



Post Event Report **DICE-AFS-2017**

Mega Innovation
& Entrepreneurship Event

November 07-08, 2017



Post Event Report
DICE-AFS-2017

Mega Innovation
Entrepreneurship Event



Compiled^{and} edited

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DICE-AFS-2017



Mega Innovation

Entrepreneurship Event

DICE-AFS- 2017 Agriculture and Food Science Innovation Event

The University of Agriculture Faisalabad (UAF) being a leading organization focuses on knowledge creation, knowledge sharing and delivery at all levels. It is playing an important role in stabilizing economic growth and food security in the country. Agriculture is and will remain the largest employer of workforce and a source of livelihood for the masses. Pakistan's population is expected to surpass 300 million by 2050, which implies that agriculture production ought to enhance out of ever shrinking cultivated areas to take care of future demand.

Recently, UAF has developed an Innovation Catalogue to upscale and commercialize the research outcomes for the benefit of the stakeholders engaged in Agri. Sector which are actually add 101 business plans. UAF has been ranked at 72nd best University across the globe and 11th in Asia Pacific in the subject of Agricultural Sciences according to National Taiwan University (NTU) ranking.

The University of Agriculture, Faisalabad UAF in collaboration with DICE (Distinguished Innovations, Collaboration and Entrepreneurship) foundation USA organized DICE-AFS-2017 Mega Innovation & Entrepreneurship Event at University of Agriculture Faisalabad, (UAF) on 7-8 November 2017. The event was attended by a large number of students, faculty, and industry from all across Pakistan. Students displayed their Agri and Food Science related projects in DICE-AFS- 2017. During the event, more than 120+ ideas were presented by the students. Several renowned speakers (domestic & international) from academia, industry and government were also participated in national Seminars sessions and shared their notable experience on various topics. Academia, Industry and Belgium ambassador attended the event. Both local as well as national media provided coverage for the event and exhibition.

DICE Foundation, USA

DICE-AFS Innovation event is one of the major initiatives of the DICE Program and has been conducted every year since 2015 at University of Agriculture, Faisalabad. The idea behind the event is to motivate Academia, Industry, Government, entrepreneurs and expatriates to come to a common platform to showcase innovations and technologies, share knowledge and further collaborate with each other for the rapid development of innovative products, necessary for the socio-economic development of the country.

DICE Foundation, is a non-profit, tax-exempt organization, registered in Michigan, USA. DICE Foundation in collaboration with its domestic and international partners, is pursuing a DICE Program in Pakistan. To foster a culture of Innovation and Entrepreneurship in the country and transform Pakistan into an innovation-driven economy, DICE foundation has taken several initiatives such as DICE Agriculture & Food Sciences Innovation Event, DICE-Automotive, DICE-Energy, DICE-Health, DICE-Textile and DICE Information & Enabling Technologies. University of Agriculture, Faisalabad organized DICE Mega Innovation Event in 2015, in 2016 & 2017 DICE-Agriculture and Food Science Innovation Event was held at the Exhibition Center University of Agriculture, Faisalabad.

DICE-Agriculture & Food Science innovation event

The major objective of the DICE-AFS 2017 is as follows:

Objectives

- To foster culture of Innovation and Entrepreneurship in the country and make it part of Nation's DNA
- To establish a strong linkage between academia and agriculture and food sciences industry and provide a common platform for academia, industry, government, entrepreneurs and expatriates to interact, share knowledge and collaborate on innovations and commercialization, in order to grow the indigenous agriculture and food sciences industry in the country.
- To create a positive and favorable image of Pakistan agriculture and food sciences industry in the eyes of international community.
- To expedite the process of technology revolution in Pakistan by motivating both academia and industry to acquire, promote and utilize state-of-art technologies/high-tech software for the rapid development of innovative agriculture and food products.

Participation Criteria

Following Participation criteria was developed for participation in the DICE-AFS Innovation Event 2017: Student teams working on Agriculture and Food sciences related research/innovations, from any HEC

- recognized degree awarding university/institution
- Each team can have a maximum of two members. If possible then each team should have one member from the Agriculture and Food Sciences Industry.

