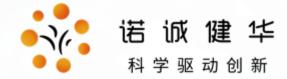


诺诚健华2021研发日科学驱动创新

Opening Remarks



Co-Founder, Chairwoman and CEO

- 20+ years of experience in research and
 development and company management in the
 pharmaceutical industry
- Former CEO and CSO of BioDuro, a PPD Company
- Former Chair of Early Development Team,
- **Cardiovascular Diseases at Merck US**
- Post-doc Fellow at The Howard Hughes Medical
 Institute
- Ph.D. in Molecular Biology from Purdue University
- The 17th President of the Sino-American
 - **Pharmaceutical Professional Association (SAPA)**

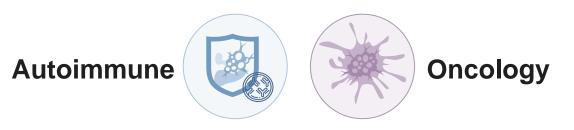
InnoCare 2021 R&D DAY



崔霁松博士 Dr. Jasmine Cui



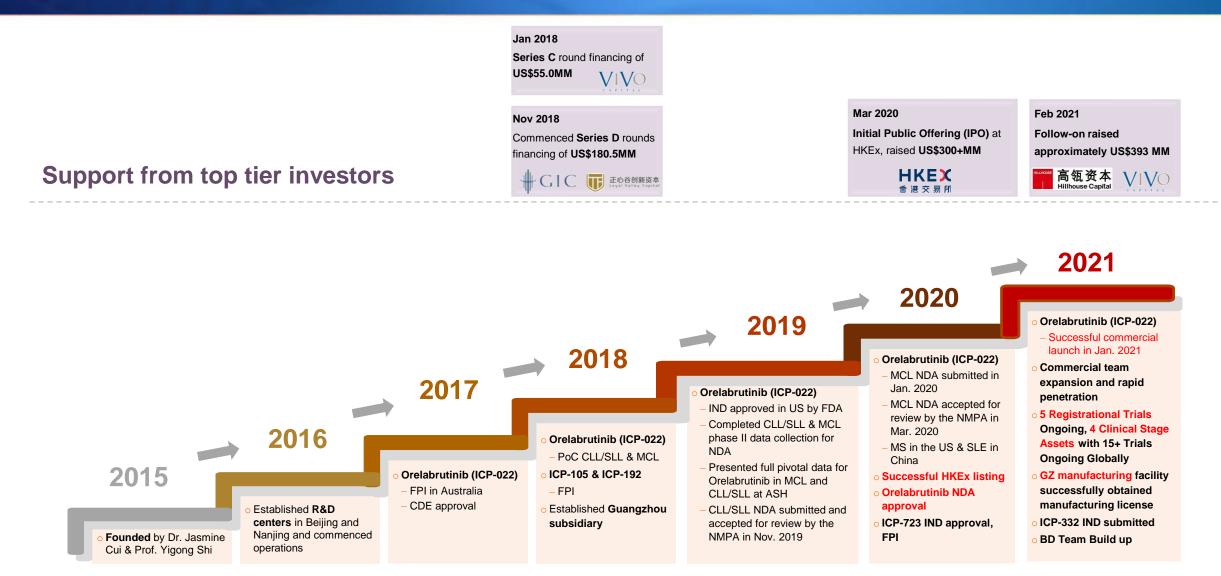
- Experienced founding and management teams with track record of success
- Fully integrated biopharmaceutical platform with strong in-house R&D capabilities
- Worldwide rights to all product candidates
- Strategically focused pipeline of potential first/best-in-class therapies



Our Therapeutic Focus

Corporate History and Milestones





Our 3-5 Years Growth Objectives



NDA submitted for Orelabrutinib

- 3 clinical stage assets
- 3-5 pre-clinical assets
- Strong capabilities in R and D
- ~250 employees

IPO 2020



Significant pipeline expansion

2023-2025

- 3-5 commercial products
- 5-10 clinical stage assets
- >10 products in pre-clinic
- Hematology market leader
- Strong solid tumor and autoimmune franchises
- Mature platform in R, D, M & C3000-5000 employees

Today's Agenda



- Clinical Development Overview by Dr. Sean Zhang
- Liquid Tumor Clinical Development by Mr. Alan Zhu
- Solid Tumor Clinical Development by Dr. Renbin Zhao
- Autoimmune Disease Clinical Development by Dr. Carrie Zhou
- Translational Research Development by Dr. Jason Zhang

BD Strategy by Dr. Manish Tandon/Ms. Gina Song

Target Selection Strategy by Dr. Richard Liu (Small Molecule)

- Target Selection Strategy by Dr. Davy Ouyang (Large Molecule)
- Medicinal Chemistry Strategy by Dr. Xiangyang Chen

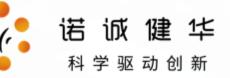
Commercial Insights for R&D by Dr. Zhichao Si

Q&A and Summary



诺诚健华2021研发日科学驱动创新

Overview of Clinical Development 🕺 诺诚健华



Chief Medical Officer

- **Over 30 years of experience in clinical** practice, and global clinical development of new drugs
- **Former CEO and Board Member of Hengrui** • **Therapeutics Inc**
 - **Former Senior Director of Clinical**
 - **Development at GSK**
 - **Fellow of American College of Clinical Pharmacology (FCP)**



张向阳博士 **Dr. Sean Zhang**

Our Clinical Development Strategy



- Our Therapeutic Area Focus
- Liquid Tumors
- Solid Tumors
- Autoimmune Diseases
- In Addition to Expanding Orelabrutinib Indications in Liquid Tumors and Autoimmune Disease, We Will Aggressively Advance Other Clinical Stage Candidates Globally
- ICP-192 pan-FGFR
- ICP-723 pan-TRK

Strong Commitment to Global Innovative Drug Development

- To develop best-in-class or first-in-class drugs with differentiation points
- To meet the significant unmet medical needs

Product Pipeline – Liquid Tumors



	Drug	Target	Indication(s)	Worldwide Rights	Pre-clinical Development	IND	Phase I	Phase II	Phase III	Launched
	ICP-022/ Orelabrutinib	ВТК	r/r CLL/SLL	V	NDA approved:	25 Dec 2020				*
			r/r MCL	V	NDA approved:	25 Dec 2020				*
			r/r MZL	V					X	
			r/r WM	V						
			1L: CLL/SLL	Ø						
			1L: MCL	Ø						
Liquid Tumors			r/r MCL	V	US Developme	nt Status				
			r/r CNSL	V						
			r/r non-GCB DLBC (double mutation)							
			Combo w/ MIL-62 (basket)	V						
	bi-specific antibody	not-disclosed	Hematology							
	ICP-248	BCL-2	Hematology	V	IND expected in first half of 20	022				
	ICP-490	E3 ligase	Hematology	V	IND expected in first half of 20	022				

🛛 Registrational trials 📕 Clinical Stage 📃 Pre-clinical Stage

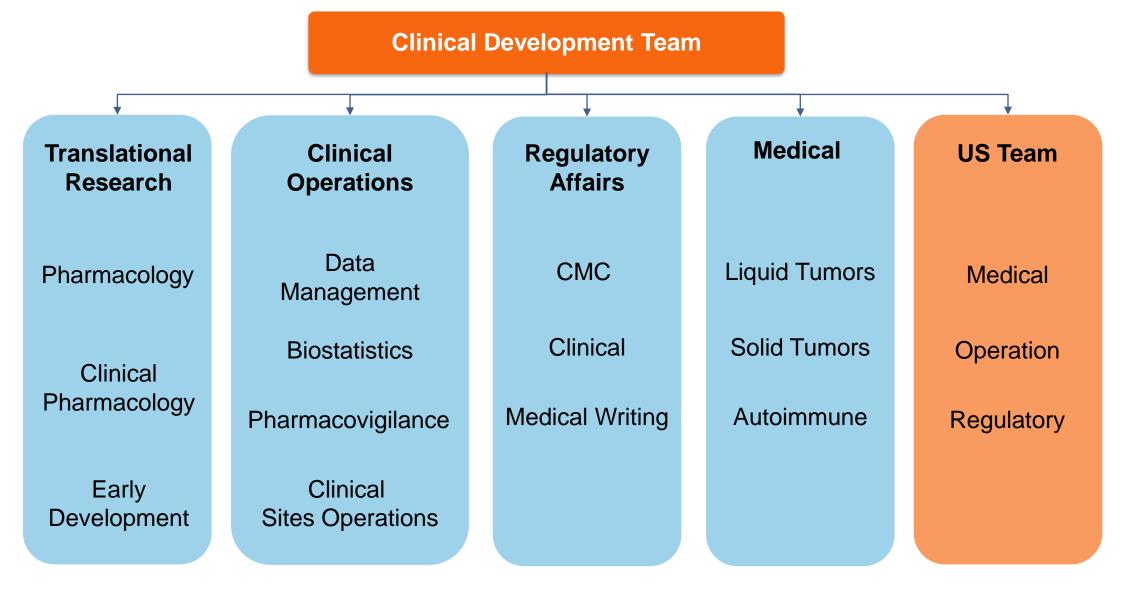
Product Pipeline – Solid Tumors and Autoimmune Diseases



	Drug	Target	Indication(s)	Worldwide Rights	Pre-clinical Development	IND	Phase I	Phase II	Phase III	Launched
	ICP-192/ Gunagratinib	pan-FGFR	Cholangiocarcir	noma 🧹						
			Urothelial cance	ər 🎸						
			pan-FGFR (basket)	V	US Developmen	t Status				
	ICP-105	FGFR4	нсс	Ø						
Solid Tumors	ICP-723	pan-TRK	NTRK fusion- positive cancers	s 🗸						
	ICP-033	VEGFR, DDR1	Solid tumors	Ø	IND submitted in April 2021					
	ICP-189	SHP2	Solid tumors	V	IND expected in second half of	2021				
	ICP-B03	Pro-IL-15	Solid tumors		IND expected in second half of	2022				
	ICP-022/	втк	SLE	V						
	Orelabrutinib		MS	Ø	Global Developm	ent Status				
Autoimmune diseases		TYK2 – JH1	Autoimmune diseases		IND Submitted in Feb 2021					
	ICP-488	TYK2 – JH2	Autoimmune diseases	Ø	IND expected in second half of	2021				
	ICP-490	E3 ligase	Autoimmune diseases	Ø	IND expected in first half of 202	22				

Experienced Development Team with Seamless Study Execution





Our Goal

 To build a global platform to support company's clinical development and market expansion worldwide

Our Approaches

- Leverage the clinical data generated from China and ex-China to expedite clinical development process and market application
- Reach out to global medical communities including liquid tumors, solid tumors and autoimmune KOLs to better understand clinical needs and adjust our clinical development strategy accordingly
- Build-up relationship with key drug development partners including relevant CROs for smooth study execution



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in **B** Cell Malignancies

Senior Director of Medical Research

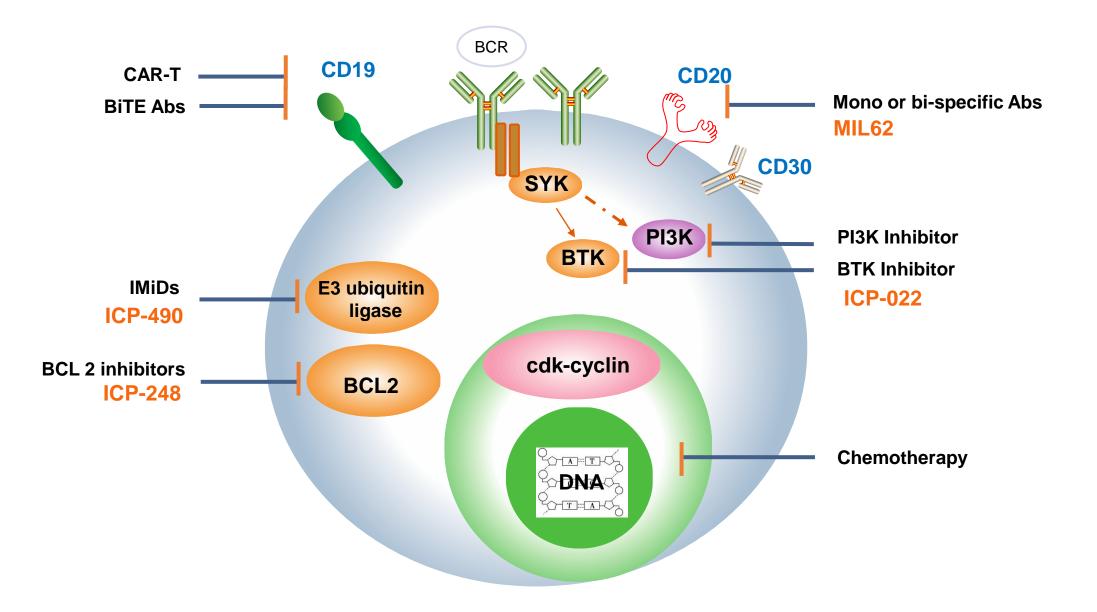
- More than 20 years of clinical research •
 - experience
 - Former Medical Director at Chipscreen,
 - **Bettapharma**, BMS
 - **Oncologist at Zhejiang Cancer Hospital**



