



ONCONOVA
THERAPEUTICS

Corporate Update

July 2017 | Nasdaq: ONTX

FORWARD LOOKING STATEMENTS

This presentation contains forward-looking statements about Onconova Therapeutics, Inc. based on management's current expectations which are subject to known and unknown uncertainties and risks. Onconova has attempted to identify forward-looking statements by terminology including "believes," "estimates," "anticipates," "expects," "plans," "intends," "may," "could," "might," "should," "approximately" or other words that convey uncertainty of future events or outcomes. Our actual results could differ materially from those discussed due to a number of factors, including, but not limited to, our ability to raise additional financing on favorable terms, the success of our clinical trials and our ability to obtain regulatory approvals and other risk factors outlined in our annual and quarterly reports filed with the Securities and Exchange Commission. We are providing this information as of the date of this presentation and do not undertake any obligation to update any forward-looking statements, whether written or oral, that may be made from time to time, as a result of new information, future events or otherwise except as required by law.



ONCONOVA AT A GLANCE

- Founded-1998; IPO in 2013 (Nasdaq: ONTX)
- Lead clinical candidate: rigosertib
 - Targets RAS effector pathways (Cell, 2016)
 - Two formulations (IV & Oral)
 - Focused on Myelodysplastic Syndromes (MDS)
 - 1,200+ patients treated in clinical trials for MDS and other conditions
- Broad pipeline with several pre-clinical stage drug candidates
- Partnership Since 2011 with Symbio in Japan and Korea
 - Additional partnerships sought

Key milestones upcoming in H2-2017 and 2018

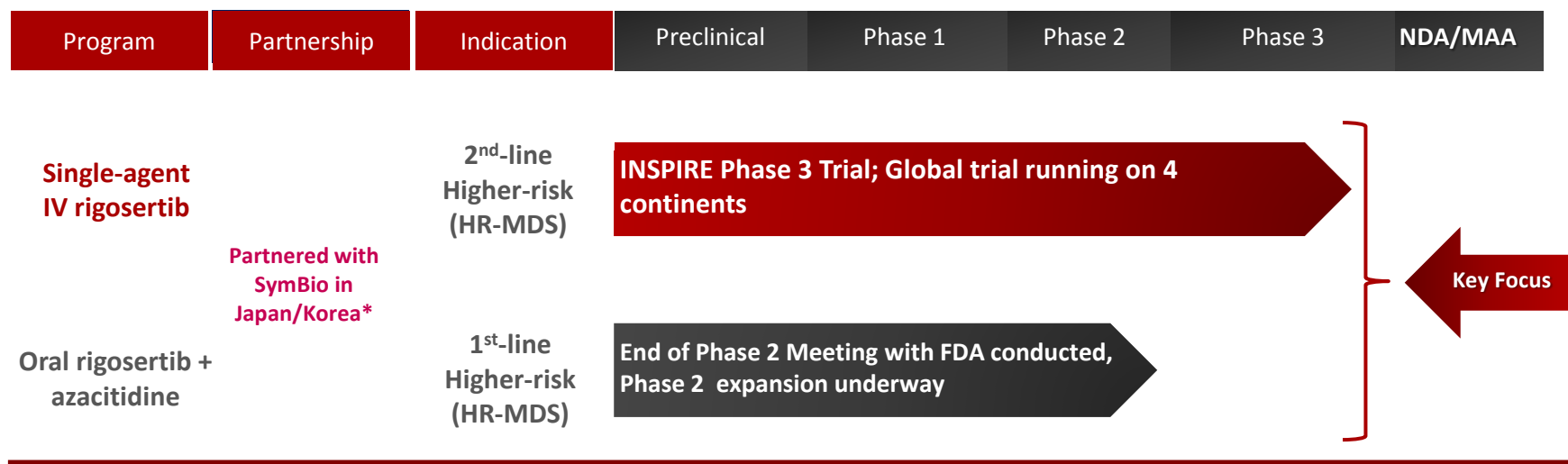


ONCONOVA HIGHLIGHTS

- Targeting underserved market in Myelodysplastic Syndromes (MDS)
 - >10,000 patients diagnosed annually in the U.S. with Higher-risk (HR) MDS
 - No new approved treatments in over 10 years
- Phase 3 Trial (INSPIRE) underway on 4 Continents for 2nd line HR-MDS
- Patents & Orphan Designation for MDS in the US, Europe and Japan
- Rigosertib partnered with SymBio in Japan/Korea
- Designing Phase 3 trial for Oral rigosertib + azacitidine combination
 - Targeting larger first-line patient population for higher risk MDS
- Funded to deliver key 2017 milestones
 - INSPIRE (IV) Phase 3 interim analysis 2017
 - Top-line Phase 3 data in 2018
- Pipeline assets beyond rigosertib available for partnerships



ONCONOVA MDS PIPELINE

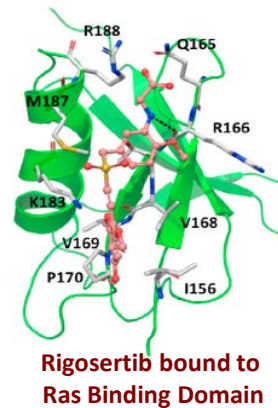
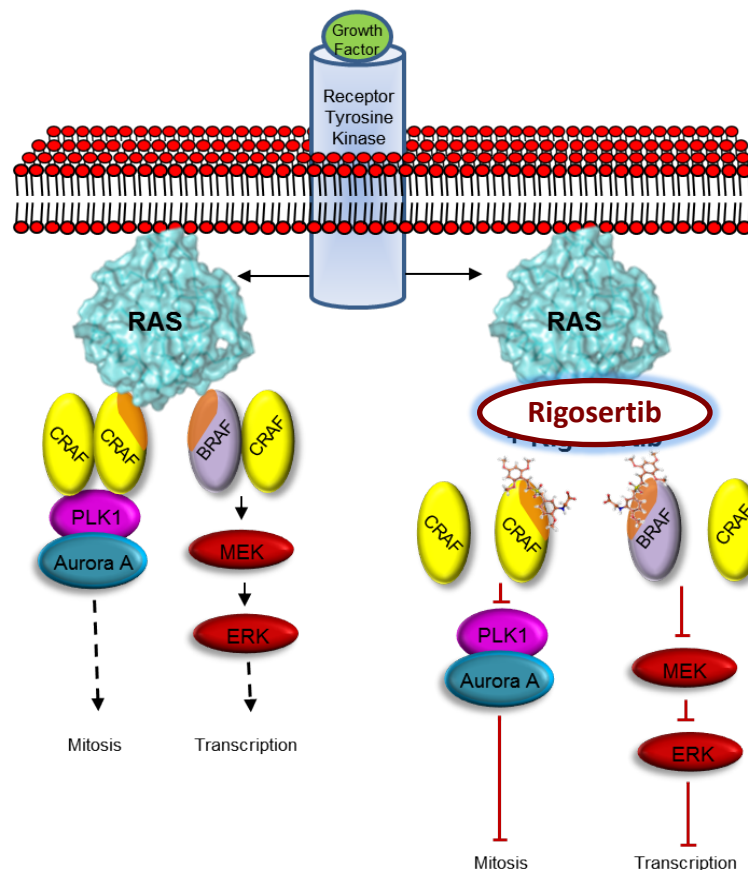
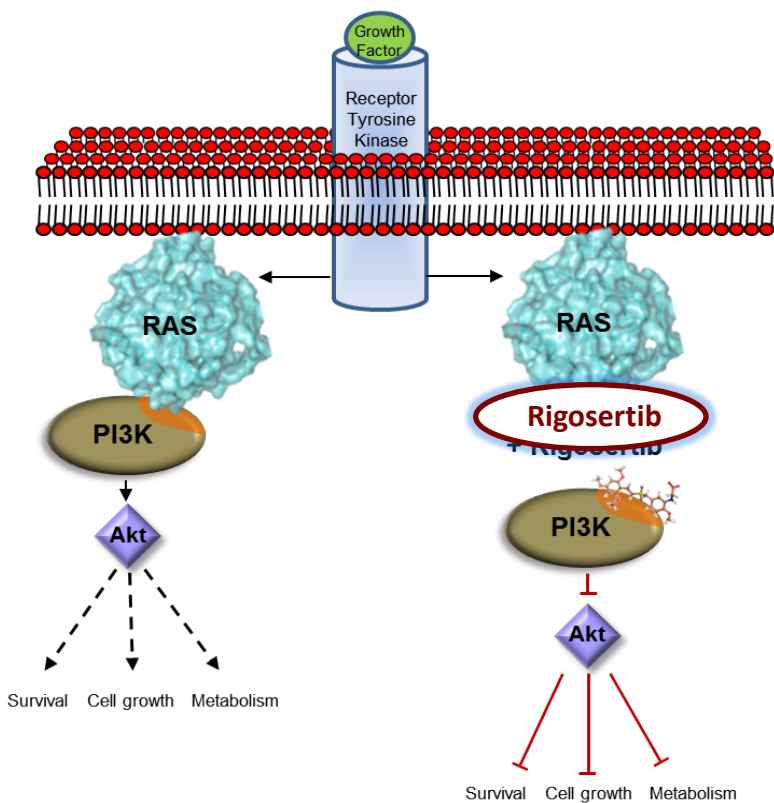


- More than 700 MDS patients have been treated in rigosertib Phase 1-3 trials
 - IV and Oral rigosertib, plus oral rigosertib combination with azacitidine
- Includes, in addition to Higher Risk MDS, Lower Risk, transfusion dependent patients
- New data on IV rigosertib:
 - Phase 2b 04-24 trial results presented at ASCO 2017
 - Interim analysis of INSPIRE study expected in H2-2017
 - Top-line analysis of INSPIRE in 2018



NOVEL MECHANISM OF ACTION

Rigosertib is believed to block downstream signaling by RAS effectors including PI3K and RAF by binding to Ras Binding Domain (RBD) found in many effector proteins

