Taking Biotechnology to the Next Level

PIUG 2020
BIOTECHNOLOGY CONFERENCE

February 25 – 26, 2020  ▶ Kimpton Marlowe Hotel  ▶ Cambridge, MA

Meeting Book prepared by BizInt Solutions Inc., a proud sponsor of the 2020 PIUG Biotechnology Conference
**PIUG 2020 BIOTECHNOLOGY CONFERENCE**
February 25-26, 2020  ► Kimpton Marlowe Hotel  ► Cambridge, MA

### CONFERENCE: TUESDAY, FEBRUARY 25, 2020

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<td>Greg Roland (Novartis), Alison Taylor (Abbott)</td>
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<td>Past, Present, and Future of CAR T-Cell Technology</td>
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<td>10:00 am – 10:30 am</td>
<td>Examination of Claims Directed to Antibodies at the United States Patent and Trademark Office</td>
<td>Daniel E. Kolker (USPTO)</td>
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<td>1:30 pm – 2:30 pm</td>
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<td>Confident Sequence Searching: Comprehensive Search Best Practices to Avoiding Litigation</td>
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<td></td>
</tr>
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<td>3:40 pm – 4:10 pm</td>
<td>Trends in Biotechnology Innovation: An Analysis of Global Patent Filings Featuring Biosequences</td>
<td>Caroline Peel (Clarivate)</td>
</tr>
<tr>
<td>4:10 pm – 4:40 pm</td>
<td>Identifying Established and Emerging Biotech Companies in the Global Patent Landscape</td>
<td>Qin Meng and Larry Cady (IFI CLAIMS Patent Services)</td>
</tr>
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Evaluate the conference at:
Welcome to the PIUG 2020 Biotechnology Conference!

On behalf of the PIUG Board of Directors, I want to welcome you to the PIUG 2020 Biotechnology Conference. The organizing committees have worked hard to put together an outstanding program for you of presentations from patent information professionals in the biotech industry.

PLANNING COMMITTEE:

**PIUG Board Liaison:** Shelley Pavlek  
**Evaluation:** Christine Geluk  
**Exhibitor:** Liaison: Jordan Bell  
**Hospitality / Travel:** Qin Meng  
**Meeting Book:** Diane Webb  
**Networking:** Richard Williams  
**On-site Logistics:** Qin Meng  
**Planning:** Qin Meng, Alison Taylor  

**Program:** Greg Roland, Ellen Sherin  
**Publicity:** Ken Koubek  
**Registration:** Donna Fisher, Ken Koubek  
**Social Media:** Christine Geluk  
**Web Pages:** Richard Williams  
**Wiki:** Tom Wolff  
**Workshops:** Jordan Bell, Barbara Miller

I hope you learn at least one new thing today and make one new contact. I find networking to be one of the most profitable aspects of PIUG.

Thank you to all the volunteers who make PIUG and the Biotechnology Conference work. Thank you to all the sponsors of the conference. Please stop by their booths and hear about their products and let them know how much we appreciate their support. This year the Conference is offering attendees the opportunity to spend some one-on-one training time with product vendors so please take advantage of that.

Welcome to Cambridge and enjoy the conference!

*Martha Yates, PIUG Chair 2018-2020*
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Aptean GenomeQuest enables companies to search worldwide patent literature for biological sequences. Its database, GQ-Pat, is the largest repository of sequences cited in patents. IP professionals and law firms use GenomeQuest to perform freedom to operate, patentability, validity, and prior art searches. GenomeQuest serves 18 of the top 20 pharmaceutical companies and all five top agrochemical companies, with a customer base of nearly 200 leading life science and biotechnology organizations.

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BizInt Smart Charts software helps information analysts create, customize and distribute competitive intelligence reports and visualizations from drug pipeline, clinical trial, patent and IP sequence databases. The BizInt Smart Charts product family is used by pharmaceutical, biotech, chemical and device/diagnostics companies worldwide to support product life cycle planning and portfolio management.

