

Non-Independent Research **MiFID II Exempt**

6th November 2024

*SP Angel acts as Broker to Roquefort **Therapeutics**

Stock Data

Ticker ROO.I Share Price: 5.8p Market Cap: £7.5m Source: London Stock Exchange (prior trading day's close)

Company Description

Preclinical stage developer of novel therapeutics for difficult to treat cancers

Share price (p)



Contacts

Healthcare Research

Liam Gascoigne-Cohen

liam.gascoigne-cohen@spangel.co.uk

+44 20 3470 0530

Vadim Alexandre

vadim.alexandre@spangel.co.uk

+44 20 3470 0532

Sales

Rob Rees

+44 20 3470 0535

Abigail Wayne

+44 20 3470 0534

Richard Parlons

+44 20 3470 0472

Grant Barker

+44 20 3470 0471

SPANGEL Healthcare Research

Roquefort Therapeutics (ROQ.L*)

New in vitro data on STAT-6 programme shows activity in modulating inflammation

Key points

- STAT-6 gene silencing constructs showed a 10x reduction in STAT-6 expression compared to the control in a cell-based model for inflammation.
- Additional key inflammatory biomarkers were also modified including cytokines TRAC/CCL17 and CD23.
- Study similar to in vitro work presented by Recludix (Private) regarding REX-4671 a preclinical STAT-6 inhibitor which was licensed to Sanofi (SAN.EPA) in 2023 in return for a US\$125m upfront payment and up to \$1.2bn in conditional milestones.

New data from STAT-6 gene silencing programme in inflammation

Roquefort Therapeutics ("Roquefort", "the Group", "the Company") announced new data from its STAT-6 gene silencing programme. The Group has designed small interfering RNA (siRNA) constructs which inhibit translation of the STAT-6 protein, a protein overexpressed in several immunology and cancer indications.

In vitro reduction in STAT-6 and modification of other inflammatory biomarkers

STAT-6 siRNA constructs were evaluated in a cell-based model for inflammation (THP-1). STAT-6 siRNA constructs generated a 10-fold reduction in STAT-6 expression at 24 and 48 hours post treatment compared to negative controls. STAT-6 siRNA treated cells also saw a modification in inflammatory biomarkers, including TRAC/CCL17 and CD23, two forms of cytokines which play important roles in the regulation of inflammatory responses.

Industry interest in developing STAT-6 inhibitors

There is considerable industry interest in STAT-6 targeting treatments in the immunology space. In 2023, Sanofi (SNA.EP) struck a deal with Recludix (Private) to licence a preclinical program targeting STAT-6. The deal came with a US\$125m upfront payment and potential milestone payments totalling \$1.2bn. The recent in vitro study generated by the Group is similar to studies conducted by Recludix.

Results builds on oncology data generated on STAT-6 siRNA programme

STAT-6 targeting siRNA constructs have previously been shown to generate significant in vivo anti-cancer activity in validated models of colon cancer. STAT6 siRNAs demonstrated a significant reduction in the proliferation of colorectal cancer with an c.50% reduction in cell growth at seven days. This anti-cancer effect was replicated in a validated in vivo model of colorectal cancer with a significant reduction in cancer weight and volume at 28 days.

Data supporting partnership discussions

The Company is actively pursuing an out-licensing deal for the STAT-6 siRNA programme. The positive data expands the potential utility of this asset into an immunology setting. This should make the asset more attractive to potential partners.

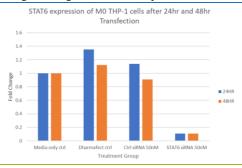
Efficacy in a validated in vitro model of inflammation

Roquefort has developed siRNAs which target the SH2 (Src-homology-2) domain of STAT6. The Company has evaluated STAT-6 targeting siRNA constructs in a cell-based model for inflammation. STAT-6 siRNA constructs were evaluated in a THP-1 macrophage cell line which is used to evaluate treatment effects on inflammatory response. Key findings were:

- STAT-6 targeting siRNA generated a 10-fold reduction in STAT-6 expression compared to controls.
- The phosphorylated (activated) form of STAT-6 was also reduced.
- Levels of CCL17 and CD23, two key mediators in inflammatory processes were also modified.

