

Innovation to Improve Kidney Health Outcomes Lead Program: Varoglutamstat in Diabetic Kidney Disease

July 2025

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Vivoryon: Poised to improve kidney health with varoglutamstat's novel mechanism of action and breakthrough clinical results



Strong scientific base; novel MoA (QPCT/L inhibition); pE-CCL2 data confirms target engagement



Two independent Phase 2 studies¹; compelling long-term kidney function improvement



Extensive safety data package for varoglutamstat with convenient dose escalation scheme



Focused development plan for significant commercial opportunity in DKD and beyond



Additional potential orphan indications e.g. Alport syndrome / Fabry disease



Composition of matter protection in US until 2044+2; expansions to ROW due end 2025



Cash runway into January 2026; actively pursuing funding and BD opportunities



Inhibiting QPCTL has potential to halt the progressive course of kidney disease through unique approach to tackle inflammation and fibrosis

Huge unmet medical need



Current treatments do not stabilize / improve kidney function leaving significant risk of ESRD (dialysis, transplant) or cardiovascular event

Inflammation a key underlying driver



Inflammation and fibrosis have long been known as key drivers of disease yet attempts to develop effective therapeutics selectively targeting key pathways have had limited success

Targeting QPCTL to unlock inflammatory approach



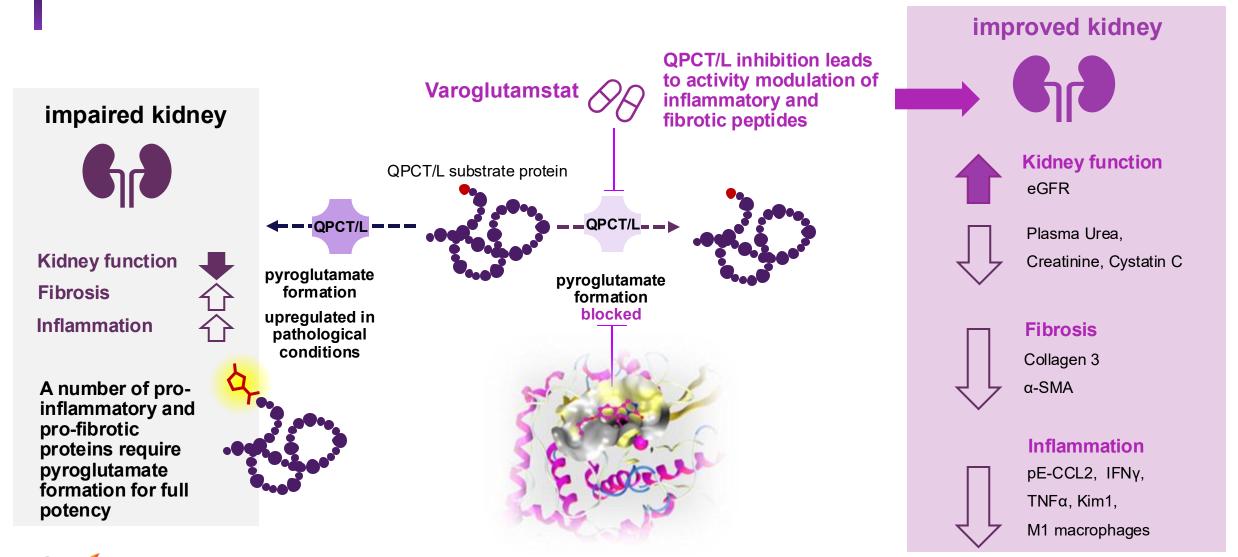
Vivoryon has identified QPCTL, an enzyme that creates pro-inflammatory pE-versions of key inflammatory proteins, as a promising target with potential to stabilize disease

Varoglutamstat

- Oral, selective QPCTL inhibitor
- Significantly improved kidney function¹ in two independent Phase 2 studies²
- Unprecedentedly large and sustainable effect size over two years



Groundbreaking discovery: Inhibition of QPCT/L reduces kidney inflammation and fibrosis, and improves pathophysiology and kidney function



Vivoryon has evaluated varoglutamstat's effect on kidney function in two independent randomized double-blind placebo-controlled Phase 2 studies



VIVA-MIND Phase 2 (USA)

Similarities and differences between VIVIAD & VIVA-MIND

Parameter	VIVIAD (Europe)	VIVA-MIND (U.S.)		
Patient selection	Mild AD, mean age 68 yrs	Mild AD, mean age 72 yrs		
No. of patients treated	n=259	n=109		
Varoglutamstat dose	300 and 600 mg BID	600 mg BID		
Dose escalation period	Slow: 600 mg start week 13	Fast: 600 mg start week 9		
Treatment duration	76 wks (mean) / 96 wks (max.)	46 wks (mean) / 72 wks (max.)		
eGFR¹ sampling	Every 12 weeks plus week 4	Every 12 weeks plus weeks 4, 8,16		
No. of patients with diabetes	n=32 (12.4%)	n=16 (14.7%)		