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gratefully acknowledges the generous support provided by our sponsors. The meeting would not exist without their support!
United States Patent Eligibility: Understanding the Issues and Navigating the New Waters

Leslie Fischer (Novartis)
8:45 – 9:30 am

ABSTRACT

United States (U.S.) patent law has historically held that diagnostic-based inventions, along with purified and/or isolated natural products are eligible for patenting. Subject matter as diverse as medical diagnostics, diagnostic kits, vitamins, proteins, DNA and antibiotics have all been the focus of valid U.S. patents. But, in 2012 and 2013, the U.S. Supreme Court introduced uncertainty into the patent eligibility arena, by holding that genomic DNA was not eligible for patenting “merely because” it is isolated, and that a diagnostic-based invention was merely a natural law with nothing more. The U.S. Patent and Trademark Office and various U.S. federal courts have exacerbated this uncertainty with a series of official patent examination guidelines and decisions extending the Supreme Court’s limited holdings to diverse subject matter and inventions. In this lecture, we will explore the concept of what it means to be “patent eligible”, the history of patent eligibility in the natural products field, and the new legal doctrines and how they are negatively impacting U.S. patent eligibility.

BIOGRAPHY

Dr. Leslie Fischer, Ph.D., J.D. is a Principal Patent Attorney at Novartis Pharmaceuticals Corp. in East Hanover, NJ. She focuses on global patent prosecution, freedom to operate, regulatory exclusivity, licensing, contractual negotiations, and due diligence. Her technology area of expertise is biopharmaceutical products, particularly for the treatment of autoimmune diseases. Dr. Fischer is also Novartis Pharmaceutical’s designated liaison to the United States Patent Office (USPTO), a role created to enhance the relationship, facilitate dialogue, and share information between these entities. She also teaches mechanical patent claim drafting as an adjunct professor of law at Seton Hall Law School, in Newark, NJ. Prior to joining Novartis in 2007, Dr. Fischer was an associate attorney at Fitzpatrick, Cella, Harper and Scinto in New York, during which time she provided detailed opinion work for a broad range of clients, consulted on biotechnology litigation, and performed pharmaceutical and biotechnology patent prosecution. Dr. Fischer holds a J.D. from Rutgers University, and a Ph.D. in Biochemistry from Thomas Jefferson University in Philadelphia.
Keynote – United States Patent Eligibility: Understanding the Issues and Navigating the New Waters

Leslie Fischer (Novartis)
# Aptean GenomeQuest

## Sequence Variation Discovery Module

<table>
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<tr>
<th>Subject Sequence ID</th>
<th>GenomeQuest Alignment</th>
<th>Claims</th>
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<tbody>
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<td>1</td>
<td></td>
<td>1. A phosphate-free automatic dishwashing cleaning composition comprising:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. A composition according to claim 1 wherein the component D is selected from:</td>
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<td>21. A composition according to claim 9 wherein the component E is selected from:</td>
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- **GQ-Pat database** - The world’s largest IP sequence database, containing nearly 450 million IP sequences and 1.1 million sequence-containing patent documents.

- **CAS Biosequences database** - A broad base of scientist-curated content, including nearly 51 million patent/non-patent sequence records, detailed sequence indexing, and text annotations.
This presentation is concerned with the emergence of Chimeric Antigen Receptor (CAR) T-cell immunotherapy technology as shown by our studies (Nature Biotechnology, volume 37, pages 370–375, 2019) on the evolution of published patent applications. CAR T-cell therapy has captured the attention of the public because of the remarkable responses it has produced in some patients for whom all other treatments had stopped working. Our study shows the activity of inventors and applicants, the locations of inventive activity, the preferred territories of patent protection and some cooperation networks. Citation analysis reveals high-impact patents. Investment in manpower (inventor count) shows the commitment of patent applicants to their R&D investment in CAR T-cell therapy.

Nigel S. Clarke is Manager of the European Patent Office’s IP Knowledge research unit. His work includes patent landscaping and he has recently completed studies on CAR T-cell immunotherapy, blockchain, graphene composites, and quantum sensing and metrology. Current projects include space technology and hydrogen fuelled vehicles.

He has authored book chapters and papers on patents, patent information, and innovation, and has lectured widely.

Leaving academia, Nigel started work in the UK Scientific Civil Service, mainly on focused energy beams for microanalysis. He published numerous scientific papers.

Nigel studied physical chemistry at Exeter University and holds a PhD in neutron science. He carried out post-doctoral research on carbon fibres at Surrey University.

