

Date & Venue: October 26-28, 2015 Chicago, USA

Theme: Current Trends and Challenges of Protein Dynamics

Summary:

Protein engineering is the process of developing useful proteins with much research taking place into the understanding of protein folding and recognition for protein design principles. The main theme of the conference is Current Trends and Challenges of Protein Dynamics.

The Protein Engineering is now gained approval with a market size estimated at some \$33 billion in 2004 and reached \$70 billion by the end of the decade. In 2012, the market is \$56 billion and increased to 168 billion in 2017, at a Compound Annual Growth Rate (CAGR) of 10.9% from 2012 through 2017. On the basis of products, the protein crystallization market has segments such as reagents/consumables and instruments, which are accounted for 85% of the protein crystallization & crystallography product market. It is expected to grow at a high CAGR of 11% over the forecast period. The global market was valued at \$775 million in 2013 and is expected to reach \$1,253 million by 2018.

For more details please visit: http://protein-engineering.conferenceseries.com/

Importance & Scope:

Protein engineering is the design of new enzymes or proteins with new or desirable functions. It is the process of developing useful proteins with much research taking place into the understanding of protein folding and recognition for protein design principles. Protein engineering has for decades been a powerful tool in biotechnology for generating vast numbers of useful enzymes for industrial applications.

There will be challenging topics related to the protein dynamics in the field of protein engineering. In recent years, great improvements have been made in all the parts of non-targeted mass spectrometry based proteomics including sample preparation, data acquisition, data processing and analysis.

Why Chicago?

Chicago is the third most populous city in United States. The city is an international hub for finance, commerce, industry, technology, telecommunications, and transportation, with O'Hare International Airport being the busiest airport in the world. The city has numerous convention centers and venues for trade events, among them the Doubletree by Hilton Hotel is the place where we accommodate.

The study and research of the protein engineering is top in USA when compared to the Europe and Asia. Protein Engineering related companies and products are mostly found in Chicago. The well-developed technologies related to protein are used in universities in Chicago.

Conference Highlights:

Protein Engineering

Proteins

Protein Synthesis and Folding

Protein Modification, Targeting and Degradation

Mass Spectrometry in Proteome Research

Proteomics & bioinformatics

Genomics

Systems Biology Applications of Proteins Protein Dietary Supplements Recombinant Protein Expression Structure and Function of Proteins Physiological Metabolic Pathways Pharmacogenomics and Pharmacoproteomics

Why to attend???

Meet Your Target Market with members from around the world focused on learning about Protein Engineering, this is your single best opportunity to reach the largest assemblage of eminent persons and participants from different countries. Conduct symposia, workshops and distribute information related to your field to meet with current and potential customers, make a splash with a new product line, and receive name recognition at this 3-day event. World-renowned speakers, the most recent techniques, products and the newest technologies in Protein Engineering fields are hallmarks of this conference.

A Unique Opportunity for Advertisers and Sponsors at this International event: http://protein-engineering.conferenceseries.com/ Sponsorship.pdf

Major Associations in Chicago

Chicago Biomedical Consortium

Academy of Nutrition and Dietetics

Chicago Dietetic Association

Major Associations in USA

Federation of American Societies for Experimental Biology

American Society for Microbiology

American Society for Cell Biology (ASCB)

Major Associations around the Globe

The Antibody Society

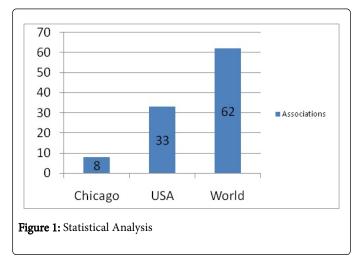
African Society for Bioinformatics and Computational Biology

Biochemical Society

Royal Society of Chemistry

International Federation for Cell Biology

Statistical Analysis of Associations



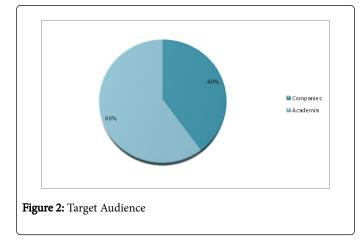
Target Audience:

World class Scientists, biologists, bioinformaticians, geneticist, researchers, academicians, principal investigators, CEO of companies, directors of laboratories and institutions

Target Audience:

Companies 40%

Academia 60%



Top Universities in Chicago:

