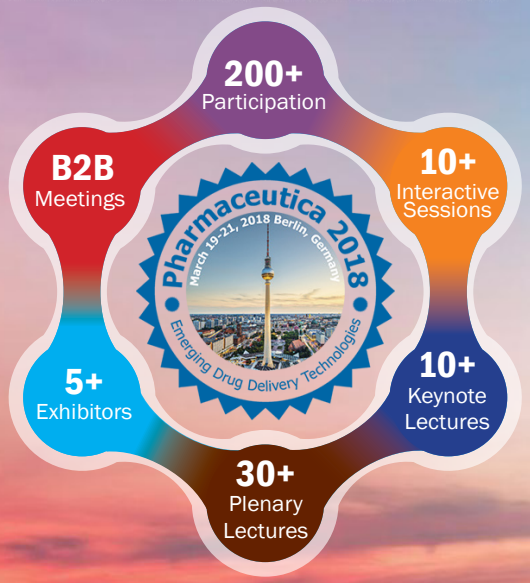
Pharmaceutica 2018

@Pharmaceutica_C

16th International Conference & Exhibition on

Pharmaceutics & Novel Drug Delivery Systems

March 19-21, 2018 Berlin, Germany



- Drug Targeting and Design
- Drug Delivery Technologies
- Nanoparticulate Drug Delivery Systems
- Pharmaceutical Nanotechnology
- Nanomedicine and Nanotechnology
- Smart Drug Delivery Systems
- Biomaterials in Drug Delivery
- Vaccine Drug Delivery Systems
- Medical Devices for Drug Delivery
- Peptides and Protein Drug Delivery

Supporting Journals



Journal of Pharmaceutics & Drug Delivery Research

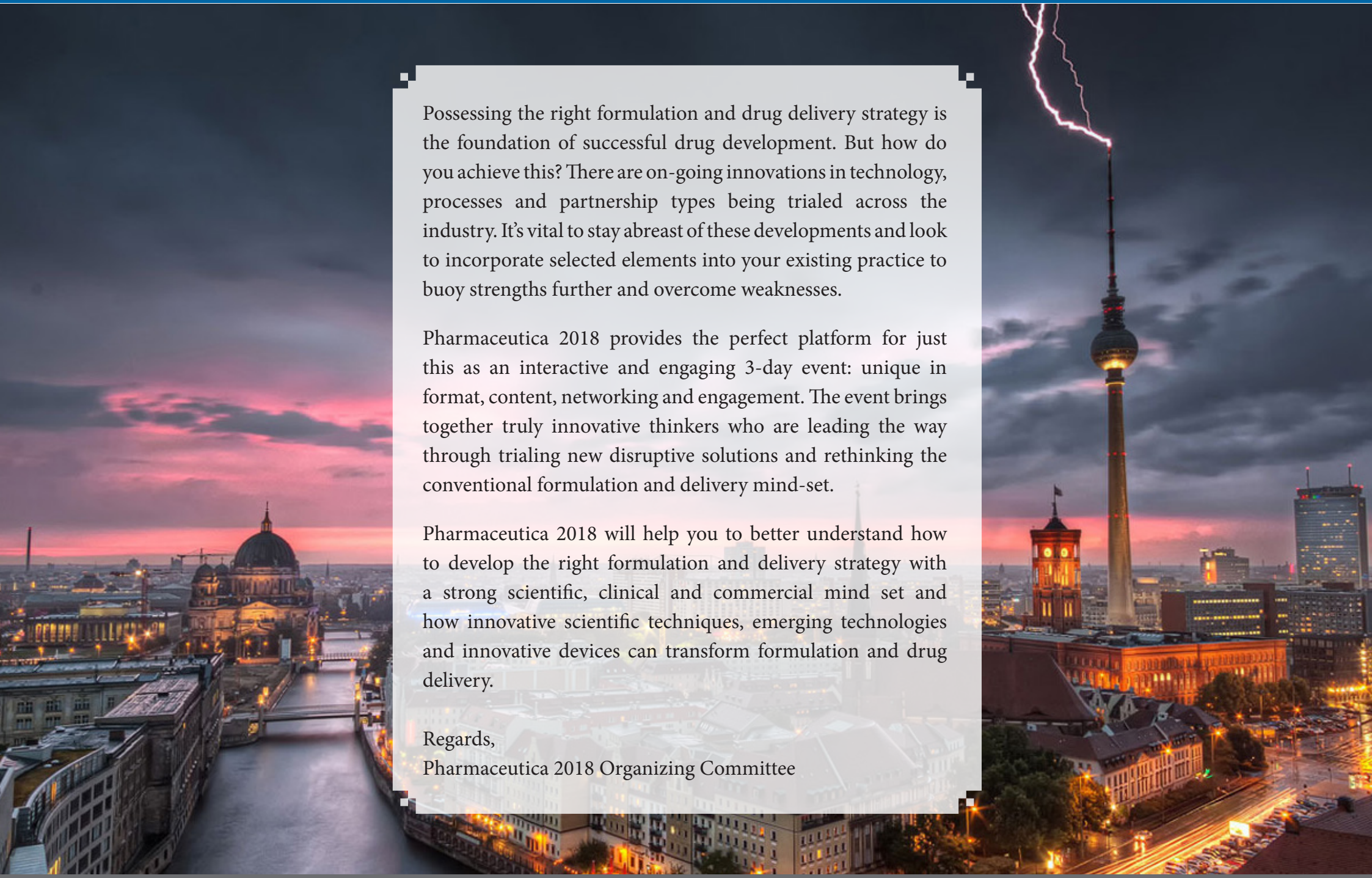


Journal of Nanomedicine & Nanotechnology: Open Access



Journal of Pharmaceutical Sciences & Emerging Drugs

http://novel-drugdelivery-systems.pharmaceuticalconferences.com/



Possessing the right formulation and drug delivery strategy is the foundation of successful drug development. But how do you achieve this? There are on-going innovations in technology, processes and partnership types being trialed across the industry. It's vital to stay abreast of these developments and look to incorporate selected elements into your existing practice to buoy strengths further and overcome weaknesses.

Pharmaceutica 2018 provides the perfect platform for just this as an interactive and engaging 3-day event: unique in format, content, networking and engagement. The event brings together truly innovative thinkers who are leading the way through trialing new disruptive solutions and rethinking the conventional formulation and delivery mind-set.