He holds Memberships of the Royal Society of Chemistry and the Institute of Physics. He is also a Chartered Scientist, UK Science Council. He has external academic positions at a number of UK universities. Nigel is a contributor to the ISO TC279 Innovation Management working group. He is an editorial board member for World Patent Information.
Past, Present, and Future of CAR T-Cell Technology  ▶ Nigel Clarke (EPO)
Examination of Claims Directed to Antibodies at the United States Patent and Trademark Office

Daniel E. Kolker (USPTO)
10:00 – 10:30 am

ABSTRACT

This talk will discuss search strategies that USPTO examiners use in evaluating the patentability of claims drawn to antibodies. The discussion will concentrate on claims to monoclonal antibodies claimed by sequence, but will also discuss how we evaluate claims drawn to antibodies which bind to an epitope. The talk will emphasize search strategies, but will also address inherency under 35 U.S.C. 102 and evaluation of compliance with the written description requirement of 35 U.S.C. 112.

BIOGRAPHY

Daniel Kolker received a bachelor’s degree in psychology from Vassar College in 1992. He worked as a technician in a small drug company in Cambridge MA for over two years, and then enrolled at Northwestern University’s Institute for Neuroscience. He received a Ph.D. in neuroscience in 2001, and served as a post-doctoral fellow at the National Institute of Child Health and Human Development. Upon joining the USPTO as an examiner in TC1600, he examined patent applications in the fields of neurobiology, receptors, and cytokines. In 2012, he became a supervisory patent examiner (SPE) and currently oversees art unit 1644, which examines applications in immunology. As a supervisor he works closely with junior examiners in the art unit, and is an expert on patent subject matter eligibility, particularly in the biotechnology area.
Examination of Claims Directed to Antibodies at the United States Patent and Trademark Office

Daniel E. Kolker (USPTO)
CAS BioSequences Using STN and GenomeQuest

Anne Marie Clark (ScienceIP/CAS)
11:15 – 11:45 am

ABSTRACT

CAS Biosequences are now available on two platforms - STN and GenomeQuest. Each platform has its relative strengths depending on the search and customer requirements. The presentation will describe typical searches, platform / content used, including example search strategies with BLAST, Motif and modified nucleotides.

BIOGRAPHY

Anne Marie Clark, Ph.D. is a Senior Searcher with the Science IP team. Her particular subject expertise is small molecules, sequences and formulations. She is skilled in patent searching, analysis and landscaping, as well as competitive benchmarking.
Introducing Derwent SequenceBase powered by GENESEQ

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Wednesday 26th February
2.35pm

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Unleash the power of SequenceBase with GENESEQ

Wednesday 26th February
2.35pm

Register now: discover.clarivate.com/piugbiotech2020
Panel Discussion:
Searcher/Practitioner Collaboration

Leslie Fischer (Novartis) and Anne Marie Clark (ScienceIP/CAS)

1:30 – 2:30 pm
Panel Discussion: Searcher/Practitioner Collaboration

Leslie Fischer (Novartis) and Anne Marie Clark (ScienceIP/CAS)
Confident Sequence Searching: Comprehensive Search Best Practices to Avoiding Litigation

Laura Bantle (Clarivate)
2:30 – 3:00 pm

ABSTRACT

The use of multiple databases and search algorithms is essential to patent searchers exploring patentability and clearance searches for life science inventions. Concise keyword and fielded search techniques are essential for conducting a comprehensive sequence alignment exploration in the prior art.

This talk will review search techniques and best practices within both sequence and patent databases to help retrieve highly relevant results. Examples will include previously litigated patents subject to invalidity or inequitable conduct challenges.

BIOGRAPHY

Laura Bantle is a registered US patent attorney and is a member of the Minnesota Bar. Laura earned her B.S. from the College of Biological Sciences at the University of Minnesota, and graduated magna cum laude from William Mitchell College of Law. Prior to joining Clarivate Analytics, Laura gained corporate industry experience in pharmaceutical regulatory compliance and patent licensing.
Confident Sequence Searching: Comprehensive Search Best Practices to Avoiding Litigation

Laura Bantle (Clarivate)

Caroline Peel (Clarivate)
3:40 – 4:10 pm

ABSTRACT

Advancements in biotechnology have made the large-scale development of biological drugs easier and more cost-effective. While chemical based drugs remain prevalent, the total share of biologic drugs has increased significantly in recent years, representing more than 25% of the pharmaceutical market and is anticipated to reach US$ 727 billion in annual revenue by 2025. Additionally, the rising global burden of major diseases including cardiovascular disease and cancer, and the need to invest in sustainable food production, are contributing factors driving governments and private organisations to invest more in biotechnology innovation.