Kidney function, measured using eGFR, was a pre-specified safety / exploratory endpoint



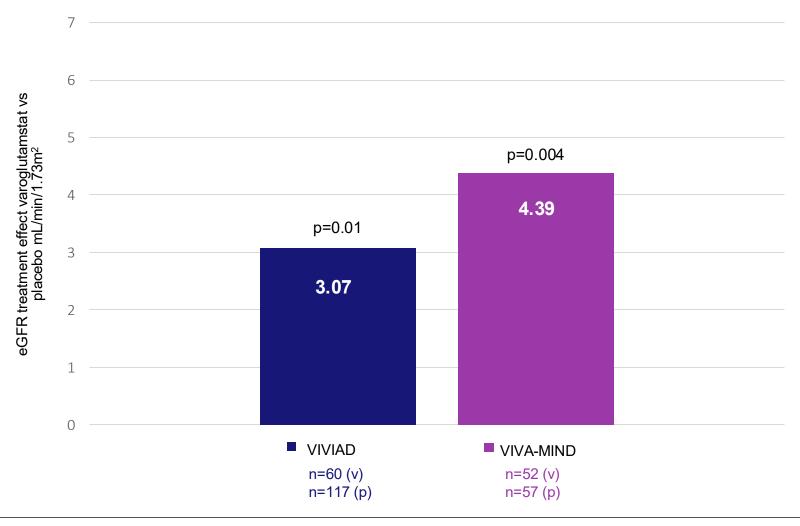
VIVIAD and VIVA-MIND both show a statistically significant and clinically meaningful improvement in eGFR over baseline

eGFR results (MDRD); all patients randomized to 600 mg BID varoglutamstat (v) and placebo (p)

eGFR treatment effect:

Difference between varoglutamstat and placebo (LSmean change from baseline)

Total population, 600 mg BID patients only, all visits



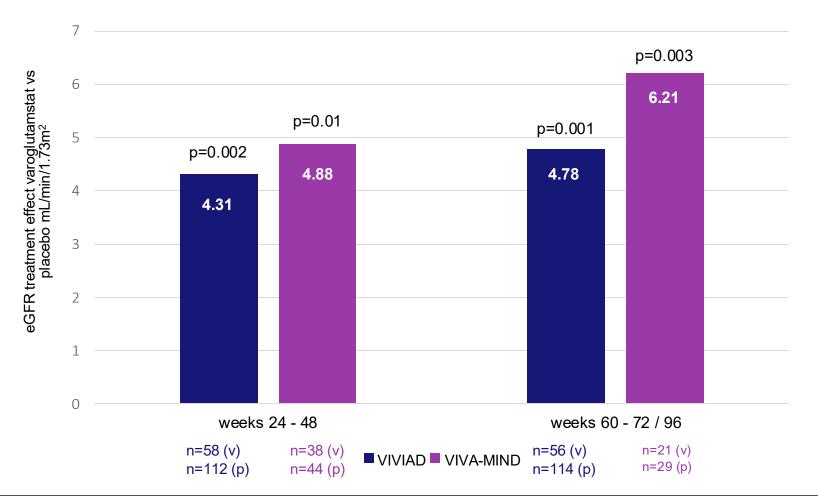


Consistent improvement in kidney function and effect size across distinct treatment periods in both studies

Sensitivity analysis; all patients randomized to 600 mg BID varoglutamstat (v) and placebo (p)

eGFR treatment effect:

Difference between varoglutamstat and placebo (LSmean change from baseline)



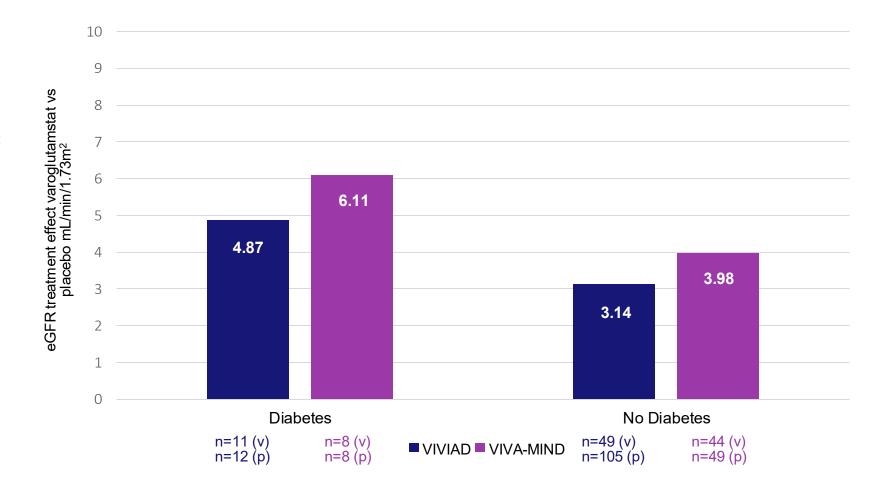


Results are nearly identical between studies when comparing treatment effect in patients with or without diabetes, with consistently higher effect in diabetes

