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**Your success**



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Efficacy

Discovery

Metabolic disorders

Innovative rodent models  
and tailor-made  
solutions

# We are

An expert preclinical CRO delivering services for metabolic disorders and dedicated R&D studies to evaluate your drugs targeting, founded in 2003. We offer a wide range of tests to demonstrate the effectiveness of our clients' drug candidates.

## ABOUT 20 YEARS OF EXPERTISE

specializing in **obesity, type 2 diabetes, NASH / Fibrosis, diabetic nephropathy, inflammation, dyslipidemia and cardiovascular diseases** for preclinical drug development, post launched studies and consulting.

We built our expertise over the years by developing innovative and predictive animal nutritional models to accelerate your drug discovery.



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Innovative twin sister-CRO companies  
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cardiometabolic disorders

Physiogenex

Cardio  
medex

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- Customized preclinical pharmacology studies
- *In vitro, ex vivo, in vivo* exploration



Diabetes

Cardiovascular

NASH

Obesity

Hyperlipidemia



# Benefits of our synergies

INVENTIVA AND LANIFIBRANOR: an example of unique synergy between Physiogenex and Cardiomedex

## HIGH-VALUE RESULTS

Lanifibranor improves NASH, fibrosis and diastolic dysfunction in a Golden Syrian hamster model of diet induced obesity and NASH.

This new study realized at Physiogenex generated data that further support the development of Lanifibranor as a treatment for patients with NASH who are at cardiometabolic risk.

This leading anti-NASH drug is now evaluated in phase III (NATiv3).



## Lanifibranor improves NASH, fibrosis and diastolic dysfunction in a hamster preclinical model of diet induced NASH



Wettstein G<sup>1</sup>, Briand F<sup>2</sup>, Sulpice T<sup>2</sup>, Junien JL<sup>1</sup>, Broqua P<sup>1</sup>

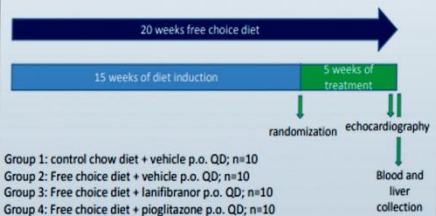
<sup>1</sup> INVENTIVA, Daix, France. <sup>2</sup> Physiogenex, Escalquens, France

### 1-INTRODUCTION

Lanifibranor is a well-balanced agonist of the 3 PPAR isotypes with anti-inflammatory and anti-fibrotic effects in pre-clinical models of NASH. The NATIVE phase 2b trial (NCT03008070) in non-cirrhotic NASH patients demonstrated beneficial effects of lanifibranor treatment on several histological endpoints including NASH resolution and improvement of fibrosis. It has been reported in several studies that NASH increases the risk for cardiovascular diseases. Moreover, patients with NASH are at higher risk of developing diastolic dysfunction. We evaluated in this study the potential of lanifibranor in preventing metabolic changes and diastolic dysfunction in a preclinical model of NASH, in comparison with the PPAR $\gamma$  agonist pioglitazone.

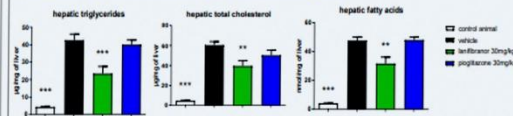
### 2-Material/Methods

Golden Syrian Hamsters under free choice diet (free choice between a chow diet with normal tap water or a high fat/cholesterol diet (Safe Diets) with 10% fructose enriched tap water) for a period of 15 weeks developed NASH, fibrosis and diastolic dysfunction compared to control hamster under chow diet. Hamsters were then treated for a period of 5 weeks with either vehicle, lanifibranor 30mg/kg or pioglitazone 30mg/kg. At the end of the treatment, liver histology, genes expressions and biochemical analysis were performed. Diastolic dysfunction was evaluated by echocardiography and defined as an absence of change in left ventricular ejection fraction, an increase in E/A and E/E' ratio and a decrease in E'/A' ratio as well as in isovolumic relaxation time (IVRT).

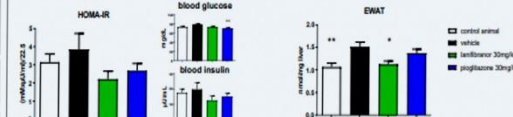


### 3-RESULTS

#### Metabolic parameters: glucose and lipids

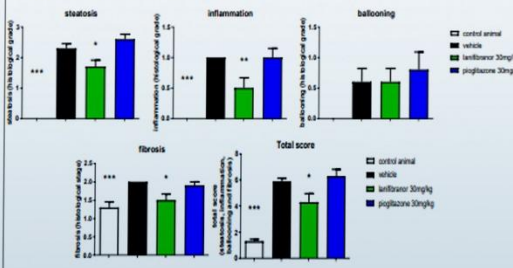


Lanifibranor, but not pioglitazone, reduced hepatic cholesterol, hepatic triglycerides and hepatic fatty acids increase due to High Fat Diet.



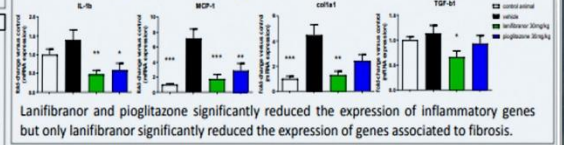
Lanifibranor and pioglitazone tend to reduce blood glucose, blood insulin and the resultant HOMA-IR index. Lanifibranor, but not pioglitazone, significantly reduced epididymal white adipose tissue increase due to High Fat Diet.