Pharmaceutica 2018 will help you to better understand how to develop the right formulation and delivery strategy with a strong scientific, clinical and commercial mind set and how innovative scientific techniques, emerging technologies and innovative devices can transform formulation and drug delivery.

Regards,
Pharmaceutica 2018 Organizing Committee

Market Analysis

Pharmaceutics & Drug Delivery Market Research

Advanced Drug Delivery Systems

- The global advanced drug delivery market should grow from roughly $178.8 billion in 2015 to nearly $227.3 billion by 2020, with a compound annual growth rate (CAGR) of 4.9%.
- The North American market should grow from nearly $75.7 billion in 2015 to $93.4 billion by 2020, a CAGR of 4.3%.
- The European market should grow from roughly $57.3 billion in 2015 to nearly $72.1 billion by 2020, a CAGR of 4.7%.

Antibiotics

- The global systemic antibiotics market should reach nearly $44.7 billion in 2020 from nearly $40.6 billion in 2015 at a compound annual growth rate (CAGR) of 2.0% from 2015 to 2020.
- The beta-lactams market should reach over $22.0 billion by 2020 from over $20.6 billion in 2015, a CAGR of 1.3% from 2015 to 2020.
- The other antibiotic classes market should reach over $10.6 billion in 2020 from nearly $8.3 billion in 2015, a CAGR of 5.0% from 2015 to 2002.

Excipients in Pharmaceuticals

- The global excipients market should reach nearly $6.9 billion by 2020 from over $6.2 billion in 2015, a compound annual growth rate (CAGR) of 1.9% from 2015 to 2020.
- The organic excipients market should reach $6.3 billion by 2020 from nearly $5.8 billion in 2015, a CAGR of 1.7% from 2015 to 2020.
- The inorganic excipients market should reach $433.7 million by 2020 from $351.9 million in 2015, a CAGR of 4.3% from 2015 to 2020.

Ophthalmic Therapeutic Drugs

- The global ophthalmic therapeutic drug market was valued at $12.3 billion in 2014. This market is expected to reach $19 billion by 2019, with a compound annual growth rate (CAGR) of 9.1% from 2014 to 2019.
- The global age-related macular degeneration (AMD) market is expected to grow to nearly $7.9 billion by 2019 from nearly $5.4 billion in 2014, a CAGR of 7.8% from 2014 to 2019.
- The global glaucoma therapeutic market generated revenue of $3.8 billion in 2014, and by 2019 this segment is expected to generate $6.4 billion, with a CAGR of 11.1% from 2014 to 2019.

Skin Disease Treatment

- The global market for skin disease treatment technologies reached $16.4 billion in 2014 and $17.1 billion in 2015. The market should reach $20.4 billion in 2020, demonstrating a compound annual growth rate (CAGR) of 3.6% from 2015 to 2020.
- The U.S market for skin disease treatment dominates the global market throughout the period, and totaled $7.3 billion in 2014. The market should reach $7.5 billion in 2015 and $8.6 billion in 2020 at a CAGR of 2.6% from 2015 to 2020.
- BRIC (Brazil, Russia, India, China) is the fastest growing region of the global dermatology market with a CAGR of 6% from 2015 to 2020. The market totaled $3.5 billion in 2015 and should reach more than $4.6 billion by 2020.

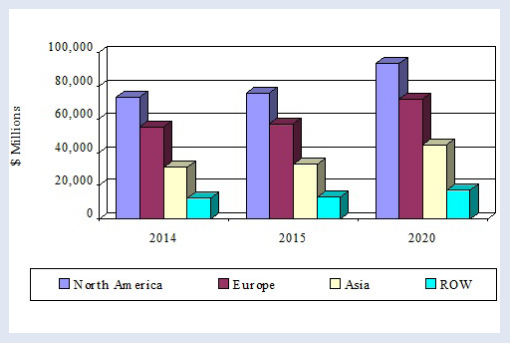
Vaccine Technologies

- The global market for vaccine technologies reached $33.3 billion in 2016 and should reach $45.2 billion by 2021, growing at a compound annual growth rate (CAGR) of 6.3% from 2016 to 2021.
- Human vaccines as a segment of this market reached $27.2 billion in 2016 and should reach nearly $37.5 billion by 2021, growing at a CAGR of 6.6% from 2016 to 2021.
- Animal vaccines as a segment of this market reached nearly $6.1 billion in 2016 and should reach $7.7 billion by 2021, growing at a CAGR of 4.9% from 2016 to 2021.

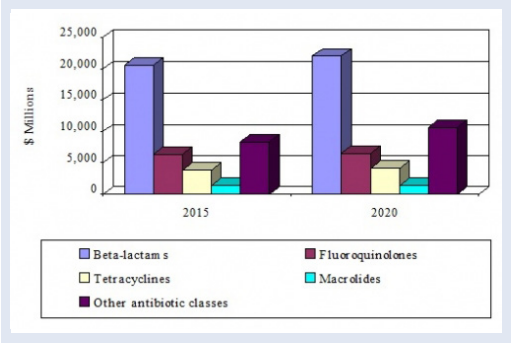
Breakthrough Therapies

- The global market for breakthrough therapy designation (BTD) drugs should reach $99.2 billion by 2022 from $48.8 billion in 2017 at a compound annual growth rate (CAGR) of 15.2%, from 2017 to 2022.
- The cancer therapy segment of the breakthrough therapy designation drugs industry is the largest market. The market is expected to grow from $19.6 billion in 2017 to $58.6 billion in 2022 at a CAGR of 24.5% for the period 2017-2022.
- The CNS and neurology therapy segment of the breakthrough therapy designation drugs industry is expected to grow from $956 million in 2017 to $8.4 billion in 2022 at a CAGR of 54.3% for the period 2017-2022.