Based on a 2019 analysis of patent data, this presentation will focus on innovation trends advancing biotechnology. The discussion will explore global and regional patent activity for biosequences, the leading technology areas and the top innovators pursuing biotechnology and biopharma solutions. Further, the analysis of biosequence innovation trends can provide biotechnology and biopharma patent information professionals clear insights into who, what and where are driving the developing technology landscape.

BIOGRAPHY

Dr Caroline Peel is the Head of Content Operations for IP and Standards at Clarivate Analytics, leading the editorial curation of patent content for products including Derwent Global Patent Data Collection, Derwent World Patents Index and Derwent GENSEQ. Caroline has been part of the Clarivate team for 18 years. Caroline graduated from the University of Leicester with a BSc Hons Degree in Biological Sciences (Genetics) and a PhD in Cell Cycle Genetics from the University of Sheffield.

Caroline Peel (Clarivate)
Identifying Established and Emerging Biotech Companies in the Global Patent Landscape

Qin Meng and Larry Cady (IFI CLAIMS Patent Services)
4:10 – 4:40 pm

ABSTRACT

We have recently analyzed global patent filings related to CRISPR technology. We will present the results of this analysis including country-level activity and top patent fling organizations in the leading countries. Legal status and CPC data will shown. China is very active in the area of CRISPR, as we will show.

BIOGRAPHIES

Qin Meng – Qin consults with customers in the Asia Pacific region to provide global patent data solutions appropriate to their needs. Prior to joining IFI, she worked as a patent information searcher and information specialist, concentrating on the pharmaceutical and chemical industries.

Larry Cady – Larry Cady is an experienced patent data analyst and conducts research in support of IFI’s clients and partners. Before joining IFI CLAIMS, Larry was VP of Product Management at Thomson Scientific, responsible for IP products. He led the launch of Thomson Innovation and the expansion of Thomson’s Asian language data coverage. He also led product management and customer service at MicroPatent prior to its acquisition by Thomson.
Identifying Established and Emerging Biotech Companies in the Global Patent Landscape

Qin Meng and Larry Cady (IFI CLAIMS Patent Services)
We help you grow

Learn how we control Patent Search Quality. Take a look at our Intelligence Services like accurate, actionable technology landscapes and more.

MIKE & SURBHI LOOK FORWARD TO MEETING YOU AND DISCUSSING HOW WE CAN WORK TOGETHER

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Lucy Teixeira Antunes, Analyst at DuPont