#### NASH features and fibrosis



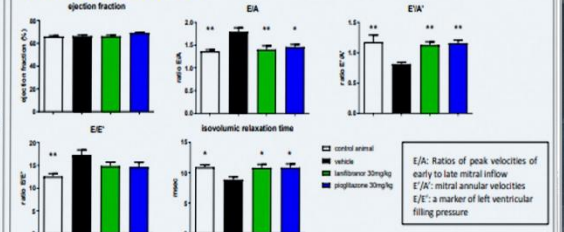
High Fat diet produced a significant increase in steatosis, liver inflammation and fibrosis but not ballooning. Lanifibranor, but not pioglitazone, significantly decreased steatosis, inflammation, fibrosis and consequently the total score taking into account the 3 NASH features and fibrosis.

#### Inflammatory and fibrosis genes



Lanifibranor and pioglitazone significantly reduced the expression of inflammatory genes but only lanifibranor significantly reduced the expression of genes associated to fibrosis.

#### Diastolic dysfunction



Diastolic dysfunction is a cardiac condition associated with left ventricular relaxation or compliance abnormalities and a preserved ejection fraction. High Fat Diet induced an advanced diastolic dysfunction. Lanifibranor and pioglitazone normalized E/A and E'/A' ratio as well as the isovolumic relaxation time and tend to reduce E/E' ratio.

### 4-CONCLUSION

Lanifibranor but not pioglitazone led to improvement in NASH and fibrosis suggesting that a panPPAR activation leads to a greater efficacy than a PPAR $\gamma$  activation alone for the treatment of NASH-related liver features. Lanifibranor also markedly and significantly improved diastolic dysfunction similarly to pioglitazone. Activation of PPAR $\gamma$  is therefore sufficient to correct the diastolic dysfunction in this model. However Lanifibranor as a pan-PPAR activator has the potential to limit the development of diastolic dysfunction via its beneficial effect on NASH but also by a direct effect on diastolic dysfunction through its PPAR $\alpha$  component. This new data further support the development of lanifibranor as a treatment for patients with NASH who are at risk for cardiovascular diseases.

#### Contact information

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[Guillaume.wettstein@inventivapharma.com](mailto:Guillaume.wettstein@inventivapharma.com)



# A management team of experience & expertise



**Thierry Sulpice, Ph.D**

**CEO, CSO, Founder**

- 9 years at Sanofi –Aventis
- In charge of drug discovery optimization and preclinical development for projects targeting the cardiometabolic syndrome.
- PhD in Physiology and Pharmacology - University of Grenoble, France.
- Founder and CEO/CSO of Cardiomedex



**François Briand, Ph.D**

**Director,  
Research and Business Development**

- Expert in metabolic diseases since 2007.
- Worked with Novo Nordisk during his PhD in Nutrition and Metabolism, and with Glaxo Smith Kline and Merck as a postdoctoral fellow with Dr. Dan Rader at Upenn, Philadelphia.