Subgroup analysis; with and without diabetes; 600 mg BID varoglutamstat (v) and placebo (p)

eGFR treatment effect:

Difference between varoglutamstat and placebo (LSmean change from baseline)



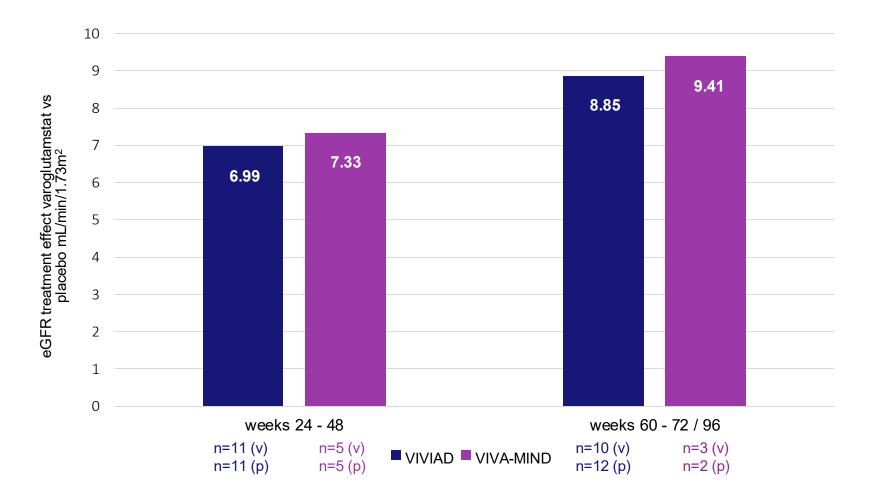


Consistent and very strong efficacy signal and large treatment effect observed in both studies in patients with diabetes at different timepoints

Subgroup analysis; patients with diabetes; 600 mg BID varoglutamstat (v) and placebo (p)

eGFR treatment effect:

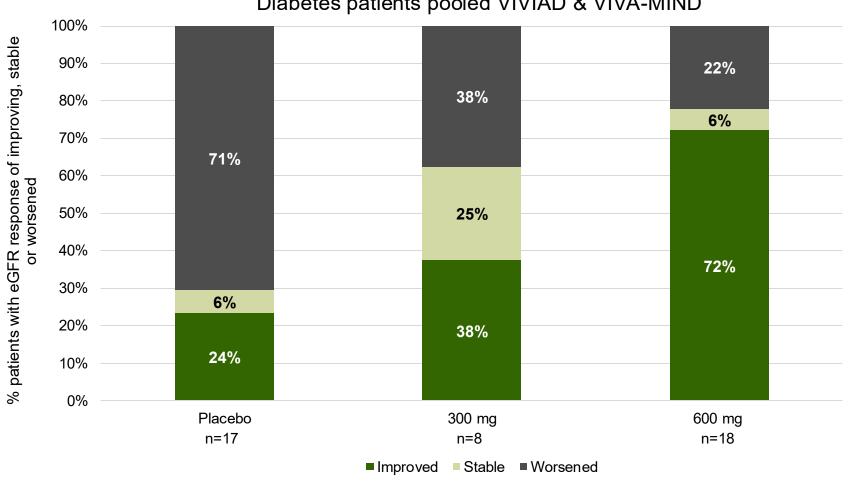
Difference between varoglutamstat and placebo (LSmean change from baseline)





Responder analysis: kidney function predominantly improved or stabilized in varoglutamstat treated patients compared to a decline in the placebo group





Classification of eGFR response

(change vs. baseline, mL/min/1.73m²)

- Improved: ≥ 2 mL above baseline
- ≥ 0 < 2 mL above baseline
- Worsened: < 0 mL below baseline

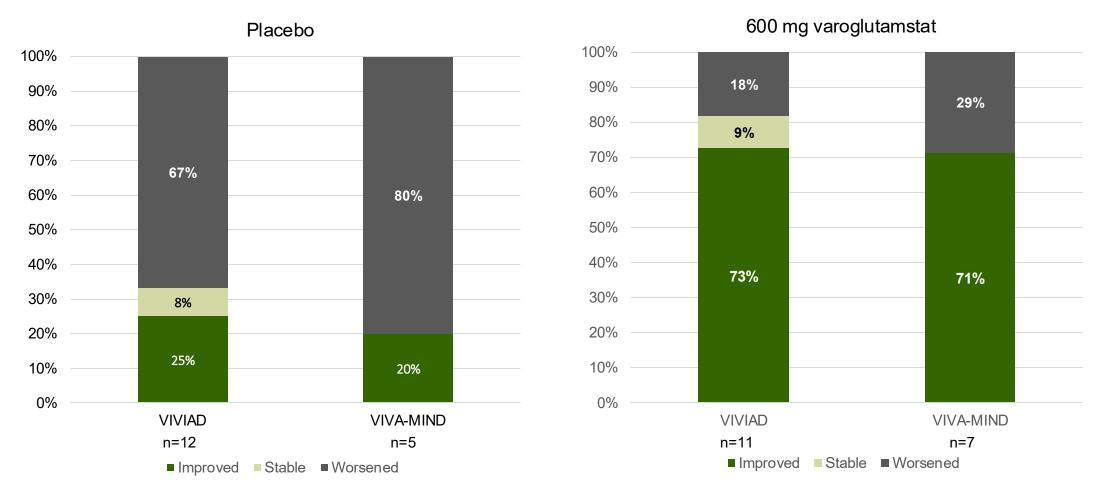
Response analysis (proportional odds)

