



QBiotics Group

Harnessing the power of
nature to improve lives

BIO International - June 2023

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QBiotics – at a glance



EcoLogic™

- Translating ecological knowledge into novel therapeutics
- Megadiverse tropical rainforest
- Phenotypic screening
- Unique Molecular Scaffolds
- Unencumbered IP
- Parallel develop therapeutics for human & companion animal markets



Focused Strategy

Oncology

- Tigilanol tiglate IT
- Solid tumors

Wound healing

- EBC-1013 topical gel
- Venous leg ulcers
- Equine wounds

Strong patent position for both programs

Early stage programs:

Antibiotics
Anti-inflammatory



Regulatory & Commercial validation

- **STELFONTA®** (tigilanol tiglate) registered and marketed for treatment of canine mast cell tumors
 - 75% CR rate in FDA registration trial
 - >15,000 dogs treated in EU, USA, UK and Australia
 - Robust compliant supply chain



Human Oncology

- **Phase II** trial in patients with head and neck cancer (QB46C-H08)
- **Phase II** trial in patients with soft tissue sarcoma (QB46C-H07)
- Parallel translational research program

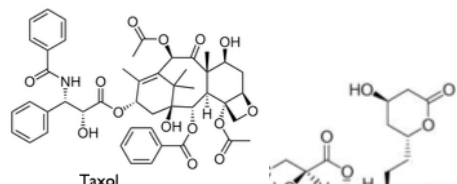


Organisation

- Strong scientific knowledge
- In-house veterinary capabilities
- Secure raw material growing facilities
- Revenue and strong Balance sheet
- **Seeking partners to accelerate development & commercialization**

Why go back to nature as a source of new drug scaffolds?

Produced in nature = demonstrated compatibility with the cellular environment

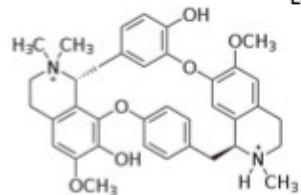


- 45% marketed pharmaceuticals are based on small molecules discovered in nature

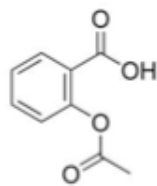
- Remarkable chemical diversity unmatched by synthetic chemistry

- Selected by evolution to engage protein binding sites, for interactions with membranes, and to function at ambient temperatures:

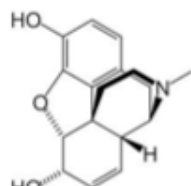
- Features which suggest high potential for effective novel drug compounds



Tubocurarine

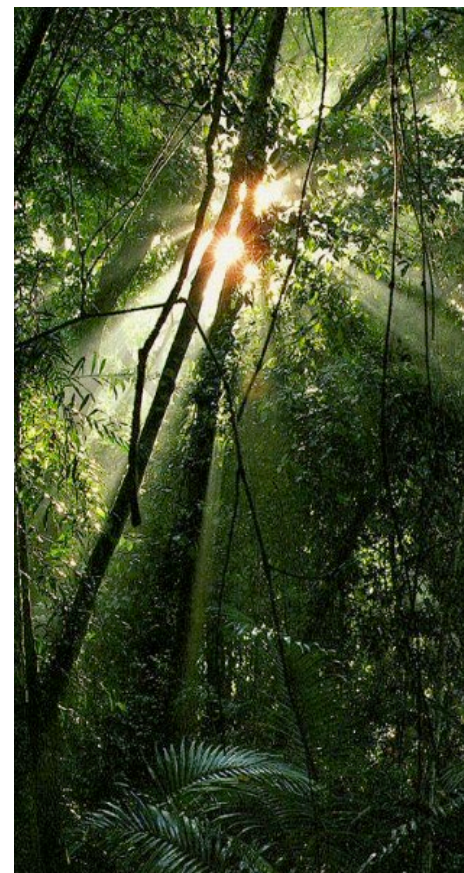


Aspirin



Morphine

Why Tropical Rain Forests?



