

# WPD Pharmaceuticals

APRIL 2021 | INVESTOR PRESENTATION

CSE:WBIO

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### **Company Overview**



WPD Pharmaceuticals is a diverse biotech company with 10 novel drug candidates, including 4 in clinical development stage. Licensed drug candidates were discovered and studied at premier USA research institutions, such as: MD Anderson Cancer Center, Mayo Clinic, Emory University, Wake Forest Comprehensive Cancer Center and leading Institutes, hospitals and academic centers in Poland.

#### Funding

Alongside total of \$100 million USD have been applied by licensors to WPD's drug development pipeline with focus on antiviral drugs and anticancer drugs targeting, among others, primary and metastatic brain cancers \$14 million USD in grants was recently awarded to WPD from the National Center for Research and Development in Poland (NCBiR) for preclinical and clinical development of drugs targeting highly resistant cancers.

#### Position

With a groundswell of grant support and a diverse portfolio of breakthrough drug technologies, WPD is strategically positions itself in two ways: (1) as drug developer and (2) as development partner for non-European pharmaceuticals companies.











# **Investment Highlights**

Experienced Management & Advisors	Pobust Drug Portfolio	Stratogic Barthorships	
Team of ecientists with outprove		Strategic Partnersnips	
pharmaceutical experience	indications Wake Forest University Health Scient Moleculin Biotech Inc. and CNS Pharmaceuticals, Inc.		
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Rapidly Growing Operations	C Tightly Held Share Structure	Attractive Valuation	





WPD Pharmaceuticals

# WPD Pharmaceuticals

#### **TEAM** | WPDPHARMACEUTICALS.COM | 6



#### MARIUSZ OLEJNICZAK

#### CEO & CO-FOUNDER

Experienced professional in clinical development - from planning and sci- entific advice through supervision to the closure and finalization of the project.

Founder of several start-ups and member of the board and supervisory board of R&D companies.

Co-responsible for the acquisition of Bioscience SA. (CRO operating in Poland) by the Neuca group.



### MAREK SIPOWICZ

20 years of experience in clinical re- search in oncology (haematology and solid tumours), neuropsychiatry, diabetes and cardiovascular fields.

20 years in Director level roles at Ser- vier, an international pharmaceutical company headquartered in France. During his time at Servier, Marek served as Director, Clinical Opera- tions (Oncology) in France, and Direc- tor, Clinical Research in Australia.



#### MIKE MALANA

CMO

15 years experience as CFO, Corporate Controller and/or Corporate Secretary for a range of Canadian public companies listed on the TSX, TSXV and CSE.



#### **BEATA PAJĄK**

CSO

PhD in biotechnology with experience in the field of medical biology, including: oncology, virology.

Expert in the field of signal pathways, mechanisms of programmed cell death, chemo- and immuno-resistance of cancer cells.



#### AGNIESZKA BUCZYŃSKA

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Biologist experienced in medical biology, immunology, and cardiovascular medicine. Investigator in several research projects.

Team member in several clinical trial phase I-III as in such fields as oncology, rheumatology, cardiology, urology, diabetes, psychiatry, and vascular surgery.

Author and co-author of scientific pub- lications and conference reports.

# WPD Pharmaceuticals

#### **BOARD OF DIRECTORS** | WPDPHARMACEUTICALS.COM | 7



#### WALTER KLEMP

#### BOARD MEMBER

Mr. Klemp has 29 years of experience in start-up and high-growth compa- nies, the past nine of which have been spent developing FDAapproved der- matology therapy devices and topical compounds.





### PETER NOVAK

Mr. Novak is 30-year veteran of the in- surance and financial services indus- try, he is currently the General Agent of one of Mass Mutual's largest agen- cies with \$4.8 billion in assets under management.



#### LIAM CORCORAN BOARD MEMBER, CANADIAN VICE PRESIDENT OF LEGAL, CORPORATE SECRETARY

Partner of multi disciplinary legal practice with an emphasis on property insurance and related litigation.

