



# Chinook Therapeutics

## Developing Precision Medicines for Kidney Diseases

ASN Kidney Week 2020 Reimagined  
Investor Webcast & Conference Call  
October 22, 2020

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# Today's Presenters



**Eric Dobmeier**  
President & CEO



**Richard Lafayette, MD, FACP**  
Associate Professor of Medicine (Nephrology) &  
Director of the Stanford Glomerular Disease  
Center at Stanford University Medical Center



**Alan Glicklich, MD**  
Chief Medical Officer



**Andrew King, PhD**  
Head of Renal Discovery & Translational Medicine

# Agenda

Introduction		Eric Dobmeier
Overview of IgA Nephropathy & Treatment Options		Richard Lafayette, MD, FACP
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PO1843	Results of a Phase 1 Trial to Investigate the Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of <b>BION-1301</b> in Healthy Volunteers	Andrew King, DVM, PhD
PO1620	Discovery of <b>CHK-336</b> : A First-in-Class, Liver-Targeted, Small Molecule Inhibitor of Lactate Dehydrogenase for the Treatment of Primary Hyperoxaluria	
SA-OR21	Single-Cell Transcriptomic Analysis to Define Cellular Heterogeneity in Human ADPKD	
Closing		Eric Dobmeier
Q&A		

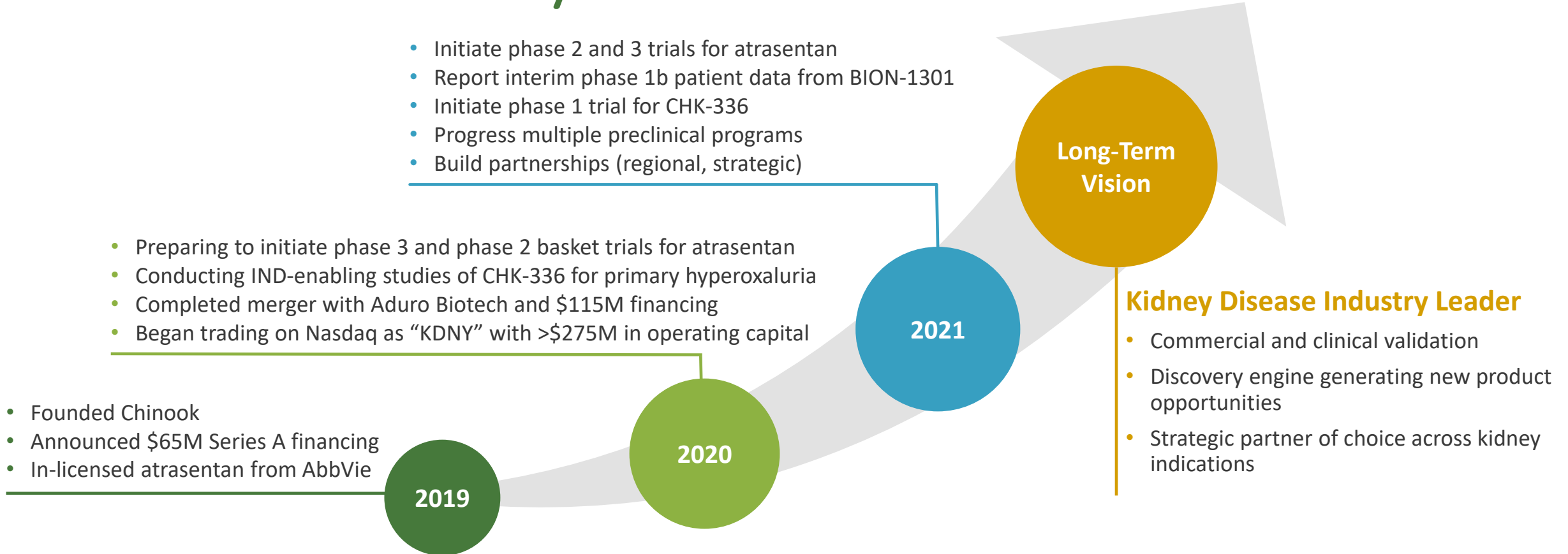


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# Introduction to Chinook

Advancing a pipeline of precision medicines for kidney diseases

# Building the Leading Company Developing Precision Medicines for Kidney Disease



## Guiding R&D Principles:

Focus on key pathways in kidney disease

Design novel, target and differentiated molecules

Utilize new and efficient translational approaches to speed R&D

Execute clinical trials in defined patient populations with surrogate endpoints

# Robust, Diversified and Focused Pipeline

*Advancing pipeline of precision medicines for kidney diseases*

Program	Indication	Target Validation	Lead Optimization	IND-Enabling	Phase 1	Phase 2	Phase 3
Atrasentan	IgA Nephropathy	Phase 3 initiation planned in early 2021					
	Basket of glomerular diseases	Phase 2 initiation planned in H1 2021					
BION-1301	IgA Nephropathy	Phase 1b ongoing					
CHK-336	Primary Hyperoxaluria	Phase 1 initiation planned in H2 2021					
Research Programs	Other rare, severe chronic kidney diseases including ADPKD						
Discovery Programs	Other rare, severe kidney diseases						

We will continue to evaluate opportunities to add additional kidney disease programs to pipeline





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# IgA Nephropathy (IgAN)

Chronic autoimmune kidney disease with no approved therapies



# Immunoglobulin A (IgA) Nephropathy (IgAN)

*A Progressive, Chronic Glomerular Disease with Limited Treatment Options*

IgAN is the most common primary glomerular disease globally, but still classified as an orphan indication with ~140K patients in the US

- Variable clinical presentation, ranging from asymptomatic microscopic hematuria to severe, rapidly progressive glomerulonephritis

Diagnosis requires kidney biopsy and immunofluorescence microscopy

- Dominant mesangial IgA deposits and other hallmark histological hallmarks

Approximately 30-45% of IgAN patients will develop end-stage kidney disease (ESKD) over a period of 20-25 years

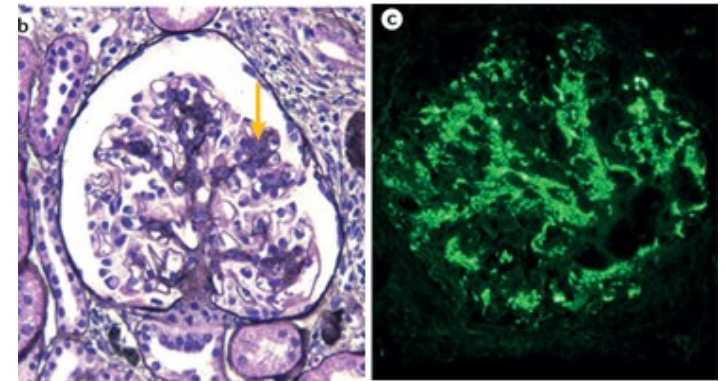
- ESKD requires chronic dialysis or transplantation for management

No approved treatments and limited options for high-risk patients

- Renin Angiotensin System inhibition (RASi) (ACEi/ARB) is frontline (KDIGO 1B)
- Immunosuppressive agents provide inconsistent therapeutic benefit and are accompanied by significant side effects (KDIGO 2C)

Urgent need for new treatments, in this typically young and otherwise healthy IgAN patient population at high risk for progressive kidney function loss

## Histological Diagnosis



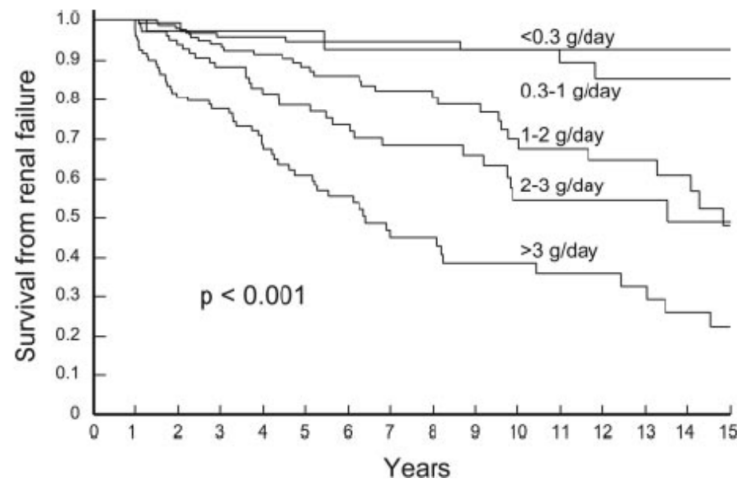
**Mesangial  
hypercellularity**

**Glomerular IgA  
deposits**

# Proteinuria Identifies IgAN Patients at Risk of Progression

*Proteinuria Recognized as a Surrogate Endpoint for Accelerated Approval*

High proteinuria levels are the most important predictor of kidney progression in IgAN