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Orbit BioSequence

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ATTENDEES BY NAME

Akumao, Akua..........................Aptean GenomeQuest
Allen, Stephen..........................Aptean GenomeQuest
Bantle, Laura............................Clarivate Analytics
Barrett, Dianah..........................Pfizer
Bayada, Denis............................Questel
Benson, Robert..........................South Shaker Associates
Blasi, Peter...............................Science IP - CAS
Breier, Michaela.........................CAS
Brooks, Michelle.........................Harbor Consulting IP Services
Brown, Jim................................FIZ Karlsruhe, Inc.
Clark, Anne Marie.........................CAS
Cook, Aaron................................CAS
Curry, Jillian..............................Clinical Genomics
Devenport, Samantha.....................
Dixit, Surbhi..............................Evalueserve
Dougherty, Joseph.........................Clarivate Analytics
Duporte, Geron...........................Clarivate Analytics
Feroze, Ali................................CAS
Fischer, Leslie...........................Novartis
Fisher, Donna.............................Retired
Fuller, Michael.........................Evalueserve
Gore Willis, Ann........................Boehringer Ingelheim
Hampton, Barbara.........................RedLine Information Services
Hasan, Farha................................HBS
Henderson, Katie.........................Harbor Consulting IP Services
Jiang, Ning...............................Pfizer
Johnson, Brett...........................Serco
Kolker, Daniel.........................USPTO
Kratunis, John............................CAS
Lepore, Lisa..............................Questel
Leung, Benjamin.........................Abbott
Lin, Poping..............................Harvard Business School
Liu, Cynthia..............................CAS
Lowery, Drew.............................Global Prior Art
Manning, Leah...........................Harbor Consulting IP Services
McCabe, Christina......................Dennemery & Co, LLC
McClain, Skye...........................Mc2 Research Group
Mendelson, Seth........................Eisai, Inc.
Meng, Qin.................................IFI CLAIMS Patent Services
Miller, Barbara........................Amgen
Nekrasova, Natalia......................Science IP - CAS
Nyamekye, Comfort......................Norwegian Univ. Life Sciences
Palacio, Nicholas.......................Serco Inc.
Peel, Caroline...........................Clarivate Analytics
Robins, Suzanne........................Patent Information Services
Roland, Greg.............................Novartis
Ropke, Ken..............................Minesoft
Shanker, Sumana.......................Takeda Pharmaceuticals
Sherin, Ellen...........................Aptean
Smith, Victoria.........................Novartis
Spahr, Kevin..............................Minesoft
Talwar, Bela..............................H K Acharya & Company
Taylor, Alison...........................Abbott
Thakur, Sandeep.........................Clarivate Analytics
Videtto, Daniel.........................Derwent
Wolfe, Benjamin.........................CAS
Yang, Jennifer.........................CAS
Wetzler, Rainer.........................Teles Patent Right Intl.
Williams, Richard......................Zoetis
Willmore, John.........................Bizint Smart Charts
Wolfe, Benjamin.........................CAS
Williams, Richard......................Zoetis
Wolfe, Benjamin.........................CAS
Yang, Jennifer.........................CAS

Minesoft
Novartis
Patent Information Services
Clarivate Analytics
Serco Inc.
Norwegian Univ. Life Sciences
Science IP - CAS
Amgen
Science IP - CAS
Novartis
Minesoft
Science IP - CAS
Novartis
Minesoft
 ATTENDEES BY COMPANY