Formerly an associate at large Van- couver based law firm.

Juris Doctor from Thompson Rivers University Law School in 2014 and holds an undergraduate degree from McGill University.



#### TERESA RZEPCZYK

BOARD MEMBER

15 years of experience working with junior resources companies, with particular focus on accounting and finance.

Ms. Rzepczyk has experience as Con-troller of First Merit Group and is the former Chief Financial Officer and for-mer Director of Cannex Capital Hold- ings Inc. (formerly, Arco Resources Corp.).

Ms. Rzepczyk is also fluent in Polish, which will assist the Company in its integration of WPD's business.

### **Scientific Advisory Board**



Dr. Waldemar **Priebe** FOUNDER CHAIRMAN OF SCIENTIFIC ADVISORY BOARD

Dr. Waldemar Priebe, Ph.D., is a **world renowned medicinal chemist and entrepreneur.** Dr. Priebe is a **Professor of Medicinal Chemistry** in the Department of Experimental Therapeutics at MD Anderson Cancer Center, Houston, TX.

Dr. Priebe is the **inventor of more than 50 patents**, the **author of more than 200** scientific publications, and discoverer of five drugs that have reached clinical studies in humans.

As the **founder or founding scientist of 6 pharmaceutical companies**, including three listed on Nasdaq, Dr. Priebe has been integral in advancing multiple drugs through the preclinical pipeline and clinical development.

Dr. Priebe was **one of the founding scientists of Reata Pharmaceuticals**, which has grown into a \$5.5 Billion, Nasdaq listed, pharmaceutical powerhouse.



Dr. Sigmund **Hsu** Scientific advisory board member



Dr. Donald **Picker** SCIENTIFIC ADVISORY BOARD MEMBER

### Dr. Sandra L. **Silberman** SCIENTIFIC ADVISORY BOARD MEMBER





	Discovery	Pre-Clinical	Regulatory	Clinical I / II
Brain Cancers		WPD101		Berubicin
				WP1066
Pancreatic Cancers		WPD1122	WP1066	
		WPD1234		
Other Cancers	WPD103			Annamycin
				WPD1220
Melanoma	WPD102			
		I CSE:WBIO		



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### **Berubicin - Indications to Treat Glioblastoma**

#### **OVERVIEW**

A new anthracycline proven to be able to reach brain tumors by crossing the blood brain barrier (BBB) and developed in the treatment of glioma.

#### **STRATEGY**

Phase I clinical studies showed promising therapeutic effects in the GBM patients with one complete response. These properties allow to consider BER as candidate for pediatric therapy when long-term effects of chemotherapeutic agents are of key importance.

#### **CLINICAL DEVELOPMENT**

- WPD Pharmaceuticals conducts research related to the development of the WPD104 molecule berubicin, as a novel drug in glioblastoma multiforme (GBM) therapy for children and adult patients.
- Within the next 3 months WPD plans to start the Phase I/II clinical trials, including the FIH trial with pediatric patients.

#### FUNDING

- WPD has been awarded a grant from the European Union's Regional Development Fund ("EURDF") under the Smart Growth Operational Program 2014-2020.
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### WPD101 - Indications to Treat Brain Cancers, including Glioblastoma

#### **OVERVIEW**

Interluekin-13 receptor alpha 2 (IL13RA2) is a glioblastoma receptor overexpressed in >75% of GBMs and reported in >50% of GBM cases. EphA2 is cancerspecific receptor recognized by ephrin A1 cytokine. Its overexpression is also a hallmark of GBM cells, thus EphA2 receptors are proposed targets. It is assumed that > 90% of GBM overexpressed at least of the receptors.

#### STRATEGY

- The drug solution is based on the GBM targeted therapy against IL-13RA2 and EphA2.
- WPD101 is a unique drug cocktail composed of two immunotoxins targeting simultaneously IL-13RA2 and EphA2 receptors. This strategy guarantees specific drug administration to the majority of GBM cells.

