced by:

- Viscosity:
  - Slow down enzyme digestion
  - ✓ Gastric antrum distension
  - Delay gastric emptying / absorption
- Gelling:
  - Slow emptying rate
  - Extend residence time



References available upon request

### Examples: Enhancing Taste & Satisfaction

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<u>Austria:</u> Roasted nut oils www.facebook.com/ StogerOil

South Korea: Cashewbased Denmark Milk

www.DenmarkMilk.net

<u>Canada:</u> Cashew-based prepared Indian favorite

www.SoulFoods.com

<u>Ukraine:</u> Cashew-based pasta sauce

www.barilla.com



### **Practical Suggestions**

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- Critical factors for success in the marketplace:
- Feeling is believing
- Technological innovations
- Physiological effects
- Build with synergy
- Marketing vs puffery
- Education vs propaganda
- Science & history of use

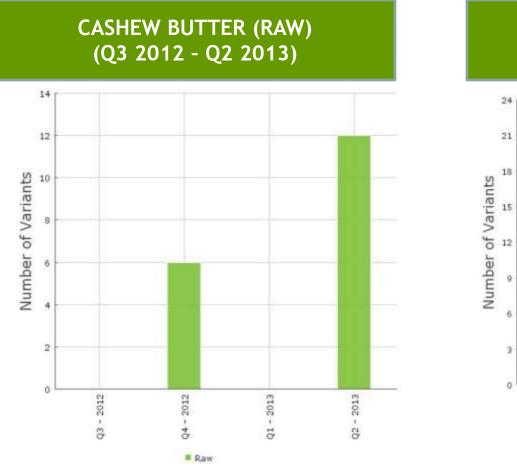




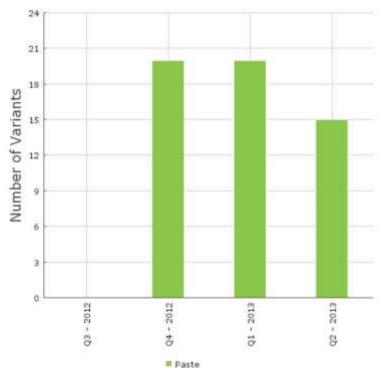
Cashew-based Ingredients for Competitive Advantage

### **Cashew Ingredient Trends**

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CASHEW PASTE (Q3 2012 - Q2 2013)

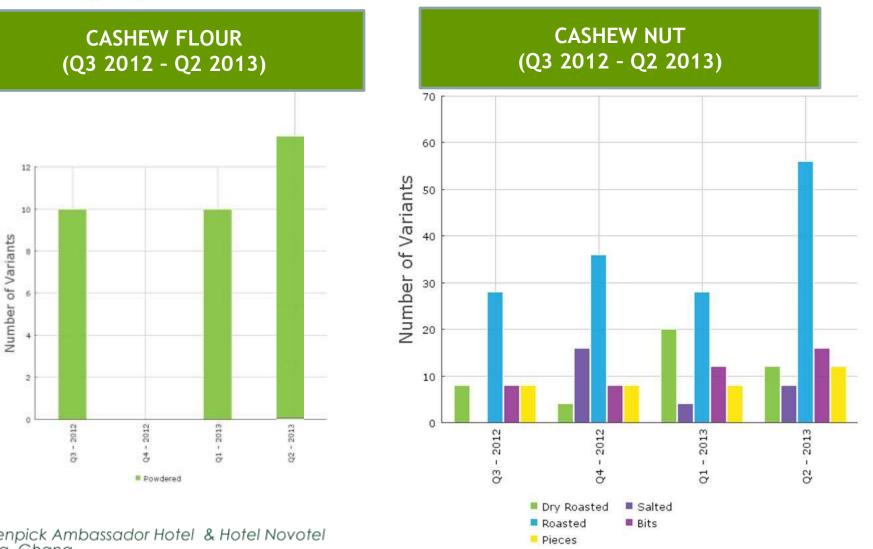




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### **Cashew Ingredient Trends**

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### **Cashews for Competitive Edge!**

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- Understand the science
- Select ingredients for a continuum of flavors, textures, and taste
- Figure out what consumers seek
  - explicitly and tacitly
- Apply science it always works!
- Educate your audience the more you share, the more loyalty you will reap



...for people are beginning to associate healthful diets as cheaper than going to doctors...

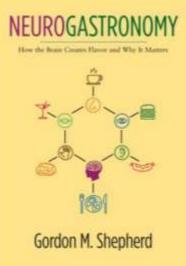
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## Narratives | Many stories that \$ELL!

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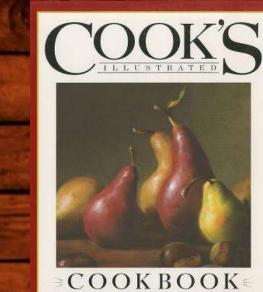
- The story: a charismatic founder or folklore
- Unique production methods: artisanal |biotech |new process
- Unique varietals: heirloom varieties | specialty cashews
- Geographical origin: region |country
- A solution: postpones hunger | satisfies easily | gluten-free
- Distinctive difference: what makes it unique from other nuts
- Certifications: Kosher | Halal | Fair Trade
- Social cause: education | school children | wild life
- The INGREDIENT(S): taste and satisfaction and enjoyment!
- Science-based evidence: heart health | glycemic-index | fiber





Nathon Myhrvoid Makina Biet

Medersinet





NUTS & SEEDS DISEASE PREVENTION

#### Tree Nuts Composition, Phytochemicals, and Health Effects

Edited by Cesarettin Alasalvar Fereidoon Shahidi Lenser and De Said Seriel and anits. . You'll press hold at a place of head the same way type — MINOS TAAL shaftsome Whee Engen best transmission produces topply Ming.

> TASTE What You're Missing



The Passionate Eater's Guide to Why Good Food Tastes Good

**Barb Stuckey** 

## **DISCLOSURES & SOURCES**

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- Not affiliated with any of the companies mentioned in today's presentation
- No confidential or proprietary information included

- Institute of Food Technologists
- Innova Database
- Mintel
- Euromonitor
- Listservs
- Editorial duties
- Corvus Blue insights



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