300 mg vs placebo 2.91, 95% CI (0.55, 15.53), p=0.2106

600 mg vs. placebo 9.20, 95% CI (2.14, 39.50), p=0.028



Sensitivity analysis: side by side comparison of responder analysis in diabetes patients shows high consistency between studies in diabetes patients

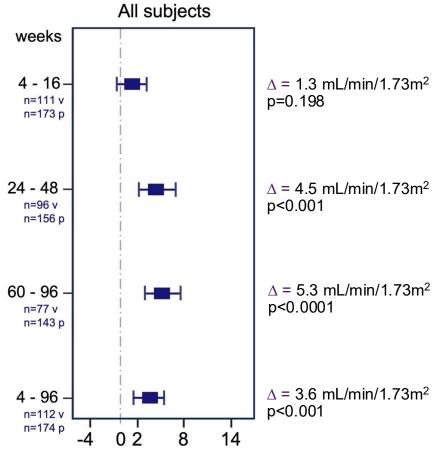


Classification of eGFR response (change mean eGFR (week 12-EOT) vs. baseline, mL/min/1.73m²): Improved: ≥ 2 mL above baseline, Stable: ≥ 0 - < 2 mL above baseline, Worsened: < 0 mL below baseline



VIVIAD and VIVA-MIND: Meta-analysis shows strong effect on eGFR

Difference of change from baseline between varoglutamstat (v) and placebo (p) of eGFR (MDRD)



Treatment effect and 95% confidence intervals (mL/min/1.73m²)

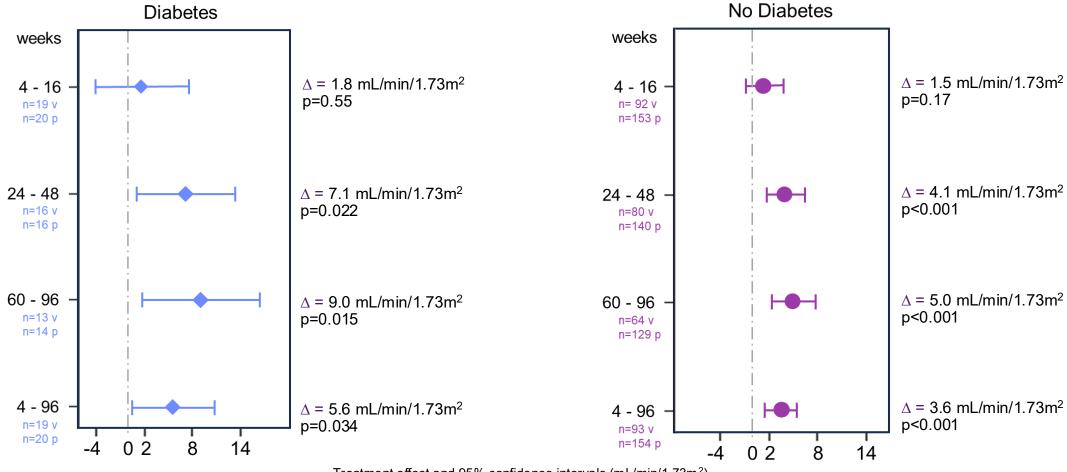
- 0: No treatment effect; > 0: Improvement of eGFR (MDRD);
- n: Number of patients in the varoglutamstat (v) and placebo (p) group

- Meta-analysis includes all patients on placebo and all patients randomized to 600 mg varoglutamstat BID of both studies (patients randomized to 300 mg BID in VIVIAD not included)
- Improvement of eGFR kidney function is demonstrated in the total population
- Difference of change from baseline between varoglutamstat and placebo becomes significant at week 24
- Treatment effect is maintained for 2 years



VIVIAD and VIVA-MIND: Meta-analysis shows a larger effect size in diabetes versus non-diabetes patients

Difference of change from baseline between varoglutamstat (v) and placebo (p) of eGFR (MDRD)