# Highly skilled metabolic disease experts working towards innovation, client satisfaction and quality compliance



Estelle Grasset, Ph.D – Project Manager



Natalia Breyner, Ph.D – Project Manager



Claire Bigot, Ph.D, Pharm.D – Project Manager, BD



Pr. Rémy Burcelin – Scientific expert consultant



Emmanuel Brousseau – Team manager



Marjolaine Quinsat – Animal welfare manager



Sura Setau – Quality department manager

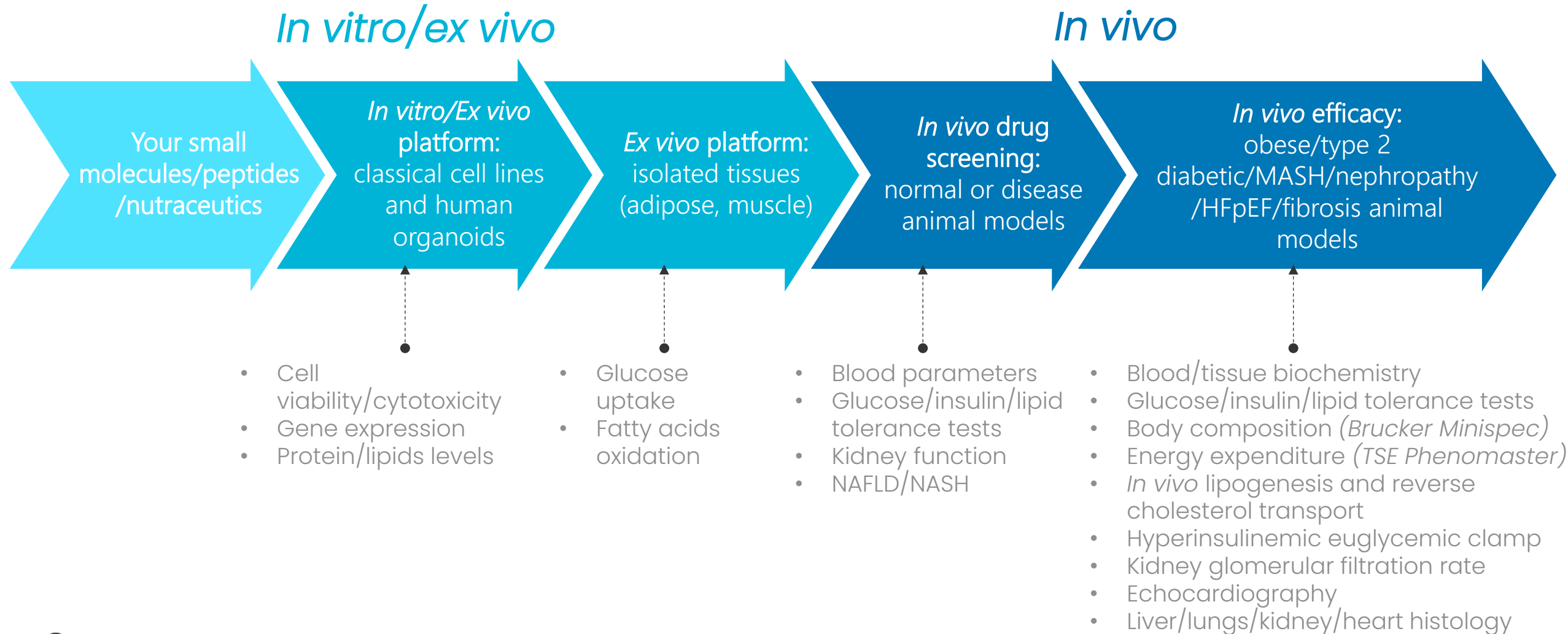


Julie Arasse – Administrative department manager

DRUG DISCOVERY | PRECLINICAL DEVELOPMENT



# Drug efficacy testing pipeline





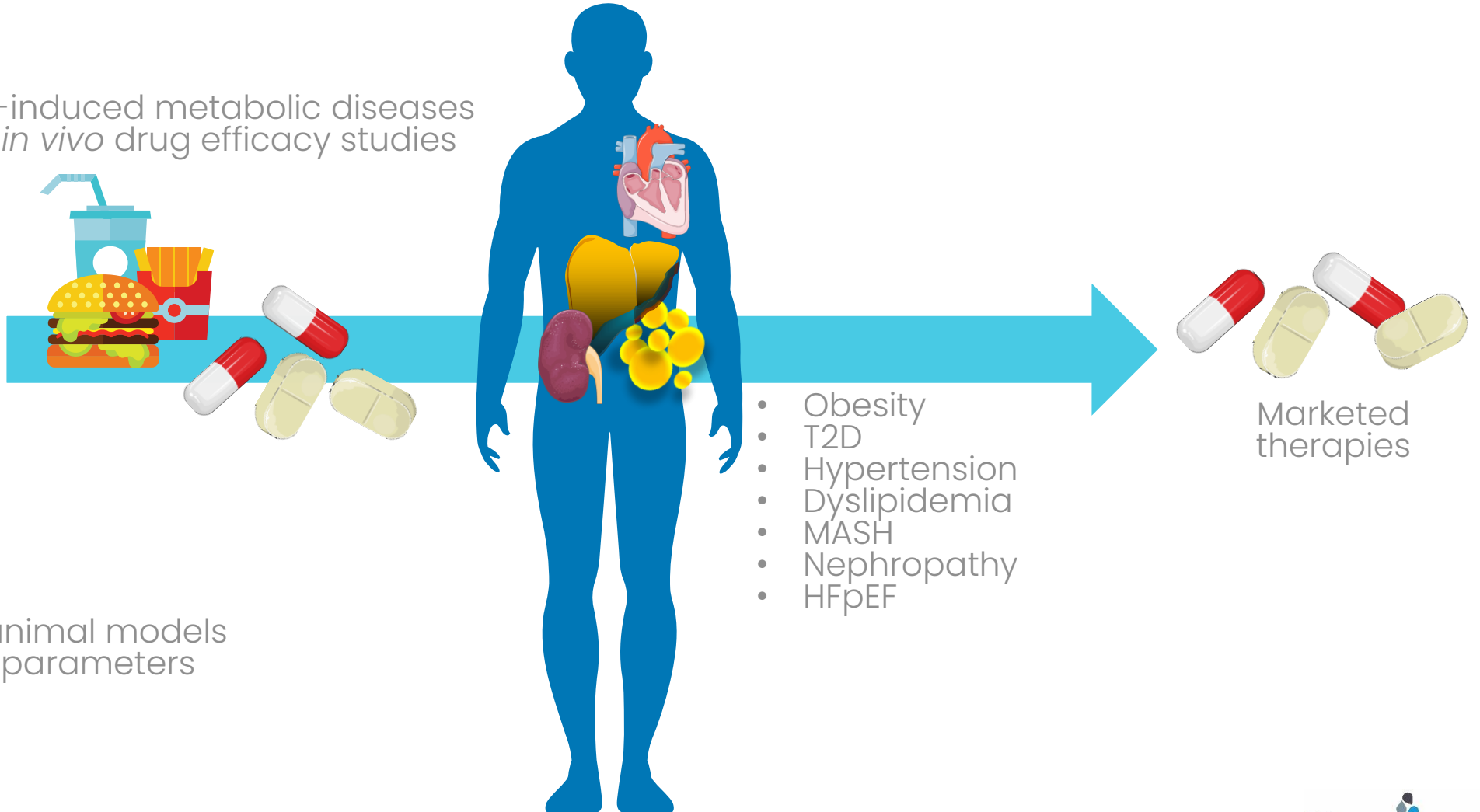
# Translational data: Derisk your drug efficiently and early.