- Contain more than half of the world's species
- Complex interactions between species and with the physical environment drives chemical innovation in the quest for survival
- EcoLogic™ employs an understanding of rainforest ecology to help decode the chemical language of the forest and guide our search for new therapeutics for human and animal health
- Collection ownership ensured by agreements that are in line with the UN Convention on Biological Diversity & the Nagoya Protocol

R&D Pipeline of novel therapeutics for human and veterinary

| | Therapeutic Area | Lead Molecule | Trial ID | Indication | Stage of Development | | | | |
|------------|-----------------------------|-------------------|--|---------------------|---|-------------------|----------|--------------------------|--------------------------|
| | | | | | Pre-clinical | Phase I | Phase II | Phase III | Registration / Marketing |
| Human | Oncology | Tigilanol tiglate | QB46C-H03 ACTRN12619001407189 | Head & Neck Cancer | Phase I/IIa reporting | | | | |
| | | | QB46C-H08 NCT05608876 | Head & Neck cancer | Phase II recruiting | | | | |
| | | | QB46C-H07 NCT05755113 | Soft Tissue Sarcoma | Phase II pilot recruiting | | | | |
| | Wounds | EBC-1013 | | Venous Leg Ulcers | Phase I/II | | | | |
| | | | | Other Wounds | Veterinary models | | | | |
| Veterinary | Oncology | Tigilanol tiglate | Species & Indication | | Clinical | | | Registration / marketing | |
| | | | Canine - Mast Cell Tumor | | STELFONTA® – marketed EU, UK, USA and Australia | | | | |
| | | | Canine - Soft Tissue Sarcoma & Oral melanoma | | STELFONTA® – Phase IV trials | | | | |
| | Equine - Sarcoid & melanoma | | STELFONTA® – Phase IV trials | | | | | | |
| | Wounds | EBC-1013 | Equine & Canine - Acute/Chronic wounds | | Veterinary clinical case studies | | | | |
| Discovery | | | Target | | Collection | Lead Optimisation | | | Initial Pre-clinical |
| | Antibiotics | | Multiple Resistant Organisms | | | | | | |
| | Anti-inflammatories | | Dermatology | | | | | | |



Human Oncology

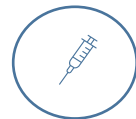
tigilanol tiglate
Lead Molecule



tigilanol tiglate

**Potential in early
and late settings**

**Effective against
a range of solid
tumors – ‘pan-
tumor potential’**



**Regulatory and
Commercial validation
in veterinary market**

STELFONTA® (tigilanol tiglate) registered and marketed for treatment of canine mast cell tumors in USA, UK, EU & Australia as a **1L alternative to surgery**

Full tumor destruction (75% CR) from a **single IT injection**

Partnered with Virbac,
global animal health
company



**Robust, compliant &
commercial global supply
chain is well established**

**Substantial pre-clinical
evidence**

Single injection, rapidly destroys tumors and induces systemic immunity via

- Tumor vascular disruption & tumor cell oncolysis
- Immunogenic cell death
- Induces anesthetic responses

Substantial improvement in overall survival compared to standard of care therapies

Strong patent portfolio

**Phase I study complete
Phase II trials underway**

Phase I - Well tolerated; minimal AEs

Clinically relevant activity observed in **9 tumor types**

Impressive rapid wound healing for therapeutic and cosmetic benefits

**Phase II
Head and neck cancer**

Soft tissue sarcoma

**Significant Growth
Opportunities**

Very effective & well tolerated ‘pan-tumor’ small molecule
Potential for development in multiple cancers:

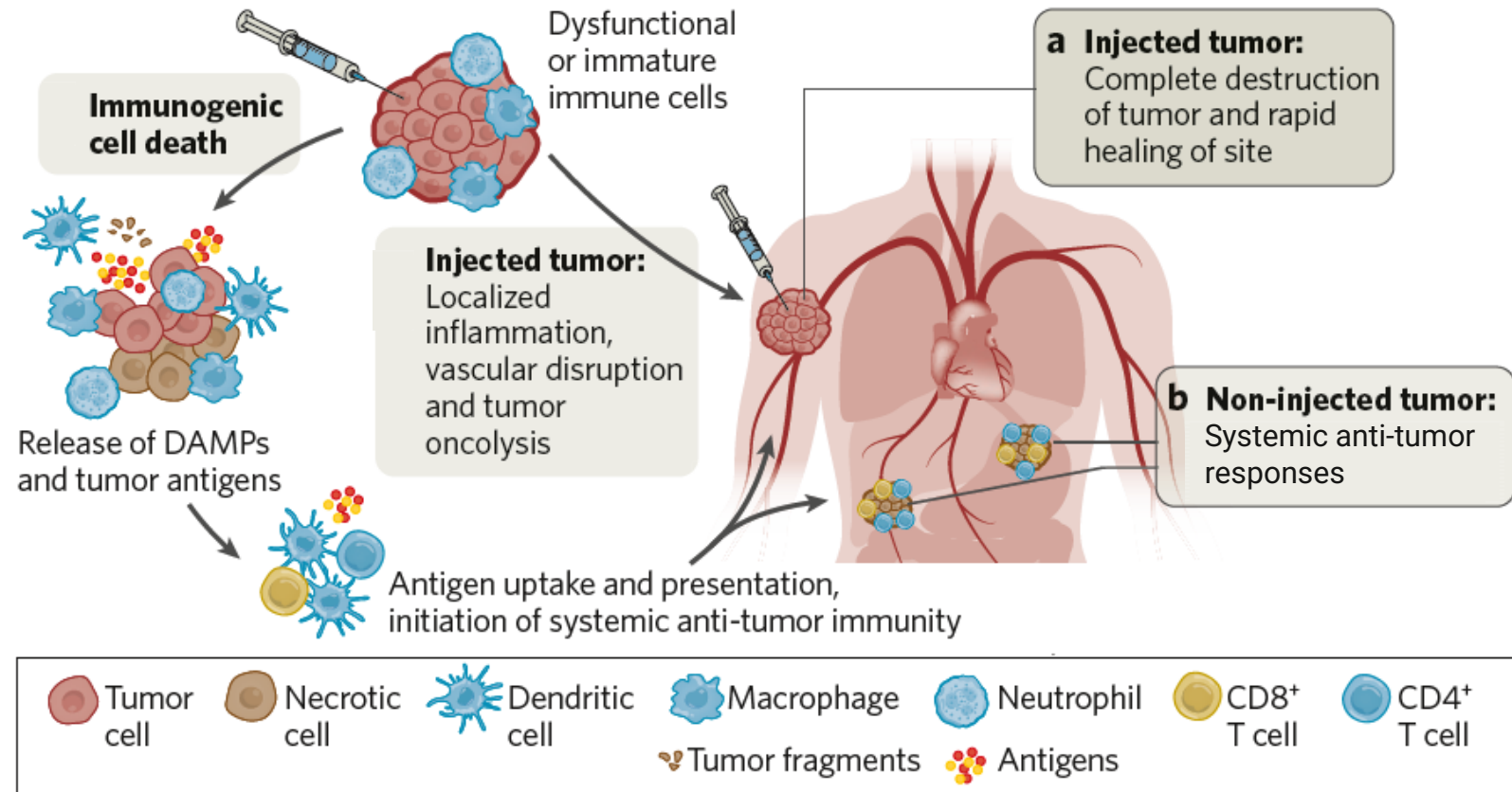
- Monotherapy
- In combination with ICI, chemotherapy etc
- Neoadjuvant
- Alternative or adjunct to surgery

**Seeking license or collaboration to further
develop tigilanol tiglate - deal agnostic**



Tigilanol tiglate acts locally through tumor cell killing and vascular disruption, and systemically through anti-tumor immunity

- ✔ Reduces tumor volume & increases survival in syngeneic murine models
- ✔ Induces systemic anti-tumor responses
- ✔ Induces long-term, durable protection against tumor re-challenge



www.nature.com/biopharmdeal | March 2022



Clinical Development Path for tigilanol tiglate

Pre-clinical

- ✓ Single agent efficacy in range solid tumors
- ✓ Single agent efficacy in metastatic models
- ✓ Substantial improvement in overall survival compared to standard of care therapies
 - ✓ Combines with anti-PD1 in CPI refractory metastatic models
 - ✓ Synergises with chemotherapy
 - ✓ Synergises with radiotherapy

Veterinary

- ✓ **STELFONTA®** (tigilanol tiglate) registered and marketed for treatment of canine mast cell tumors
- ✓ 75% CR rate in FDA registration trial
- ✓ >15,000 dogs treated in EU, USA, UK and Australia
- ✓ Robust compliant supply chain
- ✓ Canine more relevant to human cancers – spontaneous tumors, relevant histology & genetics & relevant response to treatment