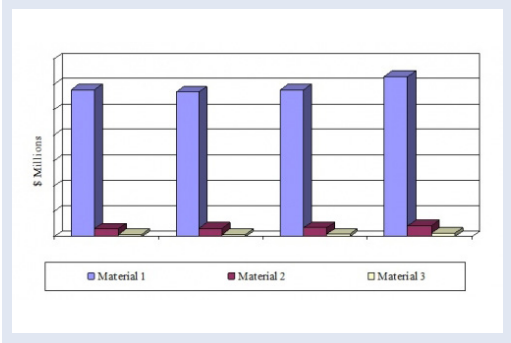
Statistical Representations



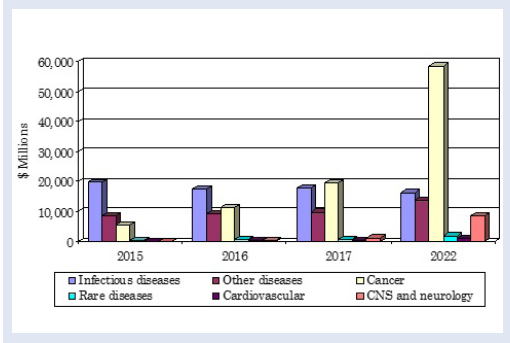
Global Advanced Drug Delivery Market by Region, 2014-2020 ($ Millions)



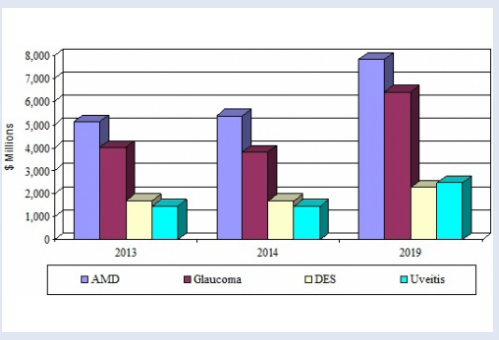
Global Antibiotics Market By Class, 2015 and 2020 ($ Millions)



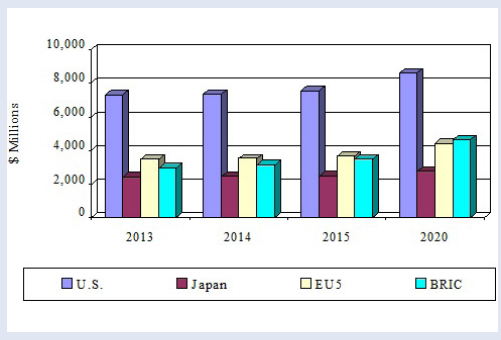
Global Excipient Market by Material Type, 2013-2020 ($ Millions)



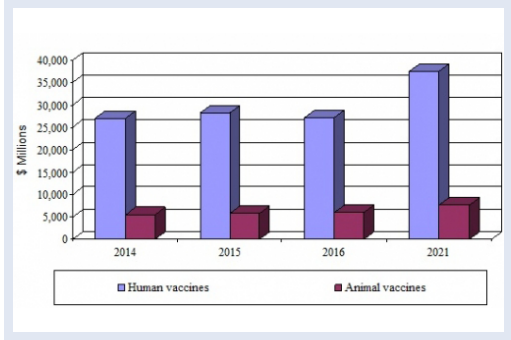
Global Market for Breakthrough Therapy Designation Drugs, by Therapy, 2015-2022 ($ Millions)



Global Ophthalmic Therapeutic Drug Market by Segment, 2013-2019 ($ Millions)



Global Market for Skin Disease Treatment Technologies by Region, 2013-2020 ($ Millions)



Global Market for Human Vaccines by Type, 2014-2021 ($ Millions)

*Source: BCC Research

2018 Pharmaceuticals Research Review:

Pharmaceuticals represented a US$300 bn-a-year market globally as of 2015, the World Health Organization states. The global pharmaceutical market is expected to surpass US$400 bn by 2018, with the ten largest pharmaceutical companies collectively commanding about a third of the market. Companies in the pharmaceutical industry are characterized by their sizeable expenditure on R&D and marketing initiatives in a bid to rake in more revenue. The development of biopharmaceuticals represents a milestone for the industry and personalized therapies carry immense promise in the near future.

Highlights:

- The global market for cancer vaccines totaled $4.5 billion in 2013 and reached nearly $4.0 billion in 2014. This market is expected to reach $4.3 billion by 2019, registering a compound annual growth rate (CAGR) of 1.3% for the period 2014-2019.
- The global market for "silent" cancers was valued at $8.5 billion in 2013 and $9 billion in 2014. This market is expected to reach almost $13.6 billion by 2019, with a CAGR of 8.5% from 2014 to 2019.
- The global market for incretin-based therapeutics was valued at nearly $11.8 billion in 2013 and $12.7 billion in 2014. This market is expected to reach $22.8 billion by 2019, with a CAGR of 12.4% from 2014 to 2019.

Cancer Vaccines: Technologies and Global Markets:

The global human vaccines market was valued at US$28.3 bn in 2015 and is estimated to reach US$72.5 bn by 2024, registering an 11.2% CAGR during the forecast period. Extensive promotion and marketing strategies and favorable government support are likely to boost market growth.

The global market for cancer vaccines was valued at nearly $4.2 billion and $4.0 billion in 2014 and 2015, respectively. This market is expected to decline from nearly $3.5 billion in 2016 to $3.4 billion in 2021 at a compound annual growth rate (CAGR) of -0.4% for 2016-2021.

Drug Delivery Companies:

The global drug delivery technology market is projected to reach USD 1,669.40 Billion by 2021 from USD 1,179.20 Billion in 2016, at a CAGR of 7.2% during the forecast period. This market is segmented based on route of administration, facility of use, and region.

The drug delivery technology is highly competitive market, comprising of various players. Prominent players in the drug delivery technology market include Johnson & Johnson, Inc. (U.S.), F. Hoffman-La Roche (Switzerland), Merck & Co., Inc. (U.S.), Bayer AG (Germany), Pfizer, Inc. (U.S.), Novartis AG (Switzerland), 3M Company (U.S.), Becton, Dickinson and Company (U.S.), GlaxoSmithKline plc, (U.K.), Sanofi (France), and Antares Pharma, Inc. (U.S.).

Nanotechnology Drug Delivery Market

The global nanotechnology drug delivery market was valued at US$ 41,062.5 Mn in 2014 and is projected to reach US$ 118,527.2 Mn by 2023, expanding at a CAGR of 12.5% from 2015 to 2023.

Key players having presence in the global nanotechnology drug delivery market are AbbVie, Inc., Amgen, Inc., Celgene Corporation, Johnson & Johnson, Merck & Co., Inc., and Novartis International AG, among others.

