

Improving Human Health and Wellbeing through Food Function and Food Safety

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Improving Human Health and Wellbeing through Food Function and Food Safety

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
501	New and Improved Food Processing Technologies			16%	
502	New and Improved Food Products			15%	
503	Quality Maintenance in Storing and Marketing Food Products			11%	
701	Nutrient Composition of Food			1%	
702	Requirements and Function of Nutrients and Other Food Components			19%	
703	Nutrition Education and Behavior			6%	
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources.			3%	
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins			29%	
Total				100%	

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2007	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	7.8	0.0
Actual	0.0	0.0	7.1	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	0	963529	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	1001734	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	1748716	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Conduct research and produce refereed publications in the scientific literature. Hold international scientific symposia

2. Brief description of the target audience

Consumers, Industry, Health Care, School Systems, Fruit Industry, Elderly, Nutritionists, Food Processors

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2007	0	0	0	0

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year	Target
Plan:	0
2007:	5

Patents listed

5 patents were submitted through the University of Massachusetts of which two are at the U.S. Patent Office.

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan			
2007	0	109	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

of refereed publications

Year	Target	Actual
2007	10	28

Output #2

Output Measure

of international symposia

Year	Target	Actual
2007	1	4

V(G). State Defined Outcomes

O No.	Outcome Name
1	Accurate research on functional foods made available and shared
2	Accurate research on food safety made available and shared
3	Accurate research in production, characterization and application of nanostructured food
4	Accurate research on interactions and consequences of lipid and protein oxidants in muscle foods
5	Accurate research on the effect of animal proteins on iron uptake
6	Accurate research in food safety training and certification for undereducated, limited english proficient school food service personnel
7	Accurate research on antimicrobial delivery systems to improve food safety
8	Accurate research on characterization of transfer of listeria monocytogenes between processing surfaces and foods
9	Accurate research on physiology and control of foodborne disease agents

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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V(H). Planned Program (External Factors)

External factors which affected outcomes

Competing Public priorities

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

Other (scientific peer review)

Evaluation Results

Key Items of Evaluation