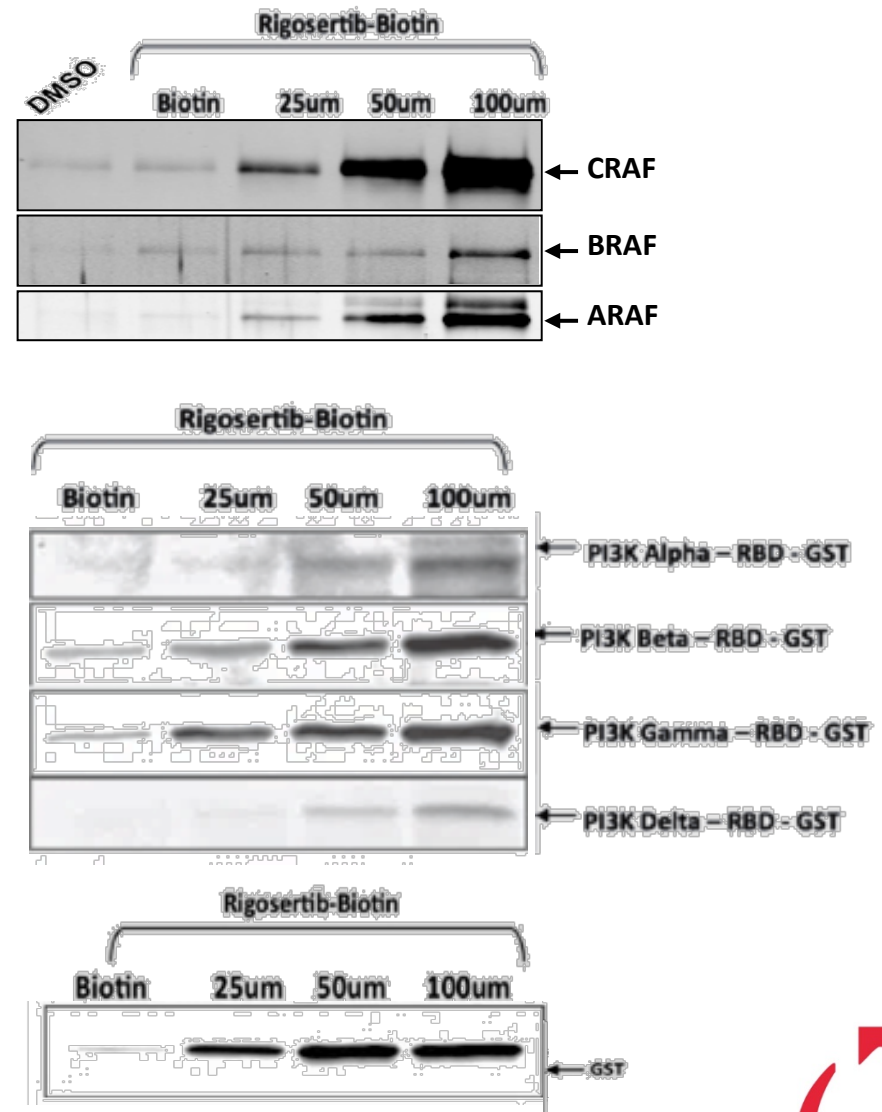
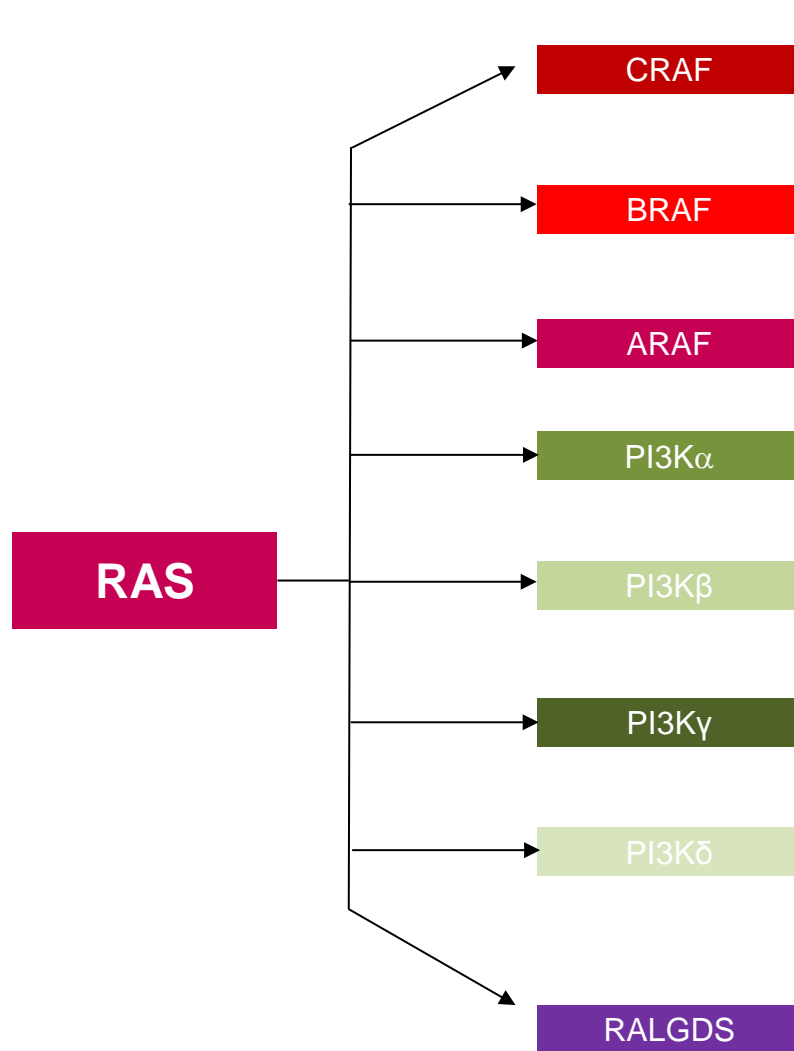


