

# Institute of Biological Chemistry

Institute of Biological Chemistry

## V(A). Planned Program (Summary)

### 1. Name of the Planned Program

Institute of Biological Chemistry

## V(B). Program Knowledge Area(s)

### 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
201	Plant Genome, Genetics, and Genetic Mechanisms			18%	
202	Plant Genetic Resources			2%	
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants			19%	
204	Plant Product Quality and Utility (Preharvest)			3%	
205	Plant Management Systems			4%	
206	Basic Plant Biology			34%	
211	Insects, Mites, and Other Arthropods Affecting Plants			8%	
511	New and Improved Non-Food Products and Processes			6%	
701	Nutrient Composition of Food			6%	
<b>Total</b>				100%	

## V(C). Planned Program (Inputs)

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

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	0.0	68.9	0.0
<b>Actual</b>	0.0	0.0	67.0	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	124978	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	1964537	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	4998777	0

**V(D). Planned Program (Activity)**

**1. Brief description of the Activity**

The Institute of Biological Chemistry faculty have a vigorous graduate research and training program. This leads to the graduation and placement of its highly trained (Ph.D./M.S.) scientists, to publications in high quality journals, to developing patents and working with industry to implement the technologies developed, as well as carrying out needed outreach activities (e.g. to focus groups, high school students, general public, etc.).

**2. Brief description of the target audience**

The primary target audience of the Institute of Biological Chemistry is scientists within various disciplines in plant biotechnology, particularly plant biochemistry. Their research activities attract attention within the biochemical, forest products, and agricultural industries.

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

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

	<b>Direct Contacts Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
<b>Plan</b>	0	0	0	0
2007	0	0	0	0

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

**Patent Applications Submitted**

<b>Year</b>	<b>Target</b>
<b>Plan:</b>	2
2007:	0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>			
2007	0	39	39

**V(F). State Defined Outputs**

**Output Target**

**Output #1**

**Output Measure**

Peer reviewed journal articles

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	50	39

**Output #2**

**Output Measure**

Supporting graduate students on Agricultural Research Center and External Funding

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	32	27

**V(G). State Defined Outcomes**

<b>O No.</b>	<b>Outcome Name</b>
1	Increase numbers of students
2	Patents
3	External Funding in millions of dollars
4	Peer reviewed journal articles

**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**

- Economy
- Appropriations changes
- Public Policy changes
- Competing Public priorities
- Competing Programmatic Challenges
- Other (See Below)

**Brief Explanation**

The reduction in publications may be partially due to the death of one of the faculty members in 2007 (Clarence A. Ryan). The Institute had also expected to hire one-to-two new faculty members in 2007, but the hires have been delayed until late 2008. This is expected to affect 2008 figures as well.

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

**1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)

**Evaluation Results**

**Key Items of Evaluation**