Empower with Insights
PerkinElmer Analytics for LifeScience

Dr. Christof Gänzler
TIBCO NOW - Sep 6 2018
Safe Harbor Statement

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OUR MISSION

Improving the health and safety of people and the environment
OPERATIONS IN OVER 150 COUNTRIES

8,000 EMPLOYEES

$2.3 BILLION IN REVENUE
ENSURING BETTER OUTCOMES

Our technologies and expertise were instrumental in the development of...

22 of the NEWEST THERAPEUTIC DRUGS
ENSURING BETTER OUTCOMES

OVER 300 of our customers use Spotfire across their enterprises to better capture and visualize insights.
Big Data is becoming a commodity

Science is Big Data

Medical
Clinical
Pharma
Biotech
Environmental
GreenBio
Food & Beverage
Energy
About the presenter

Christof Gänzlere gained his doctorate in molecular biology from German Cancer Center (dkfz) in Heidelberg/Germany working on Human Papilloma Virus vaccines. From 2002 he worked for LION Bioscience as a Scientific Consultant before joining Spotfire in 2006, which was later acquired by TIBCO Software. At Spotfire and TIBCO he worked in different Pre-sales and technical roles and led a team of pre-sales consultants in DACH and Central / Eastern Europe until 2015. Christof joined Zephyr Health for one year as a Technical Account Manager for Europe and then joined PerkinElmer Informatics as Manager Scientific Analytics responsible for marketing and technical sales of the broad range of PerkinElmer software products focused on the data analysis needs of Life Science customers. Today Christof is responsible for marketing of the TIBCO Spotfire platform.
Molecular Biology
Molecular Chemistry
Translational Medicine
Data Analysis in a LifeScience Research Lab
From Microscopic Pictures to Analysis
High Content Screening
Analysis using Unsupervised Learning
Bioinformatics and Omics
Cheminformatics
Biology and Chemistry
PerkinElmer Signals™ App Store
Drug Development

PerkinElmer Signals Medical Review empowers clinical development teams to detect safety signals faster and reduce time to submission, by combining innovative workflow and advanced analytics.
Clinical Trials
Adverse Events Workflow
Medical Review
The purpose of visualization is insight, not pictures!

Dr. Christof Gaenzler
Global Marketing Manager Analytics

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Drug Research and Development

Discovery
Research for a new drug begins in the laboratory.

Pre-Clinical
Drugs undergo laboratory and animal testing to answer basic questions about safety.

Clinical
Drugs are tested on people to make sure they are safe and effective.
<table>
<thead>
<tr>
<th>ID</th>
<th>Sequence</th>
<th>Genbank</th>
<th>DivisionCode</th>
<th>Molecant</th>
<th>PHG</th>
<th>Protein</th>
</tr>
</thead>
<tbody>
<tr>
<td>130L_A</td>
<td>LNFILTIEQGGLTI</td>
<td>LNFILTIEQGGLTI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- **Helix:** Green
- **Sheet:** Yellow
- **Loopy:** Blue

**Other:**
- **bacteriophage T4:** Cyan
- **Lysozyme:** Pink

**General:**
- Image shows a 3D protein structure with sequence alignment.
- The table lists sequence information corresponding to the protein structure shown.
- The PHG and Protein columns are used to identify and annotate the protein.
<table>
<thead>
<tr>
<th>Category</th>
<th>Name</th>
<th>Description</th>
<th>Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>biosequence</td>
<td>Blast (table)</td>
<td>Performs a blast search of the sequences in the provided table using the provided query sequence.</td>
<td>1/21/2017</td>
</tr>
<tr>
<td>biosequence</td>
<td>Blast (seq)</td>
<td>Performs a blast search against one of various public databases.</td>
<td>1/24/2017</td>
</tr>
<tr>
<td>biosequence</td>
<td>Clustal (table)</td>
<td>Performs multiple sequence alignment on set of sequences from Spotfire table.</td>
<td>1/20/2017</td>
</tr>
<tr>
<td>chem3D</td>
<td>Compute Properties</td>
<td>Computes a set of properties using Pipeline Pilot as a web service</td>
<td>5/23/2017</td>
</tr>
<tr>
<td>chem3D</td>
<td>MM4 Database Search</td>
<td>Searches an database of MM4 transformations.</td>
<td>3/16/2017</td>
</tr>
<tr>
<td>chem3D</td>
<td>R Group Decomposition</td>
<td>Performs R group decomposition on the structures in a data table column</td>
<td>5/4/2017</td>
</tr>
<tr>
<td>chem3D</td>
<td>Substructure Search</td>
<td>Searches databases for a user specified substructure</td>
<td>5/30/2017</td>
</tr>
<tr>
<td>chem3D</td>
<td>FastFROCS Database Search</td>
<td>Search shape databases using FastFROCS</td>
<td>6/1/2017</td>
</tr>
<tr>
<td>chem3D</td>
<td>Omega2</td>
<td>Generates single conformer for the 3D molecules in the table and adds them as a new column.</td>
<td>3/14/2017</td>
</tr>
<tr>
<td>chem3D</td>
<td>Post</td>
<td>Runs POST on the molecules from the chosen column in a Spotfire table.</td>
<td>3/17/2017</td>
</tr>
<tr>
<td>chem3D</td>
<td>RODS Database Search</td>
<td>Searches stored database using RODS</td>
<td>3/20/2017</td>
</tr>
</tbody>
</table>
## Review Line Listings

<table>
<thead>
<tr>
<th>Study Identifier</th>
<th>Unique Subject Identifier</th>
<th>Review State</th>
<th>Observations</th>
<th>Reported Term for the Adverse Event</th>
<th>Start Date/Time of Adverse Event</th>
<th>Sequence Number</th>
<th>Domain Abbreviation</th>
<th>Sponsor-Defined Identifier</th>
<th>Dictionary-Derived Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDISPLPLO07T01</td>
<td>7041135</td>
<td>In Progress</td>
<td>1</td>
<td>VERBATIM_HGA2</td>
<td>2013-08-26</td>
<td>2</td>
<td>AE</td>
<td>AE1</td>
<td>RASH</td>
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<tr>
<td>CDISPLPLO07T01</td>
<td>7041007</td>
<td>Reviewed</td>
<td>3</td>
<td>VERBATIM_0058</td>
<td>2012-06-21</td>
<td>3</td>
<td>AE</td>
<td>E03</td>
<td>BLISTER</td>
</tr>
<tr>
<td>CDISPLPLO07T01</td>
<td>7041010</td>
<td>Reviewed</td>
<td>5</td>
<td>VERBATIM_0065</td>
<td>2014-08-17</td>
<td>4</td>
<td>AE</td>
<td>E03</td>
<td>BLISTER</td>
</tr>
<tr>
<td>CDISPLPLO07T01</td>
<td>7041110</td>
<td>Approved</td>
<td>3</td>
<td>VERBATIM_0016</td>
<td>2010-04-25</td>
<td>4</td>
<td>AE</td>
<td>E03</td>
<td>RASH</td>
</tr>
</tbody>
</table>

1-6 of 6
8,000 EMPLOYEES AROUND THE WORLD DRIVING OUR MISSION FOR A BETTER TOMORROW