The innovative projects were from any of the following thematic areas

- Agriculture and Food Sciences
- Agriculture and Veterinary Sciences
- Agri-engineering Technology and ICT
- Food, Home and Social Sciences
- Value addition, Ventures and Commercialization
-

Registration Process

- Online registration portal was created as <http://diceafs.uaf.edu.pk/>
- A team member for each project should register on Innovation Portal. (<http://www.diceinnovationportal.com>)

Following were the process for online registration of Teams/ideas

Step 1

Register your-self as team leader at DICE-AFS by Singing Up

Step 2

Visit your Email Account for the Activation of Account

Step 3

Submit your Innovative Idea after getting Signed In

Step 4

Register Your Proposal on DICE Innovation Portal
www.diceinnovationportal.com

Project Requirements

The project requirements were as follow:

- Participating teams have to submit an innovative project idea, one page project description, and details of team members at the time of registration.
- Teams should utilize state-of-art technologies/software to design the innovative product concept.
- Projects having strong potential to benefit local industry/economy will be given special consideration.
- Teams should submit the complete project report including business plan prior to the final event before deadline (report template was available on the (<http://diceafs.uaf.edu.pk>) website).
- Teams had displayed and presented their projects on the final day of the event.

Judgment and Evaluation

Panel of Judges consisting of experts, from both academia (majority of judges from outside of host institution) and industry (Members Faisalabad Chamber of Commerce and Industries FCCI) was exclusively invited for the evaluation. Top fifteen projects were reviewed by DICE-AFS judges for DICE Shark and out of them top 3 winners were picked. The following Evaluation Criteria was planned to evaluate the projects.

- Degree of Innovation (20%)
- Potential impact on local industry and economy (20%)
- Readiness for commercialization (prototype, business plan) (50%)
- Presentation (10%)

DICE-AFS Prizes & Shields

In order to acknowledge the considerate efforts of students, cash prizes and shields were awarded to the DICE-AFS-2017 participants. First, second and third prize was given to the winners as per following scheme

- First Prize: Cash Prize of Rs. 100,000/- along with DICE-AFS | 2017 Shield
- Second Prize: Cash Prize of Rs. 60,000/- along with DICE-AFS | 2017 Shield
- Third Prize: Cash Prize of Rs. 40,000/- along with DICE-AFS | 2017 Shield
- Top ten best of the best projects were awarded cash prizes Rs.7000/-
- All participating teams were awarded certificate of appreciation

Sponsors

We are obliged to the following sponsors for providing sponsorships for DICE-AFS- 2017 Innovation Event.

- PARB (Punjab Agriculture Research Board)
- EFS (Endowment Fund Secretariat), University of Agriculture ,Faisalabad
- DICE Foundation USA

Prominent Participation

Participating teams have exhibited their innovative ideas / concepts / products in this professionally designed exhibition. Several renowned speakers (domestic & international) from academia, industry and government have also appeared in national Seminars sessions and shared their notable experience on various topics. The Vice Chancellor of various universities, President FCCI, Senior Management of FCCI and Belgium Ambassador attended the event.

Fact Sheet

Participating Industries	15
Participating Universities	30+
Academic Projects	145+
Foot Count	5000+
National Speakers	8



National Seminar

During the event Seminars were arranged by
Office of Research Innovation
and Commercialization



National Seminar on Challenges for Research Commercialization and Way Forward

07 November 2017

Introduction

For a knowledge-based economy, the university becomes a key element of innovation system as a creator of new knowledge based on research and as a provider of human capital. Commercialization is the process by which a new product or service is introduced into the general market. Commercialization is broken into phases, from the initial introduction of the product through its mass production and adoption. It takes into account the production, distribution, marketing, sales and customer support required to achieve that a business develops a marketing plan, determines how the product will be supplied to the market and anticipates barriers to success.

Why Commercialize?

University of Agriculture, Faisalabad strives to make a positive impact through knowledge. One important aspect of that impact is our capacity to move research results from the laboratory or clinic into new or improved products and services in the marketplace. Our success in translating research results into practice not only accelerates the beneficial aspects of our research, but also has a major positive impact on our region's economy. This is an important role for a university in today's knowledge-driven.

Benefits of Commercialization

Commercialization of Research provides new products and services that can be used to solve some of life's most pressing problems, as well as making incremental improvements to the quality of life for consumers and business effectiveness across a wide variety of domains. Spanning across areas such as healthcare, environmental, wellness, fitness, education, agriculture, industrial applications and simply, day-to-day when they are in hands of those who can benefit from them most. Overall, societal benefit is the key driver behind commercializing new inventions at the University of Agriculture Faisalabad. Taking innovations to market through Commercialization also support to an economic benefit. Whether it be through the licensing of technology to other companies, commercialization provides new revenue generation and job creation locally, regionally and potential across the globe.