CJASN



## Proteinuria Reduction as a Surrogate End Point in Trials of IgA Nephropathy

Aliza Thompson,<sup>1</sup> Kevin Carroll,<sup>2</sup> Lesley A. Inker,<sup>3</sup> Jürgen Floege,<sup>4</sup> Vlado Perkovic,<sup>5</sup> Sonia Boyer-Suavet,<sup>6</sup> Rupert W. Major,<sup>7</sup> Judith I. Schimpf,<sup>4</sup> Jonathan Barratt,<sup>8</sup> Daniel C. Cattran,<sup>9</sup> Barbara S. Gillespie,<sup>10</sup> Annamaria Kausz,<sup>11</sup> Alex W. Mercer,<sup>12</sup> Heather N. Reich,<sup>9</sup> Brad H. Rovin,<sup>13</sup> Melissa West,<sup>14</sup> and Patrick H. Nachman<sup>15</sup>

Kidney progression with proteinuria **>1 g/day**

Sustained lowering of proteinuria to **<1 g/day** is associated with favorable **long-term prognosis**

Proteinuria reduction is anticipated to be the **surrogate marker to obtain accelerated approval in IgAN**

# Multi-Hit IgAN Pathogenesis

## *An Immune-mediated Primary Glomerular Disease*

### Initiating event thought to be an aberrant mucosal immune response

- IgAN commonly presents following a respiratory or gastrointestinal infection

#### Hit 1

- Increased production of Gd-IgA1 by IgA secreting plasma cells

#### Hit 2

- Gd-IgA1 is recognized as an autoantigen, by circulating IgG antiglycan antibodies

#### Hit 3

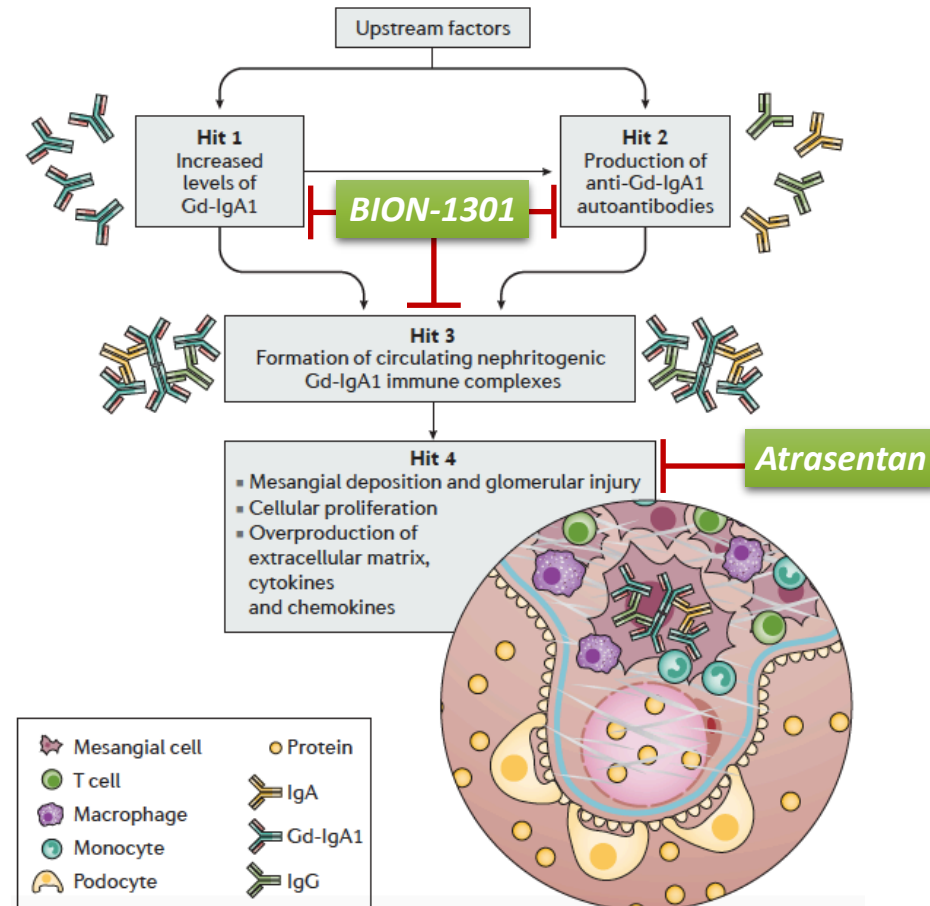
- Immune recognition results in the formation of immune complexes (ICs)

#### Hit 4

- Immune complexes deposit in the kidney, activating glomerular mesangial cell proliferation and production of extracellular matrix and inflammatory mediators
- Cellular crosstalk results in proteinuria, tubulointerstitial inflammation and fibrosis, leading to progressive kidney function loss

**New treatments are needed to target the formation of IgA ICs (Hits 1-3) and the kidney's pathogenic response to deposition of ICs (Hit 4)**

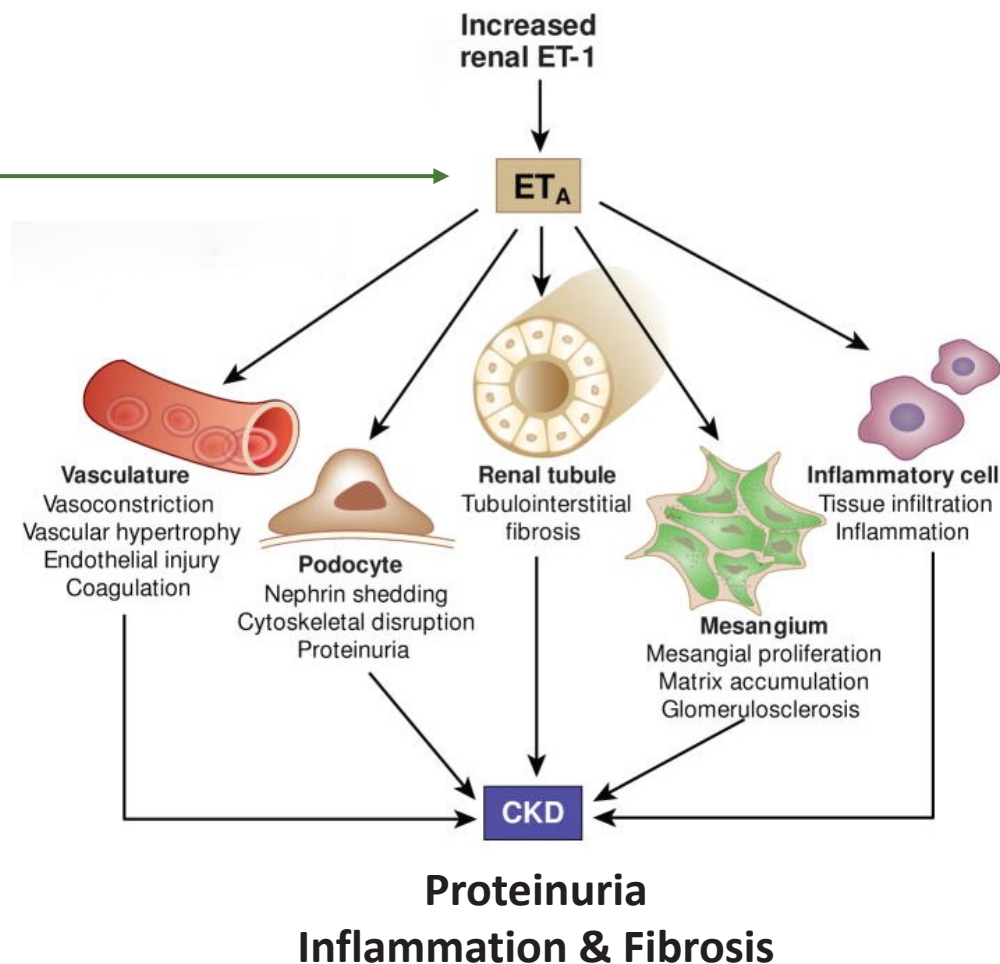
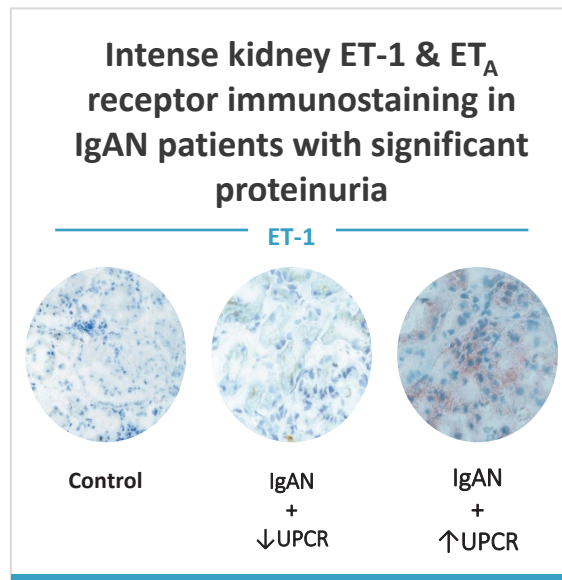
### Atrasentan & BION-1301 target distinct and complementary mechanisms of IgAN



