

(Theme: Transcriptome Analysis: Unveiling the layers of expression)

## About the Conference:

Transcriptomics-2015 welcomes attendees, presenters, and exhibitors from all over the world to Orlando. We are delighted to invite you all to attend and register for the “**International Conference on Transcriptomics**” which is going to be held during July 27-29, 2015 in Orlando, USA.

The organizing committee is gearing up for an exciting and informative conference program including plenary lectures, symposia, workshops on a variety of topics, poster presentations and various programs for participants from all over the world.

We invite you to join us at the Transcriptomics-2015, where you will be sure to have a meaningful experience with scholars from around the world. All members of the Transcriptomics-2015 organizing committee look forward to meeting you in Orlando, USA.

For more details please visit <http://transcriptomics.conferenceseries.com/index.php>

## Importance & Scope:

Transcriptomics studies involve the collection and analysis of Transcriptomes of different types of cells or tissues of organism. It encourages researchers to understand transcriptional activity in disease caused. Transcriptomics research provides a profitable business opportunity to several pharmaceutical and biotech companies as these technologies have wide application areas such as drug discovery and research followed by clinical diagnosis of various disorders. With the arrival of advanced technological platforms, it creates a need for effective bioinformatics tools and services in order to manage and analyze huge amount of data released from these technologies.

Transcriptomics mainly focusses on the Universities, Institutes and Major Societies but even it also covers the big market in Transcriptome technology. So we can say that Transcriptomics is the topic to be focused equally on both: Academia as well as Business. It would be beneficial for all the researchers/students who really want their ideas to be implemented practically. Even those scientists who are willing to get some business for their research, this conference are a major platform. According to the theme, conference mainly focusses on Transcriptome analysis, Next Generation Sequencing and treatment of major sequence related disorders like Cancer & other Neurological Disorders. It also covers the same for microorganisms like Bacteria, Algae, Fungi and Plants.

## Why Orlando?

Orlando, a city famous for Disney World also is home to an emerging biotech sector. Orlando hosts more than 4,300 life sciences-related companies that employ about 86,000 people. Orlando's collaborative spirit plays a key role in its success. Orlando biotech companies worked on the technology which was used at Florida Hospital Celebration Health to perform the world's first deep-brain stimulation procedure. According to the new market research report, the global Transcriptomics Market is estimated to be worth \$1985.5 Million by the end of 2014 and is expected to reach \$3,773.0 Million by 2019, at a CAGR of 13.7% from 2014 to 2019.

The influx of technology-related companies to the area has made Orlando one of the fastest growing high technology centers in the

nation. The metro area has the country's largest concentration of modeling, simulation and training (MS&T) businesses, research centers, and educational facilities. The MS&T sector, which has its roots in military services, provides applications in such diverse fields as homeland security, emergency services, entertainment, information and medical technologies, optics and photonics, and transportation. It accounts for more than 100 area companies and \$2.5 billion in gross regional product. Another strong segment of the high technology industry is software. This field, another off-shoot of military applications, focuses on financial services but includes other areas like utilities, billing, higher education, multimedia, animation, and military training. More than 1,000 software companies are based in Metro Orlando, generating nearly \$1 billion in annual revenue.

## Conference Highlights:

- Transcriptome analysis & Gene Expression-an Overview
- RNA editing and RNA Interference: Interplay
- Next Generation Sequencing Technologies
- Disease Interrogation & Clinical Applications of RNA-SEQ
- Exploring the complexity of the Transcriptome
- Refining expression analysis
- Single-Cell Genome & Transcriptome Sequencing
- Functional Impact of Non-Coding RNA
- Cancer Genomics: Integrative And Computational Approaches
- Expression Profiling
- Applications and Related Disorders
- Transcriptomics and Proteomic of Plants
- Transcriptomics and Proteomics of Microorganisms
- Proteomics of Transcriptional Machinery
- New horizon to the Transcriptome

## Why to attend???

with members from around the world focused on learning about Transcriptome analysis and research, this is your single best opportunity to reach the largest assemblage of participants from the scientific community. Conduct demonstrations, distribute information, meet with current and potential customers, and make a splash with a new product line, and receive name recognition at this 3-day event. World-renowned speakers, the most recent techniques, tactics, and the newest updates in Transcriptomics growing market are hallmarks of this conference.

Be Part of it!