朱华强先生 Mr. Alan Zhu

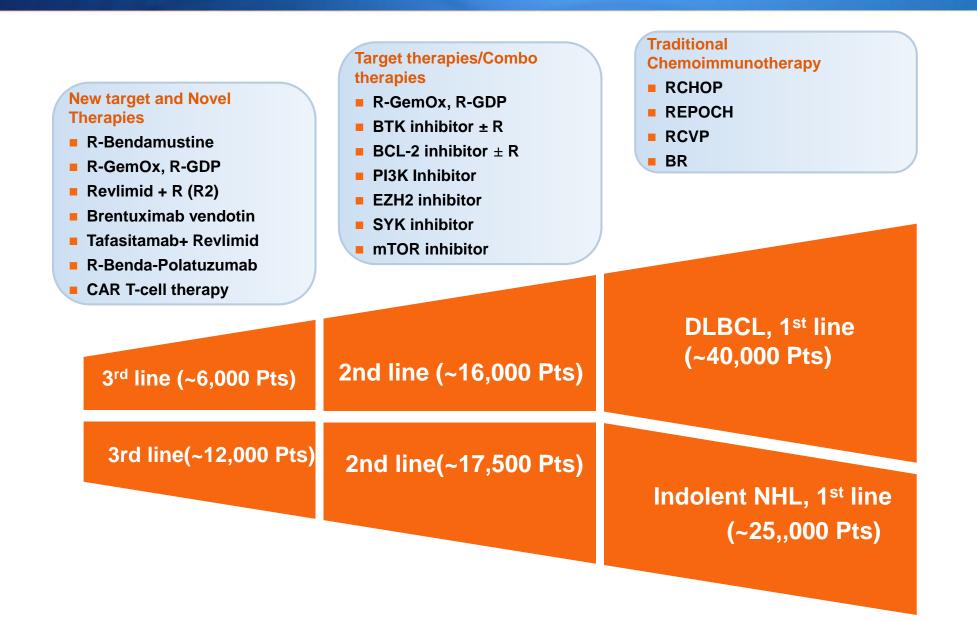
Target Therapies in B-Cell Malignancies





NHL Treatment Landscape

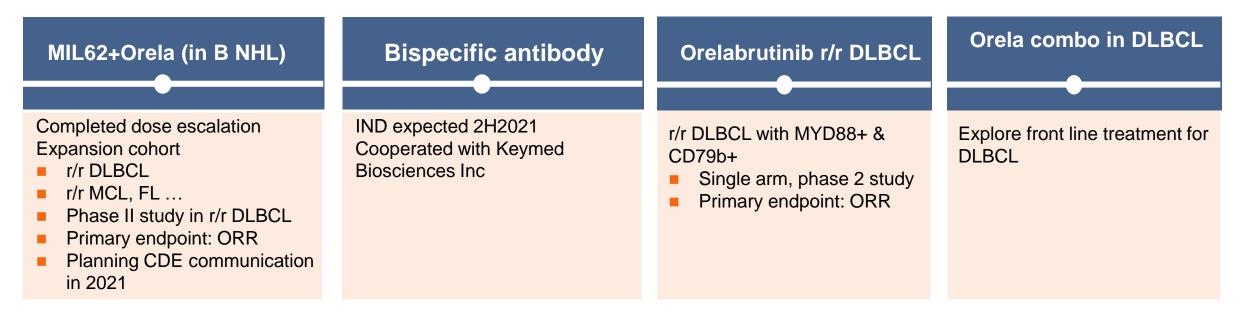






Explore r/r DLBCL indication opportunity

Biomarker enrichment strategies



MIL62: Humanized type II anti CD20+ monoclonal Antibody Beijing Mabworks Biotech Co.Ltd



r/r CLL/SLL: Best BTKi

Orelabrutinib Mono

- High CR rate: 21.3%
- Durable response: median DOR not reached @ 25.5 mo
- Well tolerated: Few offtarget toxicities



Approved by NMPA

Treatment naive CLL/SLL: To be first choice

Orelabrutinib Mono

 Phase III study Orelabrutinib vs Chlorambucil Plus Rituximab Explore Limited-Duration Therapy

Orelabrutinib Combo Therapy

- IIT
- MRD guided treatment, MRD primary endpoint
- Pilot study for Phase III design

Developing innovative therapies, with limited duration of treatment

- MIL62
- BCL-2 inhibitor



r/r MCL: Best-in-class BTKi

Orelabrutinib Mono

- High ORR: 87.9%
- Durable response: median DOR not reached @ 16.4 mo
- Well tolerated: Few offtarget toxicities



Approved by NMPA

Treatment naive MCL: To be first choice

Orelabrutinib Combo

 Phase III study Orelabrutinib+RCHOP vs RCHOP More to explore in frontline therapy

Developing chemo free regimens

- MIL62
- BCL-2 inhibitor



r/r WM: to be the best choice

Orelabrutinib Mono

- Phase 2 study endorsed by CDE as registration trial
- Completed recruitment at the end of 2020
- NDA filing 2022

r/r MZL: to be the best choice

Orelabrutinib Mono

- Phase 2 study endorsed by CDE as registration trial
- Plan to complete recruitment in 2021

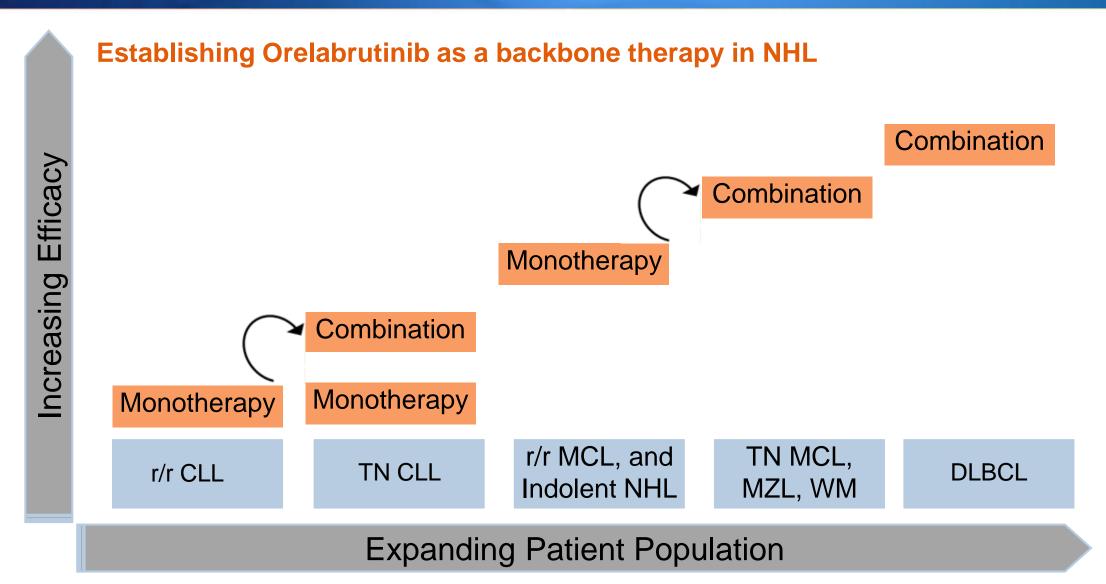
r/r PCNSL/SCNSL

Orelabrutinib Mono

- Phase 2 study of two cohorts with starting dose of 150mg QD
- Discussing with CDE about phase 2 registrational trial

Orelabrutinib Expanding in NHL







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Research and Pipeline in Solid Tumor



- More than 20 years of drug discovery experience
- Former Director of Discovery Biology at BioDuro, a PPD company
- Former Principal Scientist at J&J
- Ph.D. from Johns Hopkins School of Medicine

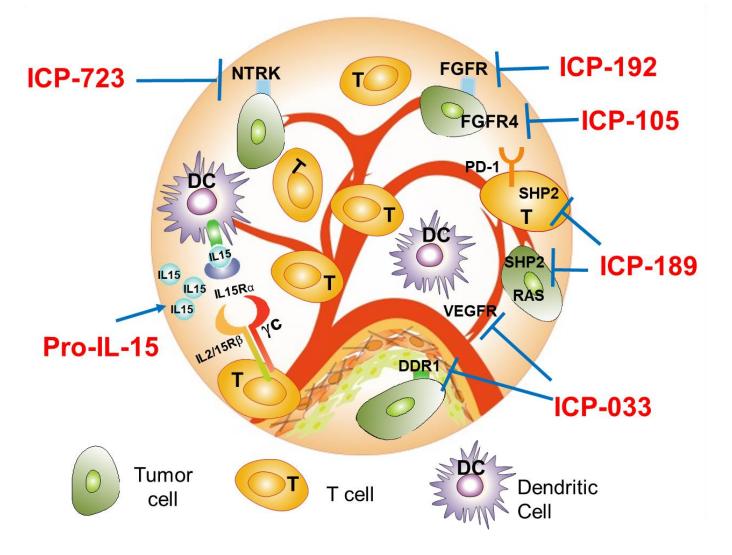


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赵仁滨博士 Dr. Renbin Zhao

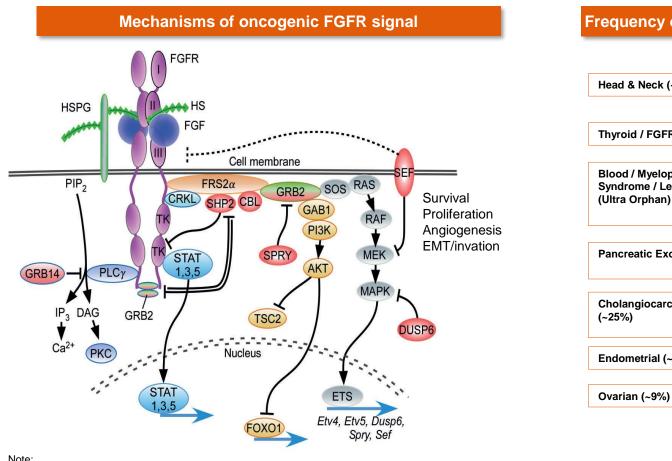
Solid Tumor Pipeline



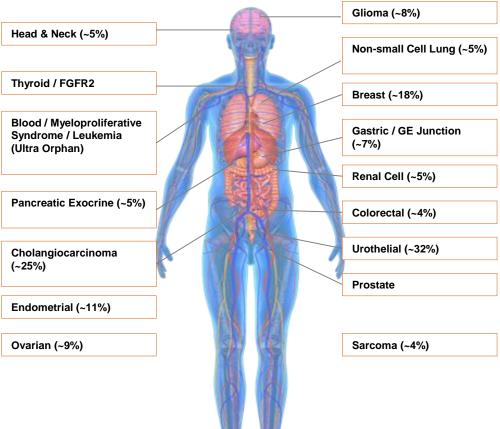


- Target therapy (ICP-192, ICP-723, ICP-189, ICP-105)
 - Excellent target selectivity
 - Biomarker driven precision medicine
- Immuno-Oncology (ICP-189, Pro-IL-15)
 - Depleting tumorigenic TAM, activating T cells by targeting SHP2.
 - Tumor activated IL-15 to activate T cell
 - Turn cold tumor to hot
- Anti-Angiogenesis (ICP-033)
 - VEGFR: a validated target for multiple solid tumors
 - DDR for tumor invasion
- Combo strategy
 - PD-1 and ICP-189
 - Target therapies with IO
 - ICP-033 with target therapy or IO





Frequency of All Currently Known FGFR 1, 2, 3 and 4 Aberrations



Note:

Wiley Interdiscip Rev Dev Biol. 2015 May-Jun;4(3):215-66.

Helsten et al., Clin Cancer Res 2016 (22), 257-267; FGFR2 fusions in iCCA: Graham et al. Hum Pathol 2014 (45), 1630-1638;

Jain et al. JCO Precis Oncol 2018 (2) 1-12; Frost & Sullivan analysis

Next-Generation pan-FGFR Inhibitor Overcomes Acquired Resistance to First-Generation FGFR TKIs



FGFR Alterations	N549H/K N540K				
First-Generation FGFRi	Second-Generation FGFRi				
Erdafitinib (JNJ-42756493) Pemigatinib (INCB54828) Rogaratinib (BAY1163877) Infigratinib (BGJ398) Derazantinib (ARQ087)	ICP-192Irreversible/ CovalentOvercome Acquired ResistantBiochemical Logo (nM) assay BGJ398 ICP-192 FGFR2 (N549H) 8.15 1.84 FGFR2 (V564I) 55.60 3.14Inproved Target Selectivity (CP-192Inno Care IcP-192Inno Care IcP-192Inno Care IcP-192Introved Target Selectivity (Galversa)Introved Target Selectivity (Galversa)				

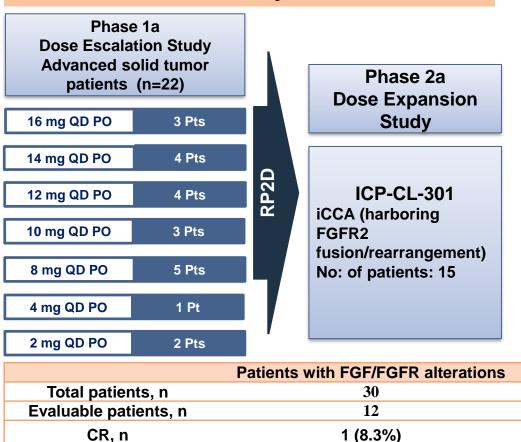
ICP-192: Potential Best-in-Class Pan-FGFR Inhibitor



FGFR2 Mutation IC₅₀ (nM) in Cellular Assay in FGFR2-BICC1 50 100 150 200 250 WT N549K-**ICP-192** E565A-**BGJ398** E565G L617M-K659N-L617V-K714R&K659N-WT-N549K E565A E565G-L617M K659N-L617V K714R&K659N IC₅₀ (nM) in Enzymatic Assay **FGFR2 Mutation** 60 20 40 N549H V564I ICP-192 K659N BGJ398 N549H-V564I-K659N-