# Atrasentan: A Potent and Selective ET<sub>A</sub> antagonist

*ET<sub>A</sub> Activation Drives IgAN Progression Through Multiple Potential Mechanisms (Hit 4)*

ET<sub>A</sub> receptor activation drives **proteinuria, mesangial cell activation & kidney inflammation & fibrosis**, all hallmarks of IgAN



ET system activation appears to be a key molecular determinant of the clinical course in IgAN

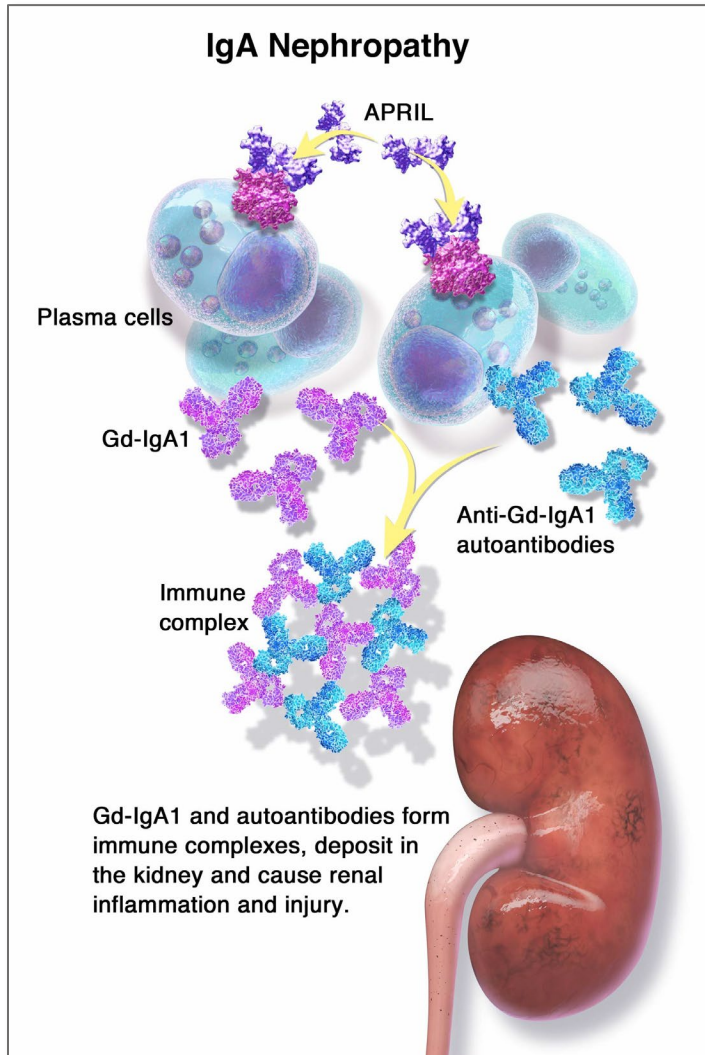
Elevated kidney ET-1 expression strongly & prospectively predicted progression of IgAN, 12 months following kidney biopsy

Blockade of the ET<sub>A</sub> receptor through atrasentan represents a promising approach to treat IgAN patients at high risk of progression (Hit 4)



# BION-1301: A Humanized Anti-APRIL Monoclonal Antibody

*A Potentially Disease Modifying Approach to Reduce IgA Immune Complex Formation (Hits 1-3)*



**A proliferation-inducing ligand (APRIL)**, is a cytokine that promotes IgA class-switching and survival of IgA-producing plasma cells, by activating its receptors, TACI & BCMA, and has been shown to increase Gd-IgA1 secretion <sup>1</sup>

In a study of IgAN patients, high plasma APRIL levels associated with higher Gd-IgA1 and proteinuria and lower estimated glomerular filtration rates <sup>2</sup>

BION-1301 is a humanized IgG4 monoclonal antibody, that binds APRIL and functionally blocks APRIL binding to both of its receptors, BCMA and TACI

**Blocking APRIL is a distinct approach to address the underlying cause of IgAN by reducing circulating levels of IgA, Gd-IgA1, anti-Gd-IgA1 autoantibodies and immune complex formation (Hits 1-3)**



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INFO29

# Phase 3, Randomized, Double-Blind, Placebo-Controlled Study of Atrasentan in Patients with IgA Nephropathy (The ALIGN Study)

Hiddo J. L Heerspink<sup>1</sup>, Donald E. Kohan<sup>2</sup>, Richard A. Lafayette<sup>3</sup>, Adeera Levin<sup>4</sup>, Vlado Perkovic<sup>5</sup>, Hong Zhang<sup>6</sup>, Andrew J. King<sup>7</sup>, Alan Glicklich<sup>7</sup>, Jonathan Barratt<sup>8</sup>

1. University Medical Center Groningen, Groningen, Netherlands. 2. The University of British Columbia Faculty of Medicine, Vancouver, BC, Canada. 3. University of Utah Health, Salt Lake City, UT, United States. 4. Chinook Therapeutics, Seattle, WA, United States. 5. Peking University First Hospital, Beijing, Beijing, China. 6. Stanford Medicine, Stanford, CA, United States. 7. University of New South Wales Faculty of Medicine, Sydney, NSW, Australia. 8. University of Leicester Medical School, Leicester, Leicester, United Kingdom.