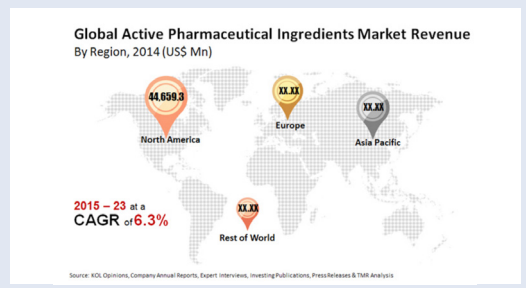
Active Pharmaceutical Ingredient Market:

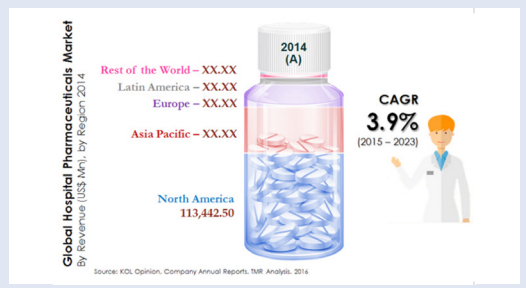
Transparency Market research states the opportunity in this market will be worth US$219.60 bn by 2023 from US$134.7 bn in 2015. Between the forecast period of 2015 and 2023, the overall market is expected to expand at a CAGR of 6.3%.

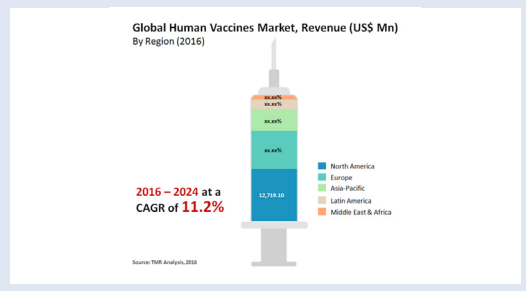
Some of the leading companies operating in the global active pharmaceutical ingredient market are Zhejiang Medicine Co., Ltd., Teva Pharmaceutical Industries Ltd., Zhejiang NHU Co., Ltd , North China Pharmaceutical Group Corp. (NCPC), Dr.Reddy's Laboratories Limited, Northeast Pharmaceutical Group Co., Ltd., Aurobindo Pharma Limited, Sandoz (Novartis AG), Zhejiang Hisun Pharmaceutical Co., Ltd. and Zhejiang Huahai Pharmaceuticals Co., Ltd. amongst others. Currently, these players are focusing on partnering with other companies to acquire a new line of products to add value to their portfolio. Furthermore, companies are also anticipated to focus on expanding their capacities to cater to the vast unmet medical needs of the world.

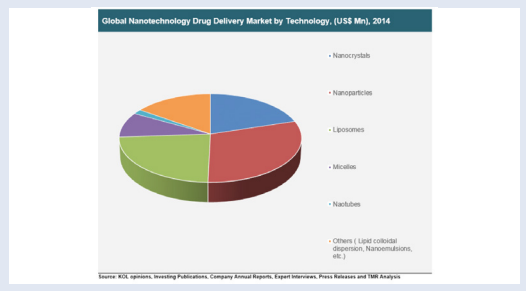
Target Audience:

- Drug Delivery Technology Manufacturers
- Public and Private Physicians
- Healthcare Institutions (Medical Data Centers)
- Research & Clinical Laboratories
- Distributors and Suppliers of Drug Delivery Technologies
- Health Insurance Payers
- Market Research and Consulting Firms









*Source: BCC Research & Transparency Market Research

Tentative Agenda

March 19, 2018 Monday

Time	Session
08:30-09:30	Registrations
09:30-11:30	Keynote Forum
Group Photo	
11:30-11:45	Network & Refreshments Break*
11:45-13:00	Track 1: Drug Targeting and Design
	Track 2: Drug Delivery Technologies
13:00-13:45	Lunch Break**
13:45-16:00	Track 3: Nanoparticulate Drug Delivery Systems
16:00-16:15	Network & Refreshments Break*
16:15-18:00	Track 4: Pharmaceutical Nanotechnology
Day Concludes	

March 20, 2018 Tuesday

Time	Session
08:30-09:30	Registrations
09:30-10:30	Keynote Forum
10:30-11:30	Track 5: Nanomedicine and Nanotechnology
11:30-11:45	Network & Refreshments Break*
11:45-13:00	Track 6: Smart Drug Delivery Systems
13:00-13:45	Lunch Break**
13:45-16:00	Track 7: Biomaterials in Drug Delivery
16:00-16:15	Network & Refreshments Break*
16:15-18:00	Track 8: Vaccine Drug Delivery Systems
16:00-18:00	Poster Presentations
Day Concludes	

March 21, 2018 Wednesday

Time	Session
09:30-11:30	Track 9: Peptides and Protein Drug Delivery
11:30-11:45	Network & Refreshments Break*
11:45-13:00	Track 10: Medical Devices for Drug Delivery
13:00-13:45	Lunch Break**
13:45-16:00	Track 11: Nanomedicine and Nanotechnology
16:00-16:15	Network & Refreshments Break*
16:15-18:00	Track 12: Smart Drug Delivery Systems
18:00-18:15	Track 13: Pharmaceutical Nanotechnology
18:15-18:30	Track 14: Drug Delivery Technologies
Award Ceremony	
Conference Concludes	

* Exclusive Exhibitor Event
** Networking Event

Note: Conference schedule is subject to change.
Note: Workshops and Symposia slots are available. To book slot for Workshop and Symposium send us the proposal.

Contact: Dileep Gattu | Program Director
Email: pharmaceutica@conferenceseries.net;
pharmaceutica@pharmaceuticalconferences.org
Office Ph: +1-702-508-5200 Ext: 8046
Tollfree No: +1-800-216-6499 (USA & Canada)

Call for Abstract : http://novel-drugdelivery-systems.pharmaceuticalconferences.com/call-for-abstracts.php
Registration : http://novel-drugdelivery-systems.pharmaceuticalconferences.com/registration.php
Abstract Submission : http://novel-drugdelivery-systems.pharmaceuticalconferences.com/abstract-submission.php

Past Keynote Speakers



Vladimir Torchilin
Director of Center for Pharmaceutical Biotechnology
and Nanomedicine
Northeastern University
USA



Raid Alany
Editor-in-Chief Pharmaceutical Development and Technology
Head of School of Life Sciences Pharmacy and Chemistry
Kingston University London
UK



Amiram Goldblum
Institute for Drug Research
The Hebrew University of Jerusalem
Israel



Olivia Merkel
Ludwig-Maximilians-Universität München
Germany



Dagmar Fischer
Friedrich-Schiller University
Germany



Andreas Bernkop-Schnürch
Professor and Head of Pharmaceutical Technology
CSO at ThioMatrix
University of Innsbruck
Austria