Phase I complete

Design:

Open-label, dose escalation (3+3) of a single intra-tumoral injection of tigilanol tiglate in 22 patients

Population:

Accessible cutaneous, subcutaneous or nodal solid tumors refractory to conventional therapy, or patient choice

Primary objective: Safety and tolerability
Secondary objectives: PK, injected tumor response (RECIST 1.1) at 21 days post injection

Dose: 0.06 to 3.6 mg/m² BSA

- ✓ **Nine tumor types**
- ✓ **Safe and well tolerated**
- ✓ **No MTD but optimal dose identified**
- ✓ **Clinically relevant response in 20/22 pts**
- ✓ **4 CR, 3PR, 14 SD**
- ✓ **At optimal dose - 4/6 CRs, 6/6 local tumor control (CR/PR/SD)**

Phase IIa on going

Head and Neck

Squamous cell carcinoma (HNSCC)

Advanced & locally advanced disease with few options

ACTRN12619001407189

QB46C-H03
Phase I/II
Exploratory

Reporting

Solid malignancies

Advanced & locally advanced disease with few options

NCT05608876

QB46C-H08
Phase II

Recruiting

Sarcoma

Soft tissue (various stages)

Heterogeneous disease with few options

NCT05755113

QB46C-H07
Phase II
Exploratory

Recruiting



Memorial Sloan Kettering
Cancer Center



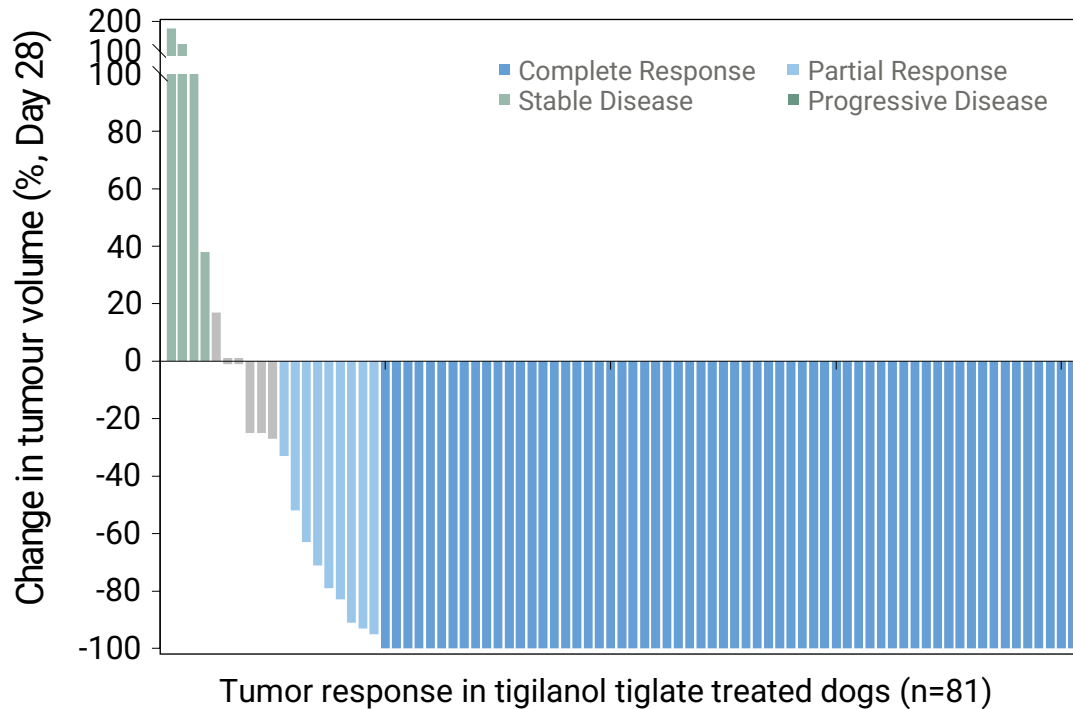
Guy's and St Thomas'
NHS Foundation Trust



