2nd Annual

MarketsandMarkets Next Gen Immuno-Oncology Congress

September 19 - 20, 2019 • Hilton Garden Inn Philadelphia Center City, Philadelphia-USA

Event overview

The current revolution in immuno-oncology is being driven by Antibody Drug Conjugates, Immune Checkpoint Inhibitors, Bispecific Antibodies and Cell Therapies. Clinical trials have showed that cancer patients can tolerate this immune-based treatment more effectively than conventional treatments like chemotherapy and radiotherapy. It's clearly one of the hottest field of Biopharma which has gained momentum in the past few years.

After our successful edition last year, we are coming up with the **"2nd Annual Next-Gen Immuno-Oncology Congress"** on **19 - 20 September, Philadelphia, USA** which will gather academicians, researchers and scientists from research institutes pharmaceutical, bio-pharmaceutical and biotechnology companies to discuss the latest updates in development of ADC's, Monoclonal Antibodies, Bispecific Antibodies, Immune Checkpoint Inhibitors and Cellular Therapy.

Key Highlights

- Updates in development of monoclonal Abs and bispecific Abs
- Immune Checkpoint Inhibitors and Combinations
- Preclinical and Translational Immuno-Oncology Developments
- Biomarkers and Cancer Vaccines
- Next Gen CAR-T cell therapy, T-Cell Therapy
- Tumor microenvironment
- Oncolytic Viruses

Why Attend?

- Find out new case studies of antibody projects in development
- Contribute to interactive roundtables with your peers to deliberate key topics most relevant to you
- Explore the latest platforms and technologies on the market for development
- Discuss the best tool for your research in immune-oncology
- Share your work and achievements with your industry peers in the Poster Session

Who Should Attend?

Monoclonal and Bispecific Antibodies	Cell Therapy	Immune Checkpoint Inhibitors
• ADCs development Preclinical and Translational Oncology • Oncology • Bi-specifics- Preclinical and Translational • Clinical development • R&D- Discovery and process • PKPD/ADME/Tox • Antibody Engineering • Antibody therapeutics • Physio-Chemistry /Synthetic Chemistry and/ Bio conjugation • Bioanalysis	• Oncology • Clinical development • R&D- discovery and process • Discovery • Target Validation • Bioanalysis • Therapeutic areas • PKPD/ADME/Tox • Biologics -antibody • Cell-Based Immunotherapies • Innate and adaptive immune cells • Antibody engineering Tumour antigens and neoantigens	• Cancer immunotherapy • Immune checkpoint targets • Checkpoint inhibition • Cellular therapy • Clinical research • Combination therapy • Cancer Vaccines • Preclinical and Translational Oncology R&D • Immune biomarkers • Immunology • Cancer biology • Immuno-oncology • Tumour-associated mechanisms of immune suppression

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Scientific Advisory Board

Rakesh Dixit
President & CEO
Bionavigen

Stefan Glueck
Senior Vice President,
Global Medical Affairs, Celgene

Speakers panel

Shailendra Singh (Shelly)
Chief Operating Officer
MarketsandMarkets

Roy Baynes
Senior Vice President,
Global Clinical Development
Chief Medical Officer, Merck

Rakesh Dixit
CEO
Bionavigen

Stefan Glueck
Senior Vice President
Global Medical Affairs, Celgene

Shahram Salek-Ardakani
Senior Director
Cancer Immunology, Pfizer

Carl Morrison
President, Chief Medical Officer
OmniSeq

Emmanuel Normant
Vice President
Preclinical Sciences, TG Therapeutics

Vicki Plaks
Translational Lead, Principal Scientist
Translational Sciences, Kite Pharma

Frank Borriello
CEO
Alloplex Biotherapeutics

Joost Oppenheim
Head
Cellular Immunology, NIH

Natalie Russi
Scientific Project Manager
Nebion

Li Peng
Senior Vice President
Discovery and Early Product Development, Palleon Pharma