Academia Industry Linkages

Commercialization provides an opportunity to engage with industry partners, Investors and other business. These partnerships can result in additional funding source to further University research. In addition , the University can generate revenue that can be reinvested into research, cover commercialization related costs and fund the pursuit of entrepreneurship.

Speakers

Dr. Habib Aslam Gaba

Chairman, Industry Academia Linkages

Ms. Samar Hasan

Co-Founder, Epiphany

Dr. Ahmad Raza Bilal

Chair Technopreneurship and Innovation,
Superior University, Lahore



National Seminar on Bio fertilizers: Pros & Cons of Entrepreneurship in Pakistan

08 November 2017

Introduction

Since the green revolution, chemical fertilizers are playing pivot role for increasing the agriculture production to fulfill the demands of burgeoning human population. The world demand for total fertilizers nutrients has been increasing demand of chemical fertilizers; yield of our major crops is almost stagnant and is not increasing at required rate. Significant portion of nutrients applied in the field is not taken up by plants and is lost through different means thus decreasing their use efficiencies. Therefore, sole reliance on chemical fertilizers is not sustainable and viable strategy because of high cost, low efficiency and concerns about global warming, environmental pollution and health safety. It is imperative to find means for improving the efficiency of chemical fertilizers in sustainable ways. In this regard, recent efforts have been channelized more towards sustainable agriculture to ensure food security. The innovative view of crop production attracts the growing demand of Bio fertilizers as supplement to chemical fertilizers .Use of Biofertilizers has been successfully exploited in many developed countries, while in Pakistan it has not been explored up to potential due to several factors, including lack of trained personnel, lack of appreciation of the benefits of inoculation, marketing issues and absence of suitable industrial support .Currently ,in Pakistan, Bio fertilizers are used on farms at a limited scale which contributes only a small fraction of the total fertilizers used by the farmers for crop production. However, there is a great potential to increase the use of Biofertilizers for sustainable agriculture systems. Currently, Pakistan is spending huge amounts on the amounts on the import of chemical fertilizers. Only a small contribution by Biofertilizers to the total fertilizer consumption may save up to billions of rupees per year in Pakistan. In this context, Biofertilizers can provide an economically viable lever for realizing the ultimate goal of increasing productivity epically of the small and marginal farmers .increase in chemical fertilizers use efficiency may be the additional benefits besides improving soil health. Furthermore, use of extremophiles as Bio fertilizers can play significant productivity in the current scenario of climate change. Besides the long-term use of Bio fertilizers is economical, ecofriendly more efficient productive and accessible to marginal and small farmers.

Scope of the Seminar

This national seminar intends to cover major pros and cons associated with bio fertilizer production, marketing and use at farmer's field.

Resource Person

Prof. Dr. Zahir Shah

Department of Soil and Environmental Sciences,
The University of Agriculture, Peshawar

Dr. Farukh Hassan

Neha Tech Pvt.Ltd.

Dr. Maqbool Akhter

Jaffer Brothers Pvt.Ltd.

Dr. Nadeem Tariq

Neha Tech Pvt.Ltd.







Positions



Positions in DICE-AFS-2017

As per results, the team of University of Karachi has won the first position. The University of Karachi team was led by Miss Asma Tabassum and supervised by Miss Hira Anwar. The Second position was won by University of Agriculture team led by Mr. Muhammad Abu Bakar and the third position was won by University of Agriculture team led by Mr. Zeeshan Haider.

The Concluding session was chaired by Prof Dr Muhammad Iqbal Zafar, Vice Chancellor, University of Agriculture, Faisalabad. The panel of judges analyzed the innovative products with the special focus on its impact on the lives of people, and agriculture sector.