Overcomes Acquired Resistance to other FGFR Inhibitor

ICP-CL-00301: Preliminary Data Overview



PR, n

ORR, n

SD, n

DCR, %

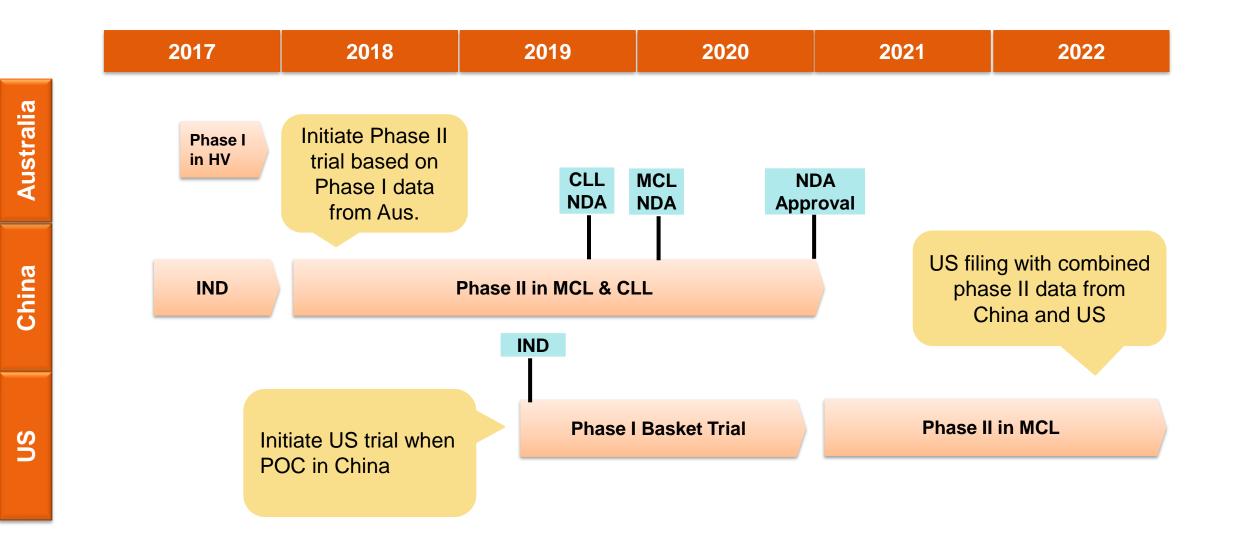
3 (25%)

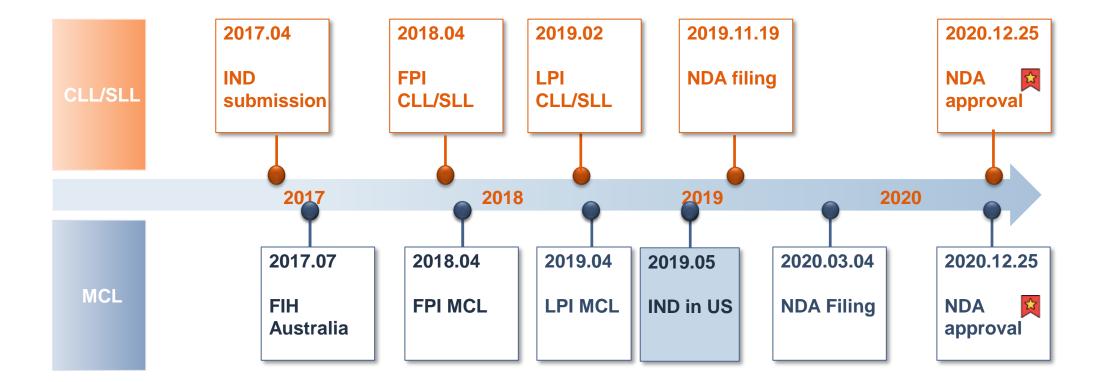
4 (33.3%)

7 (53.8%)

91.7







诺

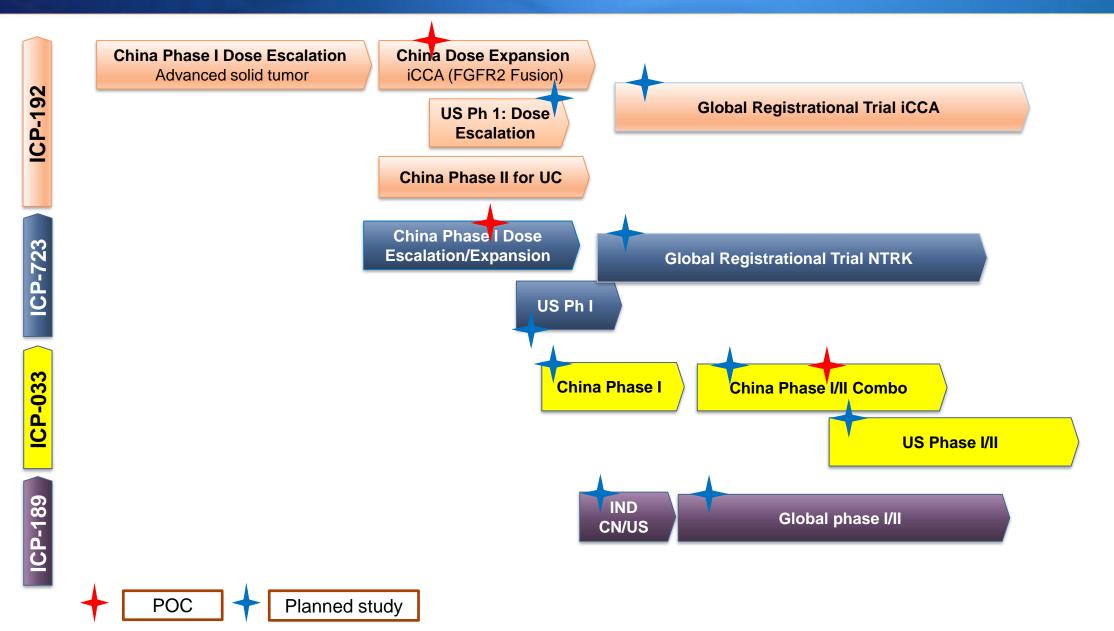
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科学驱动创新

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Clinical Development Plan for Solid Tumor

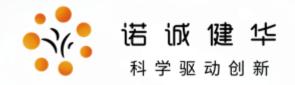






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Autoimmune Disease Clinical Development



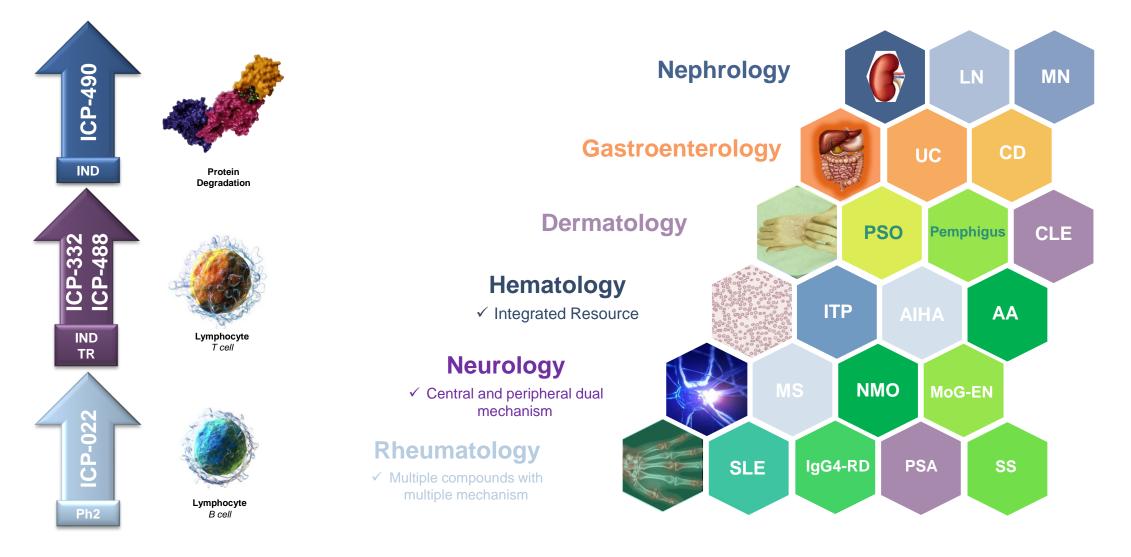
Executive Medical Director

- More than 15 years of new drug clincial development experience
- Former Non-oncology Medical Head of Hansoh
- Former Asia Medical Direcotr of Takeda (Immuology, Neuroscience and CVM)
 - Ph.D. of Nephrology
 - **Master of Surgery**
- Master of Science in Pharmaceutical Medicine



周伟博士 Dr. Carrie Zhou





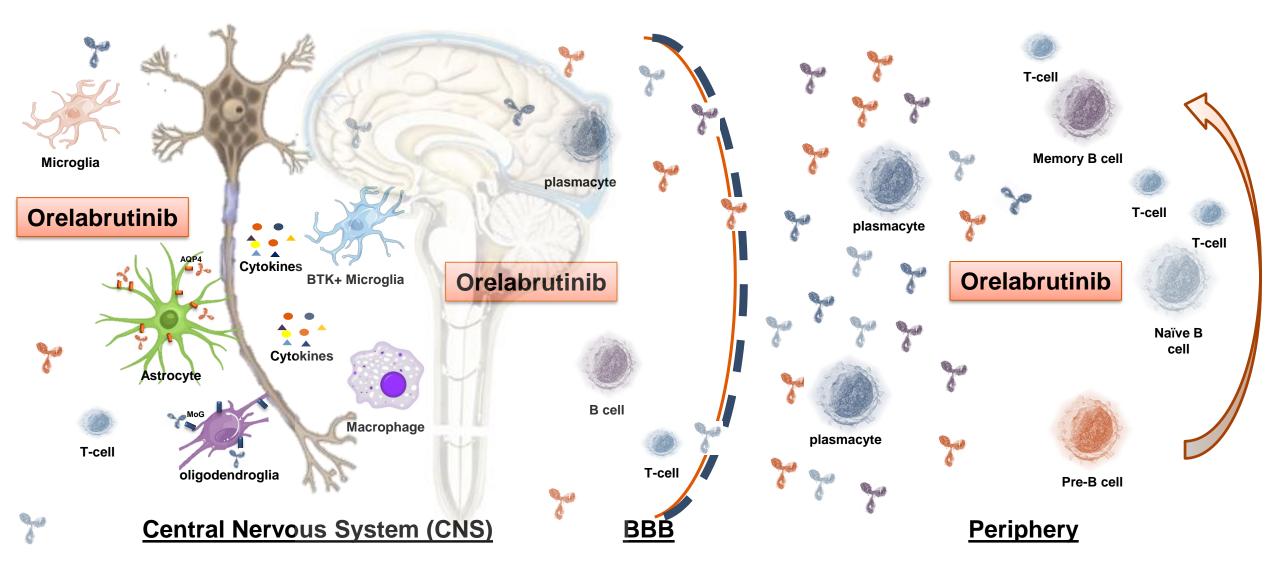
AA: Aplastic Anemia AIHA: Autoimmunehemolytic Anemia CD: Crohn's Disease CLE: Cutaneous Lupus Erythematosus IgG4 RD: Immunoglobulin G4-related disease ITP: Immune thrombocytopenic purpura LN: Lupus Nephritis MN: Membranous Nephropathy MoG-EN: MOG encephalomyelitis

MS: Multiple Sclerosis NMO: Neuromyelitis optica PsA: Psoriatic Arthritis PsO: Psoriasis SLE: Systemic Lupus Erythematosus SS: Sjogren syndrome

TR: Translational Research UC: Ulcerative Colitis

Orelabrutinib Has Potential to Act in Both CNS and Periphery for Demyelinating Diseases

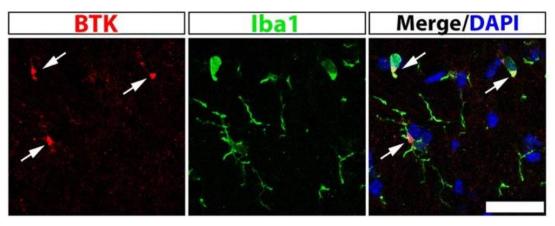




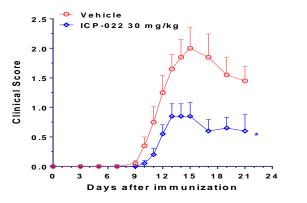
Orelabrutnib's BBB Penetration and Microglia's Role in MS Disease Progression



Representative confocal microscopy images of BTK immunoreactivity in Iba1-positive microglia in brains of wild-type mice^[1]



Robust Pre-clinical Efficacy Profile

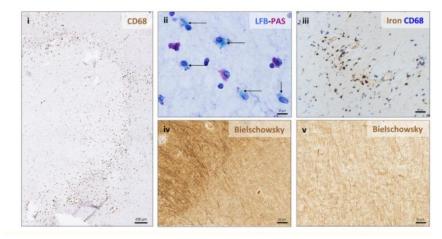


EAE model

Note:

[1] Keaney J et al J Neuroimmune Pharmacol. 2019; 14(3): 448–461.
[2] Absinta et al J Clin Invest. 2016 Jul 1; 126(7): 2597–2609.
This slide is compiled from different clinical studies at different time point, with difference in trial design and patient population. No head to head trilas have been conducted. Not published data, maybe inaccurate.