# Atrasentan is an Investigational Potent, Highly-Selective $ET_A$ Inhibitor with Extensive Clinical Data in CKD

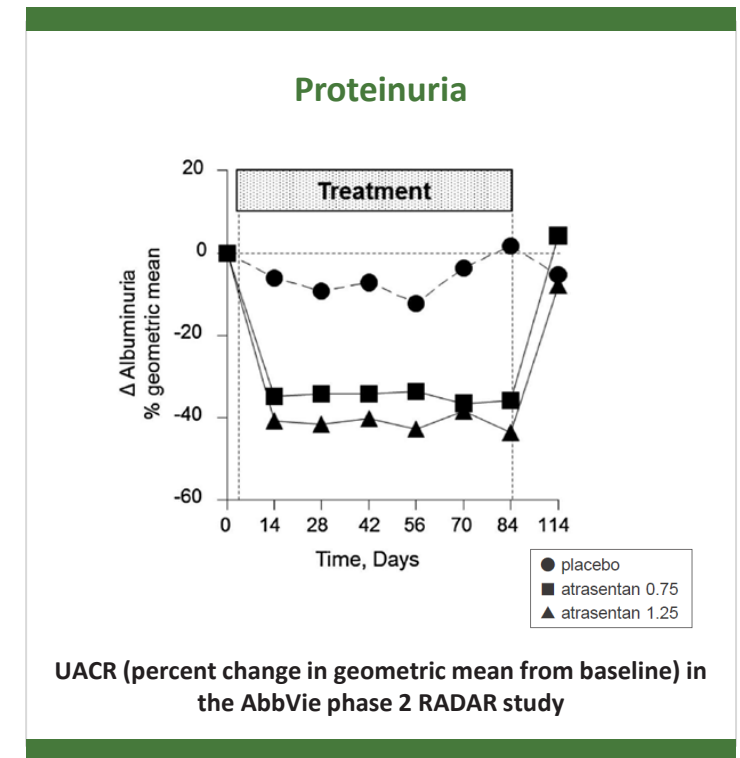
Potential to benefit IgA Nephropathy patients with a rapid registration pathway

## Previously developed by AbbVie

- Extensive clinical data in **>5,300 diabetic kidney disease (DKD) patients**, including improved clinical outcomes in the global SONAR phase 3 study
- **Rapid/sustained proteinuria reduction** and **preserved kidney function** observed in clinical trials
- **Well-characterized safety profile** (dosed up to 5 years in trials)
- **Optimal dose of 0.75 mg daily** established via detailed PK / PD modelling
- **Picomolar potency** and **highly selective for  $ET_A$**  (1860-fold vs.  $ET_B$ )

## Strong rationale for development in IgAN

- Potential to seek **accelerated approval** on proteinuria reduction as surrogate endpoint
- Patient population that is otherwise **younger** and **healthier** than DKD
- **Endorsement from KOLs** supporting the potential of  $ET_A$  inhibition in IgAN
- **Exclusivity period** based on IP and potential for orphan designation
- Unmet medical need creates **strong commercial opportunity**

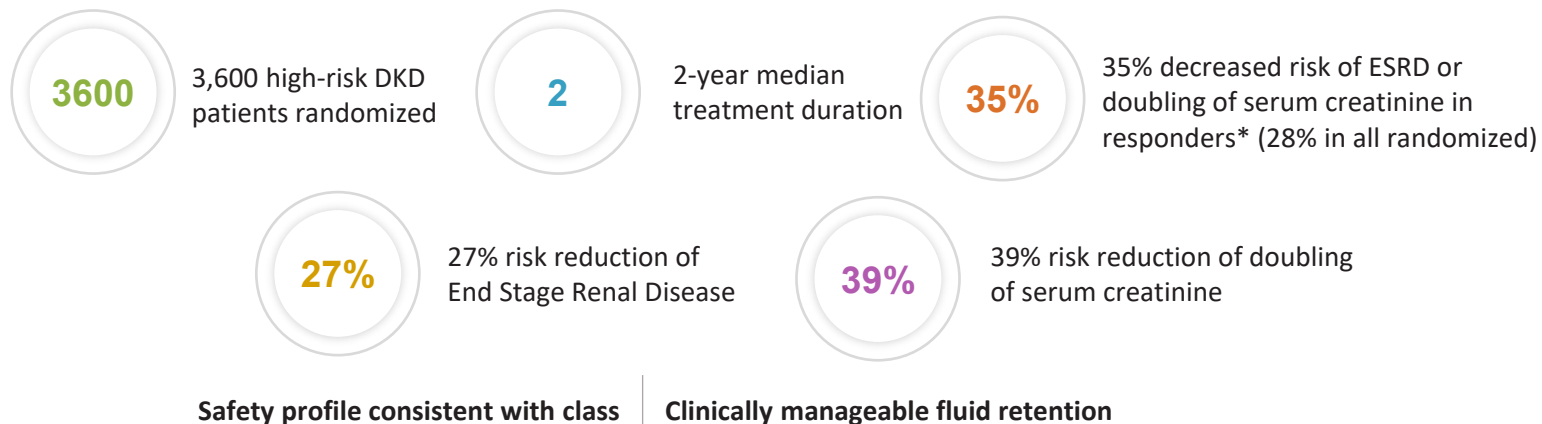




# AbbVie Global SONAR Phase 3 Outcome Trial in DKD



## SONAR Topline Results



**“These data support a potential role for selective endothelin receptor antagonists in protecting renal function in patients with type 2 diabetes at high risk of developing end-stage kidney disease.”**

- Heerspink et al.

\*Responders classified as patients who achieved >30% reduction in proteinuria

# Atrasentan Clinical and Regulatory Plan

## Phase 3 Targeting IgAN patients at High Risk for Disease Progression



- ✓ Biopsy-proven IgAN
- ✓ Patients on maximally-tolerated, optimized and stable dose of RASi or RASi intolerant
- ✓ Proteinuria >1 g/day and eGFR > 30 ml/min
- ✓ ~320 pts, 1:1 placebo randomization
- ✓ Global study with ~140 sites
- ✓ 6-month proteinuria primary endpoint (accelerated approval)
- ✓ 2.5 year eGFR secondary endpoint (full approval)

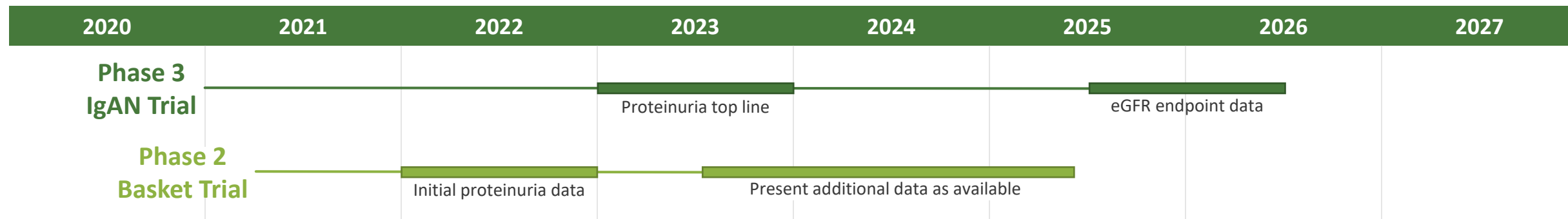
## Phase 2 Basket Trial to Expand Potential Across Multiple Indications



- ✓ Open-label design, 12-week proteinuria primary endpoint
- ✓ ~20 patients / cohort
- ✓ Overlap with phase 3 sites to support enrollment

### Cohorts include:

- ✓ IgAN with proteinuria 0.5 – <1 g/day
- ✓ FSGS
- ✓ Alport Syndrome
- ✓ DKD as add on to SGLT2 inhibitors





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PO1843

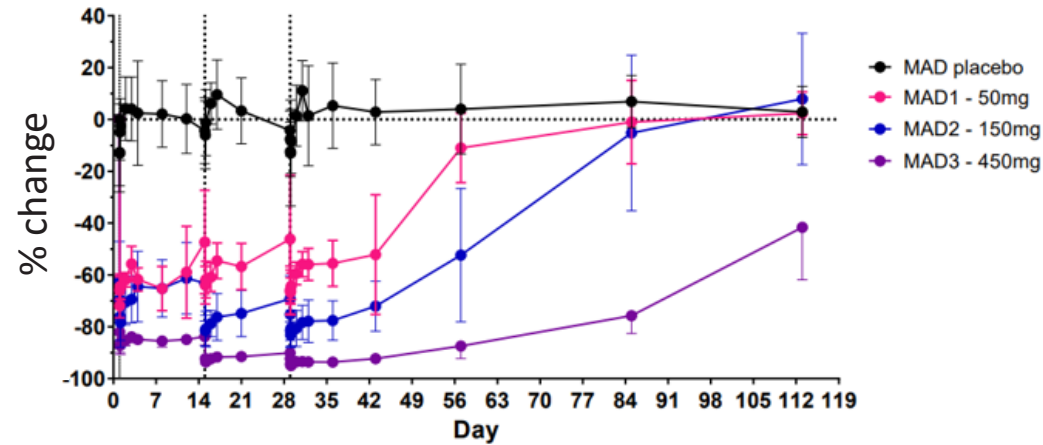
# Results of a Phase 1 Trial to Investigate the Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of BION-1301 in Healthy Volunteers (encore)

Jeannette Lo,<sup>1</sup> Sharon Yavrom,<sup>1</sup> Jessy Fan,<sup>1</sup> Aaron N. Endsley,<sup>2</sup> Tamara Schroeder,<sup>1</sup> Jonathan Barratt,<sup>4</sup> David M. Essayan.<sup>3</sup>

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2. Certara LP, Princeton, NJ;
3. ONCORD, Inc., Westlake Village, CA;
4. University of Leicester, Leicester, United Kingdom.