Positions	Project ID	Team Leader Name	Cheque Amount	University Name	Project Title
1	1779	Hira Anwer	100,000/-	University of Karachi	Agaroglaze
2	1712	Muhammad Abubakar Khalid	60,000/-	University of Agriculture, Faisalabad	AgriLogics
3	1708	ENGR. ZEESHAN HAYDAR	40,000/-	University of Agriculture, Faisalabad	Mechanized KnapSack Sprayer for small land holder Farmers.
4	1776	Ms. Shazia Zahra	7,000/-	NUR International University	Therapeutic Diets with Functional Foods
5	1784	Hafiz Muhammad Qasim Ali	7,000/-	University of Agriculture, Faisalabad	Smokeless Solar Cooking Stove
6	1818	Kiran Rani	7,000/-	University of Karachi	Fabric Dyeing with Natural Colorants in Seaweeds
7	1848	Asif Iqbal	7,000/-	Hamdard University Karachi	Medicinal aspect of diet & Environment
8	1761	Ms Saima Tehseen	7,000/-	G C Women University Faisalabad	Healthy Food for Wealthy Mood
9	1814	Ramin Farooq	7,000/-	Kinnaird College for women, Lahore	Datenut
10	1820	Ms Madiha Ilyas	7,000/-	G C Women University Faisalabad	Pharmaceuticals to Nutraceuticals and Functional Foods; A shift in disease prevention
11	1801	Ms.Huma Umbreen	7,000/-	Govt. College Women University Faisalabad	Investment in Nutrition for Wellness, Rather to Subsidize Illness
12	1806	Muhammad Shahid Nadeem Sabir	7,000/-	National University of Sciences and Technology (NUST)	Smart Portable Irrigation system
13	1843	Ms Muhammad Idrees	7,000/-	University of Wah, Wah Cantt	Aquaponics: A Sustainable Aquaculture and Hydroponics System
14	1883	Asad Mehmood	7,000/-	UAF	Dried Spinash
15	1800	Umair Zafar	7,000/-	University of Agriculture, Faisalabad	Aqua Cure
16	1875	Zainab Saleem	7,000/-	National Textile University, Faisalabad	Fabrication from Cotton and Peacock feather blend. (slub yarn)
17	1782	Hafiza Ayesha Iqbal	7,000/-	National Textile University, Faisalabad	Development of Eco-friendly Fibrous Sheet from Sugarcane Straw
18	1817	Taimoor Hassan	7,000/-	Bahria University	Maqami

Project ID: **1779**

Team Leader Name: **Hira Anwar**

Project Title: **Agaroglaze**

University Name: **University of Karachi**

Description:

Present research manifests the production of biodegradable & eco-friendly plastic obtained from natural polymer extracted from indigenous seaweed of Karachi coast. It has proved to be the best alternative to the synthetic plastic after survey of local market.



Project ID: **1712**

Team Leader Name: **Muhammad Abubakar Khalid**

Project Title: **Agrilogics**

University Name: **University of Agriculture Faisalabad**

Description:

Our goal is the provision of urban life with fresh, nutritious, organic food. Our product aims to empower citizens of Pakistan to become self-sufficient by growing their own food and contribute to the food chain resulting in a decrease of food shortage and insecurity. Our idea is to develop smart kitchen gardening system which will work autonomously and enable the people to grow vegetables, herbs, and medicinal plants within the vicinity of their homes, buildings etc. It would require considerably less amount of time for management. Using the mobile app and internet connectivity, we will be able to monitor and would enable to monitor its working and utilize inputs efficiently.



Project ID: **1776**

Team Leader Name: **Miss Shazia Zahra**

Project Title: **Therapeutic Diets with Functional Foods**

University Name: **NUR International University Lahore**

Description:

NUR International University in collaboration with Khaalis Kitchenette aims to provide therapeutic diets with functional foods to promote healthy eating lifestyle and improved patient health. This service shall deal with designing disease-specific customized and nutrient-dense trays for patients suffering from acute or chronic diseases including diabetes, arthritis, hypertension, anemia and enteral nutrition. For additional health benefits, functional foods shall also be incorporated in their diets.



Project ID: 1784

Team Leader Name: Hafiz Muhammad Qasim Ali

Project Title: Smokeless Solar Cooking Stove

University Name: University of Agriculture Faisalabad

Description:

Around 30 million people in different areas of Pakistan are living without electricity a huge number of people more than 3 billion people of Pakistan have no access to Natural Gas and use wood and other material for cooking. Open-fire cooking kills four million people every year, which is more than AIDS and Malaria combined. Most people have never heard about this issue. Our cooking stove provides smokeless cooking, as well as off-grid solar energy for lighting and phone charging. Its an all-in-one clean energy device. The cook stove can function with a wide range of fuels, which are available free of cost (like twigs, cow dung, coconut shells, corn cob centers) or relatively cheap (pellets, briquettes). They are need to be small enough to fit inside the cook stove, which means that were encouraging the use of fuel sources currently going to waste, instead of chopping down trees. With the solar energy feature providing lighting & phone charging for free, the stove pretty much pays for itself.