Microglia are increased in the MS lesion rim[2]



Orelabrutinib's BTK pathway inhibition coupled with PK profile and BBB penetration presents a promising option for treating MS

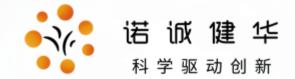
BTK Inhibitor	Enzymatic IC ₅₀ (nM)	Cellular IC ₅₀ (nM)	Dose	CSF, 2 h (ng/mL)	CSF/ Cellular IC ₅₀	C _{max} (ng/mL)	AUC (hr*ng/mL)
Orelabrutinib	1.6	3.4	150 mg	20.1	14x	1279	7000
Evobrutinib	8.9	N.A.	75 mg	N.A.	N.A.	252	345
SAR442168	~1.5	~0.4-0.7	120 mg	1.87	2.6-4.7x	~30	~80

Concentration: ng/ml



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Translational Research



Senior Director of Pharmacology and Translational Research

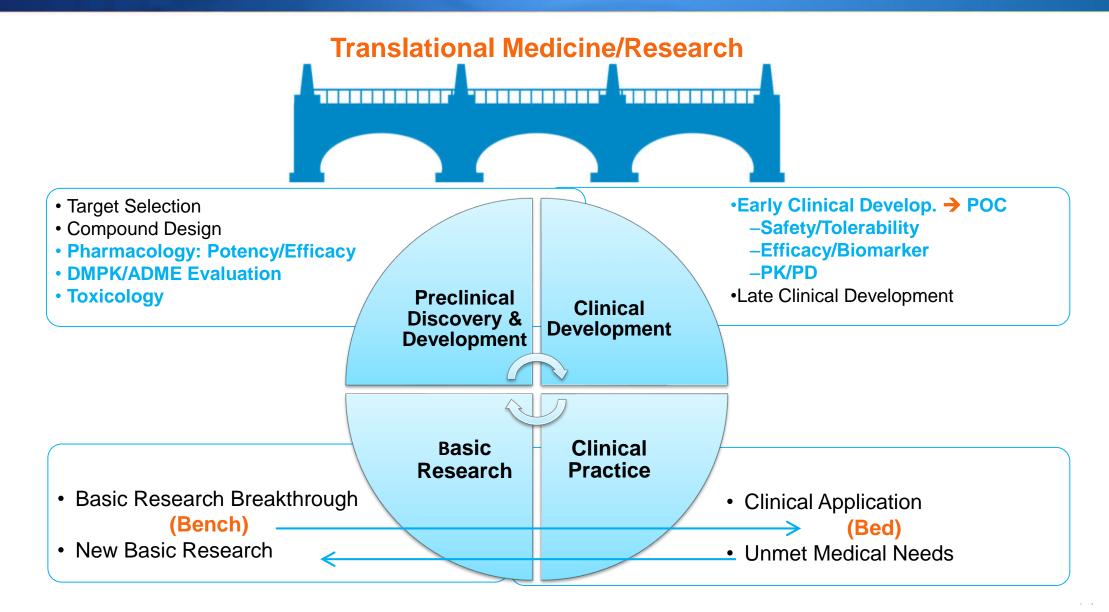
- More than 10 years of drug discovery experience
- Former Director of Biomarker Development at QIAGEN
- Former Associate Director at WuXi AppTec
 - Ph.D. in Pharmacology from Tsinghua University
 - Postdoctoral research fellow at University of Pittsburgh



张斌博士 Dr. Jason Zhang

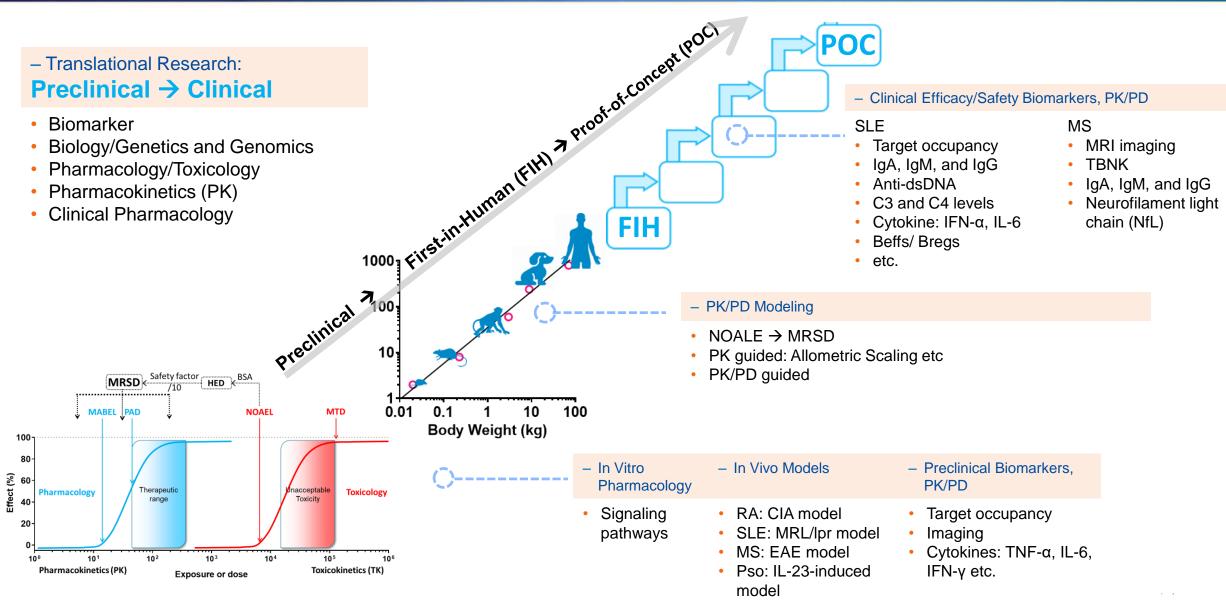
Translational Medicine/Research





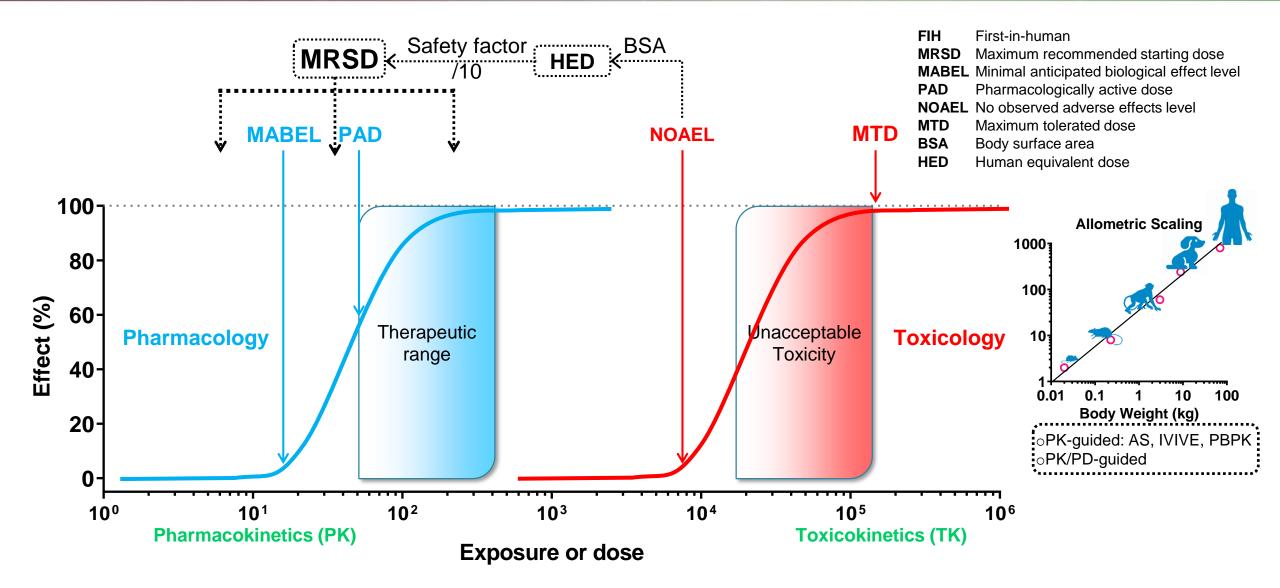
Biomarker-Driven Translational Research





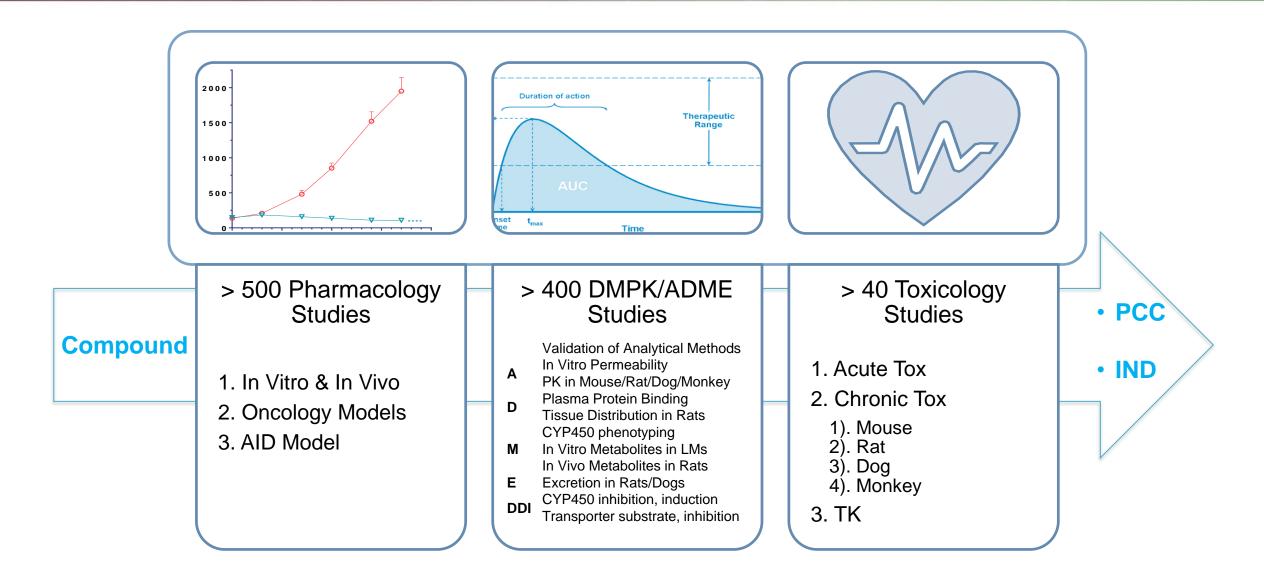
Preclinical First-in-Human (FIH)



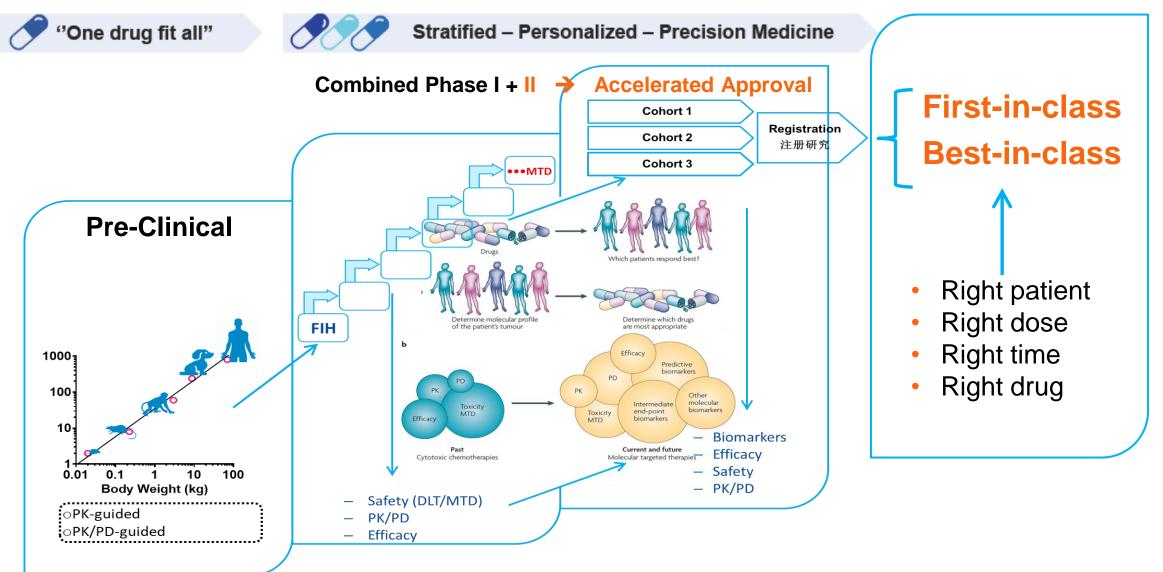


Internal Research Capability





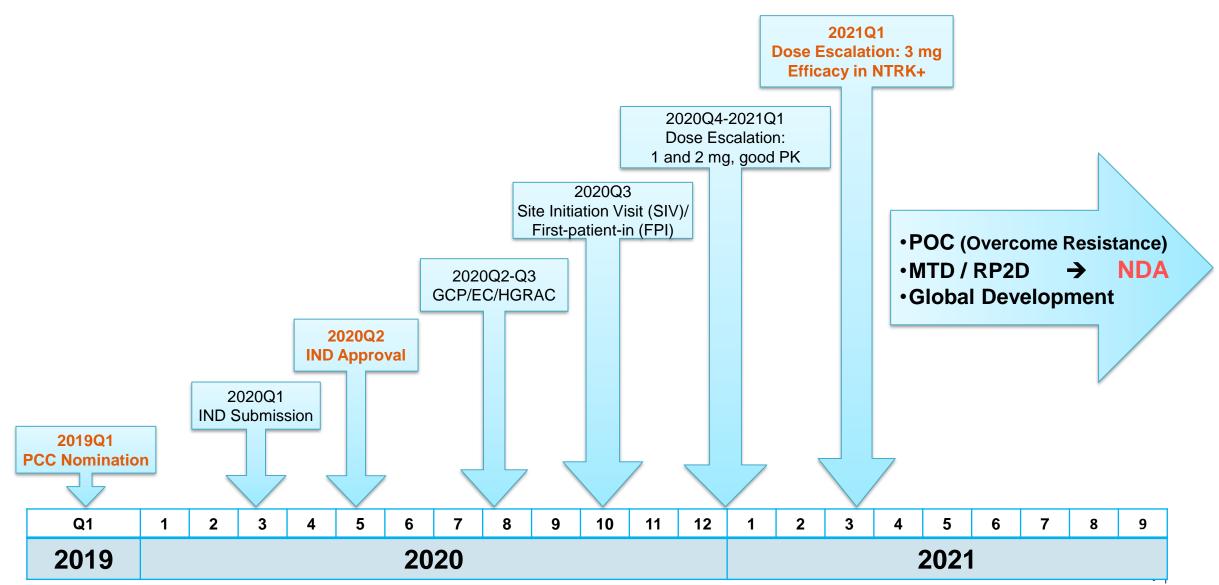
FIH -> Proof-of-Concept (POC)/NDA Changing Landscape of Early Phase Clinical Trials