Rigosertib bound to Ras Binding Domain

Published in Cell, 2016

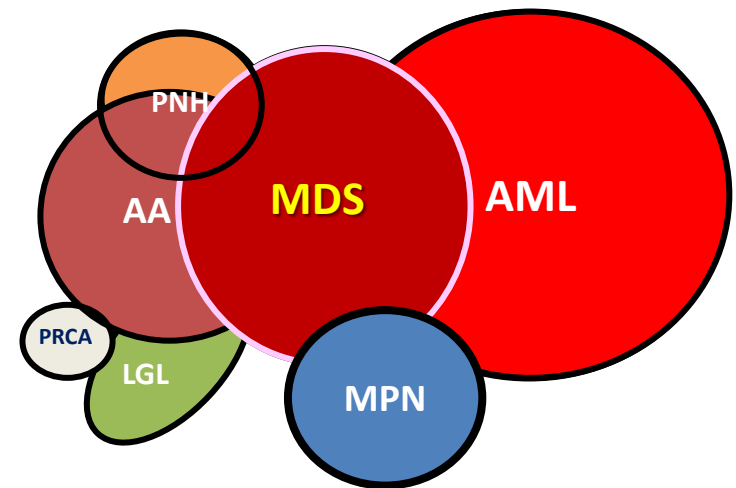


RIGOSERTIB BINDS TO MULTIPLE RAS EFFECTOR RAS BINDING DOMAINS



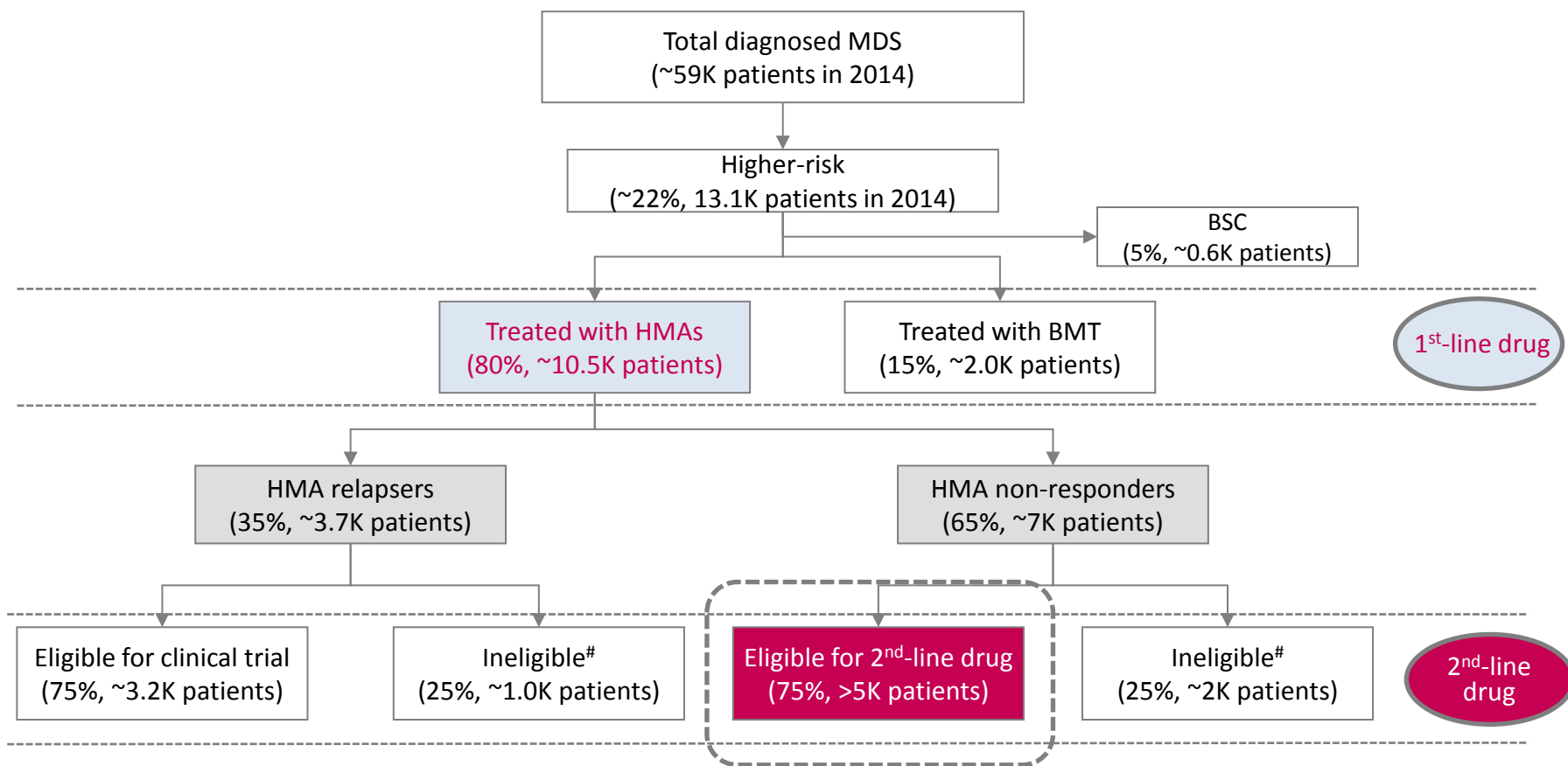
MDS OVERLAPS WITH OTHER DISEASES

- MDS, a malignant hematopoietic stem cell disorder characterized by:^[1]
 - Bone marrow failure
 - Cytopenias
 - 30% of patients progress to AML
- US prevalence estimate is 59,000
 - 18,000 have higher risk MDS
- Treatment options limited to hypomethylating agents (HMAs)
 - Vidaza (Celgene); Dacogen (Eisai/J&J)
 - Both approved a decade ago



¹Young NS. Ann Intern Med. 2002;136:534-546.

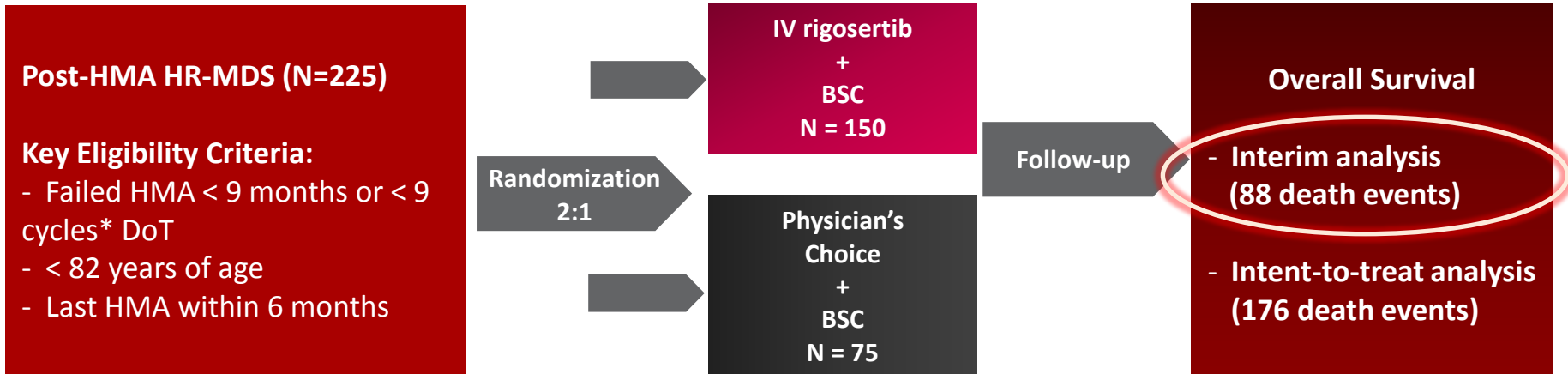
RIGOSERTIB IN HIGHER-RISK MDS



- Rigosertib is being developed for 2nd-line patients (INSPIRE Phase 3 trial)
- And for 1st-line patients, in combination with Azacitidine, the current standard of care



INSPIRE: GLOBAL PHASE 3 TRIAL



*9 cycles within 12 months of starting treatment

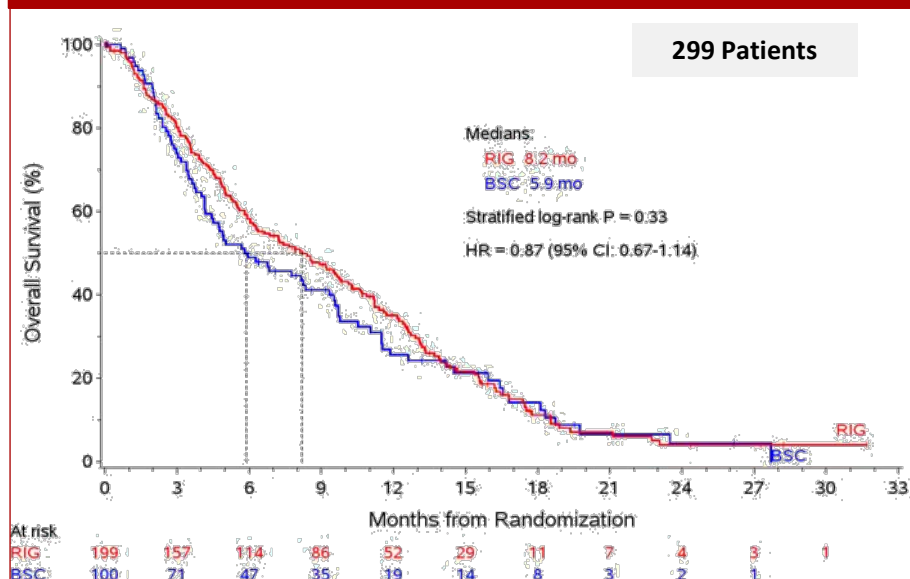
*Commentary on new trial in recent publication: Emilio P Alessandrino, Matteo G Della Porta. Novel trial designs for high-risk myelodysplastic syndromes; **The Lancet Oncology** 2016 (17): 410–412*



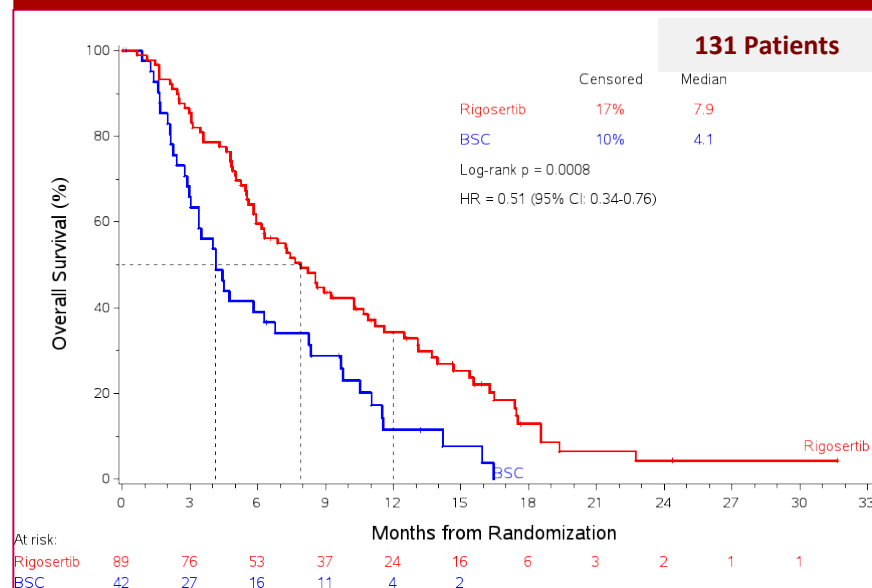
PATIENT POPULATION FOR PHASE 3 INSPIRE TRIAL

Data from ONTIME paper* published in *Lancet Oncology*

ITT for ONTIME Trial



Subpopulation for INSPIRE Trial (ONTIME subset)