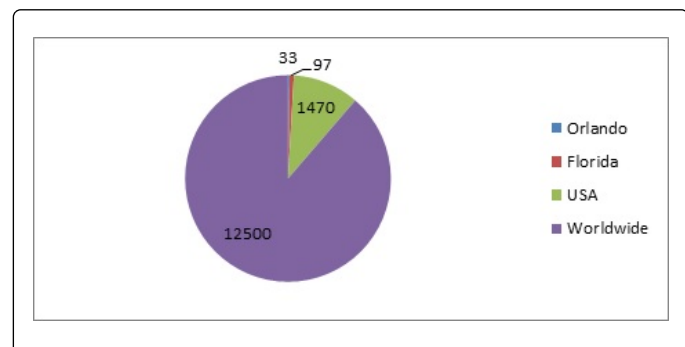
- This conference focusing on all the major aspects in the fields of Transcriptomics.
- It would be beneficial for all the students who ever willing to enter into research to the respective fields.
- As bringing the major research to the market and making it to utility are major focus for all the companies, this conference would be opportunity for the people in the respective fields.

A Unique Opportunity for Advertisers and Sponsors at this International event:

<http://transcriptomics.conferenceseries.com/Sponsorship.pdf>

## Hospitals Associated with Transcriptomics Related Disorders

Mainly Neurological and Onocological disorders are the two broad areas in which the Transcriptome analysis plays a major role.