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ICP-723: Next-Generation pan-TRK TKIs 14 石 **Address On-Target Resistance to Early-Generation TRKi** 科学驱动创新 In Vitro: Kinase Inhibition In Vitro: Anti-proliferation In Vivo Anti-Tumor Efficacy **Overcome Resistance 10-100X** Increase **Overcome Resistance** KM12 cells (TPM3-NTRK1) - Vehicle, PO, BID 120 - Larotrectinib 高活性 第一代 →→ 第二代→→ 更优的第二代 LOXO-195 LOXO-195, 30 mg/kg, PO, BID -100 ← ICP-723 -V Larotrectinib 30 mg/kg, PO, BID 激酶/I Larotrectinib → ICP-723, 0.3 mg/kg, PO, BID 80 % of inhibition LOXO-195 **ICP-723** (拉罗替尼) C_{50} (nM) ▲ ICP-723, 1 mg/kg, PO, BID 60. TRKA 1.30 0.72 0.98 → ICP-723, 3 mg/kg, PO, BID 2000 **40** TRKB 0.63 0.21 0.12 TRKC 0.30 0.18 0.15 20 1600 TRKA G595R e (mm³) 88.4 0.56 0.31 (耐药突变) -20 TRKA G667C 10^{-2} 10-1 10^{0} 101 10^{2} 10³ 10^{4} 1200 29.9 4.74 0.55 (耐药突变) volum Compound concentration (nM) Ba/F3 LMNA-NTRK1-G595R cells Tumor 800 高选择性 120 7 🔶 Larotrectinib ★ LOXO-195 100-400 80 % of inhibition 60 10 15 40 Days after treatment 20 -20-**10**⁻² 10⁻¹ 10^{0} **10**¹ **10**² 10³ 104 105 Compound concentration (nM)

ICP-723: PCC → IND → FIH → POC Process



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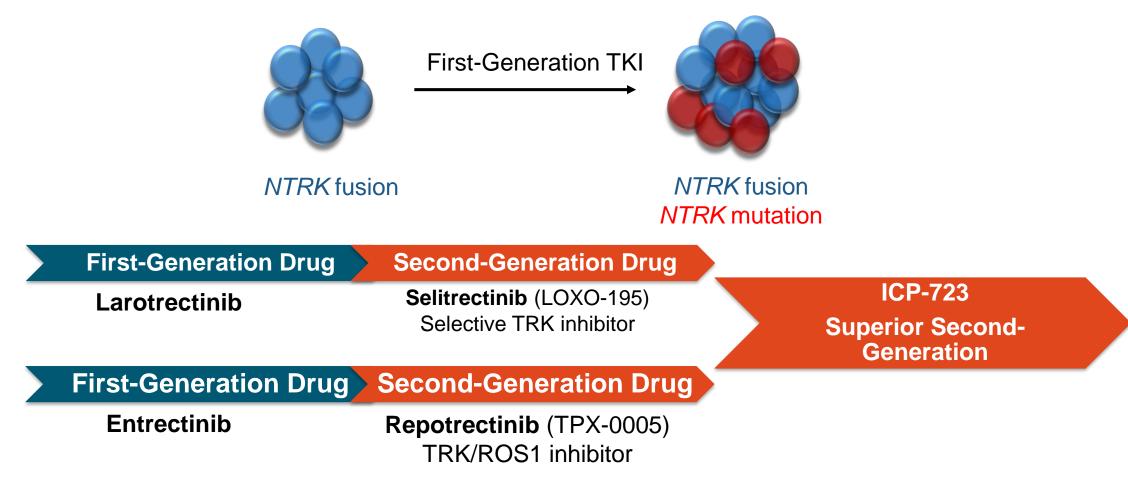
科学驱动创新

诺

Next-Generation pan-TRK TKIs ICP-723 (Best-in-class)

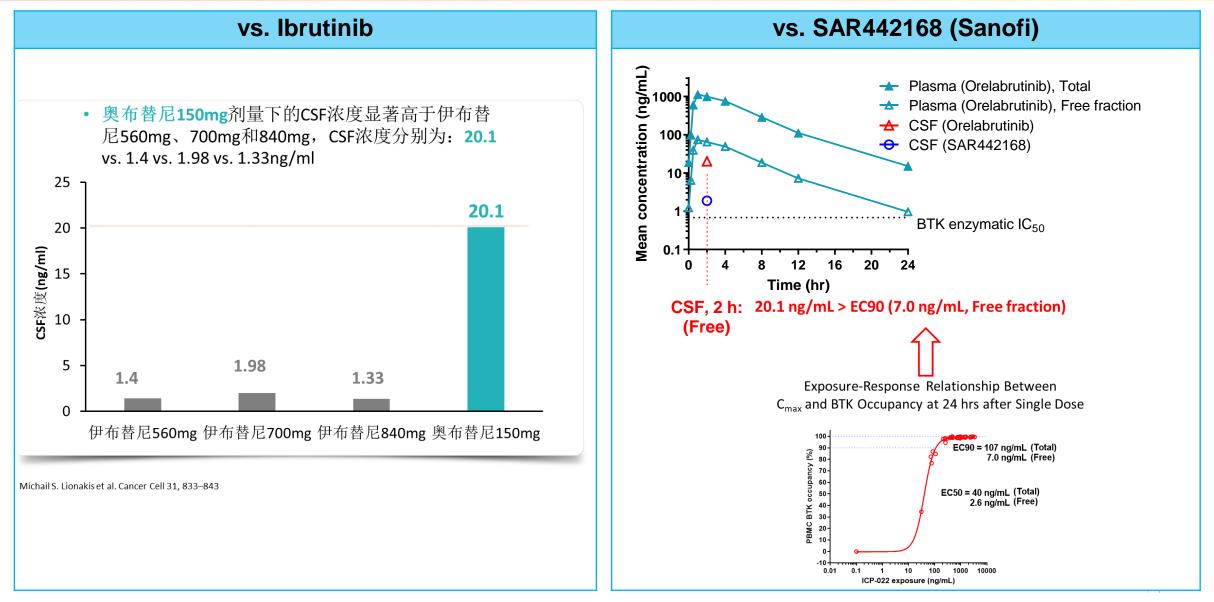


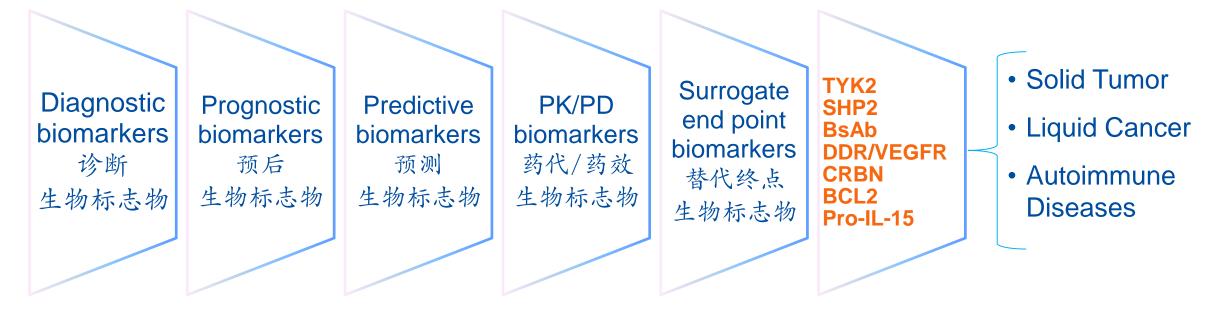
Can Address On-Target Resistance to Early-Generation TRK TKIs



Drilon. Cancer Discov. 2017;7:963. Drilon. Cancer Discov. 2018;8:1227.







 Disease characterization biomarkers 疾病特征性生物标志物
 Response biomarkers 疗效判断生物标志物
 POC & Accelerated Approval

Note: Kelloff GJ, Sigman CC. Cancer biomarkers: selecting the right drug for the right patient. Nat Rev Drug Discov. 2012; 11(3): 201-14.

诺



诺诚健华2021研发日科学驱动创新

Business Development Strategy



Vice President of Business Development

- Over 20 years of experience in the biotechnology space spanning business development, M&A and drug development
- Former Vice President of business development, alliance management, new product planning and intellectual property at ArQule
- Ph.D. in Organic Chemistry from Brown University MBA from Questrom School of Business at Boston University

Director of Business Development

- More than 10 years in finance and healthcare industries
- Former director of business development at Simcere Pharmaceuticals, VP of investment banking at RBS
- B.S./M.S. in Biochemistry from Tsinghua University
- M.B.A from UC Berkeley



Manish Tandon博士 Dr. Manish Tandon



宋歌女士 Ms. Gina Song

InnoCare 2021 R&D DAY

Pursuing Both Short-Term and Long Term Value Generating Corporate



Inlicensing

- Focus on oncology late stage (with proof-of-concept) assets especially hemeonc drugs to support our clinical development as well as commercial strategy
- Focus on assets that can be synergistic with our current pipeline program
- Broaden scope of our pipeline by adding new agents that target mechanisms not addressed by our current pipeline assets
- Start seeking promising novel early stage targets to fuel an innovative pipeline over the long term

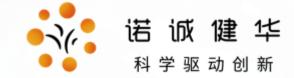
Outlicensing

- Highly focused on maximizing clinical potential and commercial opportunity of Orelabrutinib
- Current strategy is to partner ex-China rights of pipeline assets with clinical proof of concept
- Partner selection is based on capabilities to fully develop and maximize the commercial value in indications ex-China



诺诚健华2021研发日科学驱动创新

Target Selection Strategy – Small Molecule



Vice President of Biology and Procurement

- More than 20 years of drug discovery experience in Immunology
- Former Senior Director of Discovery Biology at BioDuro, a PPD company
 Former Senior Principle Scientist at BMS
 - Ph.D. from University of Arkansas, USA



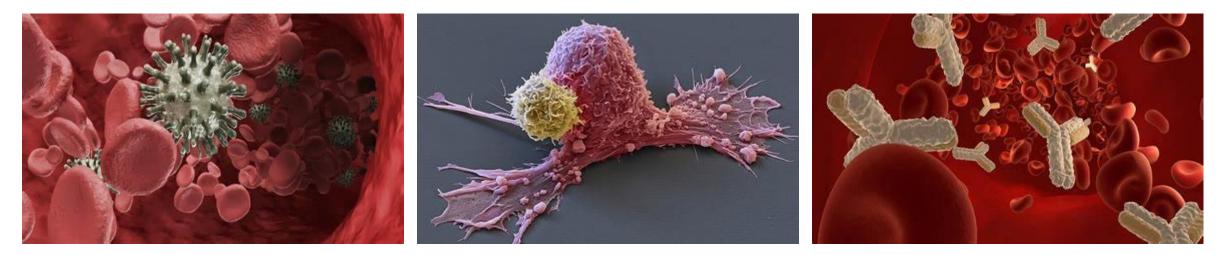
刘瑞勤博士 Dr. Richard Liu



Blood Malignancies

Solid Tumors

Autoimmune Diseases

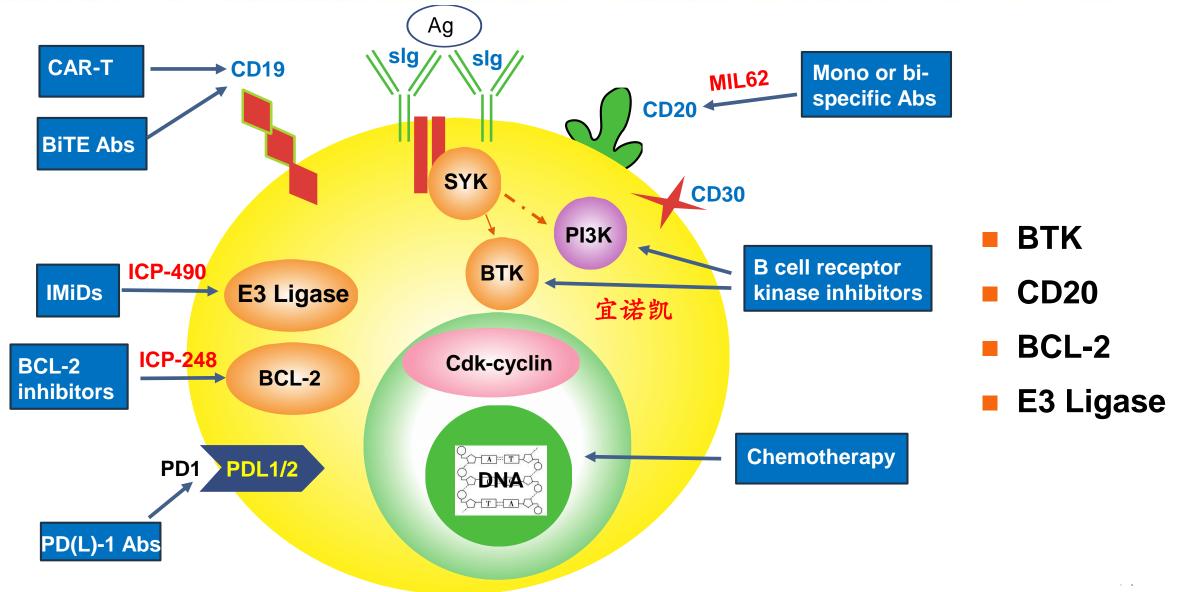


BTK
E3 Ligase
BCL-2
TYK2

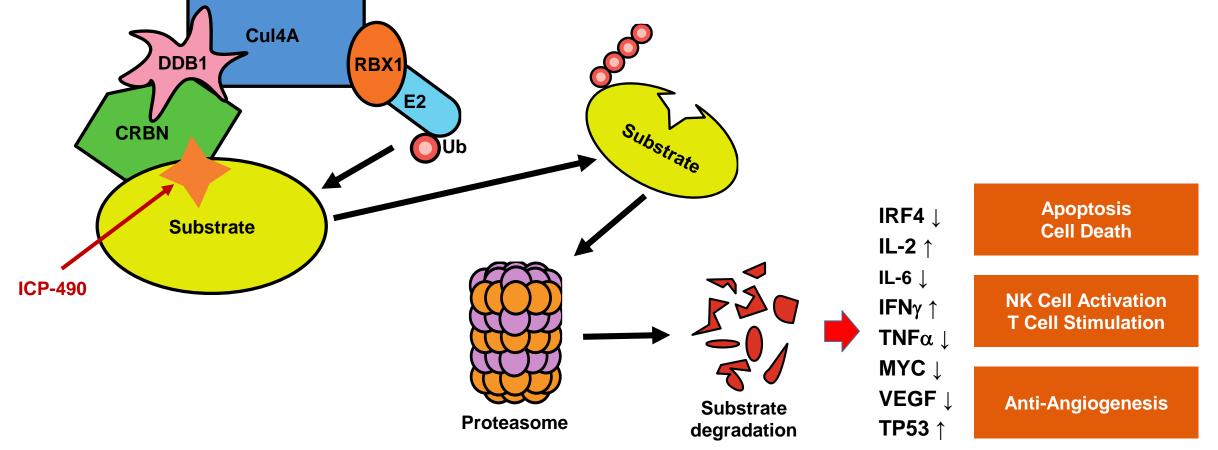
FGFR NTRK DDR1/VEGFR SHP2 BTK TYK2 E3 Ligase Gut-Restricted JAKs