- University of Chicago
- University of Illinois at Urbana-Champaign
- Northwestern University
- University of Illinois at Chicago
- Northern Illinois University

Top Universities in USA:

Princeton University Harvard University Yale University Columbia University

Stanford University

Top Universities in Globe:

California Institute of Technology (Caltech)

- University of Oxford
- Stanford University

Massachusetts Institute of Technology (MIT)

Princeton University

University of Cambridge

University of California, Berkeley

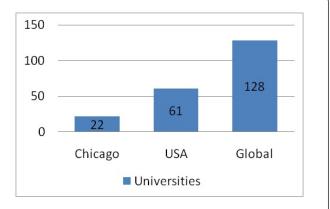


Figure 3: Universities Associated with Protein Engineering

Market value on Protein Engineering

The global market was estimated at \$100.1 billion in 2012, growing at a CAGR of 10.94% from 2012 to 2017 and estimated to be worth \$168 billion by 2017(1). North America is the major market, accounting for 42% of the market; it is expected to grow at a CAGR of 10%. Asia, however, is the fastest growing region with estimated CAGR of 13.5%.

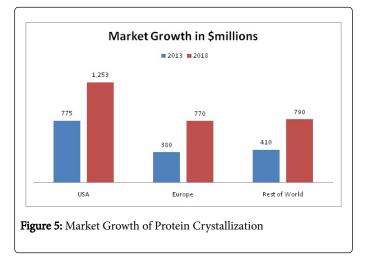


Figure 4: Market Value of Protein Engineering

Source: Reference1

Market Growth of Protein Engineering from 2013-2018

Protein crystallization is the most crucial and the largest segment, and it accounted for 47% of the market in 2013. On the basis of products, the protein crystallization market has segments such as reagents/consumables and instruments. Reagents/consumables accounted for 85% of the protein crystallization & crystallography product market. It is expected to grow at a high CAGR of 11% over the forecast period. The global market was valued at \$775 million in 2013 and is expected to reach \$1,253 million by 2018.



Products manufactured by the Companies in USA:

Life Technologies- Antibodies & Immunoassays, DNA & RNA -Purification, Quantitation & Detection, PCR, Sequencing, synthetic biology

Bio-Rad Laboratories- Amplification / PCR, Antibodies, Nucleic Acid Sample Preparation and purification, Protein Interaction Analysis

Biomax Informatics- BioXM Knowledge management Environment, BioRS Integration and Retrieval System, Pedant-Pro Sequence Analysis Suite

Origene- cDNA clones, ELISA kits, ELISA antibodies

DNASTAR- DNA sequence assembly and analysis, including Sanger and sequence assembly and gene expression analysis

Products manufactured by the Companies in Globe:

Genencor- Enzymes biotechnology, Formulations, Industrial Biotechnology, Biochemistry, Molecular Biology, Protein Engineering

AB SCIEX- Mass spectrometry and liquid chromatography, Pharmaceutical, drug discovery, proteomics, lipidomics and metabolomics, Food safety & environmental analysis

ProGenosis- Protein engineering & expression, Epitope mapping, Antigen development, Protein interaction

Genostar- sequence assembly, mapping, annotation transfer and identification of protein domains, comparative genomics, structural searches, metabolic pathway analysis

SimBioSys- eHITS software for molecular docking (flexible ligand docking & fast pre-docking), pharmacophoremodelling, de novo design and retrosynthetic analysis software tools

Statistics of Researchers, Academicians and Students working on Protein Engineering

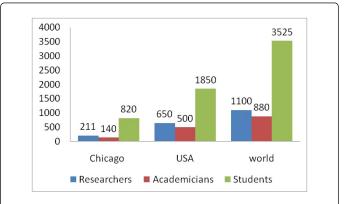


Figure 6: Statistics of Researchers, Academicians and Students

References:

- 1. http://www.marketsandmarkets.com/PressReleases/protein-antibodyengineering.asp
- http://www.marketsandmarkets.com/Market-Reports/protein-antibodyengineering-market-898.html?gclid=CPLe7aSHqsECFVIqjgodjawAjQ
- http://www.uv.es/uvweb/college/en/research-tech-transfer/uv-research/ news-1285855271161.html
- http://www.marketsandmarkets.com/Market-Reports/proteincrystallization-market-147057058.html? gclid=CliS_pyGqsECFVgnjgodp7sA4w