Abbott......................................................Benjamin Leung
Abbott......................................................Alison Taylor
Amgen......................................................Barbara Miller
Aptean......................................................Ellen Sherin
Aptean GenomeQuest.............................Akua Akamoa
Aptean GenomeQuest.............................Stephen Allen
BizInt Smart Charts...............................Diane Webb
BizInt Smart Charts...............................John Willmore
Boehringer Ingelheim..............................Ann Gore Willse
CAS.......................................................Michaela Breier
CAS.......................................................Anne Marie Clark
CAS.......................................................Aaron Cook
CAS.......................................................Ali Feroze
CAS.......................................................John Kratunis
CAS.......................................................Cynthia Liu
CAS.......................................................Benjamin Wolfe
CAS.......................................................Jennifer Yang
Clarivate Analytics.................................Laura Bantle
Clarivate Analytics.................................Joseph Dougherty
Clarivate Analytics.................................Geron Duporte
Clarivate Analytics.................................Caroline Peel
Clarivate Analytics.................................Sandeep Thakur
Clinical Genomics.................................Jillian Curry
Dennemery & Co, LLC.............................Christina McCabe
Derwent..................................................Daniel Videtto
Eisai, Inc................................................Seth Mendelson
Evalueserve............................................Surbhi Dixit
Evalueserve............................................Michael Fuller
FIZ Karlsruhe, Inc.................................Jim Brown
Global Prior Art.......................................Drew Lowery
H K Acharya & Company........................Bela Talwar
Harbor Consulting IP Services..................Michelle Brooks
Harbor Consulting IP Services..................Katie Henderson
Harbor Consulting IP Services..................Leah Manning
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Novartis...............................................Victoria Smith
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Pfizer.....................................................Ning Jiang
Questel...............................................Denis Bayada
Questel...............................................Lisa Lepore
RedLine Information Services.................Barbara Hampton
Retired................................................Donna Fisher
Science IP - CAS....................................Peter Blasi
Science IP - CAS....................................Natalia Nekrasova
Serco..................................................Brett Johnson
Serco Inc..............................................Nicholas Palacio
South Shaker Associates.........................Robert Benson
Takeda Pharmaceuticals.........................Sumana Shanker
Teles Patent Right Intl............................Sigrid Schindler
Teles Patent Right Intl............................Rainer Wetzler
USPTO................................................Daniel Kolker
Zoetis................................................Monica Weiss-Nolen
Zoetis................................................Richard Williams
<table>
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<tr>
<th><strong>Wednesday, February 26</strong></th>
<th><strong>Workshop</strong></th>
<th><strong>Location</strong></th>
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<tr>
<td>8:00 am – 8:30 am</td>
<td><em>Registration and Breakfast</em></td>
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<td>8:30 am – 10:35 am</td>
<td><strong>STN</strong>&lt;br&gt;STN Patent Forum&lt;br&gt;<em>Jim Brown (FIZ Karlsruhe), Darryl French (CAS), John Kratunis (CAS)</em></td>
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<tr>
<td>10:35 am – 10:50 am</td>
<td><em>Break</em></td>
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<td>10:50 am – 11:50 am</td>
<td><strong>Aptean</strong>&lt;br&gt;GenomeQuest Multiple Query Sequence Analysis Workshop&lt;br&gt;<em>Stephen Allen and Ellen Sherin</em></td>
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<td>11:50 am – 1:00 pm</td>
<td><em>Lunch</em></td>
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<td>1:00 pm – 2:30 pm</td>
<td><strong>Bizint Solutions</strong>&lt;br&gt;Creating IP Sequence Reports from Multiple Collections&lt;br&gt;Using BizInt Smart Charts for Patents&lt;br&gt;<em>John Willmore</em></td>
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<td>2:30 pm – 2:35 pm</td>
<td><em>Break</em></td>
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<td>2:35 pm – 3:50 pm</td>
<td><strong>Clarivate</strong>&lt;br&gt;Unleash the Power of SequenceBase with GENESEQ in a Hands-On Workshop&lt;br&gt;<em>Laura Bantle, Caroline Peel and Sandeep Thakur</em></td>
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<td>3:50 pm – 4:00 pm</td>
<td><em>Break</em></td>
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<td>4:00 pm – 5:00 pm</td>
<td><strong>Minesoft</strong>&lt;br&gt;An Introduction to the New PatBase Search Engine and a Mini Tutorial on Alerts, with Minesoft’s PAIR Monitoring Service&lt;br&gt;<em>Ken Ropke and Kevin Spahr</em></td>
<td><strong>Serrano B</strong></td>
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PIUG 2020 ANNUAL CONFERENCE
APRIL 26 – 30
Caribe Royale Orlando
Orlando, FL

This year we will be featuring TWO WORKSHOPS as part of the plenary

Stephen Adams from Magister Ltd. will be presenting a workshop on
There May be Trouble Ahead; Understanding IP Procedures, the Musical Way.

Johannes Schaaf and Nigel Clarke from the EPO will be presenting a workshop on

Attendee comments from a previous PIUG conference:

“It is a great opportunity to talk with peers, get new ideas and be reminded of the essentials. I thoroughly enjoy the conference.”

“My first PIUG annual meeting and overall it was a great experience. As a first time attendee and speaker, I was initially intimidated, but so many of the “regulars” were open and welcoming, it was actually less stressful than I expected. The first timer’s meeting was a blast, due in part to the great volunteers. I’m looking forward to attending next year now that I know better what to expect”

“Timely training on current
TECHNIQUES and TOOLS”

“Well done! Smoothly run and informative content and exhibits”

“A good mix of relevant topics”

“EXCELLENT... speakers from variety of industry and backgrounds”

KEY MEMBER BENEFITS

- PIUG Membership Directory (Members-Only Site)
- Members-only access to Conference Proceedings (Annual, Biotech, and Northeast Conferences)
- Access to PIUG Salary Surveys
- Ongoing professional training through conferences, workshops, PIUG webinars as well as live & customized training courses.
- Access to PIUG LinkedIn group
Get Up To Date with BizInt Smart Charts!

- Quickly identify new publications in updates with the **New Publications** column.
- Update multi-database reports with enhanced **Reference Rows** features.
- Come talk with us in the **exhibit hall**.
- Participate in our **workshop** on Wednesday 1:00 - 2:30 pm, **Creating IP Sequence Reports from Multiple Collections**.
- Visit our website: [www.bizint.com](http://www.bizint.com)

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### Patent Family Table

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THE JOURNEY CONTINUES...