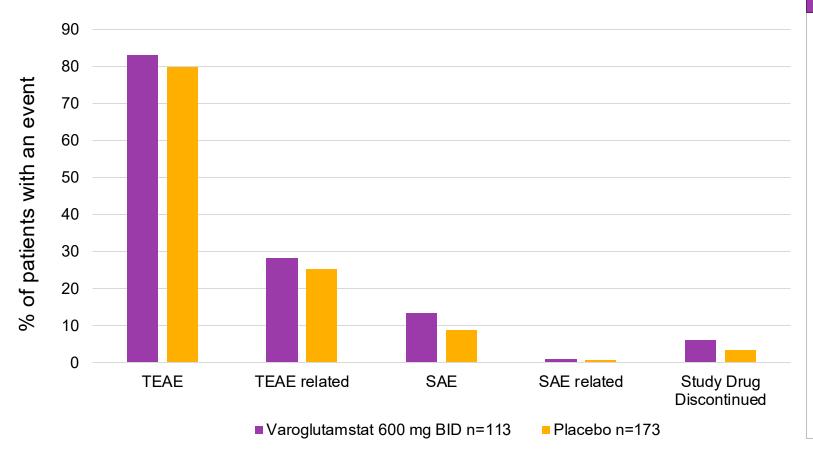
Treatment effect and 95% confidence intervals (mL/min/1.73m²) 0: No treatment effect; > 0: Improvement of eGFR (MDRD);

n: Number of patients in the varoglutamstat (v) and placebo (p) group



Safety: pooled analysis of VIVIAD and VIVA-MIND 600 mg varoglutamstat is well tolerated

All patients randomized to 600 mg varoglutamstat BID and placebo



Extensive safety package (# / duration)

Pharmacology / Phase 1

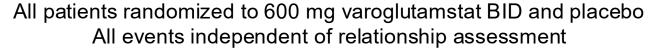
- Phase 1 study: large trial with 205 subjects
- Human ADME / mass balance study completed

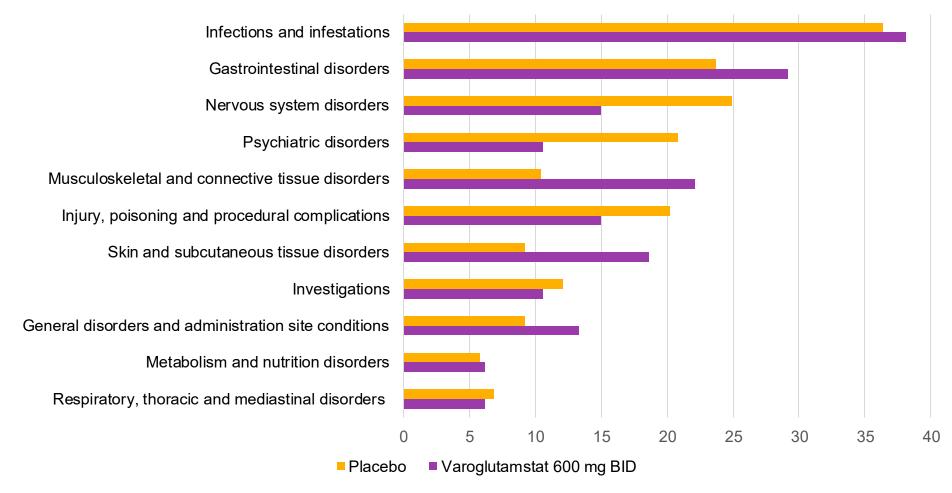
Phase 2 double-blind, placebocontrolled

- Phase 2a study: 120 patients, 12 weeks
- VIVIAD Phase 2b study: 259 patients, avg. treatment duration ~80 weeks
- VIVA-MIND Phase 2 study: 109 patients treated, avg. treatment duration
 ~46 weeks



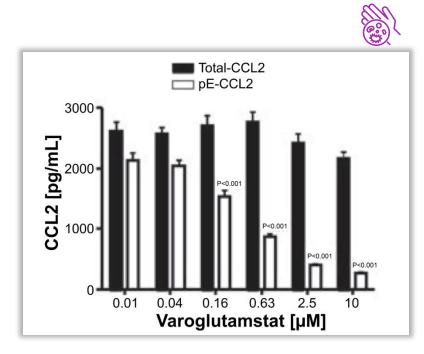
Pooled safety analysis VIVIAD and VIVA-MIND: TEAE by system organ class



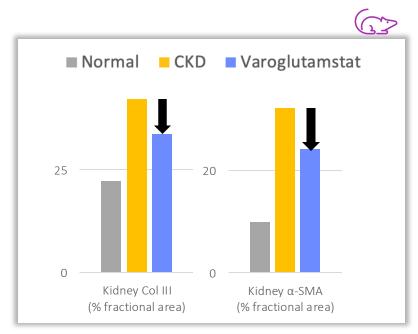




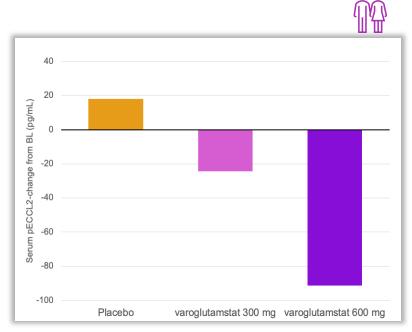
Robust evidence demonstrating inhibition of intracellular QPCTL decreases activity of pro-inflammatory cytokines and kidney fibrosis



Decrease of pE-CCL2 levels by QPCT/L inhibitor application. LPS-stimulation of RAW264.7 cells. Analysis of varoglutamstat effect on total-CCL2 and pE-CCL2.