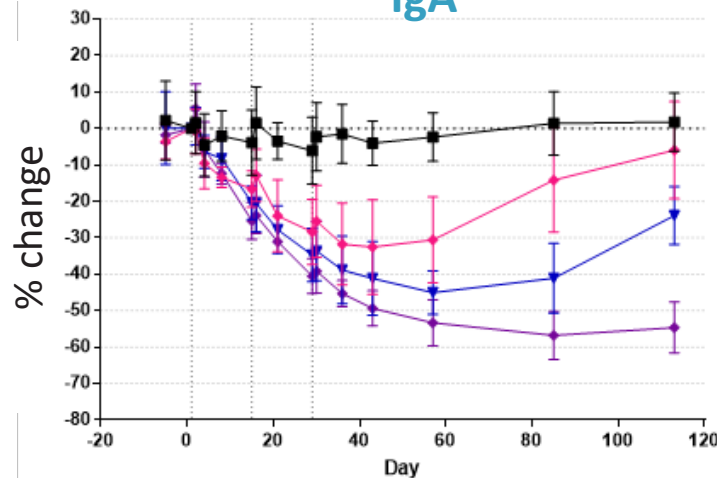
# BION-1301 Demonstrated IgA Reductions in a Phase 1 Healthy Volunteer Study

Free APRIL

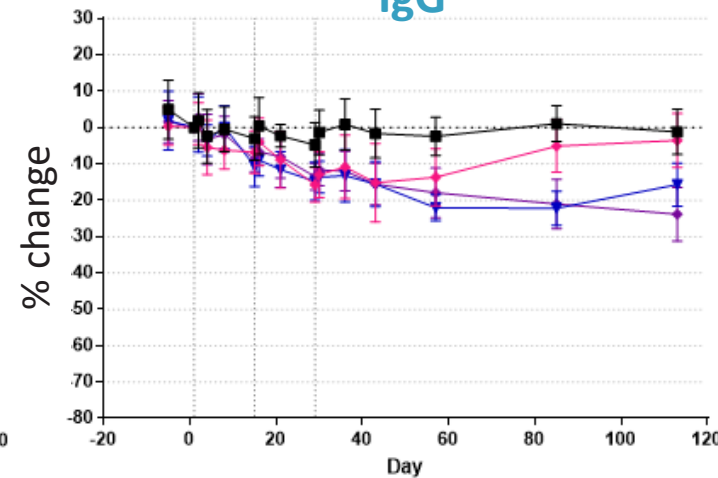


- BION-1301 was well-tolerated with low incidence of non-neutralizing ADAs reported
- Dose-dependent and durable reductions in free APRIL, IgA, IgM, and to a lesser extent, IgG
- Target of **~50-60% IgA reduction** achieved with 150-450 mg IV q2w
- PK profile was well-behaved, generally dose-proportional and demonstrated a half-life that supports the potential to be administered by monthly dosing
- Some accumulation observed, leading to greater & sustained PD responses with repeat dosing

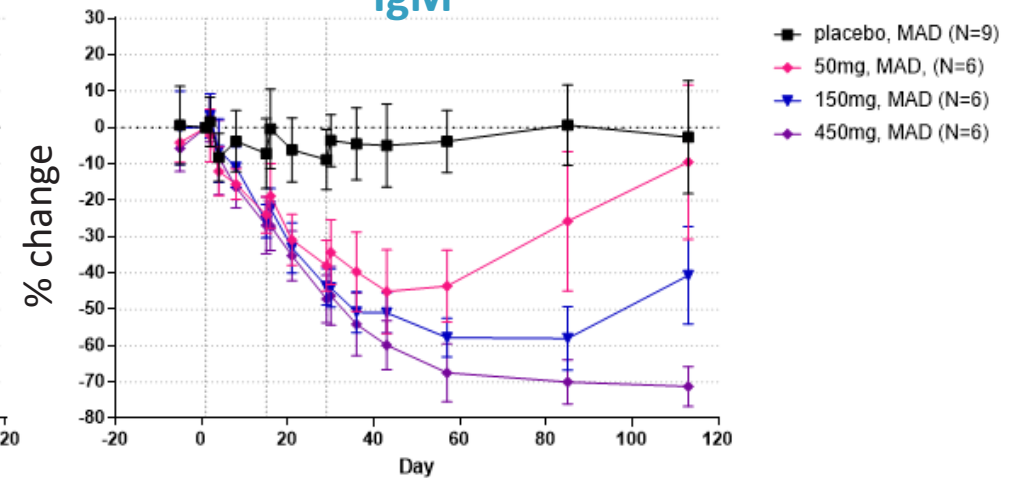
IgA



IgG



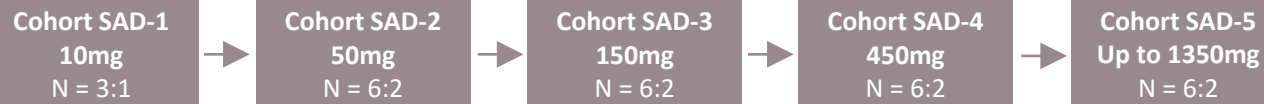
IgM



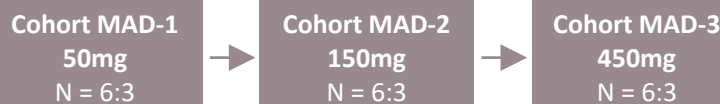
# BION-1301 Phase 1 in IgAN Patients Ongoing

- Part 3 currently enrolling IgAN patients
- BION-1301 administered by IV infusion every 2-4 weeks for 12 weeks
- Patients completing Part 3 may be eligible for a long-term extension trial for an additional 2 years
- Phase 1 IV/SC bioavailability study in healthy volunteers ongoing with potential transition to SC administration in the long-term extension and phase 2 studies

## Part 1: Double-blind, Placebo-controlled Single Ascending Dose (Healthy Volunteers) COMPLETE



## Part 2: Double-blind, Placebo-controlled Multiple Ascending Dose (Healthy Volunteers) COMPLETE



## Part 3: Open-label, Multiple Dose (IgAN Patients) ONGOING



## Part 3 Key Eligibility Criteria

- ✓ ≥ 18 years and older
- ✓ IgAN verified by biopsy within the last 10 years
- ✓ If kidney biopsy performed within 2 years is without fibrosis, eGFR >45 mL/min per 1.73m<sup>2</sup> OR 30-45 mL/min per 1.73m<sup>2</sup>
- ✓ Urine protein ≥0.5 g/24h; OR UPCR ≥0.5 g/g (or ≥ 50 mg/mmol)
- ✓ On a stable dose of RASi for >3 months or RASi intolerant





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PO1620

# Discovery of CHK-336: A First-in-Class, Liver-Targeted, Small Molecule Inhibitor of Lactate Dehydrogenase for the Treatment of Primary Hyperoxaluria