Arwyn Tomos Jones
Professor of Membrane Traffic and Drug Delivery
Cardiff University
UK



Steve Hood
Director, Bioimaging and D@T
GSK Fellow
UK



Sharareh Salar-Behzadi
Research Center Pharmaceutical Engineering
GmbH
Austria



Volkmar Weissig
Co-Director, Nanomedicine Center of Excellence
in Translational Cancer Research
President World Mitochondria Society
Midwestern University
USA

Past Keynote Speakers



Felix Kratz
Vice President
CytRx Corporation
Germany



Kang Choon Lee
Professor
Sungkyunkwan University
Republic of South Korea



Joel Richard
Vice President
Ipsen
France



Peter Krajcsi
Solvo Biotechnology
Hungary

Past Exhibitors & Sponsors

particle works, Pion, Meritics Ltd, American Elements, bicosome, ACDIMA, NIMS, SOLVO Biotechnology, ROQUETTE, FEDEGARI, Patheon, Malvern, SwRI, Quotient Clinical

Past Industry Representation

MEDA, sciecure, Precision NanoSystems, Absorption Systems, Alfa Wassermann Diagnostic Technologies, Amorepacific Corporation, Angelini, AstraZeneca, BioLAGO, Bio-Technology General Corp., Houston Methodist Research Institute, BIOASIS, noble, ratiopharm, CRODA, Amway, Surface Measurement Systems, Zenvision Pharma, Dr. Reddy's, Gally International, Hovione, KNPC, inovio, MedinCell, Genentech, HTD Biosystems Inc., iBET, Gedeon Richter, Italfarmaco, APR, Mallinckrodt Pharmaceuticals, Pfizer, Protalix Biotherapeutics, Reckitt Benckiser, Sanofi, Fedegari, Altus formulation

Poster Presentation

Present your research poster at our conference

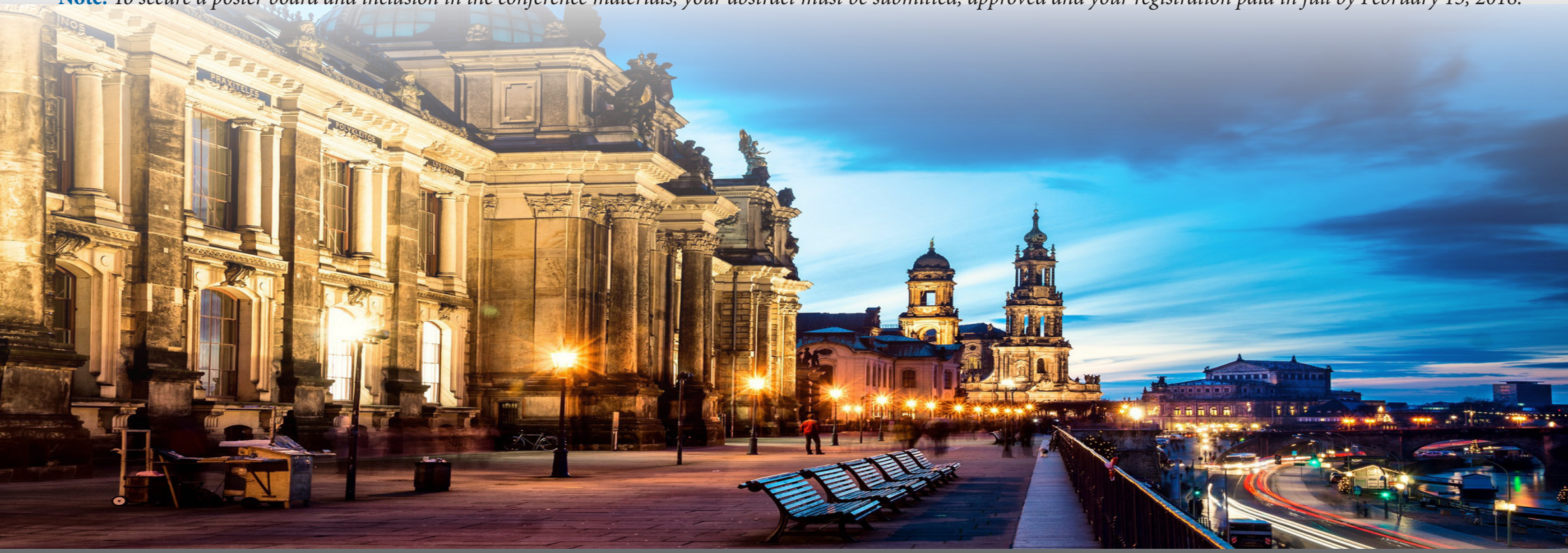
Benefits:

- Will be published in our conference proceedings and also the conference book.
- Publication of entire article at 50% rebate in the respective subject journals.
- Posters will be evaluated by our Jury and the best poster will be awarded a certificate.

Poster Specifications:

- Present numerical data in the form of graphs, rather than tables (graphs make trends in the data much more evident). If data must be presented in table-form, keep it Simple.
- Visuals should be simple and bold.
- Avoid acronyms and extensive mathematical notations as much as possible.
- Posters with 800 words or less are perfect. Avoid submitting compactly packed, high word-count posters.
- Organize your poster into subdivisions, e.g., Introduction, Methods, Results; Discussion, Conclusions, and Literature Cited (avoid using too many citations).
- Use bright colours to enhance the detail.
- Text should be readable from five feet distance.
- Besides your project, the text could also include future research plans or questions.
- Each poster should be approximately 1x1 M long.
- The title, contents and the author's information should be clearly visible from a distance of 1-2 feet.

Note: *To secure a poster board and inclusion in the conference materials, your abstract must be submitted, approved and your registration paid in full by February 15, 2018.*



Young Researchers Forum

Come Let's Bring a Transformation in the Scientific Society:

The Young Researchers Forum offers young researchers the possibility to meet and discuss research topics and methodologies, share and develop ideas, learn from each other and gain knowledge from senior researchers.

Benefits:

- Showcase your research through oral presentations.
- Learn about career development and the latest research tools and technologies in your field.
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research.
- Develop a foundation for collaboration among young researchers.
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe.
- Interact and share ideas with both peers and mentors.
- Opportunity for young researchers to learn about the research areas of their peers to increase their capacity as multidisciplinary researchers.
- Actively distribute information and promote the benefits of education and career matters.