Histological changes show improvement of kidney Col-III and α -SMA. Adenine-induced mouse model of CKD.



Median reduction in pE-CCL2 levels compared to baseline with varoglutamstat. VIVIAD, total population, at week 48.



Varoglutamstat: Potential to become a convenient new oral therapy to transform the treatment of kidney disease

Medical Need

Therapies that can stabilize or improve kidney function for majority of patients

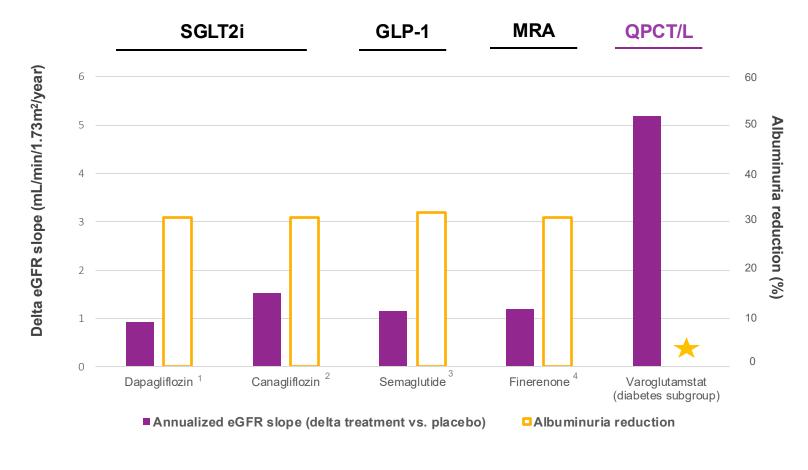
Opportunity

Varoglutamstat is a first-in-class **single agent** oral compound that has been shown to **stabilize and partially recover** kidney function

- Clear development path to market
- Future program based on robust available data
 - Statistically significant and clinically meaningful improvement in eGFR
 - ✓ Effects observed in two independent Phase 2 studies
 - ✓ Substantially larger effect size in participants with diabetes
 - ✓ Excellent safety profile consistent across two years of study duration
 - ✓ Highly synergistic effect on top of current DKD SoC
 - ✓ Planned Phase 2b in DKD stage 3b/4 to evaluate effect in target population¹



Effect size substantially higher than observed with current standard of care (SGLT2i / GLP-1)



Conducted qualitative assessment, no increase in albuminuria observed; analysis of albuminuria planned for next Phase 2b study



Varoglutamstat's ability to stabilize and partially recover kidney function sets it apart in the kidney space and supports its potential to transform disease outcomes

Novo Nordisk

Monlunabant

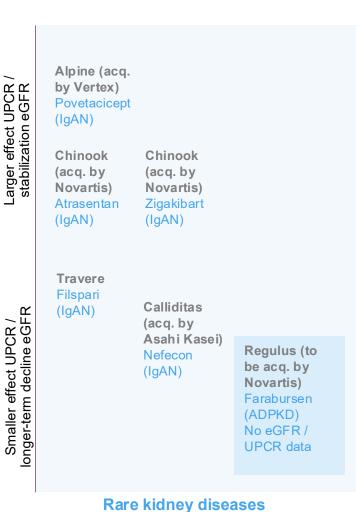
No eGFR data

No eGFR data

Oral

New MoA

Preserves kidney function



CinCor (acq. by AZ) Baxdrostat Orbsen **Therapeutics** Cell Therapy Serodus SER150

No eGFR data Palatin Bremelanotide s.c, not oral Limited data No eGFR data ZvVersa **Therapeutics** No eGFR data Var-200

Synergistic with SoC **ProKidney** REACT Autologous

vivoryon

Varoglutamstat

Cell Therapy

Daiichi-Sankyo

Esaxerenon

Not new MoA

Astra Zeneca Boehringer Zibobetan + Ingelheim Dapagliflozin Vicadrostat + Combination empagliflozin Combination

> J&J Lilly Canaglifozin + Tirzepatide metformin Linagliptin Not new MoA Not new MoA

Currently marketed standard of care therapeutics including RAASi, SGLT-2i, GLP-1 RA, MRA show slowing but no improvement of eGFR

