Sprout Safety Training Workshop

IFSH Sprout Safety Task Force

ISGA Annual Convention Oct 17-20, 2011







IFSH – At a Glance

Snapshot

- Established as NCFST in 1988 and advanced to IFSH in 2011
- Consortium between IIT/FDA/Industry
- Location for FDA's Division of Food Processing Science & Technology
- Primary focus
 - food processing safety
 - nutrition research
 - national security related to food
- Masters and Professional Certificates in FST and FPE

People

- 95 45 IIT and 50 FDA
- 129 Graduate Students

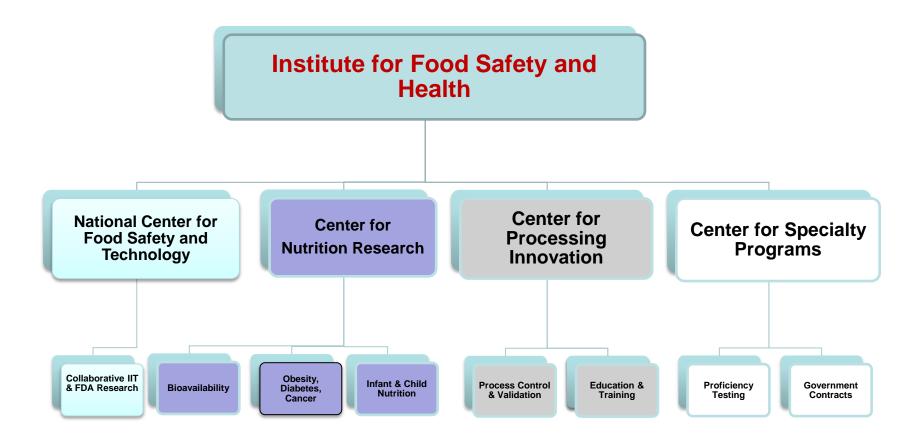








IFSH Centers









IFSH & Government

- FDA Division of Food Processing Science & Technology - physically located within IFSH
- Cooperative grant allows for collaborative research program
- Ability to evaluate new technologies for improving public health aspects of food
- Collaborative research program to ensure policy and new regulations based on sound science
- USDA MOU

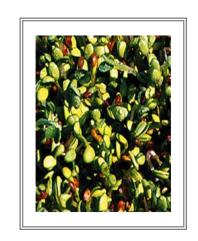






Emergence of Food Safety Issues

- Sprout seeds- raw agricultural product
- Rapid microbial growth during sprouting
- Consumption of product raw
- Broad distribution systems







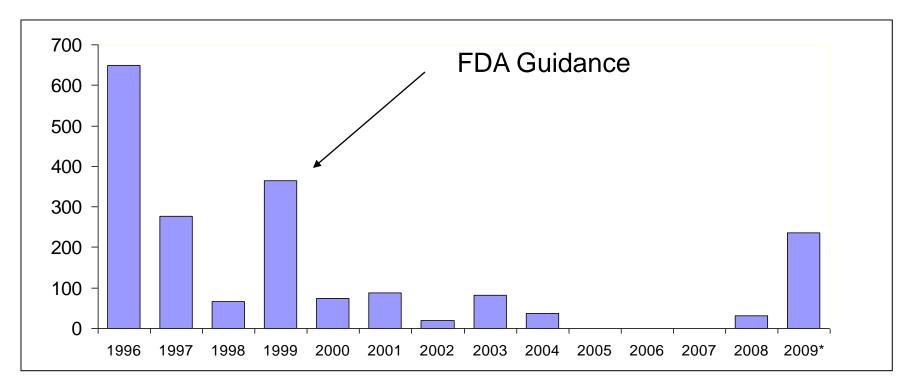




Isolation of pathogens from outbreak associated sprouts/seeds

Pathogen	Year	Location	Type of Sprout	No. of Cases	Isolated from Sprouts/Seeds
E. coli O104:H4	2011	Germany		3332	Yes/?
E. coli O157:NM	1998	CA	Alfalfa/Clover	8	Yes/No
S. Bovismorbificans	1994	Sweden, Finland	Alfalfa	595	Yes/No
S. Enteritidis	2000	CA	Mung	45	No/No
S. Gold-Coast	1989	U.K.	Cress	31	Yes/No
S. Havana	1998	CA, AZ	Alfalfa	18	No/Yes
S. Havana/Cubana/ Tenn.	1998	CA	Alfalfa	34	Yes/Yes
S. Mbandaka	1999	OR,CA, ID,WA	Alfalfa	~ 68	Yes/Yes
S. Montevideo/ Meleagridis	1996	CA	Alfalfa	>500	Yes/No
S. Newport	1995	Denmark	Alfalfa	154	Yes/Yes
S. Newport	1995-96	OR, Canada, Denmark	Alfalfa	133	Yes/Yes
S. Saint-Paul	1988	U.K.	Mung	143	Yes/Yes
S. Senftenberg	1997-98	CA	Alfalfa/Clover	52	Yes/No
IFT/FDA Report, 2009	s 11995 for DOD SAFETY ND HEALTH	US, Canada Finland	Alfalfa		NO/NO OIS INSTITUTE OF TECHNOLOGY insforming Lives. Inventing the Future. www.iit.edu