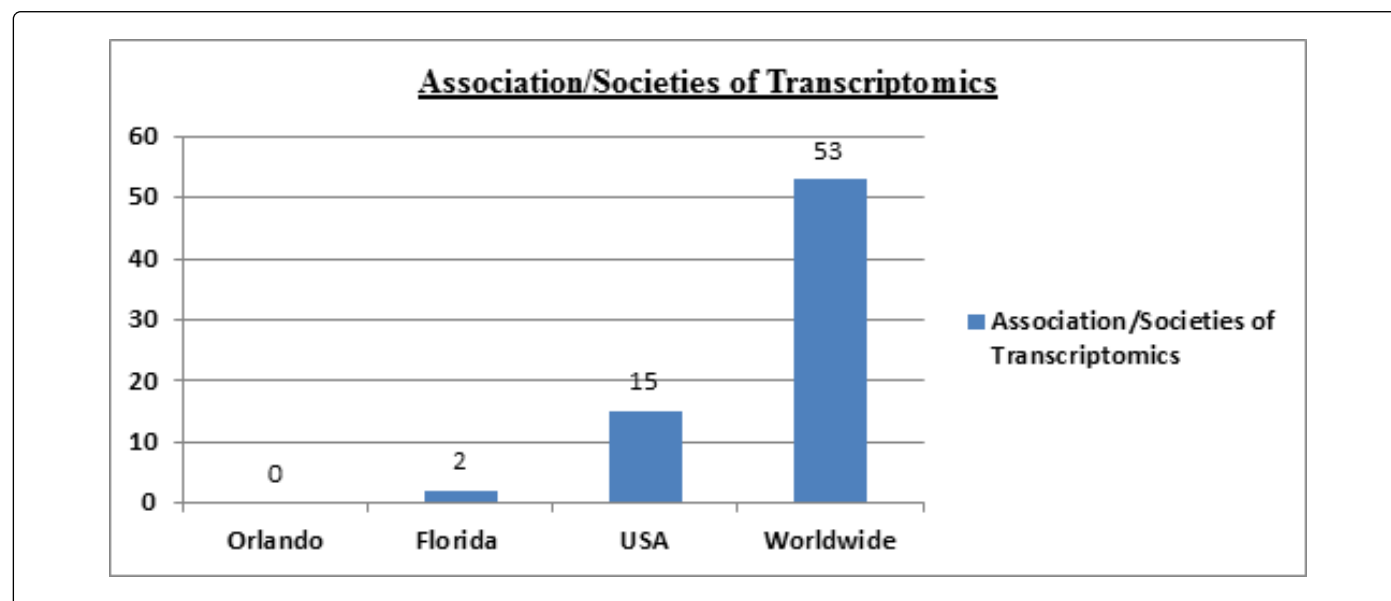


**Figure 1:** Hospitals related to transcriptome related disorders in USA

## Societies Associated with Transcriptomics Research

The Association of Bimolecular Resource Facilities (ABRF), Bethesda, MD, USA

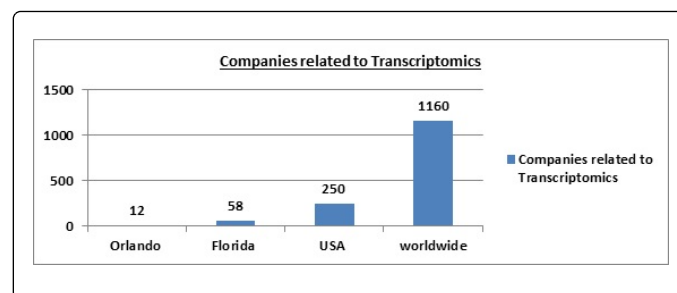
- American Society of Gene and Cell Therapy, Milwaukee, Wisconsin, USA
- Triangle Chromatography Discussion Group, USA
- American Chemical Society
- American Society for Microbiology, USA
- RNA Society - Maryland, USA
- University of Nebraska Medical Centre, Omaha, Nebraska, USA
- US HUPO, Santa Fe, New Mexico, USA
- The Protein Society, USA
- Society for Industrial Microbiology and Biotechnology, Fairfax, Virginia, USA
- Federation of American Societies for Experimental Biology (FASEB), Maryland, USA
- BioFlorida- Life Science Community
- European Society of Human Genetics, Vienna, Austria
- European Proteomics Association (EuPA), UK
- British Society for Proteome Research (BSPR), UK
- Swiss Proteomics Society (SPS), Switzerland
- Proteomics Society, India



**Figure 2:** Association/Societies related to Transcriptomics

## Companies associated with Transcriptomics Research

- Affymetrix - Santa Clara, California USA
- Roche NimbleGen Inc. Madison, Wisconsin, United States
- SciGene Sunnyvale, California, United States
- Arrayit Corporation
- DNAmicroarray California, USA
- LC Sciences, Houston, TX, US
- SeqWright Genomic Services (a unit of GE health care)



**Figure 3:** Companies related to Transcriptomics technology

Source:Reference 5, 6, 7, 8, 9

**Target Audience:**

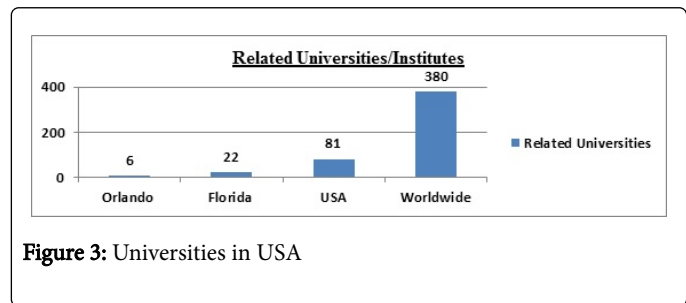
- Professors
- Scientists
- Students
- CEO, Directors of the companies.
- Exhibitors

**Target Audience:**

Academia 50%  
 Industry 40%  
 Others 10%

**Top Universities in USA:**

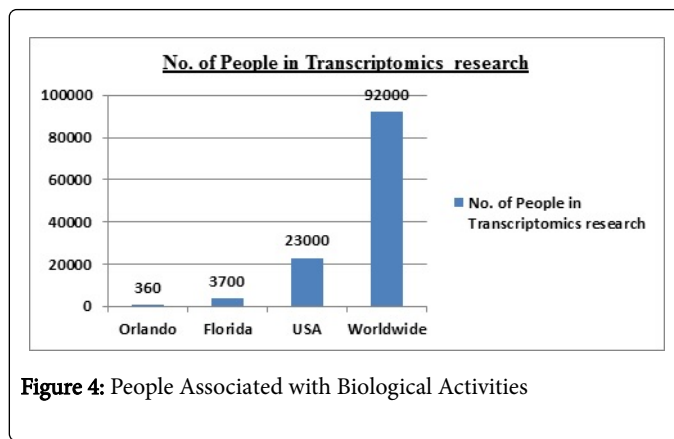
- Belhaven University, Orlando Campus.
- Valencia College-Orlando.
- University of Central Florida
- Florida Agricultural and Mechanical University (Tallahassee).
- Florida Atlantic University (Boca Raton)
- Florida Gulf Coast University (Ft. Myers)
- Florida International University (Miami)
- Florida State University (Tallahassee)
- New College of Florida (Sarasota)
- University of Florida (Gainesville)
- University of North Florida (Jacksonville)
- University of South Florida (Tampa)



**Figure 3:** Universities in USA

**People associated with Transcriptomics Research**

As Transcriptomics is dealing with the complete range of RNA related content and so the total number of people associated are estimated on the basis of research going on Transcriptomics as well as related aspects such as Next generation sequencing, RNA-Seq, Transcriptome analysis, non-coding RNA etc