DKD / CKD

Patient pool: thousands Patient pool: millions



Stabilizing or improving eGFR

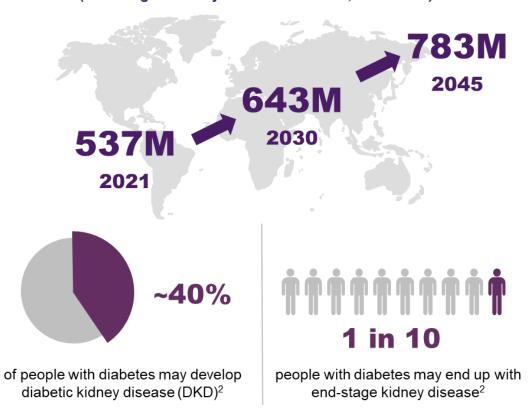
Slowed/continued decline eGFR or no eGFR data

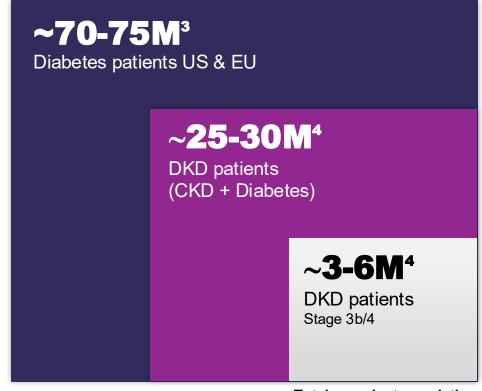
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Initial target market represents an attractive patient opportunity with potential label expansion to earlier stages of DKD / CKD

Diabetes is a significant and growing global challenge

(adults aged 20-79 years with diabetes, worldwide)¹





Total prevalent population

New Study: Efficient study design to confirm the treatment effect in patients with advanced DKD¹

Primary Goal

 Aiming to confirm the efficacy of varoglutamstat 600mg BID on eGFR in people with advanced diabetic kidney disease in an efficient and timely manner

Key Metrics and Considerations

- Double-blind randomized placebo-controlled multi-center study
- Patients with T2DM with stage 3b/4 CKD on top of SoC incl. SGLT2-i
- Adequately powered for meaningful data readout
- No. of patients: ~100 − 150
- Topline data ~24 months; design could include interim analysis at ~15 months to give earlier proof-of-concept²
- Typical trial cost approx. €12 -18m dependent on patient number

Pipeline focused on kidney disorders and inflammatory/fibrotic diseases

	Program	Approach	Discovery	Preclinical	Phase 1	Phase 2	Phase 3	Status
	DKD (Varoglutamstat/PQ912)	SMI QPCT/L	POC in VIVI	4D & VIVA-MIN	ID results			Preparing for Phase 2b DKD study
atory/fibrosis	Kidney orphan diseases (Varoglutamstat/PQ912)	SMI QPCT/L			Pre-IND			Pre-clinical orphan disease models
Inflammatory/fibrosis	Kidney disorders, fibrotic/inflammatory (VY2149)	SMI QPCT/L			Pre-IND			
_	Fibrotic indications (NCE)	SMI Meprin			Research progra	am		
sease	Varoglutamstat (PQ912)	SMI QPCT/L						AD program: discontinued after negative topline data March 2024 (VIVIAD) & December 2024 (VIVA-MIND)
ner's dis	Varoglutamstat (SIM0408, PQ912)	SMI QPCT/L		al in China				Partnered with Simcere in Greater China; under evaluation
Alzheir	PBD-C06	mAb N3pE amyloid			Pre-IND			Partnered with Simcere in Greater China; under evaluation

QPCTL inhibitors have a large market potential: Development opportunities across a range of diseases driven by underlying inflammation / fibrosis

DKD / CKD / earlier stages

Replication of a sustained improvement of kidney function in two independent Phase 2 studies¹

Initial focus on stage 3b/4 DKD given high unmet need and large effect in diabetes subgroup

Opportunity to expand market potential by moving into earlier and later stage DKD / CKD

Rare kidney diseases

e.g. Alport / Fabry disease

Novel mode of action, effect on inflammatory markers and observed effect on kidney function holds promise for QPCTL inhibitors in certain rare diseases

Disorders progressing through inflammation & fibrosis

e.g. NAFLD

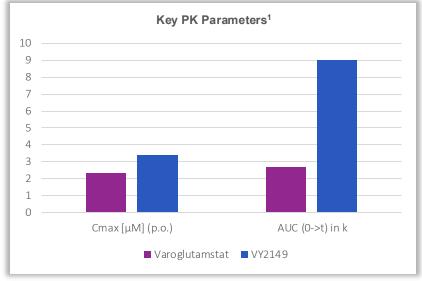
NAFLD is the most prevalent form of liver disease which may advance to metabolic dysfunction-associated steatohepatitis ("MASH") and cirrhosis