Project ID: **1818**

Team Leader Name: **Kiran Rani**

Project Title: **Fabric Dyeing with Natural Colorants in Seaweeds**

University Name: **University of Karachi**

Description:

The current research developed from a growing interest in natural dyes. The use of these dyes in textile coloration is gaining popularity all over the world due to their biodegradability and less toxic effects to the environment as compared to the synthetic dyes. These natural colorants extracted from natural resources and waste materials. The current research focus on extraction method of colorants from seaweeds and their application on cotton fabric were developed. The light, crock and wash fastness properties of the resultant fabric were determined.



Project ID: **1761**

Team Leader Name: **Ms Saima Tehseen**

Project Title: **Healthy Food for Wealthy Mood**

University Name: **Government College Women University Faisalabad**

Descriptions:

University Name: Government College Women University Faisalabad Descriptions: The objective of current project is to develop nutrient rich products



Project ID: **1814**

Team Leader Name: **Ramin Farooq**

Project Title: **Datenut**

University Name: **Kinnarid College for Women Lahore**

Description:

Datenut is a toffee made with dates as fresh as home grown with a light crisp of nuts. Datenut toffees are nutritious having no preservatives and additives.



Project ID: **1820**

Team Leader Name: **Ms Madiha Ilyas**

Project Title: **Pharmaceuticals to Nutraceuticals and Functional Foods; A shift in disease prevention**

University Name: **Government College Women University Faisalabad**

Description:

Nutraceuticals may be defined as a substance, which has physiological benefit or provides protection against chronic diseases. Nutraceuticals may be used to improve health, delay the aging process, prevent chronic diseases, increase life expectancy, or support the structure or function of the body. The interest in Nutraceuticals and functional foods continues to grow, powered by progressive research efforts to identify properties and potential applications of Nutraceuticals substances, and coupled with public interest and consumer demand. The principal reasons for the growth of the functional food market are current population and health trends. There is very good scope to suggest good herbal products; in fact market is waiting for it. A market research recently proposed that the worldwide Nutraceuticals market is expanding and would reach US \$250 billion by 2018. The native plants are usually under-explored instead of their enormous nutritional and medicinal benefits in many countries. So, it is essential to explore the potential of medicinal plants through the development of innovative functional foods/Nutraceuticals. In this context the exploitation of indigenous food plants is supposed to be an excellent step for management of chronic diseases and to fulfill fundamental body needs in an economical and sustainable way.



Project ID: **1806**

Team Leader Name: **Muhammad Shahid Nadeem Sabir**

Project Title: **Smart Portable Irrigation system**

University Name: **National University of Science & Technology (NUST) Islamabad**

Description:

Indus Basin Irrigation System is the world's largest irrigation system but on the other hand, it is the least efficient irrigation system (36%). Annually 24 Million Acre Feet water is lost in the field due to inefficient irrigation techniques i.e., flood irrigation and basin irrigation etc. Under recent development, High-Efficiency Irrigation Systems (HEIS) have been widely adopted in Pakistan especially in Pothwar region. Among HEIS, drip irrigation for the orchard is famous however the land in between orchard rows is irrigated by flooding technique.



Project ID: **1843**

Team Leader Name: **Muhammad Idrees**

Project Title: **Aquaponics: A Sustainable Aquaculture and Hydroponics System**

University Name: **University of Wah**

Description:

This system is a combination of Aquaculture and Hydroponics. That we get by combining these two systems for the growth of aquatic animals such as fish, crabs etc. and growth of plants in a symbiotic environment. In aquaculture the waste secreted by animals is accumulated in the water increasing its toxicity which is harmful for those animals that's why the water has to be filtered out which can be expensive (involving bio filters etc). So in order to mitigate the issue the second part of the system comes in handy, the water full of waste is supplied to the tanks where plants supporting mediums such as gravels or sand traps the solids. Here the third party, nitrifying bacteria does the job and converts that solid waste initially into nitrites, which are utilized by the plants as nutrients, and the water is then recirculated back to the aquaculture system. The Aquaponics system can be setup at large scale which economically reduces the cost.



Project ID: **1800**

Team Leader Name: **Muhammad Umair Zafar**

Project Title: **Aqua Cure**

University Name: **University of Agriculture Faisalabad**

Description:

As we know water is the basic necessity of life. We are introducing Pure Water and natural flavored water with the name of AQUA CURE. We have introduced 250 ml packing in glass which has not been introduced in Pakistan. We are offering low price as compare to other mineral water brands. Our flavored water is non-carbonated and free of Caffeine, sweetener, and calorie and without artificial taste and colors.