ITT OS analysis of ONTIME – HR= 0.87; NS survival benefit

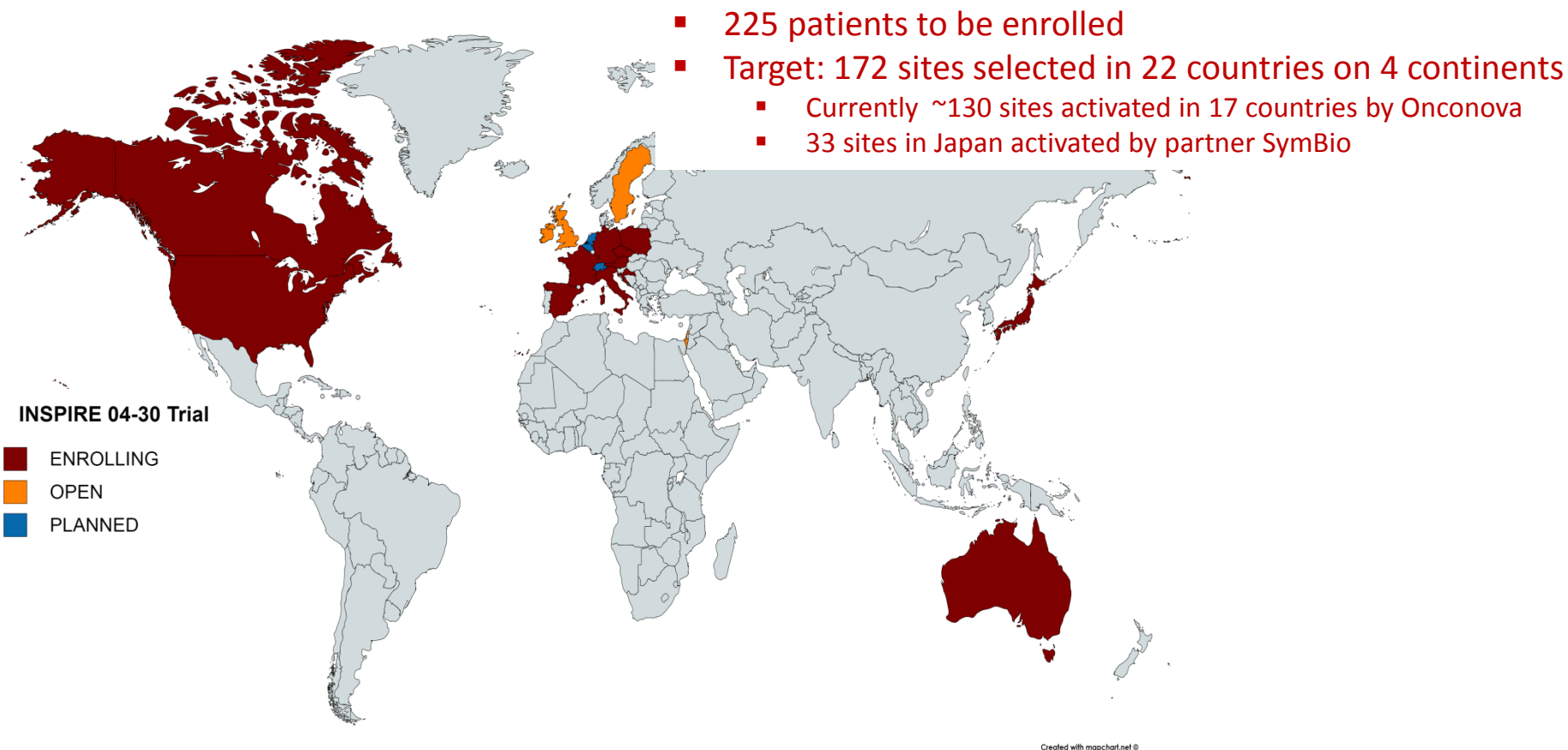
ITT OS of proposed INSPIRE population – HR = 0.51; P = 0.0008

*Guillermo Garcia-Manero, Pierre Fenaux, Aref Al-Kali, Maria R Baer, Mikkael A Sekeres, Gail J Roboz, et al. Rigosertib versus best supportive care for patients with higher-risk myelodysplastic syndromes after failure of hypomethylating drugs (ONTIME): a randomised, controlled, Phase 3 trial; *The Lancet Oncology* 2016 (17): 496–508



GLOBAL INSPIRE TRIAL PROGRESS

The **I**nternational **S**tudy of **P**hase III **I**V **R**igos**E**rtib, or **INSPIRE**, designed following feedback from the U.S. Food and Drug Administration and European Medicines Agency and derives from findings of the ONTIME Phase 3 trial. Our partner SymBio is enrolling in Japan after discussions with the PMDA.



Latest guidance (May 15 earnings call):

- Interim analysis on track for H2-2017
- Enrollment rate indicating full accrual in Q1-2018
- Top-line analysis in 2018



INSPIRE: KEY OPINION LEADERS PARTICIPATING IN THE PHASE 3 TRIAL

ONTIME participants in red (highest accruing sites in bold)

Sites in Japan not included in this list

Sites in USA

- **Maria R. Baer, MD - University of Maryland Greenebaum Cancer Center, Baltimore**
- Robert H. Collins, Jr., MD, FACP - University of Texas Southwestern Medical Center, Dallas
- **Guillermo Garcia-Manero, MD - University of Texas MD Anderson Cancer Center, Houston***
- **Lucy Godley, MD, PhD - University of Chicago Comprehensive Cancer Center, Chicago**
- **Aref Al-Kali, MD – Mayo Clinic Rochester, Minnesota**
- **Gail J. Roboz, MD - Weill Medical College of Cornell University New York Presbyterian Hospital, New York**
- **Bart Scott, MD – Fred Hutch Cancer Center, Seattle, Washington**
- Jamile Shammo, MD - Rush University Medical Center, Chicago
- **Lewis R. Silverman, MD - Icahn School of Medicine at Mount Sinai, New York****
- Selina Luger, MD - University of Pennsylvania Cancer Center, Philadelphia
- Rafael Bejar, MD, PhD - Moores Cancer Center at the University of California, San Diego
- Christopher R. Cogle, MD - University of Florida Shands Hospital, Gainesville
- Azra Raza, MD - Columbia University Medical Center, New York

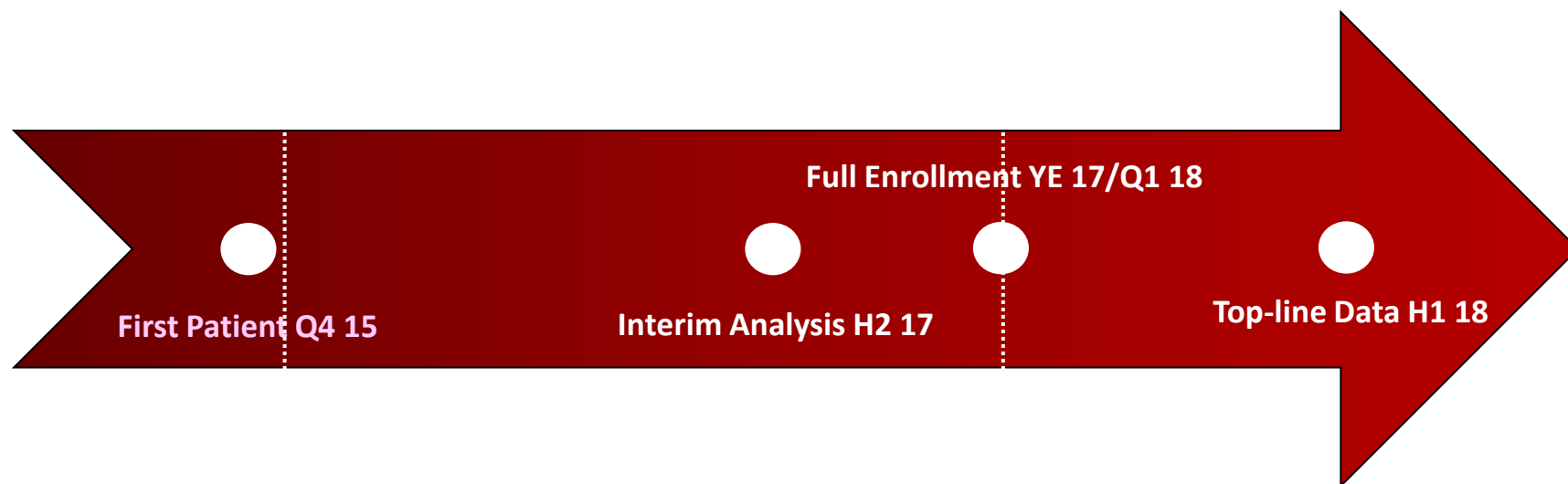
Sites in Europe, Israel and Australia

- **Pierre Fenaux, MD, PhD - Hôpital St Louis/ Université Paris, France**
- Norbert Vey, MD - Institut Paoli- Calmettes, Marseille, France
- Aristotle Giagounidis, MD, PhD - St. Johannes Hospital Heinrich-Heine Universität, Duisburg, Germany
- Detlef Haase, MD, PhD - Georg-August- Universität Göttingen, Göttingen, Germany
- **Uwe Platzbecker, MD - Universitätsklinikum Carl Gustav Carus, Dresden, Germany**
- Valeria Santini, MD - University of Florence Azienda OSP Careggi, Florence, Italy
- María Díez-Campelo, MD, PhD - Hospital Universitario de Salamanca, Salamanca, Spain
- Guillermo F. Sanz, MD - Hospital Universitario La Fe, Valencia, Spain
- Jaroslav Cermák, MD, PhD - Institute of Hematology and Blood Transfusion, Prague, Czech Republic
- Eva Hellstrom-Lindberg, MD, PhD - Karolinska Institutet, Karolinska, Sweden
- Ghulam J. Mufti, DM, FRCP, FRCPath - King's College London & King's College Hospital, London, UK
- Moshe Mittelman, MD - Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel
- Michael Pfeilstöcker, MD - Hanusch Hospital Medical Univ of Vienna, Vienna, Austria
- Jake Shortt, MD – Monash Health, Monash Medical Centre, Melbourne, Victoria, Australia
- Arjan A. van de Loosdrecht, MD, PhD - Vrije Universiteit Medical Center, Amsterdam, The Netherlands



First* & senior author in Lancet Oncology, 2016 paper on ONTIME results**

TIMELINES FOR DATA ANALYSIS FOR INSPIRE TRIAL

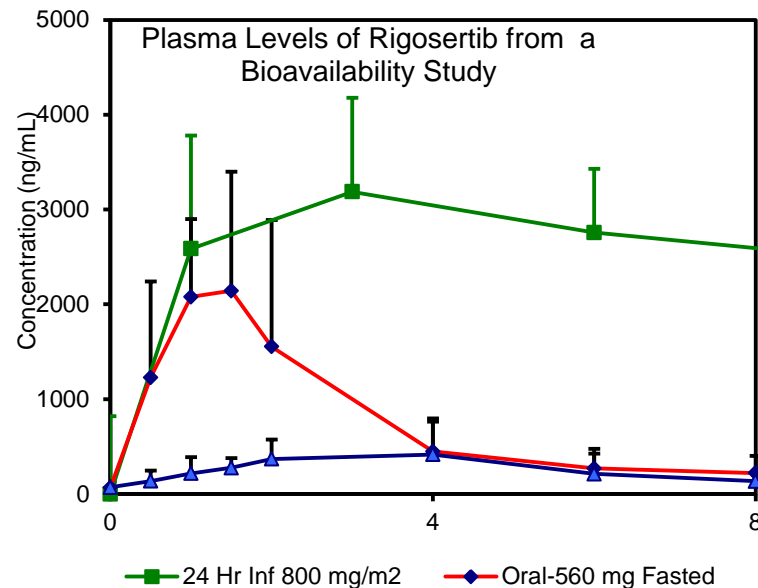


- Statistical analysis: two analyses planned
 - Power 0.80; Target HR < 0.625; (reduce mortality by > 37.5%)
 - α for ITT = 0.04; α for IPSS-R VHR = 0.01
 - Dual primary endpoints: Overall survival in ITT population or IPSS-R Very High Risk
- Exploratory genomic sequencing of patient samples