Sebastien Tabruyn
Chief Scientific Officer
Transcure Bioservices

Megan van Overbeek
Associate Director of Functional Genomics
Caribou Biosciences

William Williams
President, CEO
BriaCell Corporation

Rajesh Singh
Laboratory Director
Abzyme Therapeutics

Qingcong Lin
Senior Vice President, CEO
Biocytogen Boston Corporation

Thomas Tan
Vice President
Immunology, Elstar Therapeutics

Girish Naik
Medical Director
Leap Therapeutics

Soldano Ferrone
Professor of Surgery, Massachusetts General Hospital
Harvard Medical School

For more information please contact Nikita at **nikita.patankar@marketsandmarkets.com | +91 20 4859 8609**

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Speakers panel

Tabb Sullivan
Senior Scientist, Project Leader
Integral Molecular

Tullia Bruno
Assistant Professor, Immunology
University of Pittsburgh

Melissa Olekson
Scientific Support Specialist
PromoCell

Balveen Kaur
Professor, Vice-Chair Research
University of Texas

RJ Tesi
CEO, CMO
INmune Bio Inc.

Scott Durum
Head
Cytokines and Immunity, NIH

Pan Zheng
Professor
University of Maryland School of Medicine

Matt Greving
Co-Founder & VP, Technology
RubrYc Therapeutics Inc.

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Day 1 - September 19th 2019

08:15 **Registration**

08:55 **Welcome note from MarketsandMarkets**

STREAM A	STREAM B
Monoclonal and Bispecific Antibodies	**Immune Checkpoint Inhibitors & Combination Strategies**
9:00 **Opening remarks from the Chairman** **Frank Borriello, CEO, Alloplex Biotherapeutics**	**9:00** **Opening remarks from the Chairman** **Shahram Salek-Ardakani,** Senior Director, **Cancer Immunology, Pfizer**
9:05 **Keynote: Mutations in the IL-7 receptor driving acute lymphoblastic leukemia** • The IL-7 pathway is essential of lymphocyte development and survival • Mutations in the IL-7 receptor pathway drive acute lymphoblastic leukemia • Therapeutics targeting the pathway are being developed **Scott Durum,** Head, Cytokines and Immunity, **NIH**	**9:05** **Keynote: Defining T Cell States Associated with Response to Combination Immunotherapy** • PDL-1 blockade and OX40/4-1BB agonism synergistically amplify the T cell mediated antitumor efficacy • Single-cell RNA-seq reveals distinct CD8 T cells associated with tumor regression • Expression of CXCR3 and CXCL9 within TME Positively Correlates with T cell Infiltration and Survival **Shahram Salek-Ardakani,** Senior Director, **Cancer Immunology, Pfizer**
9:40 **Natural single domain antibodies as potential alternatives to monoclonal antibodies in the next generation immunotherapy** • Camelid single domain VHH antibodies – uniqueness and advantages over conventional antibodies • High-throughput approach to develop and identify VHHs for targets of various nature • Application of VHHs in multi-specific antibody engineering and immunotherapy **Rajesh Singh,** Laboratory Director, **Abzyme Therapeutics**	**9:40** **Breast Cancer Immunotherapy: Novel Combinations of Bria-IMT™ with Checkpoint Inhibitors** • BriaCell is developing Bria-IMT™, a targeted immunotherapy for breast cancer, a breast cancer cell line with features of antigen presenting cells that stimulates a potent anti-tumor immune response. • Bria-IMT™ has established positive proof-of-concept with efficacy in late-stage patients with and without combinations with checkpoint inhibitors. • The insights gained from Bria-IMT™ have led to the development of Bria-OTS™ which promises to be the first personalized immunotherapy that is off-the-shelf. **William Williams,** President, CEO, **BriaCell Corporation**
10:15 **Screening the Membrane Proteome to Determine Antibody Specificity and Discover New Immunomodulatory Targets** • Integral Molecular specializes in discovering and characterizing monoclonal antibodies (MAbs) against structurally complex targets, including GPCRs, ion channels, and immuno-oncology (I-O) targets • The Membrane Proteome Array (MPA) enables specificity profiling by screening antibodies against an array of > 5,300 full-length human membrane proteins using high-throughput flow cytometry. Each membrane protein is expressed in live cells and all hits are confirmed in a secondary validation experiment • Membrane proteins in the MPA are fully functional and can be used for phenotypic screening to identify new therapeutic targets, as demonstrated by our recent discovery of novel costimulatory molecules against cytotoxic T lymphocytes (CTLs) **Tabb Sullivan,** Senior Scientist, Project Leader, **Integral Molecular**	**10:15** **Accelerating Therapeutic Antibody Discovery and Development with Innovative Humanized Mouse Models** • Biocytogen services for your antibody discovery with case studies, from in vivo efficacy and toxicity • In vitro PK/PD analysis of your antibody candidates, using Biocytogen Immune Checkpoint humanized mouse models, B-NDG based CAR-T, and PBMC/CD34+ human immune reconstituted mouse models, CD3e humanized models. **Qingcong Lin,** Senior Vice President, CEO, **Biocytogen Boston Corporation**
10:50 **Morning Refreshments and Poster Presentations | One-to-One Networking Meetings**	
Targeted Antibodies, Cellular Therapy and Combinations	**Pre-clinical & Translational Immuno-Oncology Developments**
11:40 **Learnings from the successful Cancer Immunotherapy Combinations and Bispecifics** • A review of the most promising combinations in cancer immunotherapies • What combinations have worked well and potential MOAs? • What combinations have failed or too toxic? • How successful combinations can help generate the best bispecific biologics? **Rakesh Dixit,** President & CEO, **Bionavigen**	**11:40** **Reversing trastuzumab resistance in HER2+ breast cancer** • MUC4 predicts trastuzumab resistance in HER2+ breast cancer • Role of soluble TNF in MUC4 expression • INB03 in combination with trastuzumab to reverse restance in MUC4+/HER2+ breast cancer **RJ Tesi,** CEO, CMO, **INmune Bio Inc.**