For more info, PS: http://novel-drugdelivery-systems.pharmaceuticalconferences.com/young-researchers-forum.php



Venue Details:



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Telefax: +49 (0) 3379 - 204 - 200

For more information visit:
http://novel-drugdelivery-systems.pharmaceuticalconferences.com/venue-hospitality.php

Registration & Pricing

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ACADEMIC REGISTRATION

IMPORTANT DATES	Early-Bird Rate until October 25, 2017	Mid Registration Rate until November 27, 2017	Standard Registration Rate from January 23, 2018
Only Registration	$699/€680/£620	$799/€770/£700	$899/€870/£790
Package A (Registration + 3 nights Accommodation)	$1149/€1110/£1000	$1249/€1200/£1090	$1349/€1300/£1180
Package B (Registration + 4 nights Accommodation)	$1299/€1250/£1130	$1399/€1340/£1220	$1499/€1440/£1300

BUSINESS REGISTRATION

IMPORTANT DATES	Early-Bird Rate until May 29, 2017	Mid Registration Rate until November 27, 2017	Standard Registration Rate from January 23, 2018
Only Registration	$799/€770/£700	$899/€870/£790	$999/€960/£870
Package A (Registration + 3 nights Accommodation)	$1249/€1200/£1090	$1349/€1300/£1180	$1499/€1440/£1300
Package B (Registration + 4 nights Accommodation)	$1399/€1340/£1220	$1499/€1440/£1300	$1599/€1530/£1390

STUDENT REGISTRATION

IMPORTANT DATES	Early-Bird Rate until October 25, 2017	Mid Registration Rate until November 27, 2017	Standard Registration Rate from January 23, 2018
Young Researchers Forum (Oral)	$399/€390/£360	$499/€490/£440	$599/€580/£530
Student Delegate	$249/€250/£230	$299/€300/£270	$349/€350/£320
Student Visitor	$149/€170/£150	$199/€210/£200	$199/€210/£200

EXHIBTION & SPONSORS

IMPORTANT DATES	Early-Bird Rate until May 29, 2017	Mid Registration Rate until November 27, 2017	Standard Registration Rate from January 23, 2018
Exhibitor	$1499/€1440/£1300	$1999/€1910/£1730	$2499/€2390/£2160
Silver Sponsor	$3499/€3340/£3020	$3999/€3810/£3450	$4499/€4290/£3880
Gold Sponsor	$4999/€4760/£4310	$5499/€5240/£4740	$5999/€5710/£5170
Elite Sponsor	$7499/€7140/£6460	$7999/€7610/£6890	$8999/€8560/£7750

Only Registration Includes:

- Access to all Sessions
- Handbook & Conference Kit
- Certificate Accreditation from the Organizing Committee
- Abstracts will be published in the conference souvenir and respective International Journal
- Each registrant will get 50% abatement on manuscript publication fees
- Ask the Expert Forums (One to One Pre-Scheduled meeting on interest and availability)
- Access to the attendees email list (post conference)
- 10% abatement on the registration fees for the next annual conference
- 10% abatement on the Conference Series LLC conferences membership
- 2 Coffee breaks (Refreshments and snacks) during the conference
- Lunch during the conference
- Wi-Fi

Package A:

Above all features including the following:

- Breakfast during the Conference
- 3 Nights' accommodation (i.e. March 18th, 19th & 20th) of deluxe single/ double room at the conference venue

Package B:

Above all features including the following:

- 1 Night extra accommodation i.e. March 21st (total 4 Nights)

For Student Delegates:

- Access to All Sessions
- Coffee break during the conference
- Conference Kit
- Lunch during the conference

For Student Visitor:

- Access to All Sessions
- Coffee break during the conference

E-Poster for $99:

- The amount charged for E-Posters is to display the E-Posters only on website
- The abstract will be published in conference proceeding book
- The presenter is not required to be present in person at the conference

Previous Scientific Program Pharmaceutica 2017

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Day 1 | March 13, 2017 | Monday

08:00-09:00 Registrations

Byron Suite

09:00-09:25 Opening Ceremony

Keynote Forum

09:25-09:30 Introduction

09:30-10:10 Title: What properties should nanopreparations possess to become effective anticancer medicines?
Vladimir Torchilin, Northeastern University, USA

10:10-10:50 Title: Oral delivery of biologics- back to the roots
Andreas Bernkop-Schnürch, University of Innsbruck, Austria

Group Photo

Networking and Refreshments 10:50-11:10 @ Foyer

11:10-11:50 Title: Quantifying the effectiveness of drug delivery systems *in vivo*
Steve Hood, GSK, UK

11:50-12:30 Title: Computational discovery and experimental confirmation of TLR9 receptor antagonist leads
Amiram Goldblum, The Hebrew University of Jerusalem, Israel

Sessions:
Smart Drug Delivery Systems | Vaccine Drug Delivery Systems | Routes of Drug Delivery

Session Chair: **Vladimir Torchilin**, Northeastern University, USA
Session Chair: **Andreas Bernkop-Schnürch**, University of Innsbruck, Austria

12:30-12:50 Title: Microneedle: The future of pharmaceutical and cosmeceutical delivery systems
Hyungil Jung, Yonsei University, Republic of South Korea

12:50-13:10 Title: TBA
Steve Rannard, University of Liverpool, UK

Lunch Break 13:10-14:00 @ W5 Grill Restaurant

14:00-14:20 Title: Polymeric nanoparticles for therapeutic siRNA delivery: Analysis of tissue-penetration and biological activities in tumor tissue slice cultures and *in vivo* xenograft models
Achim Aigner, Leipzig University, Germany

14:20-14:40 Title: Drug delivery across skin barrier: Investigation on different biocompatible thermoresponsive soft nanocarriers
Fiorenza Rancan, Medical University of Berlin, Germany

14:40-15:00 Title: Investigation on nano-sized drug delivery systems for ocular application
Patrizia Chetoni, University of Pisa, Italy

15:00-15:20 Title: Application of simultaneous dissolution-absorption apparatus for screening formulations before bioequivalence studies
Balint Sinko, Pion Inc., USA

15:20-15:40 Title: Tumour regression after intravenous administration of novel tumour-targeted nanomedicines
Christine Dufès, University of Strathclyde, UK

Networking and Refreshments 15:40-16:00 @ Foyer

Sessions:
Nanotechnology in Drug Delivery | Pharmaceutical Nanotechnology | Biomaterials in Drug Delivery