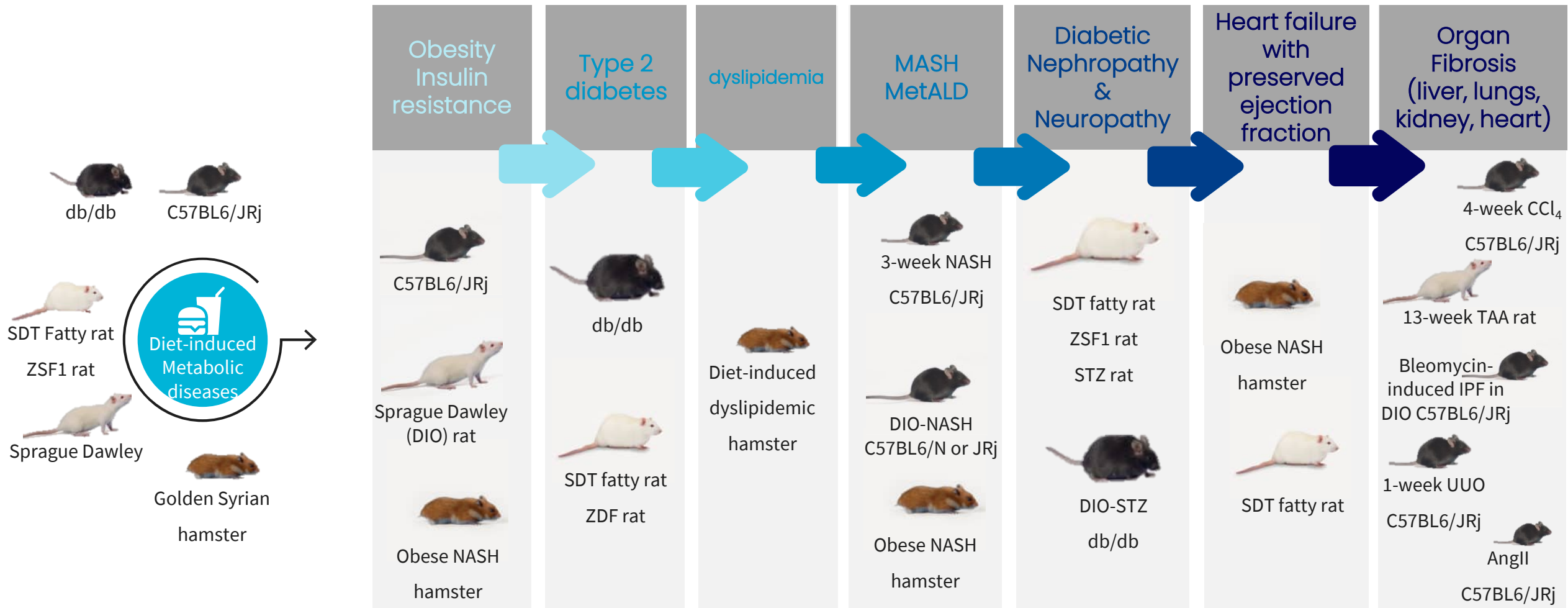
Diet-induced metabolic diseases  
for *in vivo* drug efficacy studies



Original & human-like animal models  
Translatable efficacy parameters



# Innovative animal models developed to optimize and expedite your drug efficacy studies



# Platform

## To fully characterize your drug candidates mechanism of action and efficacy



### Colorimetric assays

- Plasma and hepatic Lipids (cholesterol, triglycerides fatty acids)
- Lipoproteins (direct LDL-C and HDL-C assays, lipoprotein FPLC profile, apo A-1, apoB)
- Plasma ALT /AST
- Total ketone bodies
- Glycerol
- Phospholipids
- Albumin
- Creatinine
- Faecal total cholesterol and bile acids



### ELISA and multiplex assays:

- Hormones (insulin, glucagon, adiponectin, Leptin, etc.)
- Cytokines panel (IL-1b, IL-6, MCP-1, TNF-alpha, etc.)



### Western Blot analysis

(WES technology) for any protein. on any sample/tissue.



### Microbiome, lipids, bile acids profiling Gene expression by qPCR on any tissue:

- Lipogenesis
- Glucose metabolism
- ER and oxidative stress
- Inflammation
- Fibrosis



### Histology analysis:

- H&E
- Sirius Red
- Masson Trichrome
- ORO
- PAS staining
- Immunohistochemistry (F4/80, CD68 ED1, collagen III alpha-SMA, etc.)
- NAS scoring (steatosis, inflammation, hepatocyte ballooning fibrosis) Nephropathy histopathology scoring (glomerulosclerosis interstitial fibrosis, etc.)



# + 25 publications demonstrating Physiogenex expertise in high impact scientific journals

## Arteriosclerosis, Thrombosis, and Vascular Biology



JOURNAL OF THE AMERICAN HEART ASSOCIATION

### Upregulating Reverse Cholesterol Transport With Cholesteryl Ester Inhibition Requires Combination With the LDL-Lowering Diet in Dyslipidemic Hamsters

François Briand, Quentin Thiebaut, Elodie Muzotte and Thierry Sulpice

*Arterioscler Thromb Vasc Biol.* 2013;33:13-23; originally published online 2013 May 15; doi: 10.1161/ATVBAHA.112.252932  
*Arteriosclerosis, Thrombosis, and Vascular Biology* is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231  
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Peptides 114 (2019) 44–49

Contents lists available at ScienceDirect

Peptides

journal homepage: [www.elsevier.com/locate/peptides](http://www.elsevier.com/locate/peptides)