The data shows how STAT-6 siRNA constructs can reduce STAT-6 gene expression and modulate inflammatory biomarkers. CCL17 is involved in allergic and Th2-type immune responses whilst CD23 acts as a receptor that can trigger the production of inflammatory cytokines, while CCL17 is a chemokine involved in cell recruitment during inflammation.

Figure 1: STAT-6 targeting siRNA generated a 10-fold reduction in STAT-6 expression

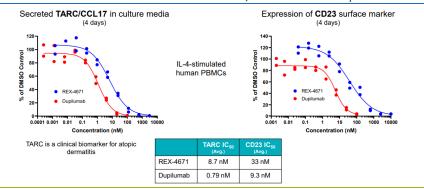


Source: Company presentation

Study similar to in vitro work presented by Recludix

The study is similar to preclinical work completed by Recludix which compared REX-4671, a STAT-6 inhibitor, to Dupixent (dupilumab), an anti-IL-4 antibody approved for asthma and atopic eczema in terms of levels of CCL17 and CD23, albeit over a shorter time period (2 vs 4 days). In 2023, Sanofi (SNA.EP) licenced the preclinical programme a US\$125m upfront payment and potential milestone payments totalling \$1.2bn.

Figure 2: Recludix STAT-6 inhibitor reduced TARC/CC17 and CD23 expression

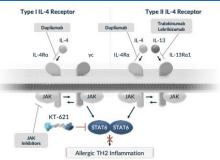


Source: Recludix presentation (September 2023)

Results should support licensing discussions

Results from these experiments alongside the oncology data generated to date should support out-licencing discussions for the STAT-6 siRNA programme. STAT-6 is a key protein within the JAK/STAT pathway that mediates cellular inflammation responses. STAT-6 promotes the activation of T helper 2 (Th2) immune cells, a form of T-cell that produce cytokines that can trigger inflammatory responses and is implicated in autoimmune disorders including asthma, atopic dermatitis and eczema.

Figure 3: STAT6 method of action



Source: Kymera Therapeutics

Significant industry interest in new immunology treatments

There are several approved treatments which target various components of the JAK/STAT pathway for a range of autoimmune disorders (Table 1). This includes Dupixent (dupilimab), an antibody treatment developed by Sanofi. For Q3-24, Dupixent registered sales of €3.5bn with FY24E guidance of €13bn. A STAT-6 inhibitor could provide an alternative approach to these treatments within a large addressable market.

Table 1: Autoimmune drugs command significant revenues

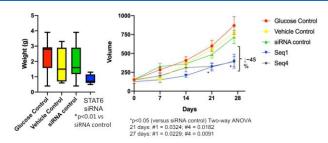
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|---|----------------------|---|-----------------------------------|
| Drug Name / Developer | Latest quarter sales | Approval indication and dates | Drug type |
| Dupixent (Dupilimab) / Sanofi | EUR3.5bn | Eczema 2017; atopic dermatitis (2019 COPD (2024). | IL-4 and IL-13 inhibitor |
| Adbry (tralokinumab / LEO Pharma | Undisclosed | Moderate-to-severe atopic dermatitis: 2021 | IL-13 inhibitor |
| Rinvoq (upadacitinib) / AbbVie | \$1.4bn | Crohn's 2023; UC: 2022, Atopic Dermatitis 2022 | Oral Janus kinase (JAK) inhibitor |
| Xeljanz (Tofacitinib) / Pfizer | \$818m | Rheumatoid arthritis 2012, UC 2018 | Oral Janus kinase (JAK) inhibitor |
| Rinvoq (Upadacitinib)/ Abbvie | \$1.2bn | Crohn's 2023; Atopic Dermatitis 2022; rheumatoid arthritis 2019 | Oral Janus kinase (JAK) inhibitor |

Source: Company websites

Build on existing cancer data

STAT-6 targeting siRNA constructs have shown significant *in vivo* anti-cancer activity in validated models of colon cancer. STAT6 siRNAs demonstrated a significant reduction in the proliferation of colorectal cancer with an c.50% reduction in cell growth at seven days. This anti-cancer effect was replicated in a validated in vivo model of colorectal cancer with a significant reduction in cancer weight and volume to 28 days.

Figure 4: Anti-STAT-6 siRNA showed significant anti-cancer activity in vivo



Source: Company Reports

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Recommendations are based on a 12-month time horizon as follows:

Buy - Expected return >15%

Hold - Expected return range -15% to +15%

Sell - Expected return < 15%