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STREAM A — Monoclonal and Bispecific Antibodies

12:15 Human Cell Culture: The Role of In Vitro models in Cancer Immunotherapy Development
- Primary cell models for studying off target toxicity of immunotherapies
- Workflow for isolating malignant cell populations from primary tumor samples
- Serum-free medium options for cancer cell line culture

Melissa Olekson, Scientific Support Specialist, **PromoCell**

12:50 ex vivo PBMC Activation of Antitumor Activity Offers Accelerated Path to Clinical Application
- Alloplex has developed a 2 week ex vivo stimulation procedure for human PBMC using two highly engineered allogeneic leukocyte activation cell (LAC) lines derived from a common laboratory tumor line.
- The resulting activated PBMC (APEXA®) cells are capable of recognizing and killing all tumor cell lines with remarkable specificity and potency. Very low effector to target ratios (1:1) are capable of completely lysing tumor target within 8 hours.
- The same cells do not harm naïve autologous or allogeneic PBMC even at high effector to target ratios (20:1), suggesting potential application in the autologous and allogeneic immunotherapy of cancer.
- While Alloplex is conducting experiments to further characterize the heterogeneous APEXA® cell population and the multiple mechanism of action in play, it is also moving forward with developing the clinical grade protocols to initiate a single center, open label, all-comers clinical trial in 2Q2020.

Frank Borriello, CEO, **Alloplex Biotherapeutics**

STREAM B — Immune Checkpoint Inhibitors & Combination Strategies

12:15 Humanized Mouse Models for Immuno-Oncology Research
- Car-T cell therapy
- Cancer Vaccines
- Combination therapy (immune check point inhibitor)
- PDX

Sebastien Tabruyn, Chief Scientific Officer, **Transcure Bioservices**

12:50 Preserving CTLA4 function to make a better and safer anti-CTLA4 antibody
- CTLA4 anti-tumor efficacy is not associated with checkpoint blockade
- The lysosomal degradation of CTLA4 antibody-antigen is the mechanism for immune related toxicity
- Preserving CTLA4 function is required to make a safer and better antibody against tumor

Pan Zheng, Professor, University of Maryland School of Medicine

13:25 Lunch and Poster Presentations | One-to-One Networking Meetings

Monoclonal, Bispecific Antibodies and Cellular Therapy

New Antibody Formats and Developments in CAR-T Cell Therapy

14:25 Biomarkers Associated with Clinical Outcomes in ZUMA-1 Supporting Approval of Yescarta
- YESCARTA® is a CAR-T therapy that was approved by the US FDA and EMA for the treatment of adult patients with r/r DLBCL after ≥ 2 lines of systemic therapy.
- Two-year data indicates 39% Ongoing Response Rate and Median Overall Survival was not reached.
- This presentation will review key biomarkers that supported the approval, yielding a mechanistic model of efficacy, toxicities and resistance.