BZ043, a novel long-acting amylin analog, reduces gastric emptying, food intake, glycemia and insulin requirement in streptozotocin-induced diabetic rats

Jaio Victor M.F. Nascimento<sup>a</sup>, Celimar Sineiza<sup>b</sup>, Thayna Sisanide<sup>b</sup>, Luís Mauricio T.R. Lima<sup>b,c,d,e</sup>, Paulo G.S. Lacativa<sup>c,f,g</sup>

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 Federal University of Rio de Janeiro – UFRJ, CCS, Box 24, Ilha do Fundão, 21941-590, Rio de Janeiro, RJ, Brazil  
 National Institute of Science and Technology for Structural Biology and Biomimicry (INBEB-INCT), Federal University of Rio de Janeiro, Rio de Janeiro 21941-590, Brazil  
 Laboratory for Macromolecules, (LAMAC-DIMAV), Brazilian National Institute of Metrology, Quality and Technology – INMETRO, Rio de Janeiro, Brazil

European Journal of Pharmacology 860 (2019) 172537

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European Journal of Pharmacology

journal homepage: [www.elsevier.com/locate/ejphar](http://www.elsevier.com/locate/ejphar)



Full length article

Nephropathy in diabetic db/db mice is accelerated by improved by the SGLT2 inhibitor dapagliflozin

Sisse Andersen Nørgaard<sup>a,c,1,\*</sup>, François Briand<sup>b,1</sup>, Fredrik Wolfhagen Elisabeth Douglas Galsgaard<sup>a</sup>, Henrik Søndergaard<sup>a</sup>, Dorte Bratbo Søndergaard<sup>a</sup>

<sup>a</sup> Pharmacology, Novo Nordisk A/S, Novo Nordisk Park, Miljø, Denmark

<sup>b</sup> Physiogenex S.A.S, Prologue Biotech, 516 rue Pierre et Marie Curie, 31670, Labège, France

<sup>c</sup> Department of Veterinary Disease Biology, University of Copenhagen, Grønnegårdsvej 15, 1870, Frederiksberg C, Denmark

Elafibranor improves diet-induced nonalcoholic steatohepatitis associated with heart failure with preserved ejection fraction in Golden Syrian hamsters

François Briand<sup>a,\*</sup>, Julie Maupoint<sup>b</sup>, Emmanuel Brousseau<sup>a</sup>, Natalia Breyner<sup>a</sup>, Mélanie Bouchet<sup>a</sup>, Clément Costard<sup>b</sup>, Thierry Leste-Lasserre<sup>c</sup>, Mathieu Petitjean<sup>d</sup>, Li Chen<sup>d</sup>, Audrey Chabrat<sup>e</sup>, Virgile Richard<sup>e</sup>, Béatrice Buzelin<sup>f</sup>, Caroline Dubreuil<sup>b</sup>, Thierry Sulpice<sup>a,b</sup>

2032

Diabetes Volume 65, July 2016

François Briand,<sup>1</sup> Eric Mayoux,<sup>2</sup> Emmanuel Brousseau,<sup>1</sup> Noémie Burr,<sup>1</sup> Isabelle Urbain,<sup>1</sup> Clément Costard,<sup>1</sup> Michael Mark,<sup>2</sup> and Thierry Sulpice<sup>1</sup>

**Empagliflozin, via Switching Metabolism Toward Lipid Utilization, Moderately Increases LDL Cholesterol Levels Through Reduced LDL Catabolism**

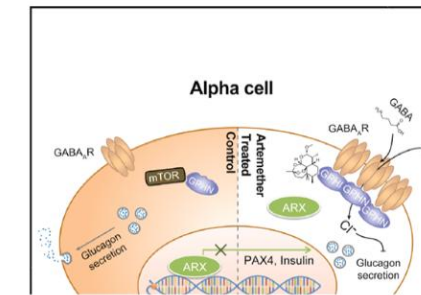
*Diabetes* 2016;65:2032–2038 | DOI: 10.2337/db16-0049



## Cell

### Artemisinin Target GABA<sub>A</sub> Receptor Signaling and Impair $\alpha$ Cell Identity

Graphical Abstract



Authors

Jin Li, Tamara Casteels, Thomas Frogne, ..., Patrick Collombat, Jacob Hecksher-Sørensen, Stefan Kubicek

Correspondence

skubicek@cemm.oeaw.ac.at

In Brief

The anti-malarial drug Artemisinin can drive the in vivo conversion of pancreatic  $\alpha$  cells into functional  $\beta$ -like cells through enhanced GABA signaling and may have potential as a therapeutic for diabetes.



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in international conferences

To make our innovative new services and models known for your drug evaluation success, early.

**AASLD** **inventiva**

**Lanifibranor improves NASH, fibrosis and diastolic dysfunction in a hamster preclinical model of diet induced NASH**

Wettstein G<sup>1</sup>, Briand F<sup>1</sup>, Sulpire T<sup>1</sup>, Julien JL<sup>1</sup>, Broqua P<sup>1</sup>

<sup>1</sup>INVENTIVA, Paris, France; <sup>2</sup>Physiogenex, Escalquens, FRANCE

**1-INTRODUCTION**

Lanifibranor is a well-balanced agonist of the 3 PPAR isotypes with anti-inflammatory and anti-fibrotic effects in pre-clinical models of NASH. The RARE phase 2a trial (NCT03606702) in non-alcoholic NASH patients demonstrated beneficial effects of lanifibranor treatment on several histological endpoints, including NASH resolution and improvement of fibrosis. It has been reported in several studies that NASH increases the risk for cardiovascular diseases. Moreover, patients with NASH are at higher risk of developing diastolic dysfunction. We evaluated in this study the potential of lanifibranor in preventing metabolic changes and diastolic dysfunction in a preclinical model of NASH, in comparison with the PPAR $\alpha$  agonist pioglitazone.

