

Lytix Biopharma Arctic mini seminar, March 2nd 2015

Lytix Biopharma – cancer immunotherapy focused

Lead Product

LTX-315, currently in Ph I/IIa - cancer immunotherapy with a unique and differentiated mode of action

Evidence

Compelling pre-clinical data and promising clinical Phase I data -Indicating high potential first-in-class cancer immunotherapy

Market

"Pan-tumor" potential for transdermally accessible cancers: Melanoma, Breast Cancer, Soft Tissue Sarcoma, Head & Neck

Strategy

Identify and develop new innovative cancer immunotherapies Partnership for late stage development and commercialization

Team

Extensive experience from drug and business development and commercialization of cancer products



Cancer immunotherapy market – 35bn USD potential in 2022

- <3% of treatments today, estimated to reach up to 60% by 2022
- Immune checkpoint inhibitors first to market
- Premium pricing
- Future treatment regimes will consist of various combinations of and with checkpoint inhibitors



Source: Citigroup research

¹ Barclays Capital Inc., Butler, 22 Jan, 2014

² Leerink Swann LLC Equity Research, "Immuno-Oncology: The Future of Cancer Treatment is Now", S Fernandez et al, 5 Nov, 2013; reconfirmed on 16 Dec, 2013

³ BMO Capital Markets Corp., Arfaei, 9 Feb, 2014

4 Citi Research, a division of Citigroup Global Markets Inc., "Immunotherapy - The Beginning of the End for Cancer", A Baum, 22 May 2013; reconfirmed on 21 Nov, 2013

Cancer immunotherapy treatment

- Turning cancer into a controllable disease





The unique mechanism of action of LTX-315

• Video not available online



Effect on injected and non-injected lesions



LTX-315 induces systemic tumor specific immune responses



LTX-315 induces tumor specific immune response in cancer patients





Baseline

After treatment

Complete or partial regression of injected lesions



Before: Few CD8⁺ T-cells



After treatment: Increase of CD8⁺ T-cells

Infiltration of Cytotoxic CD8⁺ T-cells in injected lesions

LTX-315 has a predictable and mild safety profile



LTX-315 demonstrate strong synergy in combination therapy

Checkpoint inhibitors and LTX-315

Chemotherapy and LTX-315





Cancer immunotherapy combinations – future standard practice





First LTX-315 indication: melanoma





LTX-315 in neo-adjuvant therapy

Intralesional treatment with LTX-315 before surgery





 No tumor growth in animals when tumors were removed by surgery after LTX-315 treatment

- Neo-adjuvant is an opportunity:
 - Reduced risk of metastasis after surgery
 - Large market potential
- Potential tumor types:
 - Melanoma, Breast cancer, Sarcoma, Head & Neck

Source: Dag Pål Line, Rikshospitalet, oral presentation AASLD 2013



LTX-315 – summary





Product candidates and pipeline

PROJECTS		RESEARCH & DISCOVERY	PRECLINICAL	PHASE I	PHASE II	PHASE III
Intratumoral treatment	LTX-315 Monotherapy LTX-315 Combination therapy* 2nd Generation Oncolytic Molecules					
Novel compounds						
Topical treatment LTX-109	Impetigo Nasal decolonisation Diabetic foot ulcers					•

* with Checkpoint Inhibitors and chemotherapy



LTX-109

Key features

- Topical antimicrobial
 - Novel mode of action
 - Broad spectrum of activity
 - Low propensity for resistance
 - Safety advantages vs systemic antibiotics
- Efficacy demonstrated in Impetigo and Nasal Decolonisation

Commercial opportunity

- Mildly infected Diabetic Foot Ulcer
 - High clinical unmet need
 - No topical antibiotic approved
 - Growing concern for antibiotic resistance
- 1.5 million cases DFI annually in US/EU
- 250-500m USD market potential
- Phase I/II Eurostar supported study, first patient in 2Q 2015

LTX-109 is a promising asset that will be out-licensed or divested



Intellectual property rights

- Strong patent strategy
 - ✓ 12 patent families
 - ✓ 31 patents approved
 - ✓ ~80 patents pending
- Patent coverage
 - ✓ Technology platform
 - ✓ Methode
 - ✓ Active ingredients priority date 2007-2009
 - ✓ Additional functions
- The patent base allows new product candidates



Major markets covered



Management



Unni Hjelmaas – CEO

- Extensive pharma industry senior leadership experience, national and international oncology strategy, marketing and life cycle management experience former General Manager for Roche Norway
- Member of the Board of the Norwegian Pharma Industry Association and member of the board of Oslo Cancer Cluster



John S. Svendsen, PhD – Co-founder and Head of Exploratory Research

- Extensive research experience, and professor of organic chemistry at the University of Tromsø
- Visiting scientist at several distinguished international institutions, including the laboratory of Professor K.B. Sharpless (Nobel Laureate, Chemistry, 2000) at MIT



Øystein Rekdal, PhD – Co-founder and CSO Oncology

- Former CEO of Lytix Biopharma (from establishment in 2003)
- Extensive research background, and professor in the Medical Biochemistry Department in the Faculty of Medicine at the University of Tromsø



Wenche Marie Olsen, DrPhilos – COO

- Extensive senior leadership experience within research, development and management of new drug products in pharmaceutical and biotech industry
- Former CEO of Lauras, various positions in Nycomed/GE Healthcare



Håkan Wickholm – Head of Business Development and Commercialisation

- Extensive senior management and leadership experience from AstraZeneca
- Experience from both sell- and buy-side, from search, through assessments, evaluations, due diligence and negotiations to closure of deals



Andrew Saunders – CMO

- Extensive experience in all aspects and phases of heamato-oncology drug development from both clinical practice and industry
- Prior to Lytix extensive clinical development experience from Lilly, Roche and Bioenvision. Founder of Linden Oncology, consultancy providing strategic and clinical development oncology expertise to biotech and pharmaceutical companies globally



Advisors, collaborators and clinical investigators





2015 Financials – LTX-315 focused



Expected net burn rate (after cash impact of public grants) in 2015: 5,5m NOK per month.



Past and future milestones



Lytix Biopharma 🔀

Summary

Cancer immunotherapy

- Paradigm shift in cancer treatment
- 35bn USD potential in 2022
- LTX-315
 - Cancer immunotherapy with a unique and differentiated MoA
 - Potential to **improve efficacy** of checkpoint inhibitors and other cancer treatments
 - «Pan-tumor» potential for transdermally accessible tumors
 - Compelling pre-clinical data and **promising Phase I data**

Experienced and strong management team

Lytix is well positioned to make a difference for cancer patients through its unique and novel approach to cancer immunotherapy