Jennifer H. Cox<sup>1</sup>, Marc-Olivier Boily<sup>1</sup>, Alex Caron<sup>1</sup>, Amandine Chefson<sup>1</sup>, Oliver Chong<sup>1</sup>, Jim Ding<sup>1</sup>, Valerie Dumais<sup>1</sup>, Samuel Gaudreault<sup>1</sup>, Robert Gomez<sup>1</sup>, James Guthrie<sup>1</sup>, Ross P. Holmes<sup>2</sup>, Andrew J. King<sup>1</sup>, John Knight<sup>2</sup>, Jeff Lester<sup>1</sup>, W. Todd Lowther<sup>3</sup>, Renata Oballa<sup>1</sup>, Michael D. Percival<sup>1</sup>, Tao Sheng<sup>1</sup>, Jayakumar Surendradoss<sup>1</sup>, Joyce Wu<sup>1</sup>, David A. Powell<sup>1</sup>

1. Chinook Therapeutics Canada, Inc., Vancouver, BC, Canada

2. University of Alabama at Birmingham, Birmingham, AL, United States

3. Wake Forest School of Medicine, Winston-Salem, NC, United States

# Primary Hyperoxaluria (PH)

*Rare and severe disorder leading to excess oxalate and end stage renal disease (ESRD)*

## Genetic liver enzyme deficiency resulting in excess oxalate

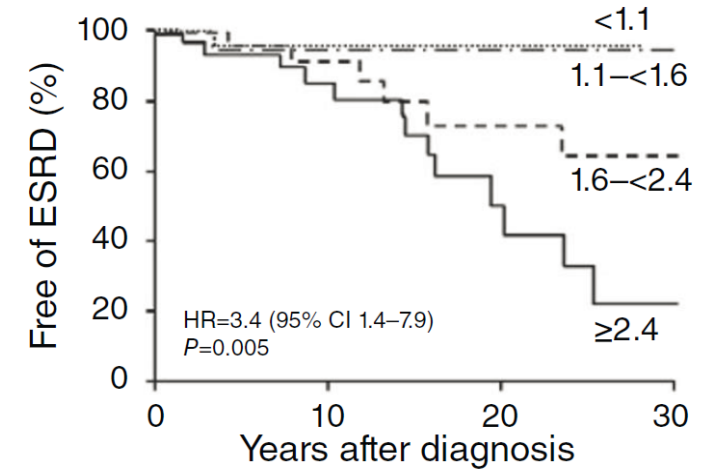
- Patients form many calcium oxalate kidney stones
- Median age of kidney failure in PH1 is 23 years
- Only curative treatment is dual kidney-liver transplant; no approved drug therapies

## Lower urinary oxalate (UOx) levels associated with reduced risk of ESRD

## Clinical proof of concept achieved by injectable siRNA agents (GO-siRNA for PH1 and LDHA-siRNA for PH1/PH2)

**No oral, small molecule therapies with potential to treat patients with all types of PH have been reported**

### ESRD Risk by Urinary Oxalate Levels<sup>1</sup>

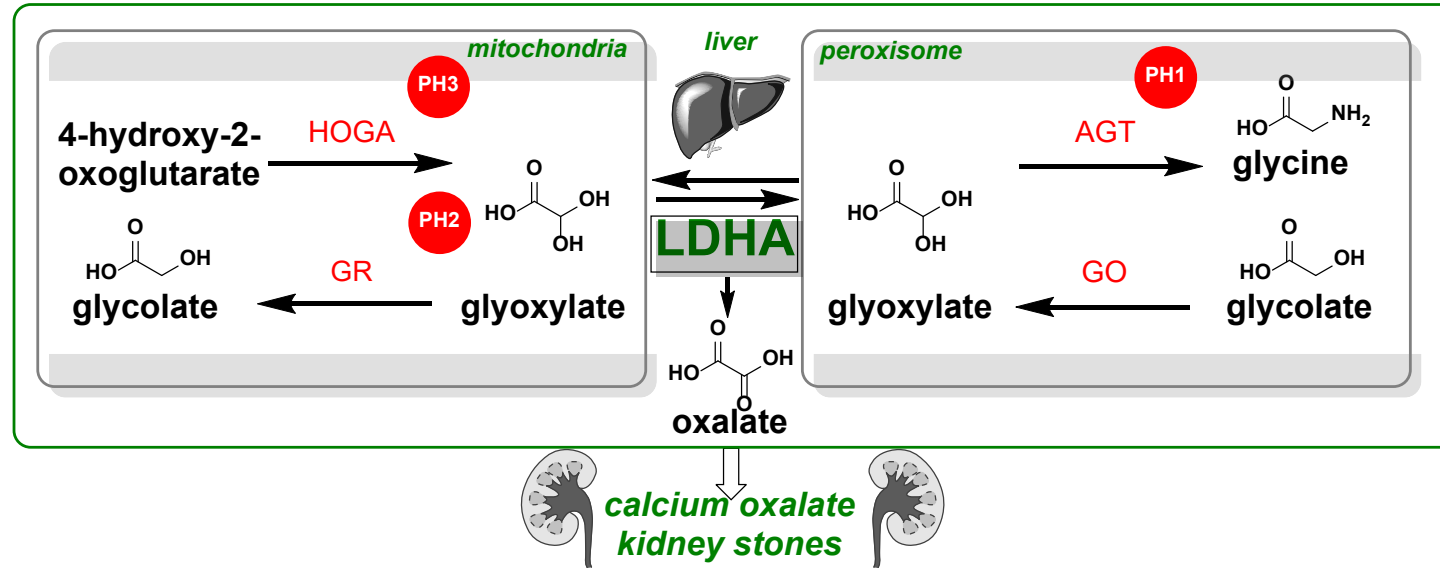


### Disease Progression of PH

- Abnormal liver metabolism of glyoxylate produces **excess oxalate**
- ↓
- Calcium **oxalate crystals form in the kidneys**
- ↓
- Decline in kidney function results in systemic **oxalosis**
- ↓
- Onset of **kidney failure**
- ↓
- Dialysis awaiting **dual liver / kidney transplant**



# Targeting LDHA Addresses All PH-Causing Mutations and Pathways



Three types of PH caused by different mutations:

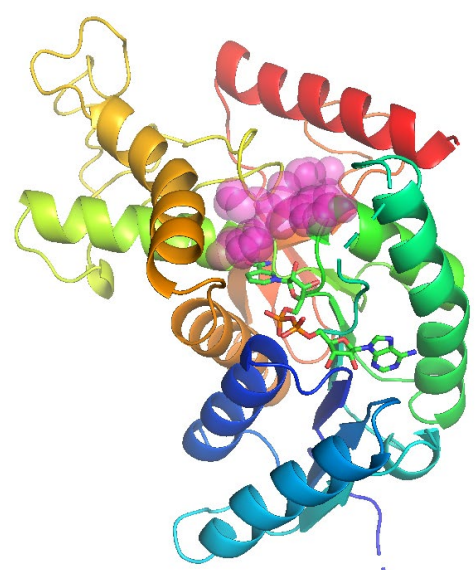
- PH1: AGXT (AGT protein)
- PH2: GRHPR (GR protein)
- PH3: HOGA1 (HOGA protein)

**Lactate dehydrogenase (LDHA) is the final and committed step in production of oxalate from glyoxylate in the liver**

- Represents a potential therapeutic target for all forms of PH, as well as other disorders arising from excess oxalate
- Complete loss-of-function of LDHA in humans results in exercise-induced muscle symptoms<sup>1</sup>, therefore liver-targeting with low systemic levels is needed
- Liver-specific LDHA inhibition is expected to be safe and well tolerated

Chinook designed, synthesized and characterized hundreds of LDHA inhibitors with the goal of identifying a potent and selective compound with a liver-targeted tissue distribution profile for the treatment of all types of PH

# CHK-336 is a Potent LDHA Inhibitor in Enzyme and Hepatocyte Assays Across Multiple Species



Compound design and sub-nM potency guided by structural biology and X-ray crystallography of LDHA-inhibitor complexes

	ASSAY	CHK-336 IC <sub>50</sub>
Enzyme	Human LDHA	0.4 nM
	Mouse LDHA	0.1 nM
Hepatocyte	Mouse Fresh Hepatocytes	52 nM
	Mouse Cryopreserved Hepatocytes	80 nM
	Rat Cryopreserved Hepatocytes	130 nM
	Monkey Cryopreserved Hepatocytes	130 nM
	Human Cryopreserved Hepatocytes	131 nM
PH1 Cell	Mouse Agxt Knockdown Hepatocytes (Oxalate Production)	293 nM