Vicki Plaks, Translational Sciences Lead, **Kite Pharma**

Immune Checkpoint Inhibitors

New Immune Checkpoints for Immunotherapy

14:25 Clinical development of GITR based immunotherapies
- Costimulatory checkpoints in cancer immunotherapy and relevance of GITR in cancer
- Challenges in developing GITR agonists for cancer immunotherapy
- Combination strategy and patient population is key for clinical development of agonist based cancer immunotherapies

Girish Naik, Medical Director, Leap Therapeutics

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Day 1 - September 19th 2019

STREAM A	STREAM B
Monoclonal and Bispecific Antibodies	**Immune Checkpoint Inhibitors & Combination Strategies**
15:00 Improving the Safety and Efficacy Profile of CAR-T: GM-CSF Neutralization with Lenzilumab • GM-CSF has been identified as a predictor of severe neurotoxicity and cytokine release syndrome in CAR-T clinical trials • Published preclinical studies have shown that GM-CSF neutralization may prevent CRS and significantly reduce NT while improving anti-tumor activity and durability of response (thus breaking the efficacy / toxicity linkage) • GM-CSF neutralization with lenzilumab is currently being evaluated in Phase I/II study with Yescarta, in collaboration with Kite, a Gilead company **Omar Ahmed,** Vice President, **Humanigen**	**15:00 Enhancing Oncolytic HSV Therapy** • PTENα expressing oncolytic herpesvirus, to eradicate cancer and its ability to abrogate PD-L1 expression in infected tumor cells • A single dose of HSV-P10 resulted in long term survivors that rejected subsequent tumor challenge • HSV-P10 as an oncolytic and immune stimulating therapeutic for anticancer therapy **Balveen Kaur,** Professor, Vice-Chair Research, **University of Texas**
15:35 Next-generation gene editing technology for allogeneic T cell therapeutics • Next-generation CRISPR-Cas9 technology with enhanced editing specificity • Development of a clinical candidate therapy to treat hematological malignancies **Megan van Overbeek,** Associate Director of Functional Genomics, **Caribou Biosciences**	**15:35 B cells in the human tumor microenvironment** • B cell infiltration is predominantly in tertiary lymphoid structures in human tumors • B cells and TLS correlate with increased survival in patients with solid tumors • B cells can present antigen and produce anti-tumor antibodies, ultimately contributing to a productive immune response in cancer patients **Tullia Bruno,** Assistant Professor, Immunology, **University of Pittsburgh**
16:10 Evening Refreshments and Poster Presentations | One-to-One Networking Meetings	
16:45 "RubrYc Therapeutics: Overcoming Immunodominance to Discover Next Gen Biotherapeutics" • RubrYc Discovery Engine guides biotherapeutic discovery to unprecedented, on-target optionality • Sharper repertoire focus • Expansive CDR diversity • Enriched epitope selectivity • Augments conventional discovery to realize mechanism of action and access challenging targets • Completed feasibility: discovery of epitope selective antibodies for multiple transmembrane proteins and growth factors implicated in autoimmune disease and oncology **Matt Greving,** Co-Founder & VP, Technology, **RubrYc Therapeutics Inc.**	**16:55 Break out Session: Future of Biologics in Immune Checkpoint therapy**