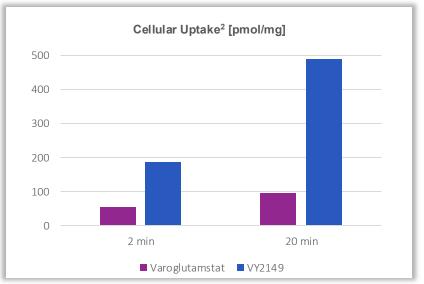
In vivo proof of concept in NAFLD mice²



New development compound VY2149 shows improved cellular uptake, PK profile and superior outcomes in kidney animal studies

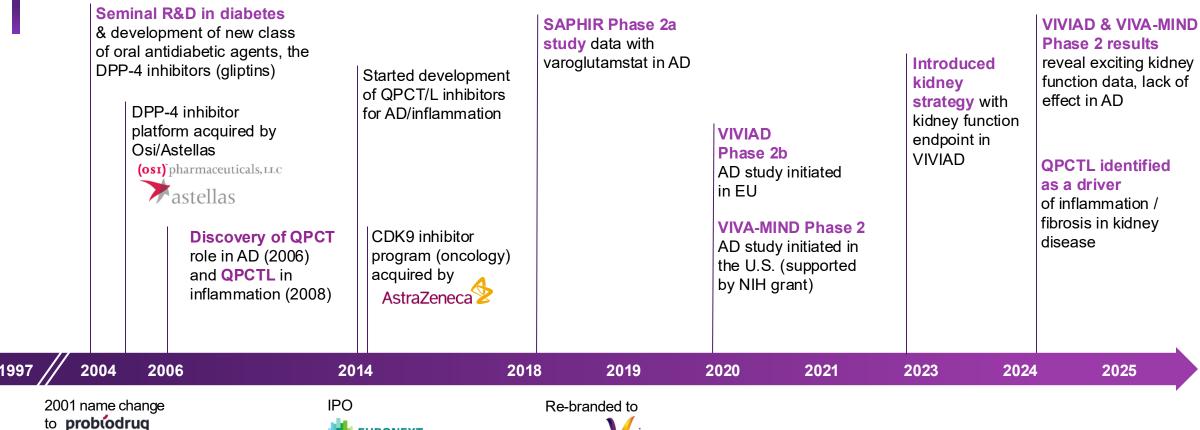
- Higher intracellular QPCTL inhibition translates to better activity, lower doses and the opportunity for once daily dosing
- Pre-clinical stage follow-on candidate VY2149, has shown improved molecular properties including
 - Improved peak concentration (Cmax) of VY2149 compared to varoglutamstat at comparable bioavailability upon oral dosing
 - Markedly increased overall drug exposure (AUC)
 - Significantly higher passive uptake into cells
- Assessment of once daily dosing for VY2149 in an animal model has shown strong effects on eGFR, creatinine, cystatin C levels and α-SMA levels and collagens







Vivoryon: A history of groundbreaking discoveries and developments



Company founded as ProBioTec

EURONEXT Amsterdam



Funding:

private placements of ~EUR 51m; USD 15m NIH grant for U.S. clinical development

Funding:

EUR 61m (plus EUR 15m option) raised in private placements



A trusted company: Senior management team with a strong track record

Management

Frank Weber, MD
Chief Executive Officer



INTERMUNE®
MERCK
ZBiotech

Anne Doering, CFA
Chief Financial Officer



BIONTECH
MERCK
FRANKLIN
TEMPLETON

Michael Schaeffer, PhD Chief Business Officer



a Wuxi AppTec company

Julia Neugebauer, PhD Chief Operating Officer



morphosus

Non-executive Directors

Erich Platzer, MD, PhD
Chairman of the Board

Charlotte Lohmann

Claudia Riedl, PhD Chair Audit Committee Samir Shah, MD

Decades of collective experience in biopharma industry, e.g.:

First approved drug in pulmonary fibrosis

Successful development of biomarker driven oncology & diabetes programs

M&A and business development **expertise** from transactions with large biopharma

Know-how in life science research & development, biophysical and structure-based drug discovery

Strong financial, capital markets and legal **experience**



Vivoryon: Poised to improve kidney health with varoglutamstat's novel mechanism of action and breakthrough clinical trial results



Addressing unmet needs in areas of high commercial potential

Mission is to improve kidney health and ultimately reduce rate of transplant / dialysis in DKD/CKD/other potential indications



Unique oral asset with MOA targeting inflammation

Developed first in class oral **QPCTL inhibitor**; only one in clinic to show **improvement in kidney function** in elderly population¹



Compelling Phase 2 results replicated in two independent studies

Unprecedently large and sustainable improvement in kidney function, especially in 'diabetes' subgroup; large long-term safety data base



Actionable, riskcontained plan for Phase 2b trial in DKD²

Next steps in target population founded on statistical insights from robust, long-term
Phase 2 data

Extensive intellectual property portfolio³; pipeline of additional early-stage QPCTL inhibitors; experienced management team with track record in inflammation and business development