Session Chair: **Vladimir Torchilin**, Northeastern University, USA
Session Chair: **Amiram Goldblum**, The Hebrew University of Jerusalem, Israel

16:00-16:20 Title: Biomaterials a pathway to overcome biomembranes
Flavia Laffleur, University of Innsbruck, Austria

16:20-16:40 Title: Nanoprecipitation for delivery of Insulin
António José Ribeiro, University of Coimbra, Portugal

16:40-17:00 Title: Metronomic treatment of breast cancer with Doxorubicin-loaded ferritin nanocages prevents chemoresistance and cardiotoxicity in comparison to liposomal Doxorubicin
Serena Mazzucchelli, University of Milan, Italy

17:00-17:20 Title: An early developmental vertebrate model to assess nanomaterial safety
Victoria Sherwood, University of Dundee, UK

17:20-17:40 Title: Polymeric nanofibers for controlled release in hernia repair
Dimitrios A Lamprou, University of Kent, UK

17:40-18:00 Title: Multi-component orchestrated delivery modules for personalized healthcare using SLA 3D printing
Reno A L Leon, Structo Pte. Ltd., Singapore

Panel Discussion

Day 1 Concludes

Day 2 | March 14, 2017 | Tuesday

Byron Suite

Keynote Forum

09:30-10:10 Title: Overcoming cellular barriers for drug delivery: Opening endocytic gates and pathways for intracellular targetting
Arwyn T Jones, Cardiff University, UK

10:10-10:50 Title: Age related sight loss: novel drug delivery strategies to the anterior and posterior segements of the eye
Raid Alany, Kingston University, UK

Networking and Refreshments 10:50-11:10 @ Foyer

11:10-11:50 Title: Lipid-based pharmaceutical formulations for patient-centric product development
Sharareh Salar-Behzadi, Research Center Pharmaceutical Engineering GmbH, Austria

11:50-12:30 Title: Bacterial nanocellulose as controlled drug delivery system in skin applications
Dagmar Fischer, Friedrich-Schiller University, Germany

Sessions:
Peptides and Protein Drug Delivery | Drug Targeting and Design | Nanoparticulate Drug Delivery Systems

Session Chair: **Raid Alany**, Kingston University, UK
Session Chair: **Arwyn T Jones**, Cardiff University, UK

12:30-12:50 Title: Nanoparticles-in-vaginal films for combined delivery of anti-HIV microbicide drugs
Bruno Sarmento, University of Porto, Portugal

12:50-13:10 Title: Dry powder inhalation of Pneumococcal protein-based nanocarrier vaccine
Imran Saleem, Liverpool John Moores University, UK

Lunch Break 13:10-14:00 @ W5 Grill Restaurant

14:00-14:20 Title: Targeting active bowel inflammation foci by MAdCAM-1-specific nanoparticles
Marta Truffi, University of Milano, Italy

14:20-14:40 Title: Therapeutic potential against metastatic melanoma of a copper-based aquaporin inhibitor nanoformulated
Satyanarayana Somavarapu, UCL School of Pharmacy, UK

14:40-15:00 Title: Double-targeting of glioma in mice using LRP1-targeting carbon nano-needles
Khuloud Al Jamal, King's College London, UK

15:00-15:20 Title: Metrology in pharmaceutical manufacturing
Dimitrios A Lamprou, University of Kent, UK

15:20-15:40 Title: Targeted drug delivery to enhance cancer therapy and reduce its side effects
Wafa T Al-Jamal, University of East Anglia, UK

15:40-16:00 Title: PLGA nanoparticles entrapping Amikacin and Moxifloxacin as a potential host-directed agent therapy for multidrug resistant tuberculosis
Sharif Abdelghany, University of Jordan, Jordan

16:00-16:20 Title: TBA
Murtaza Tambuwala, Ulster University, UK

Networking and Refreshments 16:20-16:40 @ Foyer

Parellel Sessions
Poster Presentations @ 16:00-18:00
Exhibitions/Networking/B2B Meetings

Poster Judges: **Raid Alany**, Kingston University, UK
Imran Saleem, Liverpool John Moores University, UK
Khuloud Al Jamal, King's College London, UK

PNDDS01 Title: ChonylationTM – a new drug delivery technology for improving the therapeutic efficacy of proteins and peptides utilizing naturally-occurring sugar polymer "chondroitin (CH)" as an alternative to polyethylene glycol (PEG)
Yoshihiro TAKATSU, Seikagaku Corporation, Japan

PNDDS02 Title: Solvent-free lipophilic novel drug delivery system via dissolving microneedles
Shayan F Lahiji, Yonsei University, Republic of South Korea

PNDDS03 Title: Novel therapeutic approaches of sulphated glycan isolated from marine organism (whelk) on multiple cancer cell lines including TNBC and characterization of unique biological activity of the extracted compounds on malaria
Chrow Khurshid, University of Salford Manchester, UK

PNDDS04 Title: Investigations into the impact of oleic acid purity on human skin penetration by Terbinafine hydrochloride using Maldi-Ms imaging
Stephen Rumbelow, Croda Inc, USA

PNDDS05 Title: Developing novel biased ligands of protease-activated receptor 2 in colorectal cancer cells
Yuhong Jiang, University of Queensland, Australia

PNDDS06 Title: Steroid-harboring nanoparticles provide anti-inflammatory response with less adverse effects
Krisztian Kvell, University of Pecs, Hungary

PNDDS07 Title: Transcutaneous immunization via rapidly dissolvable microneedles protects against hand-foot-and-mouth disease caused by enterovirus 71
Zhuangzhi Zhu, China State Institute of Pharmaceutical Industry, China

PNDDS08 Title: Preparation and evaluation of Emamectin Benzoate solid microemulsion
Bo Cui, Chinese Academy of Agricultural Sciences, China

PNDDS09 Title: Resistance monitoring to beta-cypermethrin in spiraling whiteny
Changjiao Sun, Chinese Academy of Agricultural Sciences, China

PNDDS10 Title: Agrochemical smart nano-delivery systems for improved efficiency and safety
Yan Wang, Chinese Academy of Agricultural Sciences, China

PNDDS11 Title: Morphology, structure and function characterization of pei modified magnetic nanoparticles gene delivery system
Xiang Zhao, Chinese Academy of Agricultural Sciences, China

PNDDS12 Title: Bioresorbable structures loaded with ginger and hot pepper extracts as possible application in some cardiovascular diseases
Melania Florina Munteanu, Vasile Goldis Western University Arad, Romania