TWO RIGOSERTIB FORMULATIONS

- IV (Phase 3 INSPIRE ongoing)
 - Continuous infusion using a portable pump
 - >500 patients treated in trials
 - Lead indication 2nd-line HR-MDS
- Oral (Phase 2 enrolled)
 - Bioavailability ~35%
 - >200 patients treated
 - Combination with azacitidine for HR-MDS and AML



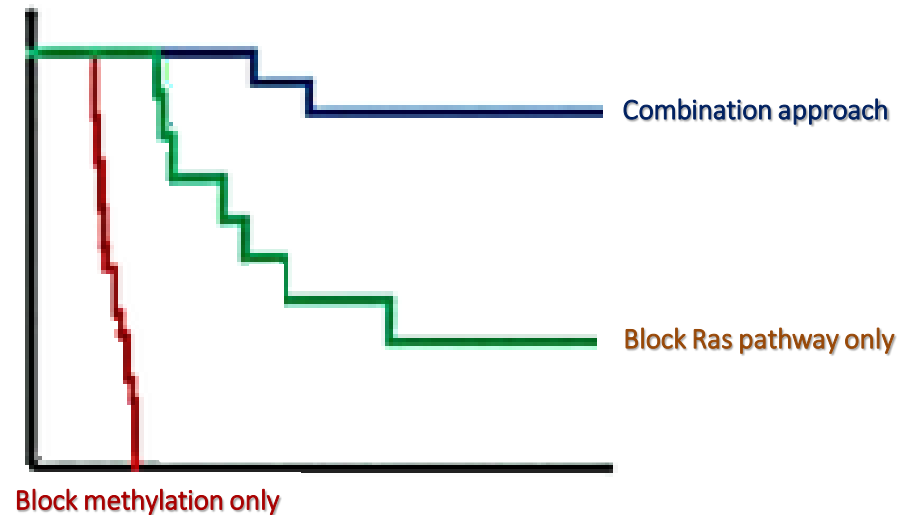
MECHANISTIC RATIONALE FOR COMBINATION THERAPY WITH RIGOSERTIB + AZACITIDINE

Preclinical evidence supports synergism of rigosertib + azacitidine combination

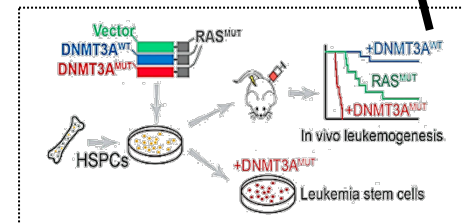
- Complexity of MDS
 - Defined by IPSS-R categories
 - Certain karyotypes
 - Different types of mutations
- DNA methylation changes
 - Addressed by HMA inhibitors
 - Early stage events
- Signal transduction changes
 - Later stage mutations
 - May be addressed by rigosertib
- Combination approach
 - Addresses more molecular defects
 - Potential for synergistic activity

AML Animal Model

Validation of combination approach



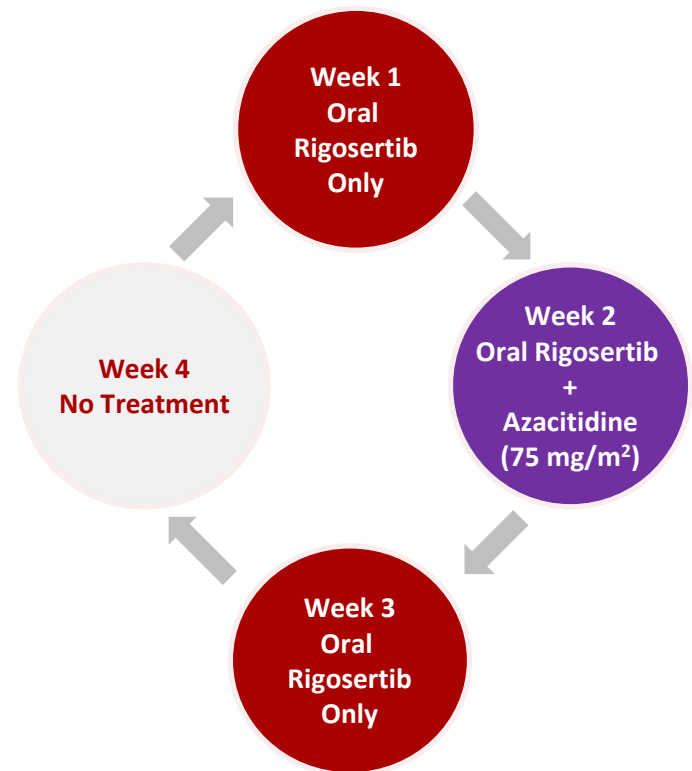
Lu et al., 2016 *Cancer Cell*



COMBINATION THERAPY PHASE 1/2 TRIALS

Oral Rigosertib + Azacitidine in MDS patients

- Included a diverse patient population including
 - HMA-naïve front-line patients
 - HMA pre-treated second-line patients
 - AML patients
- Phase 2 dose: 560 mg qAM, 280 mg qPM
 - Oral rigosertib twice daily on Day 1-21 (28-day cycle)
 - Azacitidine 75 mg/m²/day SC/IV for 7 days starting on Day 8
- Analysis:
 - CBC was performed weekly
 - Bone marrow aspirate and/or biopsy obtained
 - Baseline, on Day 29, and every 8 weeks thereafter



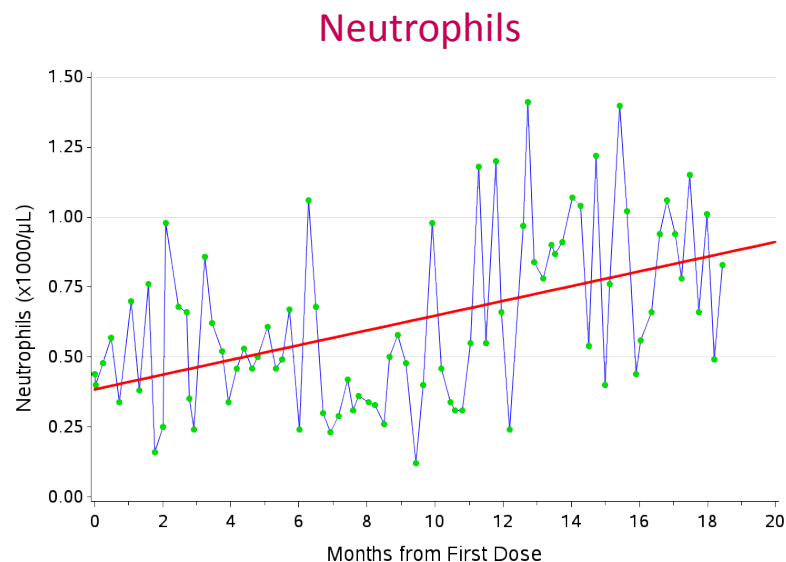
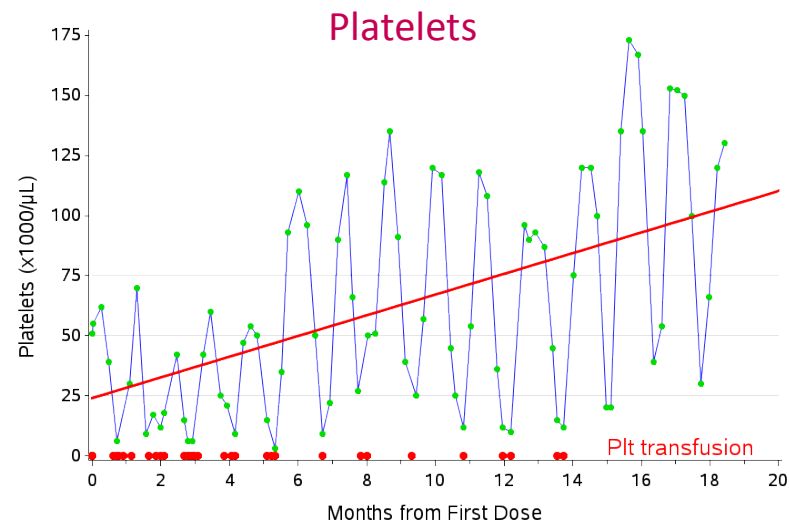
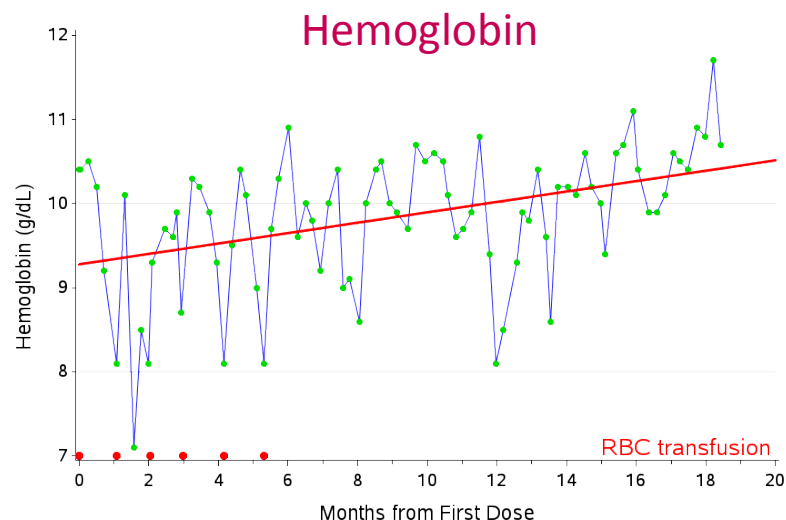
EFFICACY RESULTS FOR COMBINATION TRIAL

| Response Criteria | Response per IWG 2006 | | |
|--|-----------------------------|------------------------|-------------------------|
| | Overall evaluable (N=33) | No prior HMA (N=20) | HMA resistant (N=13) |
| Complete Remission* | 8 (24%) | 7 (35%) | 1 (8%) |
| Marrow CR + Hematologic Improvement (HI) | 10 (30%) | 6 (30%) | 4 (31%) |
| Marrow CR alone | 6 (18%) | 3 (15%) | 3 (23%) |
| Hematologic Improvement alone | 1 (3%) | 1 (5%) | 0 |
| Stable Disease | 8 (24%) | 3 (15%) | 5 (38%) |
| Overall IWG Response | 25 (76%) | 17 (85%) | 8 (62%) |
| Clinical Benefit Response | 19 (58%) | 14 (70%) | 5 (38%) |