#### **CLINICAL DEVELOPMENT**

The drug is currently in the advanced preclinical stage of development. Its consistent anticancer properties are demonstrated and validated in dogs with spontaneous GBM closely resembling GBM in human patients. Results indicate significant potential of WPD101, demonstrating the same effective treatment of GBM in humans.

#### FUNDING

• WPD has been awarded a grant from the European Union's Regional Development Fund ("EURDF") under the Smart Growth Operational Program 2014-2020.

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### WP1122 - Indications to Treat SARS-CoV-2 Infection

#### **OVERVIEW**

**SARS-CoV-2 upregulates glycolysis process** in infected cells to generate ATP necessary for fast virus replication, therefore **inhibition of glycolysis could be an effective antiviral strategy.** 2-deoxy-D-glucose (2-DG) is a synthetic analogue of glucose that causes depletion of ATP as well as of glucose derivatives required for protein glycosylation. Recent **results indicate that 2-DG inhibits SARS-CoV-2 replication**.

#### **STRATEGY**

WP1122 is a 2-DG derivative that enables achievement of high concentration of 2-DG inside cells and effective inhibition of glycolysis.

#### **CLINICAL DEVELOPMENT**

- Results showed that **WP1122 generates significantly higher amount of 2-DG in plasma and organs than 2-DG alone**. Animal studies with WP1122 do not indicate a potential for side effects.
- Preliminary results confirmed antiviral WP1122 activity against SARS-CoV-2.
- Scientific advice at European Medicines Agency in progress.

#### PARTNERS

WPD will collaborate with Moleculin on the development.



### Annamycin - Indications to treat AML, metastasis to lungs

#### **OVERVIEW**

A derivative of doxorubicin, which facilitates the rapid penetration of the drug and the effective delivery of Annamycin to cancer cells, effectively limiting adverse effects on myocardial cells.

#### STRATEGY

*In vitro* and *in vivo* preclinical studies have shown high cytotoxicity of Annamycin against many cancer types: breast, cervix, melanoma, acute myeloid leukemia (AML).

#### **CLINICAL DEVELOPMENT**

- The drug has been tested in 6 prior clinical trials on 114 patients. Low incidence of side effects, especially cardiotoxicity, is observed with L-ANN (Annamycin liposomal formulation) administration. This is a unique feature among anthracyclines.
- The drug is in the Phase I trial for AML in both Poland and the USA. It is reported in dose escalation studies evaluating safety and activity.

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### **Other drug candidates – current status**

#### WP1066

In the Phase I trial at MD Anderson Cancer Center for GBM and melanoma metastasized to the brain, in the third cohort of dose escalation evaluating safety and activity. WPD plans surgical expansion to assess tumor tissue directly after administration of WP1066 at the maximum tolerated dose (MTD) for direct confirmation of target inhibition.

#### WP1220

The first pSTAT3-targeted drug used in monotherapy of Cutaneous T-cell Lymphoma (CTCL). In February 2020, data form the Phase I clinical study in Poland was released. Evidence of decreased scores for most patients based on standard guidelines performed by a dermatologist and verified by dermatologist, confirmed remissions for patients in stages I-II. No major toxicities were associated with WP1220. Planned Phase II study for evaluation of larger patient population with longer treatment.

#### WPD102 family

Targeted therapy against IL-13RA2 by genetically modified IL-13 conjugated to a cytotoxic load ("Warhead"). In development.

#### WPD103 family

Radiopharmaceuticals based on the expression of tumor-specific receptors, such as IL-13RA2 and EphA2, which are not detected in normal cells, which express mainly IL-13RA1 and Eph-RA1 proteins. In development.



## **Corporate Overview**

WPD Pharmaceuticals Inc.	Capital Structure
	Issued and Outstanding
CSE: WBIO	Warrants
	Fully Diluted
	Management and Insider holdings



111,520,388

3,949,997

115,470,385

36%



# Contact us for more details

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## Appendix / References:

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