CHK-336 demonstrates potent inhibition of LDHA in enzyme assays (IC<sub>50</sub> = 0.1-0.4 nM) and primary hepatocyte assays across multiple species (IC<sub>50</sub> = 52-293 nM)

CHK-336 also demonstrated tight LDHA binding with a very slow off-rate (hours-days)

# Pharmacokinetic and Pharmacodynamic Properties of CHK-336

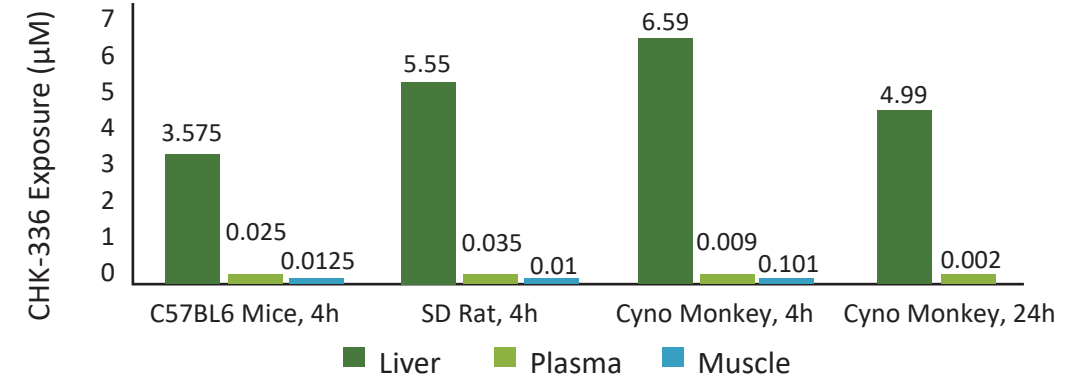
CHK-336 exhibits a liver-targeted tissue distribution profile in mice, rats and monkey with high liver concentrations and low extra-hepatic tissue exposures

Long liver half-life observed across species; driven by good metabolic stability and tight, slow-off rate binding of CHK-336 to LDHA in the liver

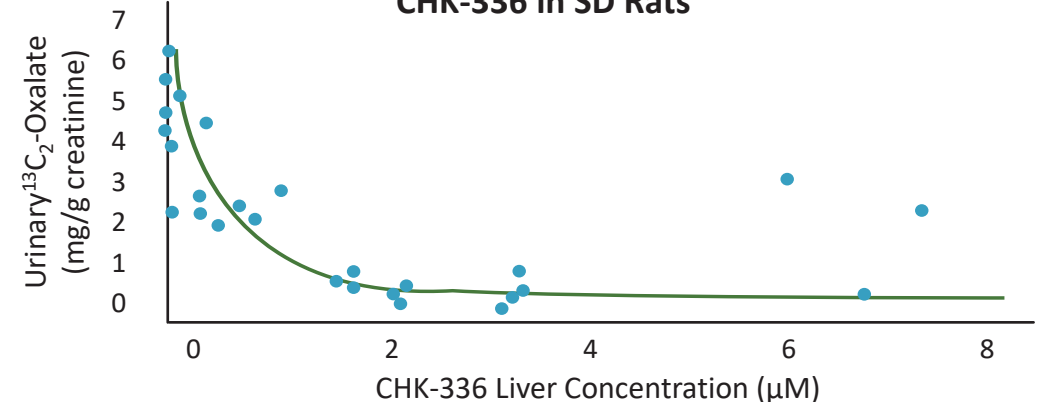
Well-profiled pharmacodynamic effect in mice and rats driven by liver concentrations: liver  $EC_{50}$  of  $\approx 3 \mu M$

Human PK predictions suggest CHK-336 has the potential to be a low, once-daily oral dose in humans

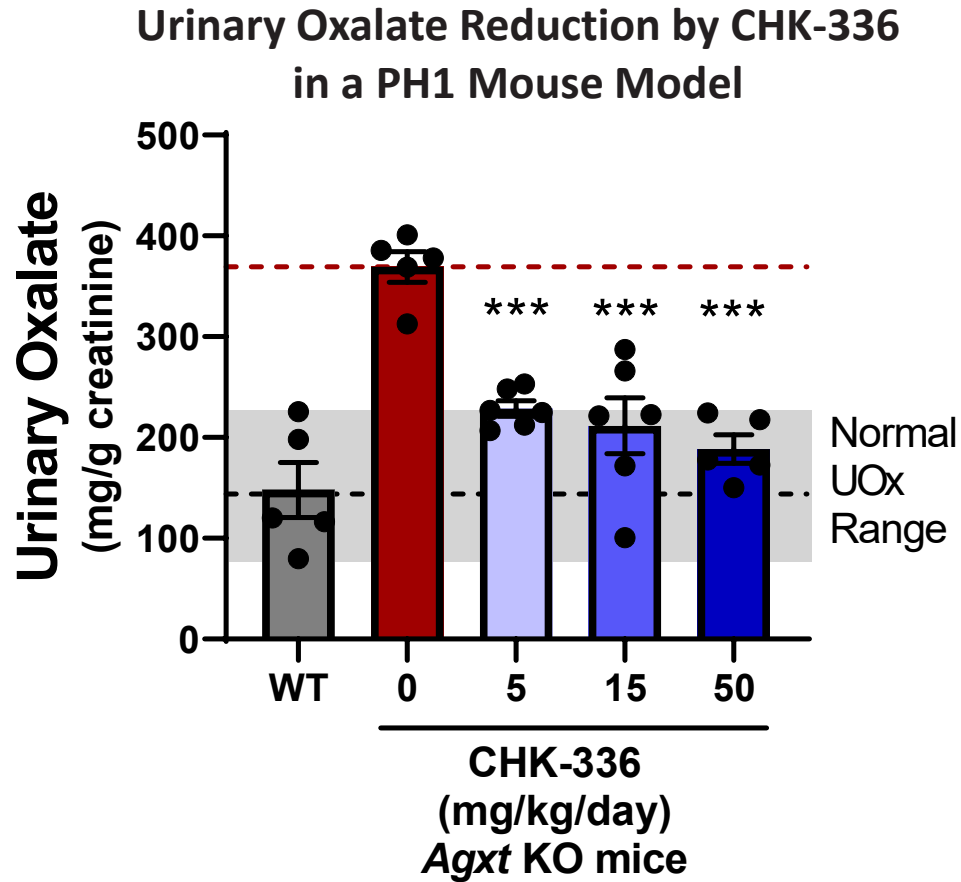
**Tissue Distribution Profile of CHK-336 Across Species**  
(normalized to 5 mg/kg oral dose)



**Pharmacodynamic – Pharmacokinetic Relationship of CHK-336 in SD Rats**



# CHK-336 Produced Significant and Dose-dependent Reductions in Urinary Oxalate in a PH1 Mouse Model



- A mouse model of PH1 was generated by CRISPR-Cas9 deletion of exons 3-8 of *Agxt*; these mice exhibited elevated urinary oxalate as expected
- CHK-336 was dosed orally, once-daily for 7 days in male *Agxt* KO mice and urinary oxalate concentrations were compared to a vehicle control group
- **Low, oral, once-daily doses of CHK-336 significantly reduced urinary oxalate; majority of treated mice reached the normal range observed in wild-type mice**
- Analysis of liver concentrations of CHK-336 resulted in a PK/PD relationship with a liver  $EC_{50}$  of 1 – 5  $\mu$ M CHK-336, consistent with rat liver PD values
- Similar data generated in a mouse *Agxt* knockdown model of PH1

# Non-Clinical Safety Assessment Supports Continued Advancement of CHK-336 into IND-enabling Studies

## Excellent in vitro Safety Profile

- Low risk of hERG mediated QT prolongation ( $IC_{50} > 30 \mu M$ )
- Non-mutagenic (negative in 5-strain AMES up to 5000  $\mu g/well$ )
- Excellent off-target selectivity profile (<50% inhibition at 10  $\mu M$  for 86 target panel, >450-fold selectivity for LDHA)