**3-RESULTS**

**Metabolic parameters: glucose and lipids**

Lanifibranor, but not pioglitazone, reduced hepatic cholesterol, hepatic triglycerides and hepatic fatty acids increase due to high fat diet.

**Inflammatory and fibrosis genes**

Lanifibranor and pioglitazone significantly reduced the expression of inflammatory genes but only lanifibranor significantly reduced the expression of fibrosis genes.

**Diastolic dysfunction**

Lanifibranor, but not pioglitazone, significantly reduced the expression of genes associated to fibrosis.

**4-CONCLUSION**

Lanifibranor but not pioglitazone led to improvement in NASH and fibrosis suggesting that a pan-PPAR activation leads to a greater efficacy than a PPAR $\alpha$  activation alone for the treatment of NASH-related liver features. Lanifibranor also markedly and significantly improved diastolic dysfunction similarly to pioglitazone. Activation of PPAR $\alpha$  is therefore sufficient to correct the diastolic dysfunction in this model. However Lanifibranor as a pan-PPAR activator has the potential to limit the development of diastolic dysfunction via its beneficial effect on NASH but also by a direct effect on diastolic dysfunction through its PPAR $\gamma$  component. This new data further support the development of lanifibranor as a treatment for patients with NASH who are at risk for cardiovascular diseases.

Contact information  
Dr. Guillaume Wettstein | [Guillaume.wettstein@inventivapharma.com](mailto:Guillaume.wettstein@inventivapharma.com)

**Novel strategies to optimize animal models of human nonalcoholic steatohepatitis for drug development**

Francois Briand<sup>1</sup>, Thierry Sulpire<sup>1</sup>

<sup>1</sup>Physiogenex, Escalquens, FRANCE

**BACKGROUND:**

Preclinical animal models are needed to investigate nonalcoholic steatohepatitis (NASH) and identify therapies for this disease causing healthcare and economic burden worldwide. However, the lack of predictivity and/or long duration of animal models represent a clear limitation to rapidly evaluate the efficacy of drugs targeting nonalcoholic steatohepatitis (NASH). Additionally, most animal models also miss the concept that NASH-related deaths are linked to cardiovascular diseases. In this context, we have therefore developed novel strategies to optimize animal models for better evaluation of drugs targeting NASH.

**RESULTS:**

1. A 3-week diet-induced NASH mouse model allows the rapid evaluation of tiraglitazone and elafibranor benefits

2. Thermoneutrality does not aggravate obesity and insulin resistance but favors hepatic fibrosis and diastolic dysfunction in HFCD diet fed mice

3. The diet-induced NASH hamster model has human-like lipid/bile acids metabolism, liver lesions and cardiac dysfunction

**CONCLUSION:**

Optimization of animal models for NASH evaluation is essential to improve the predictive value of these models and to identify effective therapies for NASH. The 3-week diet-induced NASH mouse model and the diet-induced NASH hamster model are promising models for NASH evaluation. Thermoneutrality does not aggravate obesity and insulin resistance but favors hepatic fibrosis and diastolic dysfunction in HFCD diet fed mice. The diet-induced NASH hamster model has human-like lipid/bile acids metabolism, liver lesions and cardiac dysfunction.

**SGLT2 inhibitor dapagliflozin reduces hyperfiltration and prevents glomerular filtration rate decline in rodent models of diabetic nephropathy**

Francois Briand<sup>1</sup>, Sisse A. Nørgaard<sup>2</sup>, Masami Shinohara<sup>3</sup>, Emmanuel Brousseau<sup>4</sup>, Nouridine Faresse<sup>5</sup>, Takashi Ohtani<sup>6</sup>, Yasushi Kageyama<sup>7</sup>, Fredrik Sand<sup>8</sup>, Thierry Sulpire<sup>1</sup>

<sup>1</sup>Physiogenex, Labège, France; <sup>2</sup>SGLT-1 & T2D Pharmacology, Novo Nordisk A/S, Måløv, Denmark; <sup>3</sup>ICR, Japan Inc., Tokyo, Japan; <sup>4</sup>Japan Tobacco Inc., Osaka, Japan

**INTRODUCTION**

SGLT2 inhibitors (SGLT2i) may have protective effects on the kidney in diabetic nephropathy (DN). To evaluate the impact on kidney function, we have evaluated the effects of the SGLT2 dapagliflozin on glomerular filtration rate (GFR) in animal models of DN.

**METHODS**

To evaluate the effects on hyperfiltration, db/db mice fed a high protein diet (HFD) from protein, known to exacerbate DN, were treated with vehicle or dapagliflozin (Dap) daily for 4 weeks. To evaluate the effects on GFR decline, uni-nephrectomized (Un-Nx) spontaneously Diabetic Tm1 (SDT) rats were fed a 0.2% fat diet and treated with vehicle or with dapagliflozin (Dap) daily for the last 12 weeks. To measure GFR, animals were injected with FITC-inulin. Data are shown as mean  $\pm$  SEM, n = 8 per group.