*All responders had CR and no PR was noted in this study



HEMATOLOGY TRENDS FOR PATIENT 101-006



- 12 cycles of AZA – stable disease
- RBC and platelet transfusions
- Blasts 7%
- Monosomy 7
- Runx-1
- AZA + RIG in 09-08 for 20+ months
- Complete remission
- RBC transfusion independent
- <5% blasts
- PB CR criteria



KEY SAFETY DATA FROM RIGOSERTIB COMBINATION TRIAL (STUDY 09-08)

Azacitidine Package Insert¹

| Adverse Event | Grade ≥3 |
|------------------|----------|
| Haematuria | 2.3% |
| Anemia | 13.7% |
| Neutropenia | 61.1% |
| Thrombocytopenia | 58.3% |

Oral Rigosertib + Aza

| Adverse Event | Grade ≥3 |
|------------------|----------|
| Haematuria | 7.0% |
| Anemia | 0 |
| Neutropenia | 19.0% |
| Thrombocytopenia | 27.0% |

- Rigosertib + azacitidine generally well tolerated
 - 4/37 MDS patients withdrew due to AE
 - 2/37 MDS patients had dose reduction
- Safety profile of combination did not differ from reported toxicities of azacitidine alone

¹<http://www.vidaza.com/pi.pdf>



NEXT STEPS FOR RIGOSERTIB + AZACITIDINE DEVELOPMENT

Key Parameters and Milestones for Oral Rigosertib + Azacitidine Phase 3 Program

| | | |
|--------------------|-----------------------|---|
| Phase 3 Design | Randomized Controlled | 1:1 randomization between Aza + placebo and Aza + oral rigosertib |
| Patient Population | First-line MDS | Higher risk patients indicated for azacitidine (Vidaza) |
| Primary Endpoint | Composite Response | Complete and Partial Remission per IWG 2006 criteria for MDS |
| Regulatory Path | To be explored | Special Protocol Assessment (SPA), Fast-track etc. |
| Protocol Details | 2017 | After regulatory discussions are completed |

Current activities:

- Phase 2 trial expanded
 - Up to 40 more patients
 - Dose and schedule optimization
 - Gain additional efficacy data
- Phase 3 protocol synopsis created
- Scientific advice sought from EMA
- FDA Special Protocol Assessment process to start after completing EMA process
 - Expected to be completed in 2017



OVERVIEW OF SAFETY

- Over 1,180 patients treated with rigosertib in 27 Phase 1-3 trials
 - MDS/other hematologic malignancies (N = 672)
 - advanced cancer/solid tumors (N = 508) were treated in 27 Phase 1-3 clinical trials
- No treatment emergent myelosuppression, cardiotoxicity, or neurotoxicity
 - Minimal myelosuppression by rigosertib might represent a distinct advantage given the compromised bone marrow function of patients with MDS
- Generally, no need for premedication during the studies
- Potential safety signals are being monitored on an ongoing basis
- Next Investigator Brochure and Development Safety Update Report : July 2017



RIGOSERTIB IP SUMMARY

- Rigosertib (ON 01910.Na) covered by issued US and other patents
 - Earliest to expire composition claim valid until 2026
 - Potential for Hatch-Waxman extensions
 - Composition of rigosertib combination with azacitidine earliest expiry 2028
 - Single digit royalty to Temple University
- Orphan designation granted in US, Europe and Japan for rigosertib in MDS
- Efforts directed to obtaining additional coverage
 - Formulation patent filed as a provisional application
 - Potential to seek patent coverage for administration schedule, process etc.



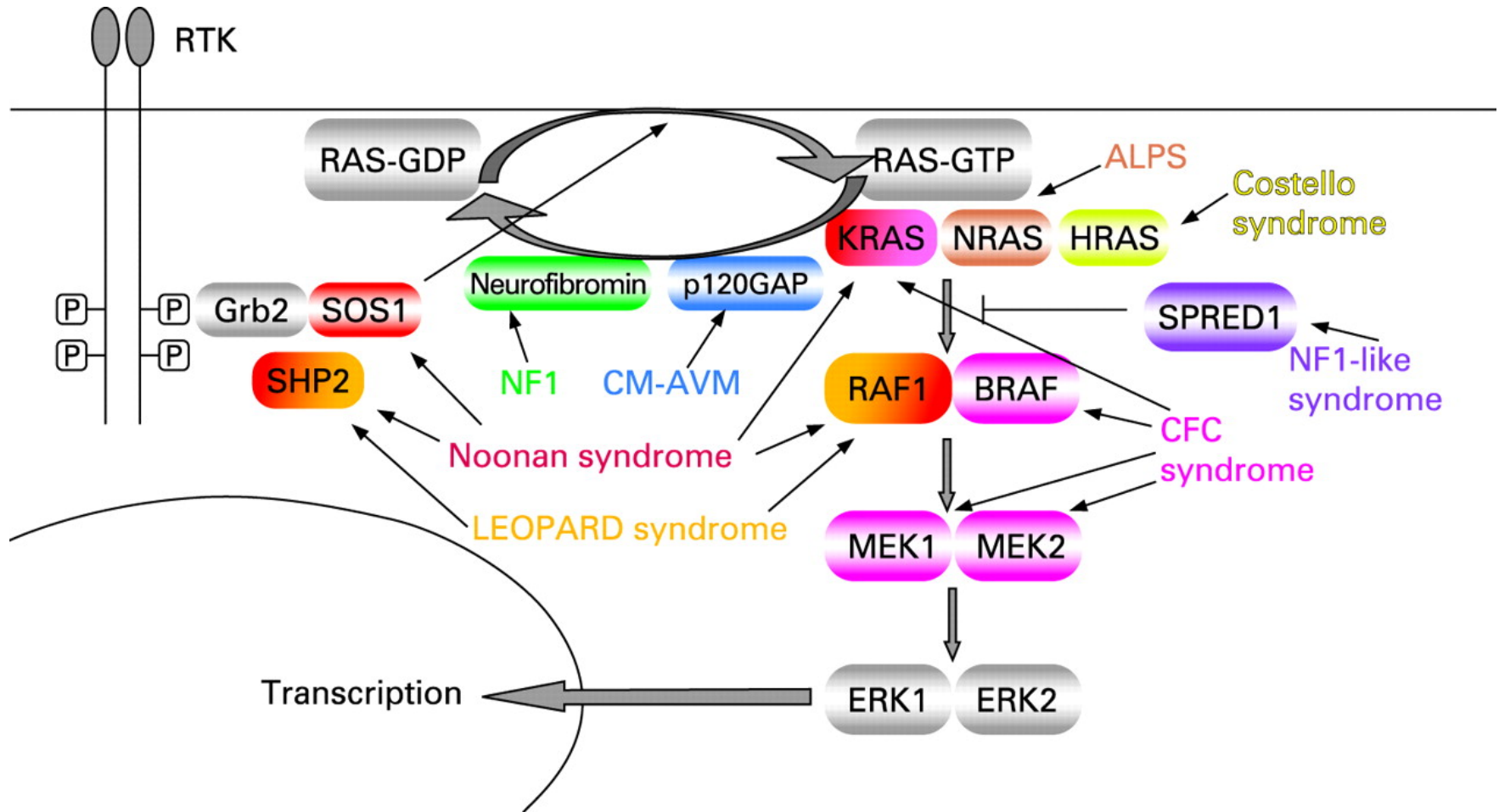
RIGOSERTIB IS PARTNERED IN JAPAN/KOREA SINCE 2011



Partnerships sought in other territories



RASOPATHIES: CAUSATIVE MUTATIONS NOT LIMITED TO RAS



ONCONOVA PRODUCT CANDIDATE PIPELINE

Not including Rigosertib

- Patent protected, differentiated small molecule compounds
- Partnerships sought for all programs

| Compound | Target | Stage | Next Step | Competition | Patents |
|--------------------|---------------------|--------------------|-------------------|--------------------|----------------------|
| Briciclib | eIF4E (Cyclin D) | Phase I* | Phase II Dose | 4EGI-1 | Issued US |
| Recilisib | GSK-3, Akt | Phase I | Primate efficacy | CBLB502 | Issued WW |
| ON 123300** | CDK4/6; ARK5 | Preclinical | Toxicology | Palbociclib | Issued US, EP |
| ON 150030** | FLT3 + Src | Pre-clinical | Animal studies | Dasatinib | In process |
| ON 1231320 | PLK2 | Formulation | Pre-IND | Volasertib | Issued |
| ON 108600 | CK2 | Formulation | Pre-IND | CX-4945 | Issued |
| ON 146040 | PI3K a/d | Pre-clinical | Toxicology | IPI-145 | In process |