US FDA-CVM Registration trial for tigilanol tiglate

A single treatment induces Complete Responses in 75% canine mast cell tumors

Tigilanol tiglate monotherapy – US FDA-registration trial Optimal Dose Rate



Clinical case from US FDA-CVM registration trial



Day 0: Pretreatment



Day 1: tumor haemorrhagic necrosis



Day 7: tumor destroyed (CR)



Day 28: Site healed

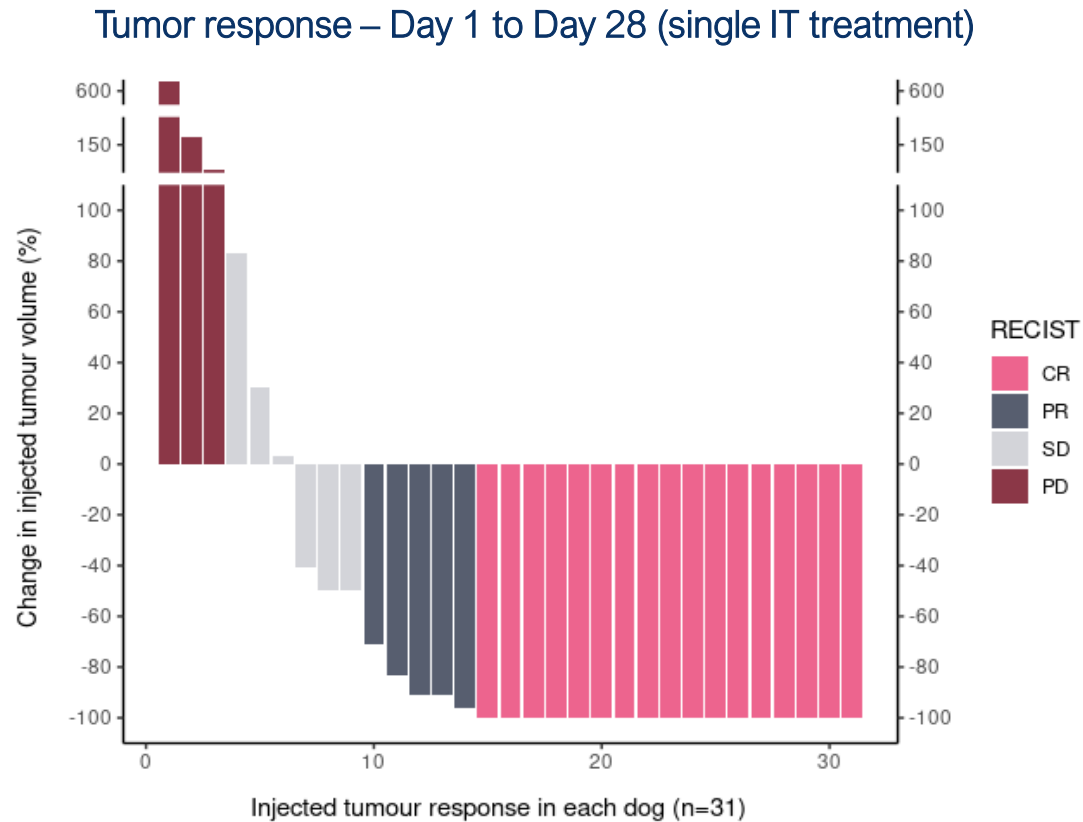
- ✓ 75% CR with a single IT treatment ($p < 0.0001$ vs sham control)¹
- ✓ **Objective Tumor Response Rate (CR/PR) of 80%**
- ✓ 88% CR with a second treatment for partial responders. No tumor recurrence in 89% of evaluable cases (n=57) at 12 months²

1. Study Report PN1894. Published by [De Ridder T. et al \(2020\)](#).
2. [Jones et al., 2021](#).



Canine Clinical Trial of Soft Tissue Sarcoma (STS)

A single treatment induces Complete Responses in 50% STS



✓ 50% CR with a single treatment of tigilanol tiglate ($p=0.0021$ vs sham control)¹

✓ Objective Tumor Response Rate (CR/PR) of 61.9%²

✓ No tumor recurrence in 89% of evaluable cases ($n=9$) that had CR at 84 days post-treatment.

✓ Rapid and clean wound healing

1. Study Report QB46C-C12 (PN1956). Waterfall plot includes sham treated dogs treated with tigilanol tiglate at Day 30, and then evaluated at Day 28 post injection.
2. RECIST v1.1 applied to injected Target tumor².