Cases of foodborne illness attributed to sprouts in the US



Katherine Vierk, CFSAN







IFSH Sprout Safety Task Force

Objectives:

- Update & build clarity on 1999 FDA guidelines on sprout safety
- Increase industry compliance
- Facilitate necessary research for updating FDA guidelines

Formed in October 2009







Members of Sprout Safety Task Force

- IFSH/IIT:
 - Alvin Lee, Ph.D.
 - Armand Paradis
 - Jason Wan, Ph.D.
- FDA:
 - Tong-Jen Fu, Ph.D.
 - Mary Lou Tortorello, Ph.D.
 - Rich McDonald, Ph.D.
 - Michelle Smith, Ph.D.
- Brassica Protection Products:
 - Earl Hauserman
 - Antony Talalay
 - Paul Battaglia

- Caudill Seed:
 - Dan Caudill
 - Steve Benjamin
- Jonathan Sprouts:
 - Barbara Sanderson
 - Rich Wolfe
- ISGA:
 - Bob Sanderson
 - Michael Lalley
 - Bob Rust
 - Kelly Warren







Sprout Safety Task Force Milestones Achieved

- Developed an audit checklist to guide sprout growers in following best practices in their operations
- Draft audit checklist reviewed by an Expert Review Panel & sprouter's
- Test-run of audit checklist conducted







Audit Checklist Sub-Team

FDA:

Tong-Jen Fu (Co-Chair)
Michelle Smith

ISS:

Kelly Warren

Brassica Protection Products:

Earl Hauserman Paul Battaglia

Jonathan Sprouts:

Barbara Sanderson (Chair

Caudill Sprouting

Stephen Benjamin







Sprout Audit Review Panel

Name	Affiliation	Comments	
Larry Beuchat	U. Georgia	Academic	
Tong-Jen Fu	IFSH/FDA	Government, Task Force Co- chair	
Dave Gombas	United Fresh Produce Association	Industry	
Kent Kilbrew	Ahold USA, Inc.	Industry	
Armand Paradis	IFSH/IIT	Academic, Task Force Co-chair	
Kathleen Rajkowski	USDA/ERRC	Government	
Tom Ross	U. Tasmania	Academic	
Mansour Samadpour	IEH, Inc.	Industry	
Barbara Sanderson	Jonathan Sprouts, Inc.	Industry, Task Force Chair	
Don Schaffner	Rutgers U.	Academic	
Bengt Schumacher	OMAFRA, Canada	Government	
Michelle Smith	FDA	Government	
Anthony Solarni	Sysco	Industry	
Dick Spezzano	Former Vons, Safeway	Industry	
Bob Strong	Steritech	Industry	
Mary Lou Tortorello	IFSH/FDA	Government	
Keith Warriner	U. Guelph	Academic	
Dick Whitting	Exponent	Industry	







Future Actions & Milestones

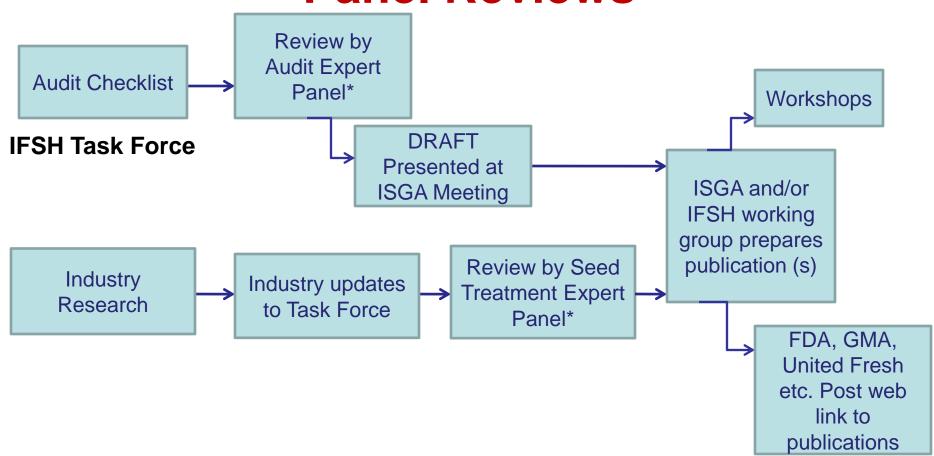
- Communication plan- sprout workshop & other channels
- Research areas to be considered:
 - seed treatments
 - evaluation of testing methods, and
 - risk assessment approaches to sprout safety







Framework IFSH sponsored Expert Panel Reviews









Acknowledgements

- ISGA
- Audit Checklist Sub-team and reviewers
- Sprout growers, seed suppliers and allied industries
- Workshop participants