**On hold, pending new drug product*

***New data presented at 2017 AACR conference*



MULTIPLE CDKS & CELL CYCLE INHIBITORS*

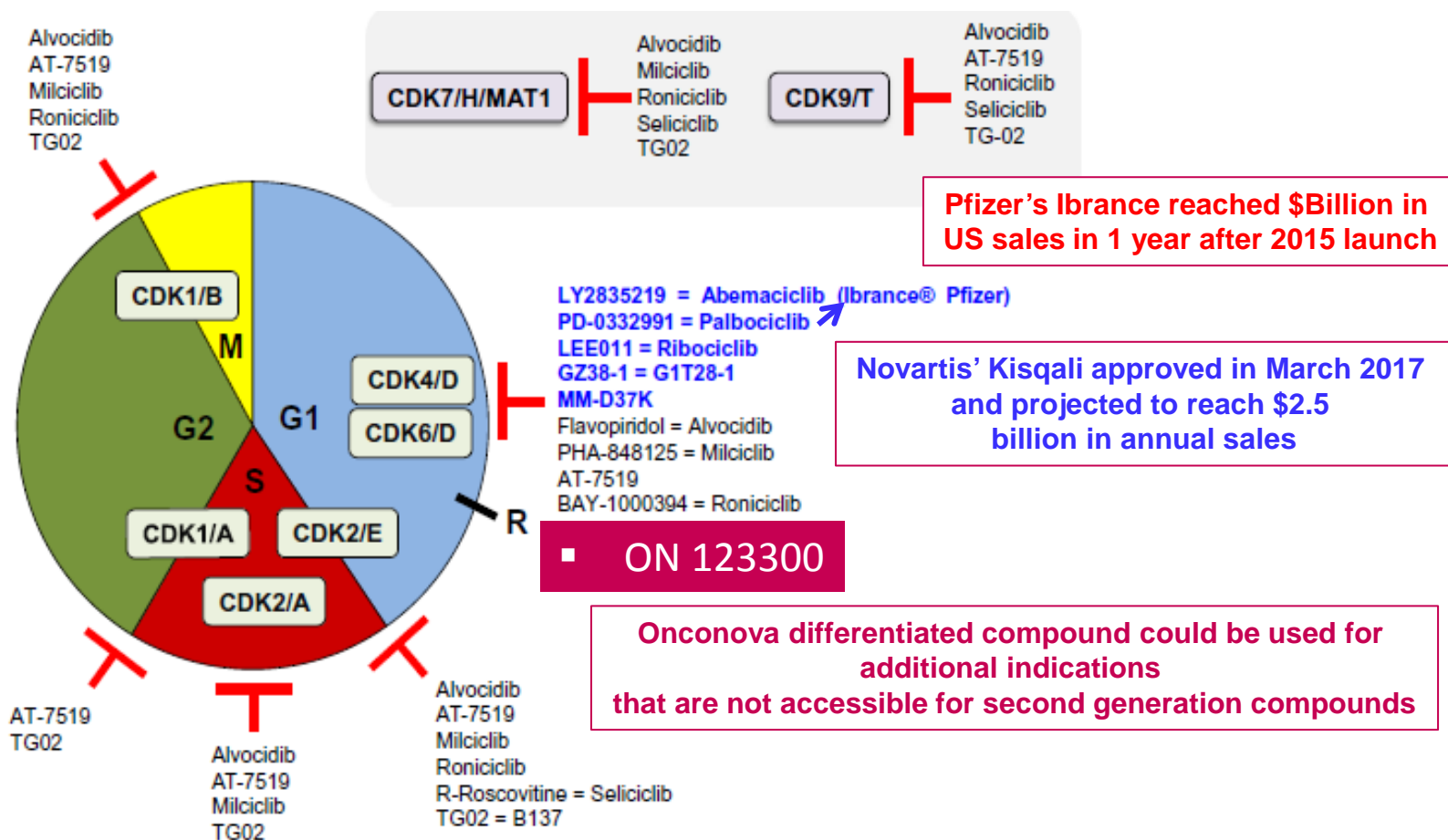
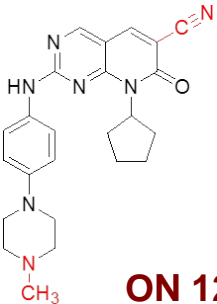
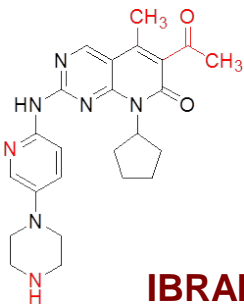


Figure 5. Cell cycle and transcription regulation CDK inhibitors under clinical evaluation. Specific CDK4 and CDK6 inhibitors are indicated in blue.



DIFFERENTIATED KINASE INHIBITION THROUGH TARGETING OF ARK5

| Comparison of Two Compounds in Reaction Biology Kinase Assays | | |
|---|---|--|
| |  ON 123300 |  IBRANCE® |
| Kinase | Comparative IC ₅₀ profile (nM) | |
| | ON 123300 | IBRANCE® |
| ARK5 | 4.95 | >5000 |
| CDK4/D1 | 3.87 | 5.36 |
| CDK6/D1 | 9.82 | 3.76 |

Reddy MVR et al., Journal of Medicinal Chemistry 2014 57 (3), 578-599



FINANCIAL DETAILS

Onconova founded in 1998; public since 2013

| | |
|--------------------------|--|
| Ticker | Nasdaq ONTX |
| Stock information | <ul style="list-style-type: none">▪ 9.9 million shares▪ Public float >84%▪ 52-week range \$1.85 - \$4.99▪ Average daily volume 114,000 |
| Ownership* | Tyndall, Tavistock, Sabby, Shire; insiders including management |
| Analyst coverage | Laidlaw, Maxim, LifeSci Advisors, Van Leeuwenhoeck Research (VLR), SeeThru Equity |
| Debt | \$0 |
| Liquidity | <ul style="list-style-type: none">▪ Cash and cash equivalents of \$15.4 million*▪ Funded to deliver key milestones in 2017 |
| Burn-rate | Average \$5.6 million per quarter over the last 4 quarters |
| Partnerships | Rigosertib is partnered with SymBio Pharmaceuticals in Japan/Korea Onconova retains rights to the rest of the world |

**As of 3-31-2017 (fund raise of ~\$6 million gross in April/May 2017)*



MANAGEMENT TEAM



Ramesh Kumar, Ph.D.
President & CEO
Co-founder

- Bristol-Myers Squibb
- DNX
- Baxter
- Kimeragen
- Princeton University



Steven M. Fruchtman, M.D.
Chief Medical Officer

- Novartis
- Janssen
- Syndax
- Allos Therapeutics
- Spectrum Pharmaceuticals
- Mount Sinai



Mark Guerin
Chief Financial Officer

- Barrier Therapeutics
- Cardiokine
- PriceWaterhouseCooper

Manoj Maniar, Ph.D.

Senior VP,
Product Development

Alcon, SRI

Wolfgang Meyer, Ph.D.

Sr. VP Regulatory Affairs
GM, Onconova GmBh

Amgen, Micromet, GPC, Fujisawa

Michael Petrone, M.D.

VP Clin. Dev. Medical Affairs and
Pharmacovigilance

GSK, Roberts, GPC



SUMMARY



- Advanced clinical trials
 - Phase 3 underway (IV rigosertib)
 - Phase 2 complete (Oral combination rigosertib)
- Funded to deliver key 2017 milestones
 - Oral Phase 2 ready to enter Phase 3 trial in 2017 with additional funding
 - IV Phase 3 interim analysis 2017; top-line data 2018
- Underserved and growing market in MDS
 - >10,000 patients diagnosed annually
 - No new approved therapies in over 10 years
- Preclinical pipeline; additional business development opportunities
- Seasoned management team and board of directors





ONCONOVA
THERAPEUTICS

ir@onconova.us

BACK-UP SLIDES



BOARD OF DIRECTORS

| | |
|---|---|
| Michael B. Hoffman Chairman | Partner, Riverstone Holdings LLC |
| Henry S. Bienen Ph.D. | Served as the 15th President of Northwestern University |
| Jerome E. Groopman M.D. | Chief of Experimental Medicine at the Beth Israel Deaconess Medical Center, Harvard |
| Ramesh Kumar Ph.D. | President and CEO, Onconova Therapeutics Inc., co-founder |
| Viren Mehta Pharm.D. | Managing Member of Mehta Partners |
| E. Premkumar Reddy Ph.D. Co-founder, Lead Scientific Advisor | Professor in the Department of Oncological Sciences & Department of Structural & Chemical Biology at the Mount Sinai School of Medicine |
| James J. Marino, Esq. | Former partner at Dechert LLP |
| Jack Stover | CEO, Interpace Diagnostics; former partner PwC |



ADVISORY BOARD

| | |
|---------------------------------------|--|
| Ross C. Donehower, M.D. | Johns Hopkins Sidney Kimmel Comprehensive Cancer Center |
| James F. Holland, M.D. | Mount Sinai School of Medicine |
| Stephen Nimer, M.D. | Sylvester Cancer Center at the University of Miami Hospitals and Clinics |
| David R. Parkinson, M.D. | Venture Partner at NEA |
| Alan R. Williamson, Ph.D. Chairman | Retired Merck and Glaxo pharmaceutical executive; former Abingworth |
| Anna Marie Skalka, Ph.D. | Fox Chase Cancer Center |
| George F. VandeWoude, Ph.D. | Van Andel Research Institute |
| Peter K. Vogt, Ph.D. | The Scripps Institute |



KEY PARAMETERS OF INSPIRE TRIAL

- A 2:1 random assignment ratio; 225 patients total
- Type 1 error $\alpha = 0.04$ using a 2-sided log-rank test
 - Primary endpoint of overall survival in the intention-to-treat population
 - Exponential distribution of survival on treatment groups with constant death rate
- Type 2 error $\beta = 0.20$ (80% power)
- Expected mOS of 4.5 (control) and 7.2 months (rigosertib) groups
 - Target hazard ratio of 0.625
- An interim look for futility after the observation of 50% of deaths on both arms
- A uniform accrual period of 24 months
 - An additional follow-up period of 6 months after the last patient is randomized