Project ID: **1875**

Team Leader Name: **Zainab Saleem**

Project Title: **Fabrication from Cotton and Peacock feather blend. (slub yarn)**

University Name: **National Textile University Faisalabad**

Description:

This idea is related to design a fabrication with the blend of cotton and peacock feathers by weaving. It will be finished into apparel (women jackets). Natural wheat grains will be used as an embellishment material. The main emphasis will be the visual property of fabric in the product.



Project ID: **1782**

Team Leader Name: **Hafiza Ayesha Iqbal**

Project Title: **Development of Eco-friendly Fibrous Sheet from Sugarcane Straw**

University Name: **National Textile University Faisalabad**

Description:

Sugarcane is a significant cash crop in many countries of the world. It is the second largest agro based industry after textile industry in Pakistan. A large amount of sugar cane straw is produced annually and it is used as a fuel in industry. The present research work encompasses the preparation of handmade fibrous sheet from sugar cane straw. Its eco-friendly nature, appealing texture, low-cost consideration and strength makes it appropriate for any designed profitable product.



Project ID: **1817**

Team Leader Name: **Taimoor Hassan**

Project Title: **Maqami**

University Name: **Bahria University Islamabad**

Description:

Maqami is a two sided food and eatery discovery platform primarily focused on planning Dine outs. Maqami has a facilitation site and Social Networking. Primarily, Maqami empower people to Discover any particular item or items in town related to food.



Project ID: 1708

Team Leader Name: ENGR. ZEESHAN HAYDAR

Project Title: Mechanized KnapSack Sprayer for small land holder Farmers

Description:

Countless and blind use of liquid fertilizer, pesticides, insecticides and herbicides to control the pest, insect, herbs and another parameter is only solution to enhance the field efficiency, no! not at all, Due to unawareness and lack of scientific knowledge this activity leads to lot of human and environmental hazardous which may causes many cardiovascular disease, asthma, breathing and skin problem. The efficiency of agriculture fields depend on many interacting factors like crop characteristics, inputs, inputs application techniques, climatic conditions, applied fertilizer dose rate and others Inter dependent factors that allow in an adequate combination to achieve high efficacy and efficiency values. To accomplish this aim, to reduce the plant protection product and for sustainable agriculture we need to provide the field inputs as per requirement of the field to control its variability. We developed environmental safe spraying techniques for uniform spraying throughout the field with modern variable rate spray concept that is very safe environmental activity. Manual knapsack sprayer machine is mostly used for spraying application in Pakistan. Farmers hold small land, so they need mechanized knapsack machine for efficient and fruit full spraying purposes.

Project ID: 1848

Team Leader Name: Asif Iqbal

Project Title: Medicinal aspect of diet & Environment

Description: Medicinal Aspect of Diet and Environment Asif Iqbal Chairman Department of Medicine and Allied Sciences Faculty of Eastern Medicine Hamdard University Karachi Pakistan.

ABSTRACT Key words: therapeutic, Laws of Nature, Application, Temperamental evaluation. Allah Almighty has gifted everyone with a unique natural temperament; Allah Almighty has blessed us with plants to concur with our temperamental needs providing both comfort and relief. Plants are both a source of food to keep us healthy and provide relief from disease when we are unwell. With this perspective nations are reverting towards this natural way of treatment which falls in sync with natural laws entirely is in accordance with Sunnah of our Prophet Muhammad (Peace be upon him). The human body by intrinsically is a pharmacological factory composed of histamine, glucagon, insulin, interferon, steroids, enzymes, hormones and vitamins that are naturally synthesized by it. In a healthy state a man has temperature of 37 degrees - if his environmental temperature is 50 degrees and after sometimes if he goes to a room where the temperature is 0 degree, yet his body will adjust to 37degrees to maintain his normal temperature: the system of heat gain and heat loss totally alters and this alteration in function of nervous system, cardio vascular system, endocrinological system, GIT respiratory system and skin and cause of alteration(opposite) of all these secretion is extremely caused by external environment.

Project ID: 1801

Team Leader Name: Ms. Huma Umbreen

Project Title: Investment in Nutrition for Wellness, Rather to Subsidize Illness

Description:

The core objective of the proposal is to introduce the research products for prevention and management of diseases and make masses aware of better nutrition practices in daily life. Furthermore it focuses on how healthy food choices can reduce the budget head for medicines and can ultimately lead the economy towards betterment.



Pictorial View