17:20 Closing remarks from the Chairman

17:25 End of Day 1

Cocktail Reception

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Day 2 - September 20th 2019

08:15 Registration

08:55 Welcome note from MarketsandMarkets

STREAM A	STREAM B
Monoclonal and Bispecific Antibodies	**Immune Checkpoint Inhibitors and Cellular Therapy**
9:00 **Opening remarks from the Chairman** **Emmanuel Normant,** Vice President, Preclinical Sciences, **TG Therapeutics**	**9:00** **Opening remarks from the Chairman** **Stefan Glueck,** Senior Vice President, Global Medical Affairs, **Celgene**
New Antibodies Development and Tumor Microenvironment	**Personalized Immunotherapy and T-Cell Therapies**
9:05 **Keynote: Anti PD-! Antibodies are Transforming Cancer Care both as Mono- and Combination Therapy** • Pembrolizumab has demonstrated broad spectrum anticancer monotherapy activity • Precision medicine tools have enriched for patients most likely to respond to monotherapy and helped define combination therapy strategies • Pembrolizumab in combination with other agents has established favorable benefit risk profiles in an number of cancers **Roy Baynes,** Senior Vice President, Global Clinical Development, Chief Medical Officer, **Merck Research Laboratories**	**9:05** **Keynote: Tumor Inflammatory Signature** • Different approaches • Baseline for precision combination immunotherapy • Response to checkpoint inhibitors **Carl Morrison,** President, Chief Medical Officer, **OmniSeq**
9:40 **Combinations of antibodies and small molecules in the Immuno-Oncology world: A TG Therapeutics perspective** • TG Therapeutic pipeline is focused on heme oncology diseases like CLL or NHL • The 5 assets currently in clinic bear a strong potential for effective “wholly owned” (or intra-pipeline) combinations • Preclinical data showing CD19-CD47 bispecific antibody TG-1801, ublituximab (anti CD-20) and umbralisib (PI3Kd inhibitor) synergistic effects **Emmanuel Normant,** Vice President, Preclinical Sciences, **TG Therapeutics**	**9:40** **Development of effective immunotherapeutic combinations with antitumor activities** • Synergistic immunostimulating effects of TLR4 and 7/8 ligands and checkpoint inhibitors • Identification of immunostimulating alarmin with causal role in Parkinson`s Disease **Joost Oppenheim,** Head, **Cellular Immunology, NIH**
10:15 **Targeting Immunosuppressive Sialoglycans in the Tumor Microenvironment Using A Novel Therapeutic Modality EAGLE** • The glyco-immune checkpoint axis (sialoglycan/Siglec pathway) has emerged as a novel mechanism of cancer immune escape. • Here, we described a novel therapeutic modality, a bifunctional antibody-like molecule named EAGLE (Enzyme-Antibody Glyco-Ligand Editing), to target this axis by selectively removing immuno-suppressive terminal sialic acids on tumor cells. • We demonstrated that EAGLE treatment led to robust anti-tumor activities and increased immune cell infiltration/activation in syngeneic mouse tumor models. **Li Peng,** Senior Vice President, Discovery and Early Product Development, **Palleon Pharma**	**10:15** **Update on ICI data in early and metastatic breast cancer** **Stefan Glueck,** Senior Vice President, **Global Medical Affairs, Celgene**
10:50 **Morning Refreshments and Poster Presentations | One-to-One Networking Meetings**	

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Day 2 - September 20th 2019

11:40 **Novel T cell engaging bispecific antibodies for cancer immunotherapy**
- Elstar's non-CD3e T cell engager drives expansion and activation of a discrete T cell population with biological features distinct from that following exposure to anti-CD3 based engagers
- Favorable cytokine profile, which predicts a reduced risk of CRS and neurotoxicity, was observed compared to CD3 activation
- Proof-of-concept bispecific antibody was generated and showed potent in vitro and in vivo efficacy

Thomas Tan, Vice President, Immunology, **Elstar Therapeutics**

12:15 **B7-H3, an attractive target of antibody-based immunotherapy**
- Description of characteristics of B7-H3
- Examples of strategies which use B7-H3 as a target
- Translation of the in vitro data and of the results obtained in animal model systems to a clinical setting

Soldano Ferrone, Professor of Surgery, **Massachusetts General Hospital, Harvard Medical School**

12:50 **Comparing immunological marker signatures across various cancer types**
- Analyze immune-cell induced gene expression patterns in cancer tissues
- Globally normalized public data sets provide novel insights to drug response patterns

Natalie Russi, Scientific Project Manager, **Nebion**

13:25 **Closing remarks from the Chairman**

13:30 **End of Conference | Lunch and Poster Presentations | One-to-One Networking Meetings**