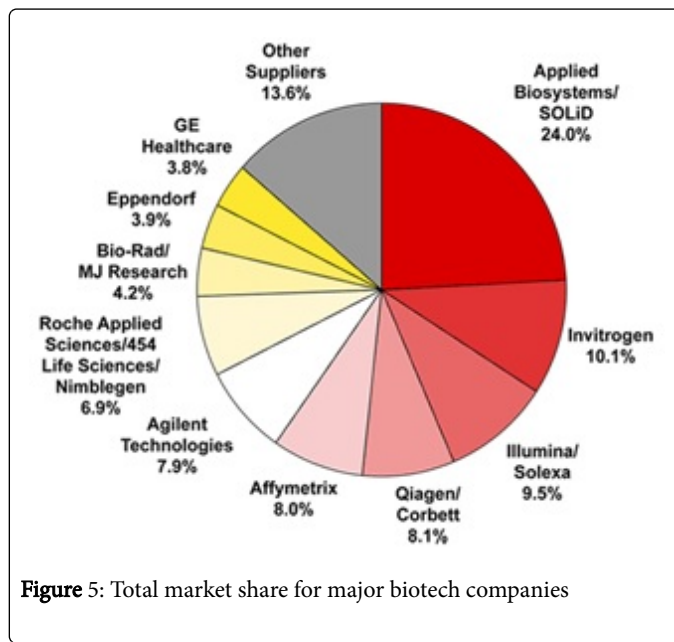


**Figure 4:** People Associated with Biological Activities

Source: Reference 2, 3, 4

**Glance at Transcriptome Technology Market:**

Total market share for major biotech companies is provided below. Among them are the companies who specifically focus on Transcriptome technology market

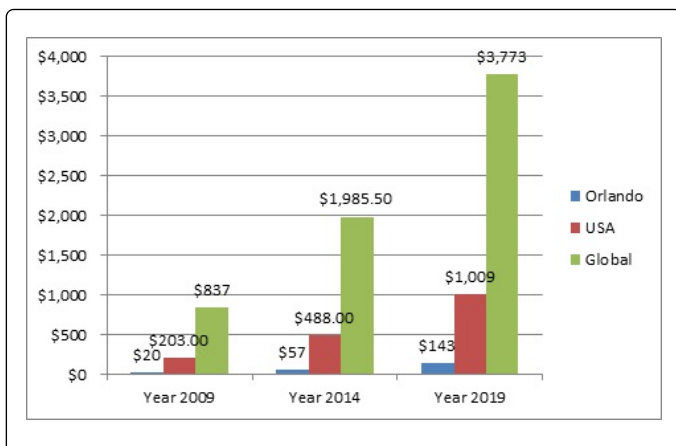


**Figure 5:** Total market share for major biotech companies

The major technologies employed for Transcriptome analysis comprises:

- Microarrays
- PCR
- RNAi Gene Silencing Technology
- NGS Technology

## Market Growth of Major Companies in the Country:



**Figure 6:** Market Growth rate for Transcriptome technology.

Source: Reference 10

## Products manufactured by the Companies related Transcriptomics Research and its Market Value:

Major companies are involved in the manufacturing and designing of Sequencing Platforms as well as technologies for the process. These technologies include:

- Illumina (Solexa) sequencing by Illumina
- Roche 454 sequencing by Hoffmann-La Roche
- Ion torrent: Proton / PGM sequencing by Life technologies
- SOLiD sequencing by Applied Biosystems

### Product based companies:

Affymetrix - Calculation of Revenue is on quarterly basis: For the second quarter of 2014, operating expenses were \$49.1 million and the product revenue was \$75.9 million

Roche NimbleGen Inc - Innovator, manufacturer and supplier of a proprietary suite of DNA microarrays, instruments and services. Investment - 9 billion Swiss francs in R&D. Revenue from sales was of 47.5 billion Swiss francs.

SciGene - develops and commercializes genome analysis technologies in research and clinical laboratories

Arrayit Corporation - is a leading life sciences company providing innovative products and services to empower scientists and clinicians to explore the human genome as well as the genomes of plants and animals.

Revenue (annual) - \$690 billion

DNAMicroarrayCalifornia, USA - Product based company providing research tools for Therapeutics and Diagnostics in Genomic, Proteomic and Transcriptomics

LC Sciences - Global biotechnology company providing products and services to genomics, proteomics and Transcriptomics researchers across an array of markets for nucleic acid/protein analysis, biomarker-discovery and drug development.

SeqWright Genomic Services (a unit of GE health care): SeqWright Genomic Services is a Contract Research Organization (CRO) providing research products for molecular biology, to microarray, and next generation genomics.

### References:

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