Maximizing MoA Coverage in the Hematological Space



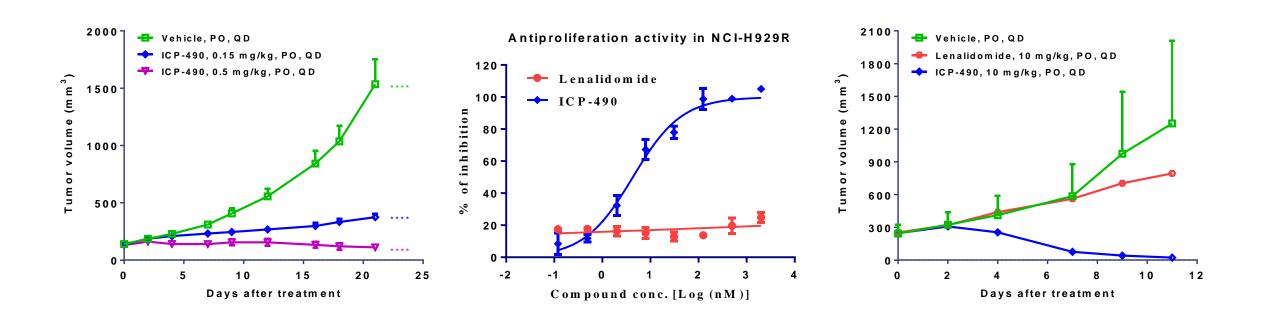


ICP-490 Acts as a Cereblon E3 Ligase Modulator in Protein Homeostasis for Various Therapeutic Applications



- \rightarrow IC₅₀ 0.06 nM in an antiproliferation cellular assay
- \succ IC₅₀ 0.38 nM in an immune PBMC assay
- ➢ IC₅₀ 0.02 nM in a MOA assay monitoring certain transcription factor degradation

ICP-490 Has the Potential to Become the Next Generation Lenalidomide for the Treatment of Blood Malignancies



Effect of ICP-490 in the MM.1S xenograft model

Effect of ICP-490 against proliferation in NCI-H929-R cells

Effect of ICP-490 in the NCI-H929-R xenograft model

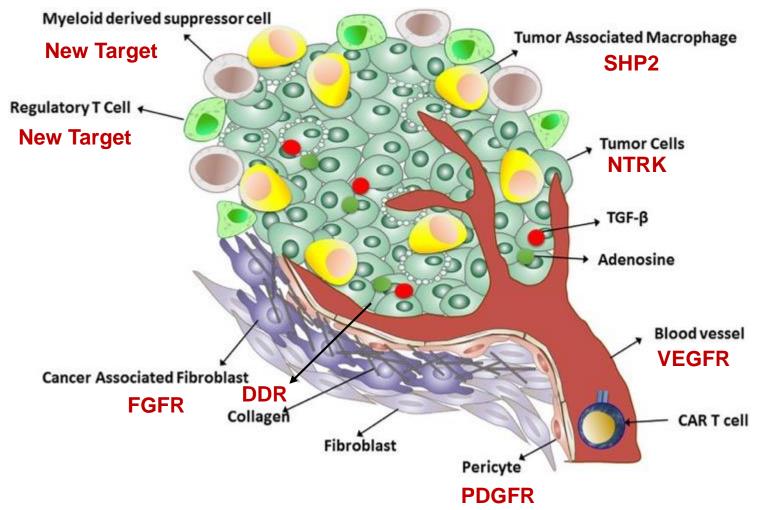
ICP-490 is efficacious in the lenalidomide-resistant H929-R xenograft model

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Focusing on Tumor Microenvironment Modulation to Target China-Prevalent Solid Tumors

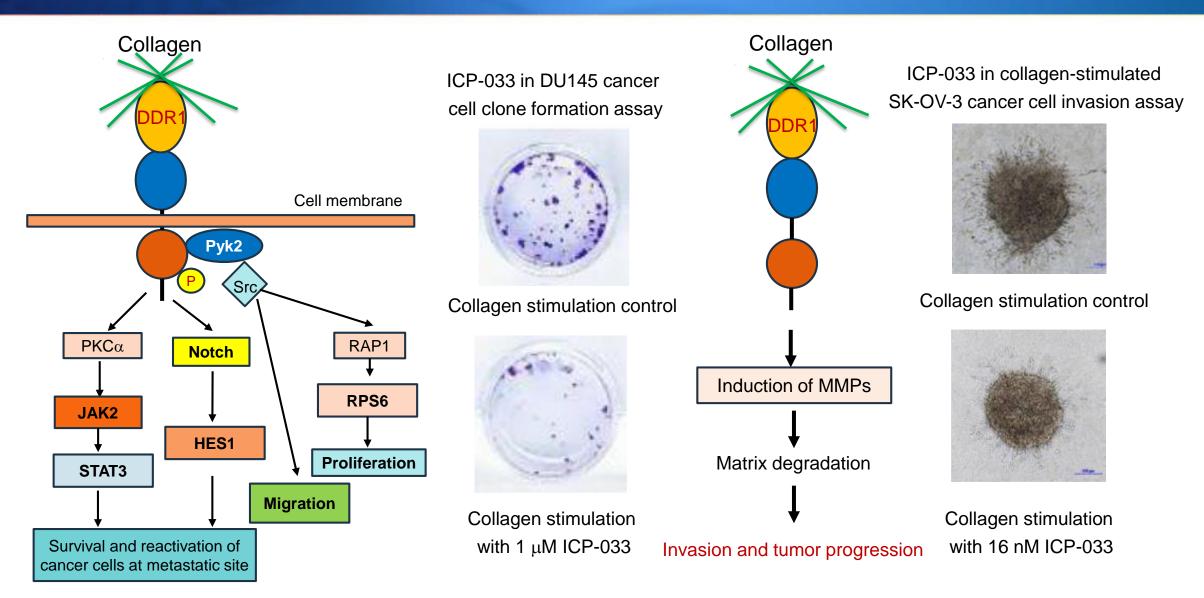




- Modulation of the tumor microenvironment matrix
- Regulatory T cell modulation
- Modulation of myeloid derived suppressor cells
- Tumor associated macrophage polarization

DDR1 Regulates Cancer Cell Differentiation and Invasion





Targeting DDR1 Provides New Therapeutic Opportunities for the Treatment of Solid Tumors

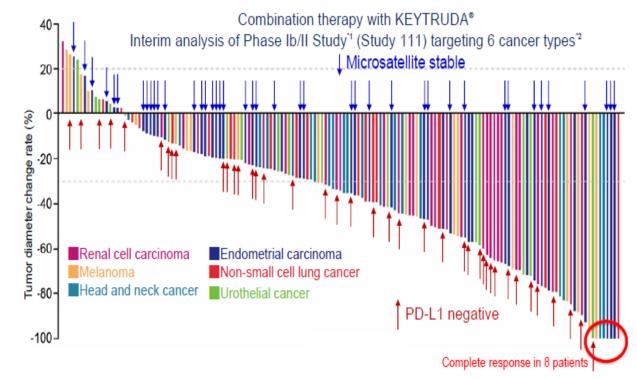


Diagnosed Stage IV and Followed for 5 Years* 100 80 % survival DDR1-low 60 40 ** 20 DDR1-high 0 з 0 Time (year) 800 -0-Vehicle envatinib, 0.1 mg/kg CP-033, 0.03 mg/kg Tumor volume (mm 600 ICP-033, 0.3 mg/kg 400 200 0 12 15 18 Days after treatment

Kaplan-Meier Plot of 44 Bladder Cancer Patients All

Effect of ICP-033 in the DU145 prostate cancer xenograft model

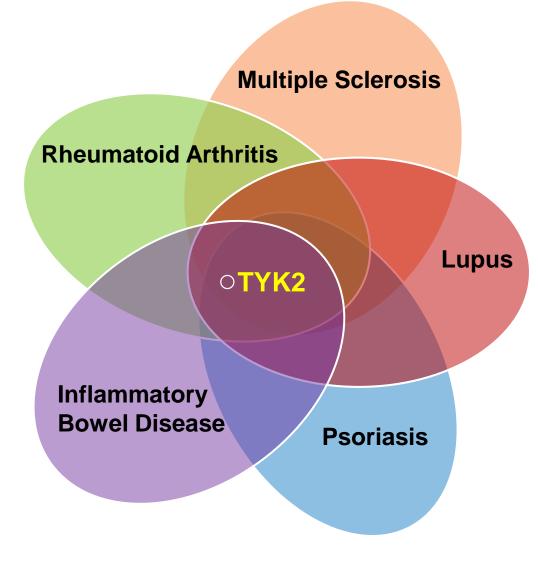
Lenvatinib's Immunomodulatory Effect Potentially Enhances the Efficacy of IO Treatment



ICP-033 has the potential to surpass lenvatinib due to additional DDR1 inhibition in combination with PD-1 antibodies for the treatment of various solid tumors prevalent in China

TYK2: The Current Focus of the Autoimmune Space with the Potential to Produce Blockbuster Drugs for Multiple Indications

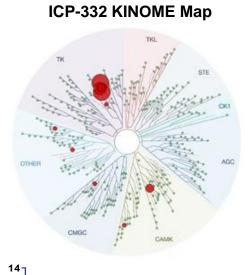




- Resides in drug-rich JAK family
- Regulates signaling of IL-23, IL-12, and type I IFN, contributing to the pathogenesis of various autoimmune diseases
- Approved JAK inhibitors demonstrate encouraging efficacy but raise serious safety concerns
- Developing a TYK2 inhibitor while minimizing safety issues presents a plausible strategy

ICP-332 and ICP-488 Bind to the JH1 or JH2 Domain of **TYK2** with Excellent Selectivity over JAKs





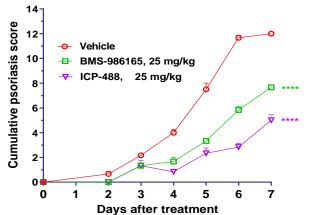
ICP-332, targeting the catalytic site

- IC_{50} of 0.5 nM against TYK2
- 40X less active against JAK1
- 400X less active against JAK2
- 2000X less active against JAK3



Psoriasis model

Treated with **ICP-332**



Imiguimod-induced psoriasis model

ICP-488, targeting the allosteric site

- IC50 of 13 nM in the NK92 cell assay
- Favorable PK/safety profile
- Efficacious in multiple disease models with the potential to become the best-in-class molecule



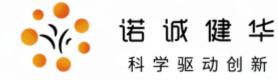
Portfolio fit

- Within the immuno-oncology space focusing on Tregs and MDSCs
- Potential for either mono- or combo-therapy
- Priority for the treatment of China-prevalent solid tumors
- Unmet medical needs in the autoimmune disease area
- Increased initiative for first-in-class discovery
- Science-driven decisions with target/disease-specific biomarkers to evaluate therapeutic efficacy
- A well-balanced strategy in full phase, early phase, and exploratory phase programs for sustainable success



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Positioning Biologic Pipeline



VP of Biology

- More than 15 years of drug discovery experience
- Former VP of Scientific Research & Innovation at Crown Bioscience
- Former Asso. Principal Scientist at Merck Ph.D. in Cancer Biology from the University of Hong Kong



欧阳雪松博士 Dr. Davy Ouyang

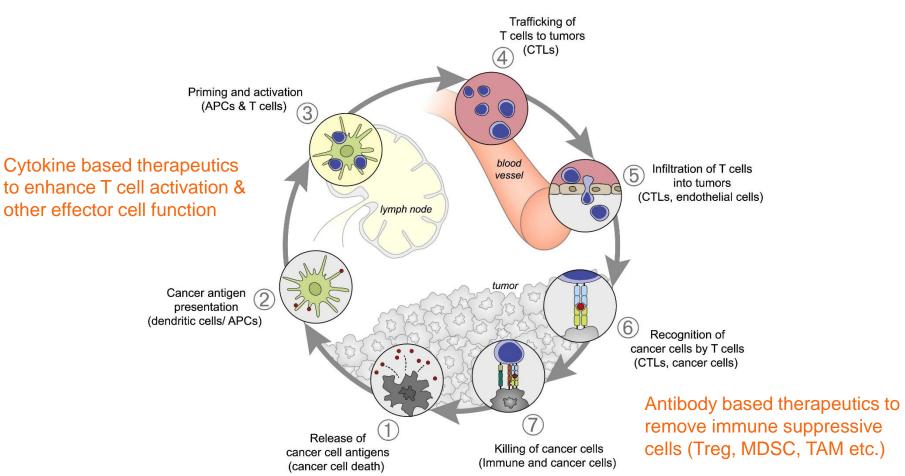
- Quick wins through crossover synergies with our small molecule programs
 - Combination of Orelabrutinib and antibody drugs to own hematology oncology space (CD20, CD19, bi-specifics)
 - Potential combo partners for other small molecule programs (PD-1/PD-L1 etc.)
- Highly focused biologic programs in Immuno-oncology space through collaborations
 - Unique cytokine-based therapeutics with high potency and improved safety profiles.
 - First-in-class antibody-based therapeutics tackling immune-suppressive TME.
- End-to-end biologic discovery and development capability



Develop biologic compounds through business development to boost the value of Orelabrutinib & other small molecule programs.

- Combination of Orelabrutinib and antibody drugs to own hematology oncology space
 - Combo of Orelabrutinib & MIL62 (CD20 antibody) for B-Cell NHL (r/r DLBCL, r/r MCL, FL etc.)
 - Combo of Orelabrutinib & CD20/CD3 bi-specific antibody for r/r DLBCL
 - Translational research to rationalize the combo benefit by demonstrating direct tumor killing synergies & enhanced ADCC/ADCP function.
- Identify potential combo partners for other small molecule programs
 - ICP-490 (CRBN IMiD): Next generation IMiD activating T/NK cells, inducing type I cytokines (i.e. IL2, GM-CSF, TNFα, IFNγ), enhancing ADCC. Many combination options.
 - ICP-189 (SHP2): Depleting pro-tumorigenic TAM, activating T cells. Combo with PD1 antibody or other ICIs.
 - ICP-033 (TKI): multi-kinase inhibitor. Combo with PD1/PD-L1 antibody.
 - New undisclosed target: activating T cells. Combo with PD1 antibody.