## Low Drug-Drug Interaction (DDI) Potential

- Low risk of CYP-mediated DDI
  - No CYP3A4 inhibition or time-dependent inhibition ( $IC_{50} > 30 \mu M$ )
  - No CYP3A4 induction in hepatocytes ( $IC_{50} > 10 \mu M$ )

## Promising Non-GLP in vivo Safety Profile

- Non-GLP in vivo safety studies suggest wide therapeutic margins over anticipated efficacious exposures
- Doses up to 1000 mg/kg/day explored in 14-day rat study

# Conclusions

- Targeting LDHA, the terminal step in hepatic oxalate synthesis, represents a potential therapeutic strategy for all forms of PH, as well as other disorders arising from excess oxalate
- By potently blocking LDHA and engineering a liver-targeted tissue distribution profile, CHK-336 represents a potentially safe and effective oral small molecule for the treatment of primary hyperoxaluria
- CHK-336 shows robust efficacy in a PH1 mouse model at low, once-daily oral doses including the ability to reduce elevated urinary oxalate levels to the normal range
- The non-clinical safety assessment of CHK-336 conducted to date supports continued advancement into IND-enabling studies

*CHK-336 is a first-in-class oral LDHA inhibitor with the potential to treat all subtypes of primary hyperoxaluria as well as other disorders arising from excess oxalate*



# Single-Cell Transcriptomic Analysis to Define Cellular Heterogeneity in Human ADPKD

Yoshiharu Muto,<sup>1</sup> Eryn E. Dixon,<sup>3</sup> Chidambaram Ramachandran,<sup>2</sup> Andrew J. King,<sup>2</sup> Stephen L. Seliger,<sup>3</sup> Owen M. Woodward,<sup>3</sup> Paul A. Welling,<sup>4</sup> Terry J. Watnick,<sup>3</sup> Benjamin D. Humphreys.<sup>1</sup>

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4. Johns Hopkins School of Medicine, Baltimore, MD, United States



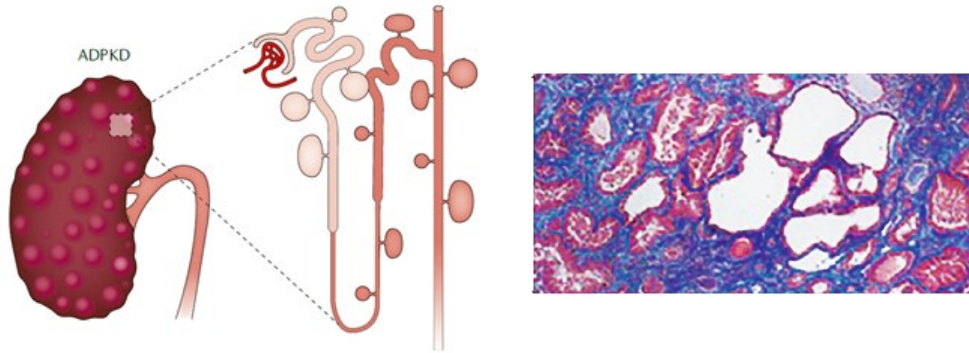
# Single-Cell Transcriptomic Analysis to Define Cellular Heterogeneity in Human ADPKD

*SA-OR21: Oral Presentation, Saturday, October 24, 2020 at 5:00 – 7:00 pm ET*



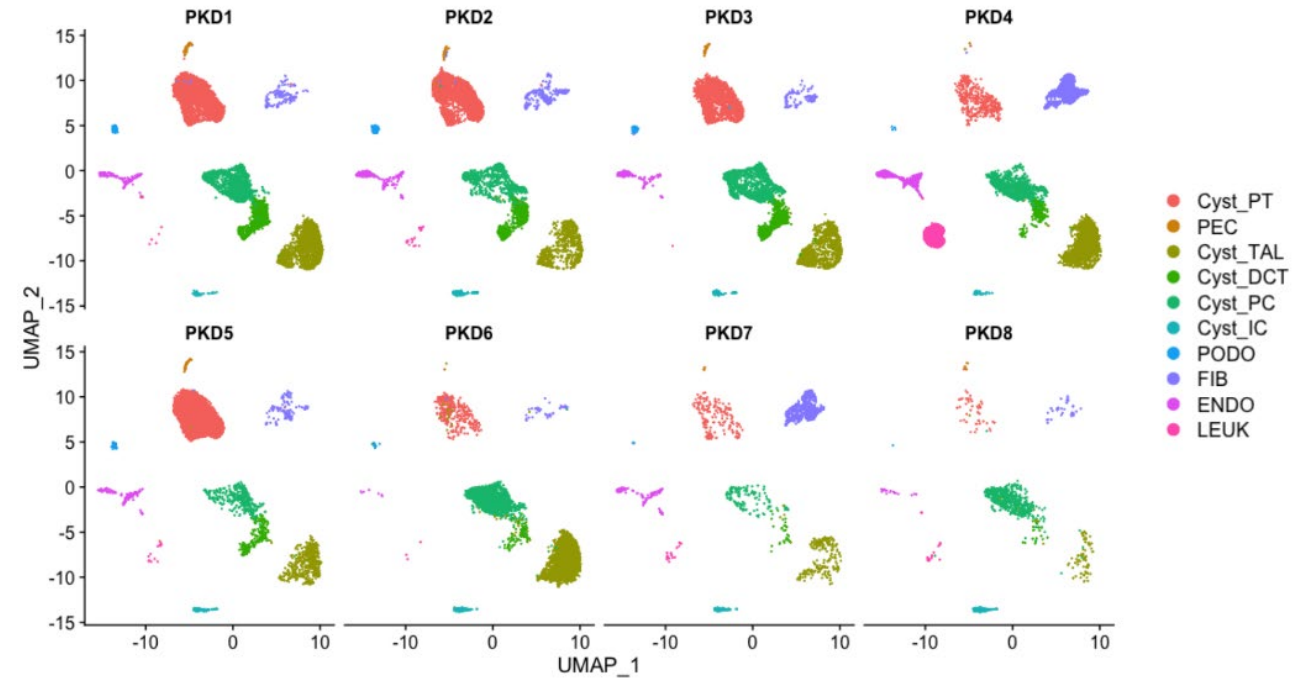
Ben Humphreys, MD, PhD

- ADPKD is the most common potentially lethal monogenic disorder globally and the most common inherited kidney disease with ~50% of patients progressing to ESKD by age 60



- The kidney has nearly 30 distinct cell types
- In ADPKD, cysts arise out of <1% of nephrons and only from discrete cell populations
- Single cell transcriptional resolution is required to define the central molecular drivers of cystogenesis

## Multiple cell types detected in each ADPKD Patient Sample



- To our knowledge, this is the first single cell transcriptomic atlas described for human ADPKD
- Potential for unprecedented mechanistic insight into ADPKD



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# Closing

# Chinook Well-Positioned to Achieve Value-Generating Milestones

- **Building a differentiated and proprietary pipeline of precision medicines** targeting IgA nephropathy, glomerular diseases and other rare, severe chronic kidney diseases
- **Well-capitalized** to support multiple clinical and preclinical programs with >\$275 million in capital upon closing of the Aduro merger and concurrent financing
- **Two clinical programs with potentially complementary mechanisms in IgA nephropathy** with atrasentan and BION-1301
  - IgA nephropathy is a large patient population with great unmet medical need
  - Atrasentan program de-risked through well-characterized safety profile and extensive data collected in >5,300 DKD patients
    - Phase 3 AFFINITY and phase 2 ALIGN trials initiating in H1 2021
  - BION-1301 has the potential to be a disease-modifying therapy with possibility to combine with other therapies, including atrasentan
    - Enrollment of IgAN patients ongoing in part 3 of phase 1 study, with interim data expected in H1 2021
- CHK-336, a **first-in-class, liver-targeted, oral LDHA inhibitor**, has the potential to treat all subtypes of PH and other disorders arising from excess oxalate
- Several research and discovery programs ongoing in other rare, severe chronic kidney diseases including ADPKD



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Q&A



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