REVISED IPSS: PROGNOSTIC SCORE VALUES AND RISK CATEGORIES/SCORES

| Prognostic Variable | Prognostic Score Value | | | | | | |
|----------------------------|------------------------|---------------|----------------|-------|--------------|--------|-----------|
| | 0 | 0.5 | 1.0 | 1.5 | 2.0 | 3.0 | 4.0 |
| Cytogenetics | Very good | -- | Good | -- | Intermediate | Poor | Very poor |
| BM blast, % | ≤ 2 | -- | > 2 to < 5 | -- | 5-10 | > 10 | -- |
| Hemoglobin, g/dL | ≥ 10 | -- | 8 to < 10 | < 8 | -- | -- | -- |
| Platelets, $\times 10^9/L$ | ≥ 100 | 50 to < 100 | < 50 | -- | -- | -- | -- |
| ANC, $\times 10^9/L$ | ≥ 0.8 | < 0.8 | -- | -- | -- | -- | -- |

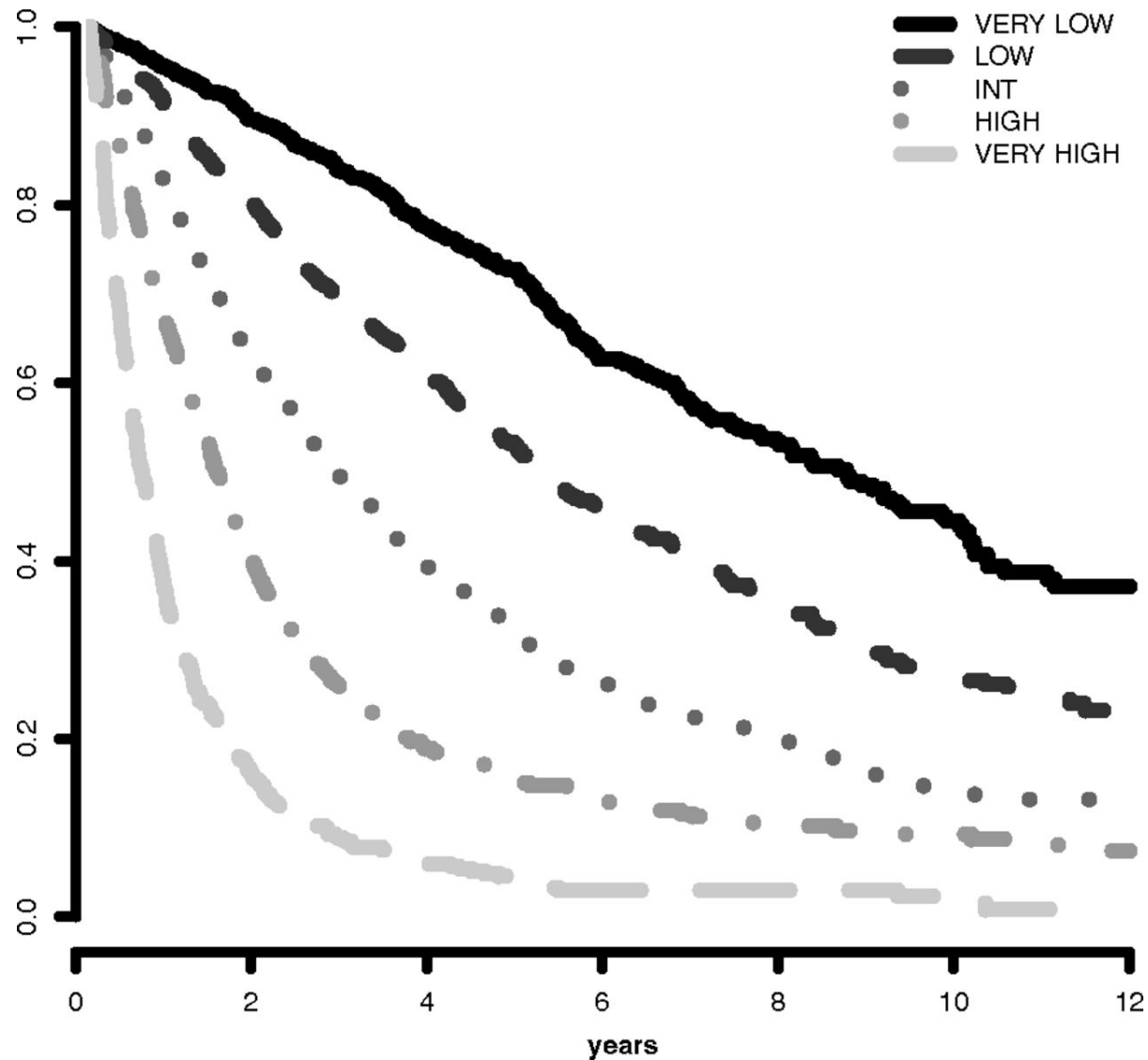
| Risk | Score |
|--------------|----------------|
| Very low | ≤ 1.5 |
| Low | > 1.5 to 3.0 |
| Intermediate | > 3.0 to 4.5 |
| High | > 4.5 to 6.0 |
| Very high | > 6 |

Greenberg PL, et al. Blood. 2012;120:2454-2465.

Slide credit:  clinicaloptions.com



REVISED IPSS-R IN RELATION TO SURVIVAL



Greenberg et al. *Blood* 2012;120:2454-65



IPSS-R RISK AND CLINICAL OUTCOME FOR FRONT-LINE PATIENTS

7012 patients, at diagnosis, on Best Supportive Care

| Parameter | Very Low | Low | Intermediate | High | Very High |
|---|----------|--------|--------------|--------|-----------|
| IPSS-R score | <=1.5 | >1.5-3 | >3-4.5 | >4.5-6 | >6 |
| Patients^ (%) | 19 | 38 | 20 | 13 | 10 |
| Survival, years*** | 8.8 | 5.3 | 3.0 | 1.6 | 0.8 |
| Median months to 25% of patients in AML | NR | 10.8 | 3.2 | 1.4 | 0.7 |
| ONTIME Study (%) 15% were "unknown" | 0 | 0 | 9 | 31 | 45 |

Median survival of VHR patients on BSC arm in the ONTIME study was 3.2 months

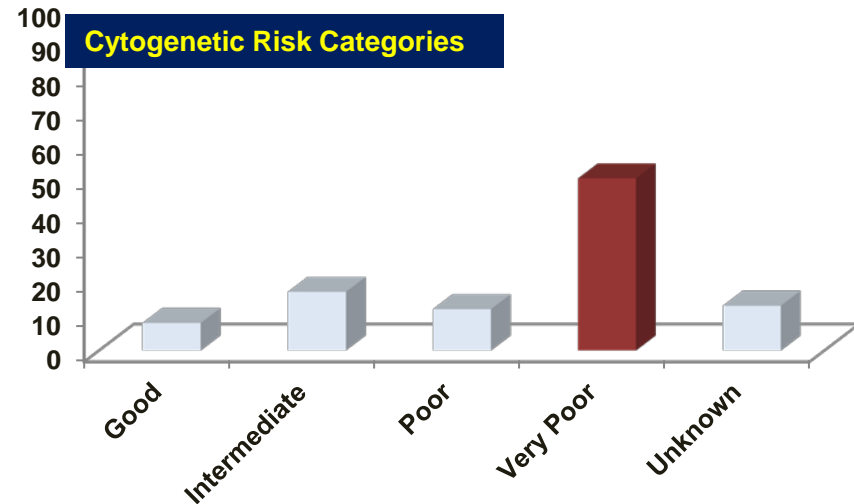
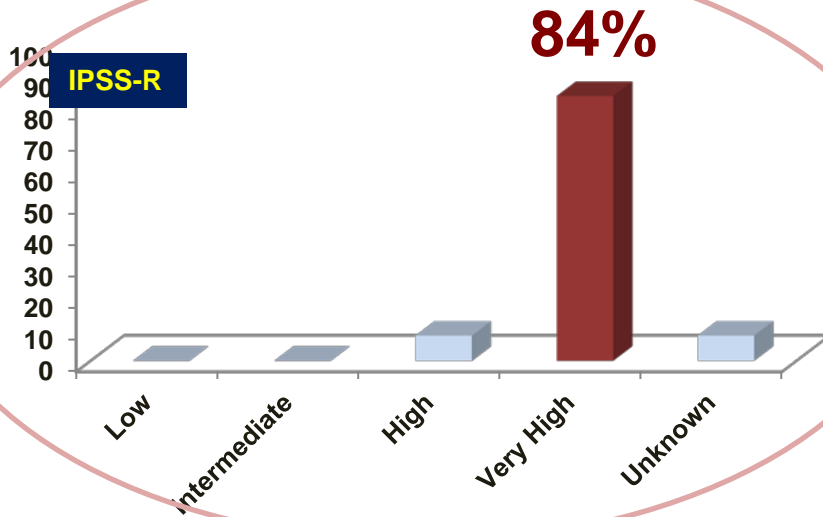
***Medians, years ^Median time to 25% AML evolution

*Greenberg, Tuechler, Schanz et al, Revised International Prognostic Scoring System (IPSS-R) for Myelodysplastic Syndrome, Blood 120: 2454, 2012.

**Schanz J et al, J Clin Oncology 2012; 30:820



DISTRIBUTION (%) OF TP53 MUTATIONS BY PROGNOSTIC RISK CLASSIFICATION



- 100% of Monosomy 7 and Trisomy 8 patients tested carried one or more myeloid mutations
- Older patients (>80 years) had fewer TP53 mutations
- Complex karyotype patients had more mutations