Highly Focused Near Term Target Selection Strategy



The Cancer-Immunity Cycle

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Drug Name	Company	Properties	Indications/Phase	
IL-2 therapeutics				
NKTR-214	Nektar/BMS	IL-2, with 6 cleavable PEG groups	Melanoma, RCC, Bladder/ Phase III	
ALKS-4230	Alkermes	Circularly permuted IL2v-IL-2R α fusion protein	HNSCC / Phase II	
THOR-707	Sanofi/Synthorx	IL-2, with 1 non-cleavable PEG groups	Solid tumor/ Phase I/II	
RG6279	Roche	IL-2v-PD1 mAb fusion protein	Solid tumor/ Phase I	
CUE-101	Cue Biopharma	IL-2-HLA complex – HPV16E7 fusion protein	HNSCC / Phase I	
IL-15 therapeutics				
ALT-803	Nantworks	Mutated IL-15/Sushi fused IgG1	Bladder, NSCLC, MCC / Phase II	
BJ-001	BJ Bioscience	Tumor targeting RGD-Fc IL-15R α -IL-15	Solid tumor/ Phase I	
CYP0150	Telix Pharma	Tumor targeting GD2-IL15-IL15R α	Solid tumor/ Phase I	
NIZ985	Novaryis AG	IL-15-IL-15Rα	Solid tumor/ Phase I	
NKTR-255	Nektar	PEG-conjugated IL-15	Multiple Myeloma/ Phase I	
SHR-1501	Jiangsu Hengrui	IL-15-IL-15Rα	Advanced tumors/ Phase I	
XmAb24306	Roche	IL-15-IL-15R α fused to bispecific XmAb Fc	Solid tumor/ Phase I	
KD033	Kadmon	PDL1 mAb linked to IL-15/Sushi	Solid tumor/Phase I	

1st generation of cytokine therapeutics approved in the 90's didn't make effective anti-tumor drugs

 New generation of engineered cytokines become very attractive combination partners with ICIs and CAR-T therapies

- Unique characteristics of IL-15 vs.
 IL-2
- Common limitations: Poor PK & dose-limiting toxicity

Pro-IL-15 – A Prodrug Specifically Activated in Tumor **Microenvironment (TME) with Much Improved Safety Profiles**

Efficacy assessment of pro-IL-15 & constitutive active drug

Cells in

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CD3×

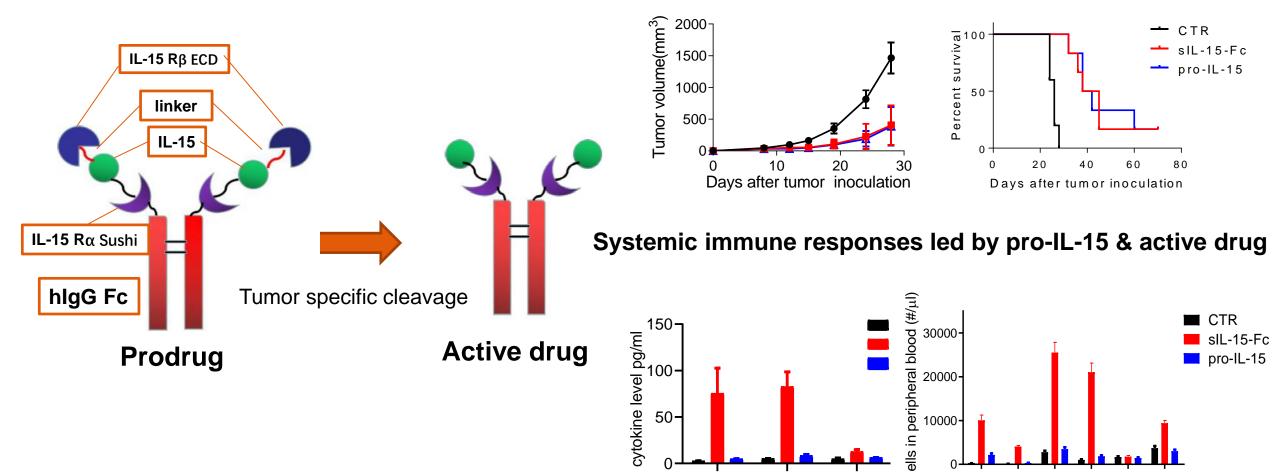
-sex

24

C198×1

CD4*1

8220×



1F121

MCP-1

渃

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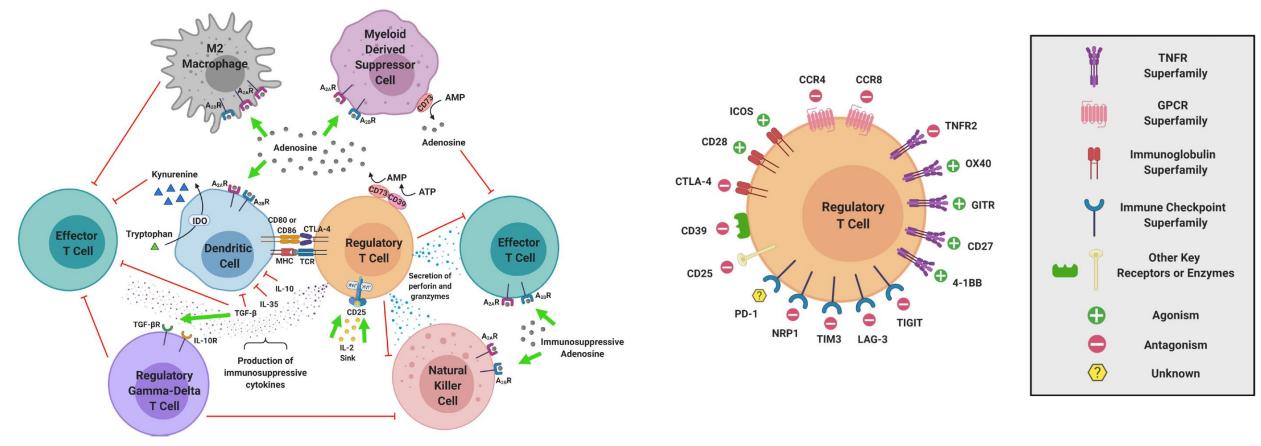
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Regulatory T Cells Mediated Immunosuppression & Targeting Opportunities

Regulatory T cells play vital immunosuppression

roles to support tumorigenicity.

Potential therapeutic approaches to target regulatory T cells.



Adapted from Dees et al., Eur J Immunol, 51:280;2021

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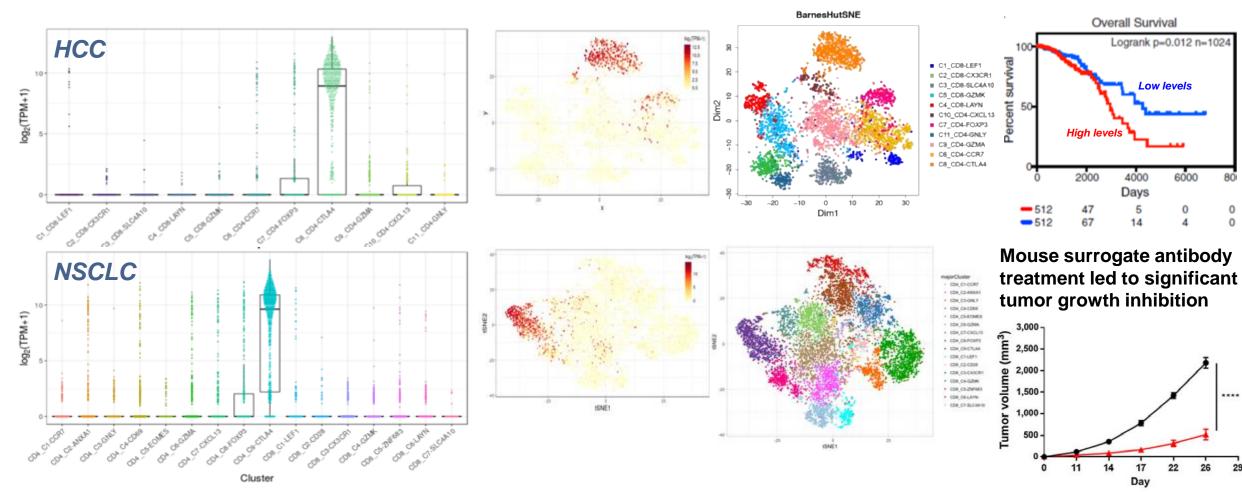
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Undisclosed First-in-class Antibody Program to Inhibit Treg Differentiation and Recruitment to TME



Proprietary single cell sequencing data revealed expression of the target in a distinct cluster of CD4 population in various tumors

High expression is associated with poor overall survival



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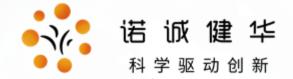
- Scientifically rationalized and clinical biomarker driven target identification (Single cell sequencing & Data mining)
- Structure biology assisted antigen design
- Proprietary phage library, mono-specific & multi-specific mAb platform
- In silico druggability & immunogenicity analysis; humanization, affinity maturation.
- Full spectrum functional assays & pharmacology capability
- Proprietary CHOK1 cell line and expression vector
- CMC capability





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Small Molecule Design



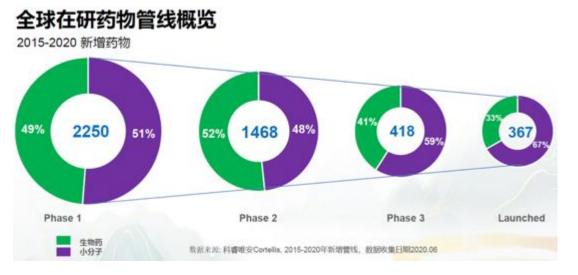
Chief Technology Officer

- More than 20 years of drug discovery experience
- Former Executive Director of Medicinal Chemistry at BioDuro, a PPD company
- Former Principal Scientist at Pfizer
 - Ph.D. in Organic Chemistry at Emory University



陈向阳博士 Dr. Xiangyang Chen

- Small, synthetic molecules remain remarkably prevalent in both development pipelines and on the market
 - Advantages of small molecules: oral, on targets in/out-side cell (CNS), differentiable, non-immunogenic, etc.
 - It's almost impossible to imagine just how many small molecules are out there
 - They're relatively easy to make, scalable, and profitable

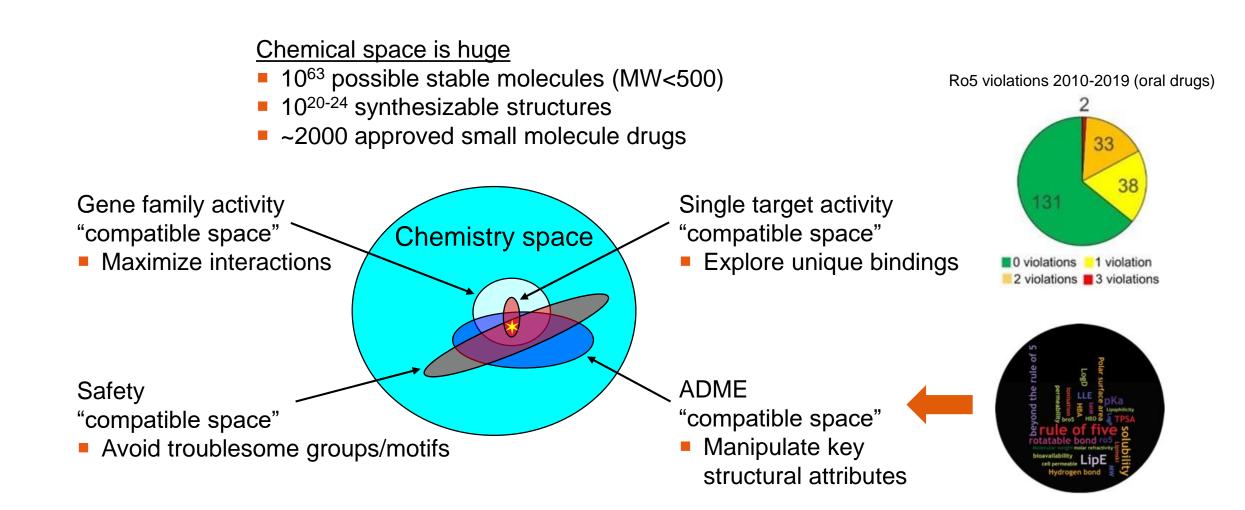




*From Cortellis' presentation

Finding a Drug Candidate – Right Balance





The Chemical Research @ InnoCare

- Apply our expertise in medicinal chemistry and structure-based drug design to discover novel NCEs with different chemical modalities and modes of action
 - Approach: structure understanding, template selection, multi-parameter optimization
 - Chemical modality: molecules in Ro5, beyond Ro5, macrocycles
 - Mode of action