**RESULTS**

1. Dapagliflozin reduces hyperglycaemia and hyperfiltration in db/db mice on high protein diet

2. Dapagliflozin reduces HbA1c and blood pressure, prevents GFR decline and improves kidney lesions in Uni-Nx SDT fatty rat on a 0.2% fat diet

**CONCLUSION**

Dapagliflozin shows significant benefits on kidney dysfunction by reducing hyperfiltration and preventing GFR decline in animal models of DN.





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*« I can't thank you enough for all your great work and support! It was really nice collaborating with you all and I am very much looking forward to the next collaboration with you! »*

– US Pharma customer

*« Great working with Physiogenex: great competence in the area, straight answer and very good team available to support all our needs »*

– European biotech customer

*“Once again, I would like to appreciate for all your assistance during the study execution and all technical issues that Physiogenex experts helped us to understand. Physiogenex is a very strategic partner and in the future, we certainly will consider you to perform our preclinical studies.”* – South American Pharma customer



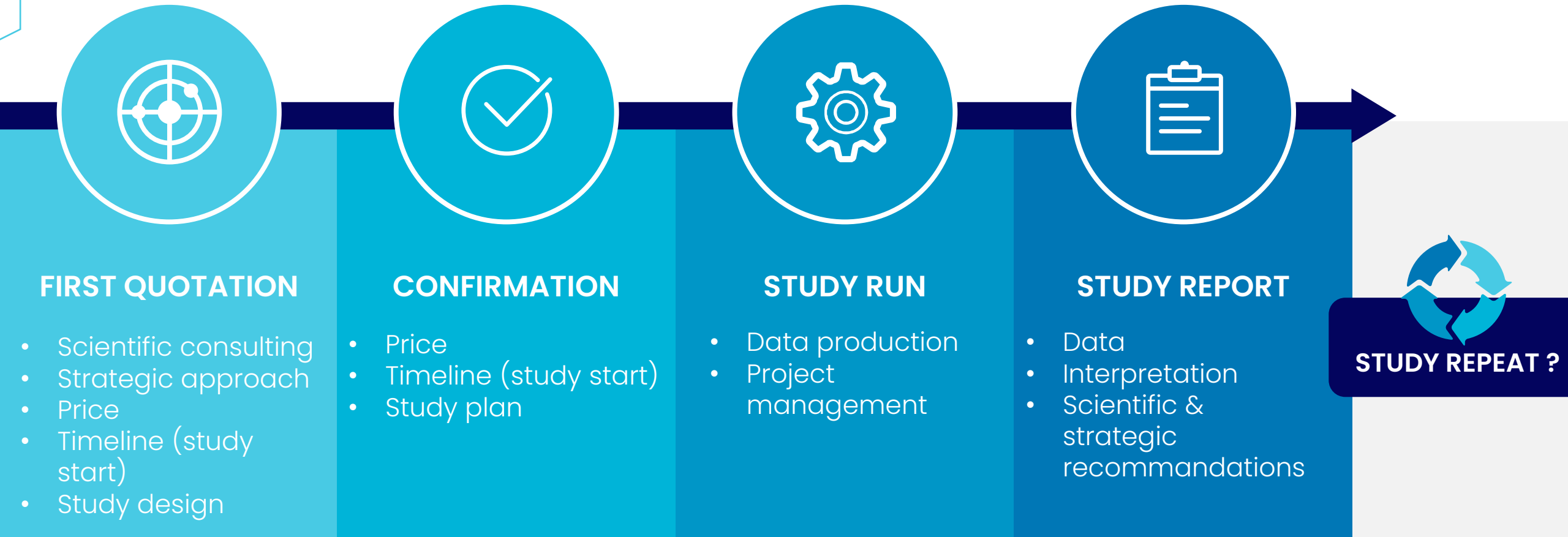
## When is your turn?

*“Excellent scientific advice provided for the study design. Studies tailored for small biotechs with limited budget. Timelines met, rigor in execution. Indeed a great partner for drug development in the metabolic disease area.”* – US biotech customer

*“High level of expertise and timely discussions during the study plan and execution  
Very co-operative”* – India Pharma customer

*“We really appreciate what you did for our study. A new assay development was successful. The study report was well-documented.”* – Korean Pharma customer

# What if we work together? Major steps ahead





# Quotation and study confirmation

1. Discussion with our experts to setup the best cost-effective study design for your drug efficacy project
2. An experimental design and quotation are then proposed with study timelines
3. Upon you agreement, a study plan is issued and once signed your study starts (2-3 weeks average)

Code of study: xxx004  
Version: final

**Physiogenex**  
THE METABOLIC DISORDERS EXPERTS

The financial quote is based on information provided in the study plan.  
All our prices include the study/project management, exploitation and interpretation of raw data as well as finalization of a final report with scientific recommendations and conclusions.  
Note: after study start, any additional request that are not specified in the study plan will be subject to additional charges.