PNDDS13 Title: Modified release studies of the new antitubercular compound, 1,1'-[4,4'-[tricyclo[3.3.1.13,7] decane-2,2-diyl]bis(phenoxyethyl]dipyrrolidine, bis-hydrochloride from solid pharmaceutical formulations
Angeliki Siamidi, The University of Sheffield, Greece

PNDDS14 Title: Ultrasound–assisted compression of Paracetamol
Abdolati Alwati, University of Bradford, UK

PNDDS15 Title: An anti-colitic mutual colon-specific prodrug of 5-aminosalicylic acid : Procainamide conjugated to 5-aminosalicylic acid via an azo bond
Wooseong Kim, Pusan National University, South Korea

PNDDS16 Title: Colon-specific Celecoxib delivery: a potential strategy for repositioning the selective COX-2 inhibitor as an anti-colitic agent
Seongkeun Jeong, Pusan National University, South Korea

PNDDS17 Title: Conjugation of with Dextran is a potential strategy to control colonic distribution of the drugs susceptible to metabolism by colonic microbes
Dohoon Kim, Pusan National University, South Korea

PNDDS18 Title: An anti-colitic mutual colon-specific prodrug of 5-aminosalicylic acid I: Procainamide conjugated to 5-aminosalicylic acid via an azo bond
Yejin Yang, Pusan National University, South Korea

PNDDS19 Title: TBA
Igor Grinberg, Israel

PNDDS20 Title: Targeting liposomal doxorubicin to tumour tissues using a novel peptide
Mohammed Aldughaim, The University of Sheffield, UK

PNDDS21	Title: Organogel nanoparticles as delivery system for lipophilic drugs **Sophie Franceschi,** Université Paul Sabatier, France
PNDDS22	Title: Dynamic Vapour Sorption – A versatile technique for pharmaceutical materials characterization **Nachal Devi Subramanian,** Surface Measurement Systems Ltd., UK
PNDDS23	Title: Enhancement of dissolution of Atorvastatin through preparation of solid dispersions using supercritical fluid technology **Rana Obaidat,** Jordan University of Science and Technology, Jordan
PNDDS24	Title: Evaluation of co-processed excipients for Ezetimibe liquisolid formulation **Mai Khanfar,** Jordan University of Science and Technology, Jordan
PNDDS25	Title: Development and validation of high performance liquid chromatography method for Atorvastatin calcium in pharmaceutical dosage forms **Mine Diril,** Ege University, Turkey
PNDDS26	Title: Development and evaluation of SEDDS pellet for Atorvastatin calcium **Mine Diril,** Ege University, Turkey
PNDDS27	Title: Development and evaluation of self microemulsion drug delivery system for Atorvastatin calcium **Mine Diril,** Ege University, Turkey
PNDDS28	Title: Determination of critical micelle concentration of lipid based systems with Cisplatin **Irfan Akartas,** Ege University, Turkey
PNDDS29	Title: Development and validation of a simple and sensitive HPLC assay method for determination of Cisplatin **Irfan Akartas,** Ege University, Turkey
PNDDS30	Title: Development and characterization of self microemulsified drug delivery systems for Cisplatin **Irfan Akartas,** Ege University, Turkey
PNDDS31	Title: Novel self-assembled liquid crystalline nanoparticles for transdermal delivery of progesterone: development, quality by design, *in-vitro* optimization and *ex-vivo* permeation studies **Salma M Mohyeldin,** Alexandria University, Egypt
PNDDS32	Title: Optimization of quercetin Oil-in-Water (O/W) nanoemulsion aerosols for pulmonary delivery **Mohd Basyaruddin Abdul Rahman,** Universiti Putra Malaysia, Malaysia

Panel Discussion

Day 2 Concludes

Day 3 | March 15, 2017 | Wednesday

Springfield

Keynote Forum

09:30-10:10 Title: *In-situ* forming gel devices as local depot therapeutic for rheumatoide arthritis
Olivia Merkel, Ludwig-Maximilians-Universität München, Germany

Sessions:
Nanotechnology in Drug Delivery | Pharmaceutical Nanotechnology | Biomaterials in Drug Delivery

Session Chair: **Olivia Merkel**, Ludwig-Maximilians-Universität München, Germany
Session Chair: **Imran Saleem**, Liverpool John Moores University, UK

Young Researchers Forum

10:10-10:25 Title: Transparent Ciprofloxacin-polyvinylpyrrolidone antibiotic films and nanofiber mats as potential skin and wound care dressings
Marco Contardi, Istituto Italiano di Tecnologia, Italy

10:25-10:40 Title: Development of cationic Ag_2S NIR emitting QD's as new generation of theranostic nanoparticles
Fatma Demir Duman, Koc University, Turkey

Networking and Refreshments 10:40-11:00 @ Foyer

11:00-11:20 Title: Nanoparticles for oral delivery of Insulin: Facts and safety concerns
António José Ribeiro, University of Coimbra, Portugal

11:20-11:40 Title: Therapeutic potential against metastatic melanoma of a copper-based aquaporin inhibitor nanoformulated
Maria Manuela Gasper, University of Lisboa, Portugal

11:40-12:00 Title: Cm-p5: An antifungal mollusc-derived peptide conjugated with citric acid-modified manganese-ferrite nanoparticles with enhanced activity against Candida albicans *in vitro*
Anselmo J Otero-Gonzalez, Havana University, Cuba

12:00-12:20 Title: Asenapine Maleate loaded solid lipid nanoparticles for oral delivery
Pranav Shah, Uka Tarsadia University, India

12:20-12:40 Title: Thiolated pectin conatining hydrogels for controlled drug delivery of Citrizine hydrochloride with its in-vitro studies
Muhammad Hanif, Bahauddin Zakariya University, Pakistan

12:40-13:00 Title: A novel doxorubicin loaded folicacid conjugated PAMAM modified with borneol, a nature dual-functional product to freducing PAMAM toxicity and boosting BBB penetration
Fanzhu Li, Zhejiang Chinese Medical University, China

13:00-13:20 Title: Hypoxia-responsive methoxy poly (ethylene glycol)-block-poly (glutamic acid)-graft-6-(2-nitroimidazole) hexyl amine nanoparticles for doxorubicin drug delivery
Zaheer Ahmad, Chinese Academy of Sciences, China

Lunch Break 13:20-14:00 @ W5 Grill Restaurant

Award Ceremony

Conference Concludes