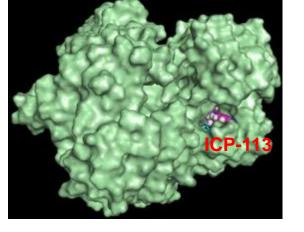
Binding site

- Active
- Allosteric
- Molecular glue

Tissue-specific

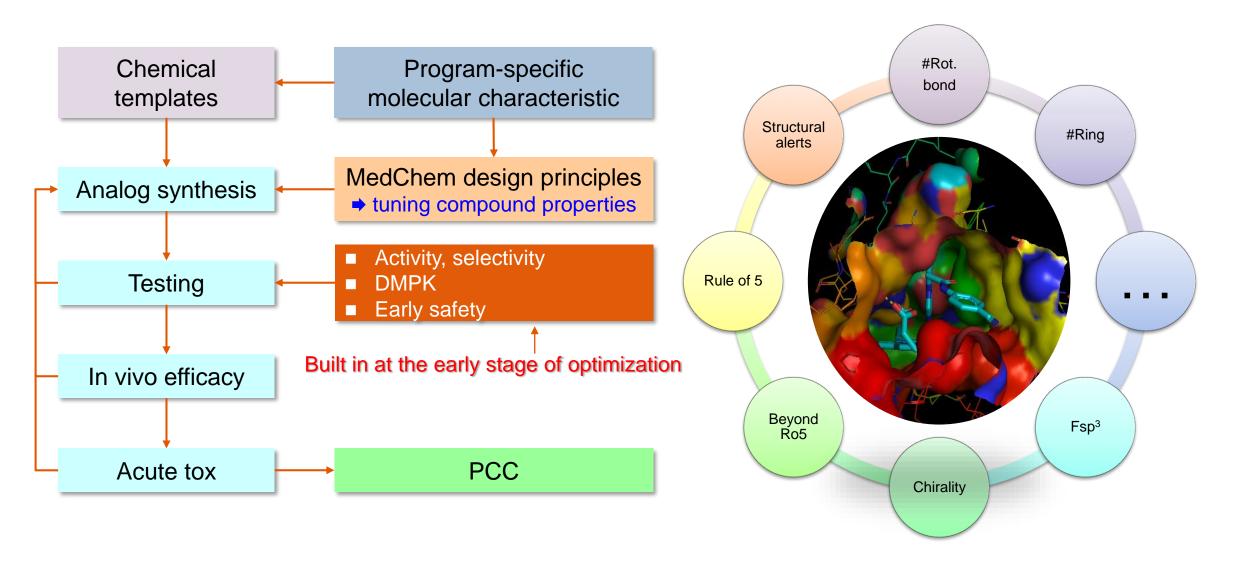
Binding mode

- Reversible
- Irreversible
- Protein degradation



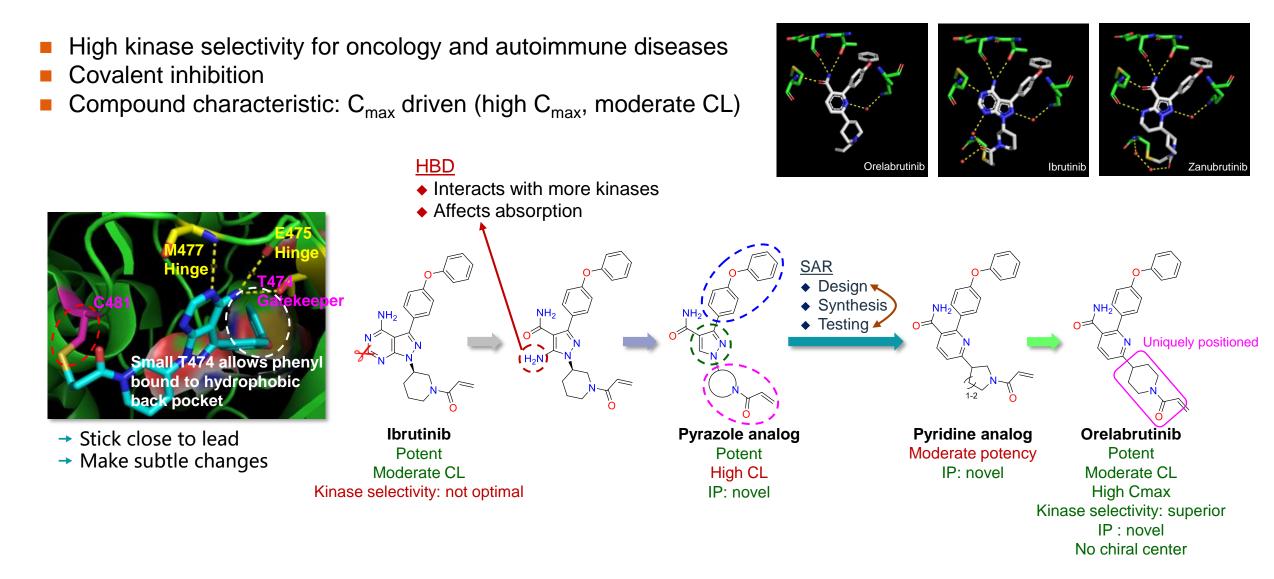
 Tackle different classes of the disease target: kinase, phosphatase, PPI, protein degradation, etc.





BTK: Orelabrutinib





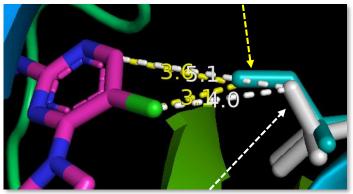
TYK2: ICP-332 & ICP-488



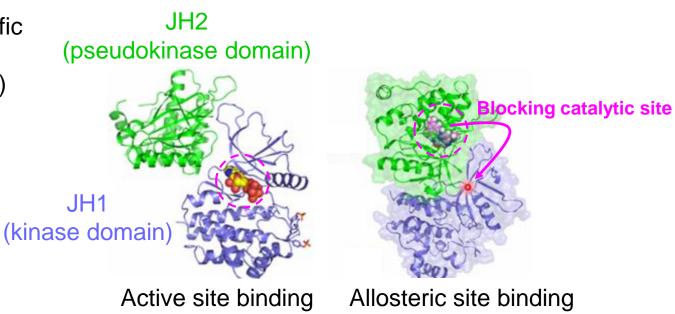
- Current JAK drugs are selective, but not specific
- High selectivity vs. JAK2
- Compound characteristic: AUC driven (low CL)

Achieving selectivity of ICP-332

TYK2 - Ile960



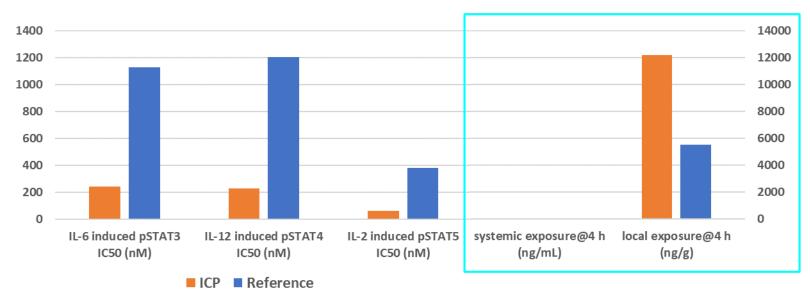
JAK2 - Val911

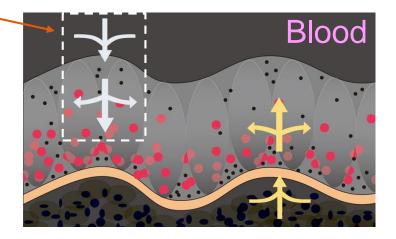


Inhibitor	IC ₅₀ (nM)	IC ₅₀ (nM) @1 mM ATP			
	TYK2 JH2	TYK2 JH1	JAK1	JAK2	JAK3
ICP-332	2319	0.5	19	191	930
ICP-488	5	>10,000			

JAK Inhibition for Local Treatment

- Tissue specific inhibition
 - High tissue exposure
 maximal activity at the inflammation site
 - Low systemic exposure
 minimize AEs
- Potent pan-JAK activity
- Compound characteristic: High CL and/or low permeability





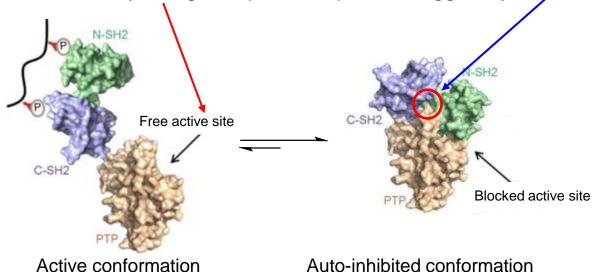
SHP2: ICP-189



- Protein phosphatase: difficulty to target
- Taking a molecular glue approach to stabilize inactive conformation
- Compound characteristic: AUC driven (low CL)

Unfriendly catalytic pocket:

- Positively charged
 poor compound druggability



Molecular glue:

- In central tunnel formed at the interface of three domains
 Stabilized in active form to inhibite phase between activity
 - Stabilizes inactive form

 inhibits phosphatase activity

ICP-189

$\sqrt{Ro5}$ (HBD = 2)The second constraintsPotentRo5Selective againist phosphatasesExcellent PKNo hERG@3 uMRo5

TNO-155 Ro5 (HBD = 6)

RMC-4630 Ro5 (HBD = 5)

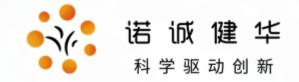


- Continue what we do best
- May expend into new chemical modalities/MOAs
 - PROTACs
 - ADC
 - Small molecules targeting RNA or RNA-protein complex
- Utilize new technologies
 - AI



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Commercial Insight for R&D



Function Head of Marketing

- 14 years of pharmaceutical experience with cross-functional position in Bayer, Novartis, J&J and Hengrui
 - 3.5 years overseas work experience
- Imbruvica launch in China and several blockbuster oncology products management
 - Neurosurgeon in Shandong Provincial Hospital

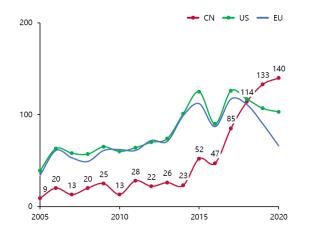


司志超博士 Dr. Zhichao Si

R&D and Commercialization



R&D is crucial to commercial success



- Clinical trial volume in China has exceeded US since 2018
- Innovative drug will empower market as essential competence

R&D innovation deeply changed the commercial model



- More swift update of new drugs/MOA
- Lifecycle management due to faster next generation approval

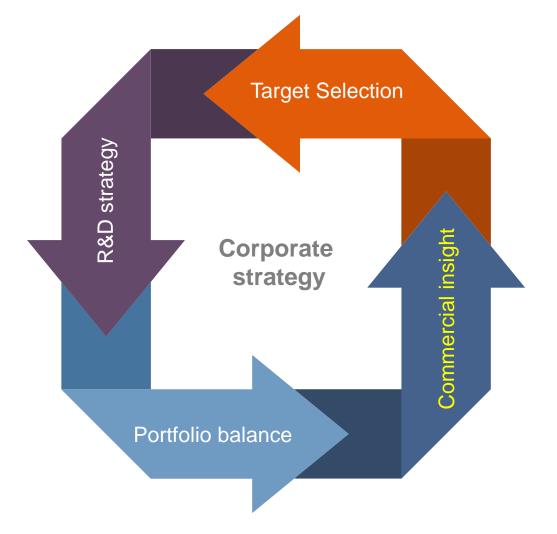
Commercial insights vice versa contribute to R&D thinking



- Rapidly changing competitive landscape
- Effort to understand and reflect the needs from stakeholders

Commercial Insights Incorporated into Corporate Strategy







Target population & market size

Who is it intended for? Which disease area? Which patients and where?



Key stakeholders opinions

Why will it be prescribed? Why will it be paid for?



The competitive landscape

How is it different from the product/MOA what is already there or will be?



Product value profile

Does it show promising efficacy? How is the safety profile? Stability? Route of Administration? Dosing Frequency?



Commercial insights contribute to R&D strategy

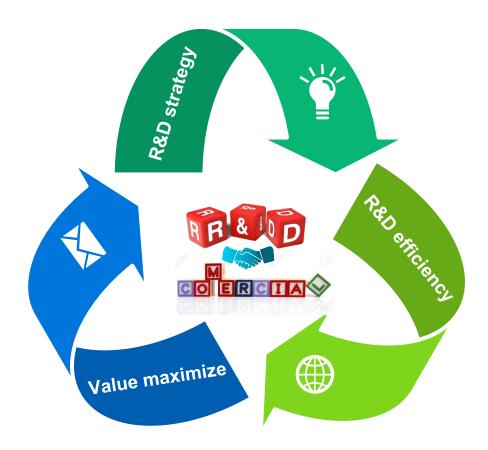
Selecting for success in the therapeutic area: from "Target product profile" to "Target value profile"

Commercial effort to improve R&D efficiency

Improve efficiency by leveraging post-market activities and insights

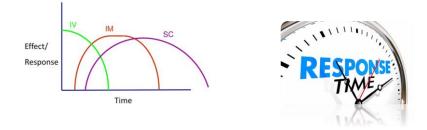
From R&D to R&D & Commercialization

R&D and commercial functions co-enables companies to make better informed portfolio decisions, serve patients, and achieve higher returns





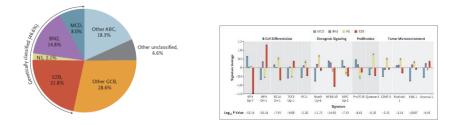
Insight: Physician pay special attention on quick onset which can also release patient concern



Impact on R&D strategy

- To put "fast onset and quickly release disease burden" as one of consideration when design new drug
- To smartly design a trial with emphasize the "fast onset" info and data

Insight : DLBCL subtype has higher unmet medical need while might have better response to BTK inhibitor



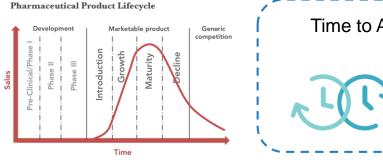
R&D action to respond

 To quickly initiate a registration trial to target relevant DLBCL subtype with combo regimen which could support DLBCL indication extension

Commercial Insights Contribute to R&D Strategy

How long will it take to develop?

Speed is everything to prolong lifecycle

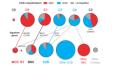


The starting point of lifecycle is decided by "first in class" approval other than the regulatory approval of "best in class" approval:

Time to Availability

Commercial to support R&D efficiency?

Improve efficiency by leveraging post-market insights



 Targeting of patient population and TA which could be on "<u>fast track</u>"



To <u>pre-prove the concept</u> by understanding clinical practice information which could be supportive for registration study



Provide KOL feedback and insights to contribute to improve enrolment plan



OR

Best in class

AND







- Aim to develop efficacious, innovative drugs for a wide range/focused therapeutics
- Aim to regulatory approval
- View to enrich company pipeline



- Aim to seek for market focused product and 'value added' evidence to differentiate
- Aim to deliver a high-value portfolio to the market
- View to quickly respond to market and stakeholder needs



R&D and commercial functions co-enable companies to make better informed portfolio decisions, serve patients, and achieve higher returns



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