Date of issue: February the 16th, 2021

Description	Quantity	Total
Golden Syrian Hamsters, male, 4-week old (n=47), shipment, identification, housing (acclimation and 15-week free-choice diet induction periods), specific diet and weekly body weight, blood collection, screening procedure (TC, ALT, AST, HOMA-IR and body weight), histology analysis (H&E, Sirius red, % Sirius Red labelling and NAS) at baseline (n=5 hamsters)	47	
Housing (5-week treatment period), specific diet and weekly body weight/food and water intake, semaglutide, formulation preparation, subcutaneous Q3D dosing for 5 weeks, echocardiography for left ventricular function and dimensions, blood collection, liver, brown intrascapular and white inguinal fat pad, heart, lungs and tibia collection, weight and fixation	42	
HOMA-IR, plasma TC, TG, ALT, AST and IL-6, hepatic total cholesterol, triglycerides and fatty acids, hepatic gene expression (IL-1b, MCP-1, TGF- $\beta$ , coll1a1, TIMP1, SREBP-1c, SCD1, FASN, ghREBP, FGF21), histology analysis (H&E and Sirius Red), % Sirius Red and NAFLD activity score	42	

**TOTAL (taxes non included)** \_\_\_\_\_

50% when signed: \_\_\_\_\_  
50% when delivered: \_\_\_\_\_

Payment process:

optional items	Quantity	Total
UCP1 gene expression in brown adipose tissue and inguinal adipose tissue	42	

Validity : 3 months

Sponsor Representative	Date	Signature

Version : 8

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Phone : 33 5 32 09 79 80 - contact@physiogenex.com  
S.A.S. au capital de 39110 € - APE 7211Z

Ref. Doc : EDOC002-4







# Study run

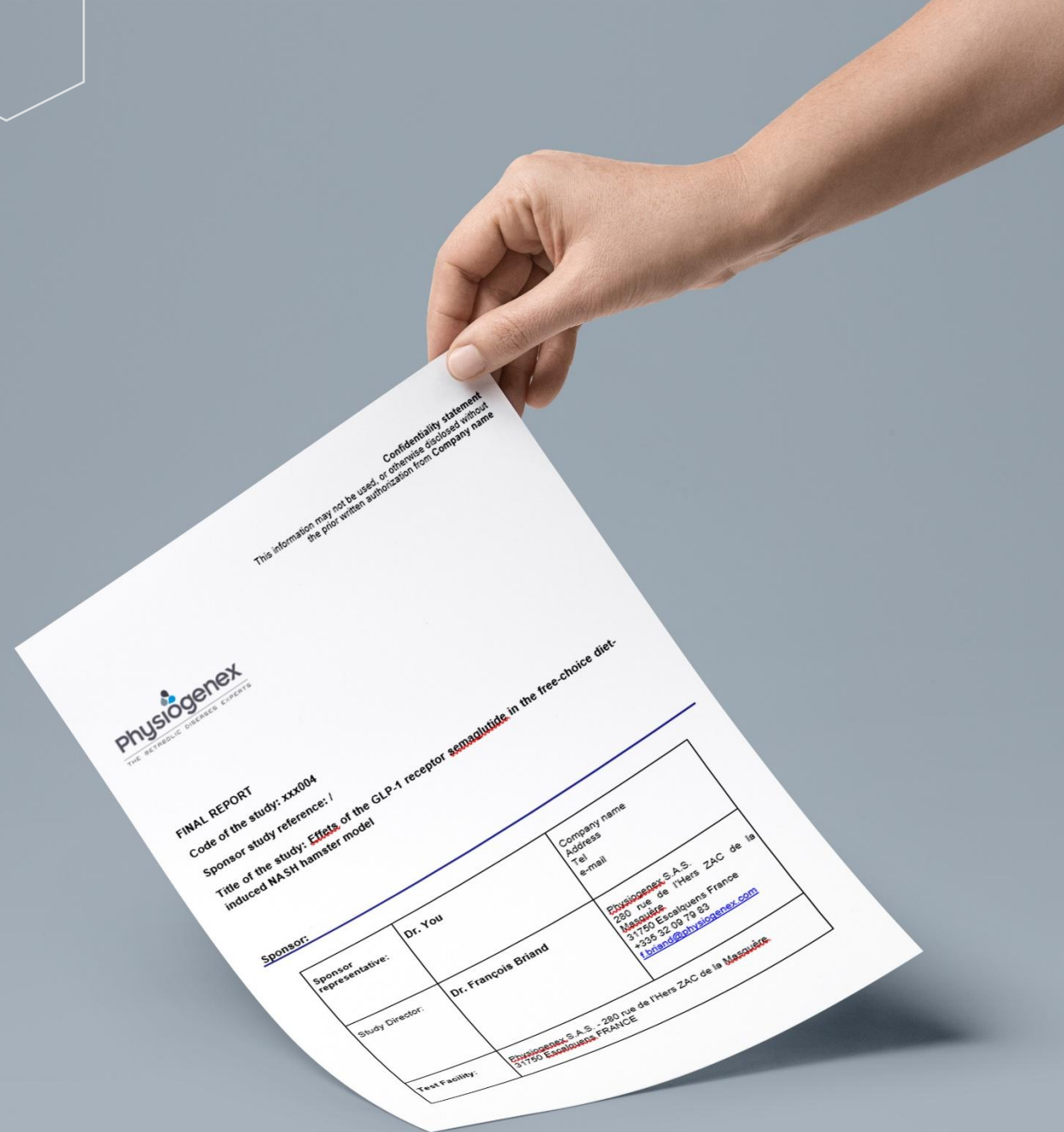
- ✓ Studies led by a dedicated project manager
- ✓ Fast and efficient communication: Weekly follow-up
- ✓ Raw data delivered as soon as available





# Study report

- ✓ A clear description of your study results provided on Word format for your review
- ✓ Includes statistical analysis, data expertise and recommendations to go further with your drug development
- ✓ Reporting includes quality-controlled data on Excel format, statistics (GraphPad)



# Partnering with us to launch Your new therapies successfully

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Inflammation – Diabetic nephropathy – NASH –  
Fibrosis and cardiovascular complications

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# Physiogenex and you



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