Canine Case Study

Single treatment Led to a Complete Response in Recurrent STS

Case ID: 35-001
7 yr, 9 mo Beagle

Histogenesis:

Grade 1 Soft tissue sarcoma that had recurred following surgery eight months prior

Treatment:

Tumour Vol: 3,600 mm³
Single IT injection

Result:

Complete Response



Pre: Soft tissue sarcoma above left eye



Day 1: Swelling and necrosis



Day 7: Tumor destroyed



Day 14: Wound healing



Day 84: No recurrence

Canine Case Study

Single treatment Led to a Complete Response in Oral Melanoma

12 yo German Shepherd

Histogenesis:

Oral melanoma

Treatment:

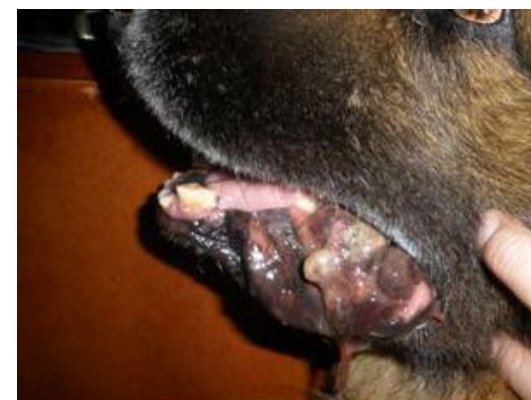
Single IT injection

Result:

Complete Response



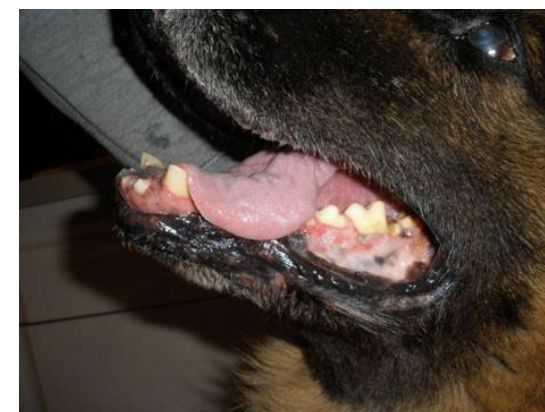
Pretreatment



Day 4: Tumor necrosis evident



Day 17: Tumor necrosis almost complete, wound healing well advanced

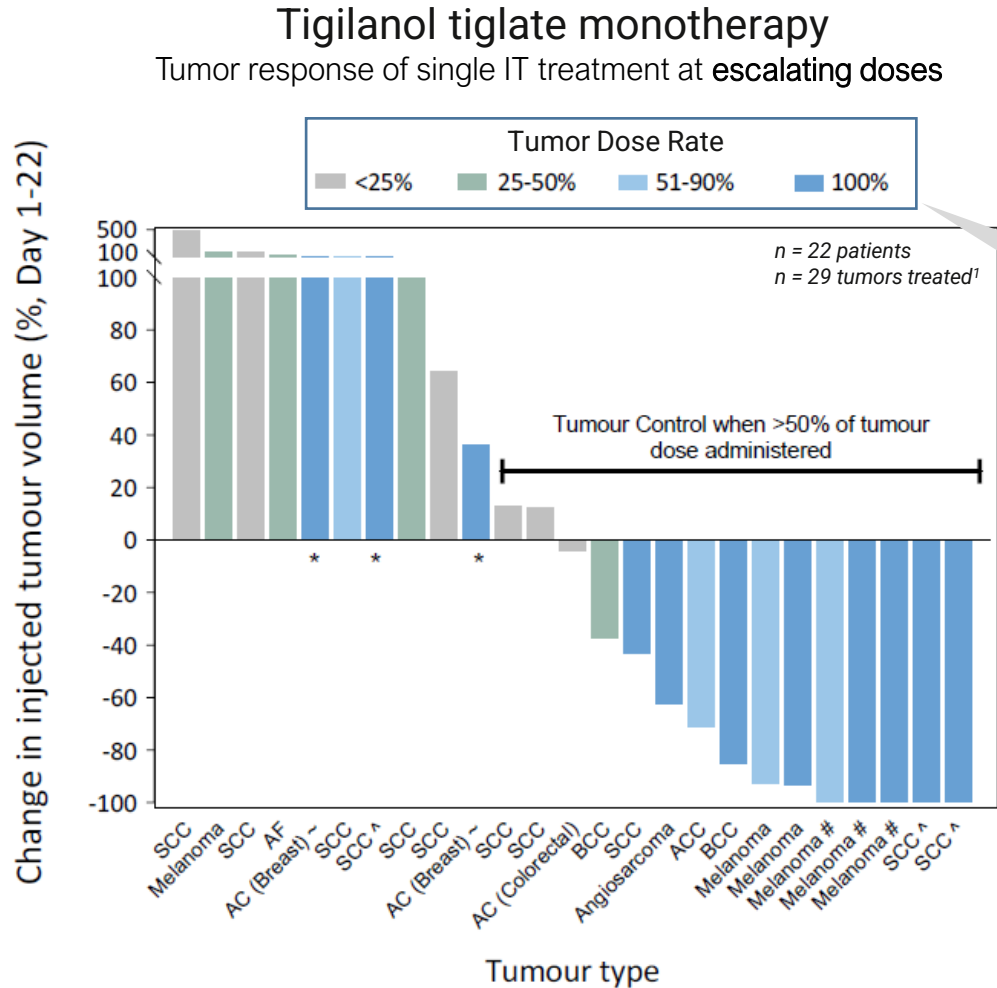


Day 210: Site completely healed* no tumor regrowth

* Day 210 was when owner returned dog to vet; site healed well before this

Phase I (QB46C-H01)

Tigilanol tiglate has shown remarkable clinically relevant responses with a single injection



- **Tigilanol tiglate well tolerated**; AEs mild and transitory
- Clinically relevant tumor responses in all **nine tumor types**
- **20 of 22 patients** had a response to treatment
4 CR², 3 PR, 13 SD
- **2 patients had non-injected tumor** (anesthetic) responses³
- Best responses when tumors receive optimal dose rate

| Phase I | |
|---------------------------------------|---|
| | Optimal Dose Rate 100% tumor dose (n = 6 pts) ⁴ |
| Complete Response (CR) | 50% (3/6) |
| Local Tumor Control (CR/PR/SD) | 100% (6/6) |

^, *, #, ~ = two or three tumors treated per patient
• = highly ulcerated tumor and leakage of tigilanol tiglate, so full treatment rate not administered

Tumor control reported in Squamous Cell Carcinoma (SCC), Melanoma (BRAF), Basal Cell Carcinoma, Angiosarcoma, Atypical Fibroxanthoma (AF), Fibrosarcoma, Breast and Colorectal Adenocarcinoma (AC), and Adenoid Cystic Carcinoma (ACC)

¹Four tumors not assessable.

²Two patients reported CR's post-study by Panizza et al., 2019. EBioMedicine

³Panizza et al., 2019. EBioMedicine

⁴Best RECIST response of injected tumor by calipers from Day 1.



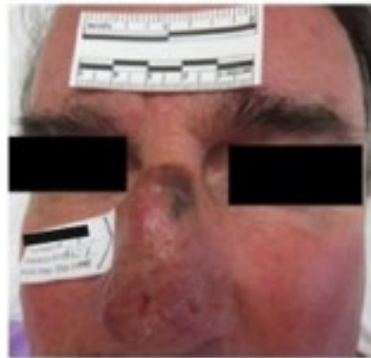
Soft Tissue Sarcoma:

Complete response with a single injection of tigilanol tiglate¹

- Patient had failed surgery
- Difficult to treat lesion, patient initially advised a total rhinectomy

Pt 407 - Soft Tissue Sarcoma (Angiosarcoma)

- Tumor size: 5,141 mm³
- Single IT treatment at optimal dose rate



Pretreatment



Day 2: vascular disruption and haemorrhagic necrosis of tumors



Day 15: tumor necrosis continues



Day 43: Complete Response²

- ✓ **Complete Response & Organ Preservation**
- ✓ **No residual tumor** at 12 weeks (punch biopsy)¹
- ✓ Patient **disease free** (CT scan) at 25 months and **clinically disease free at 30.5 months**¹
- ✓ **Tigilanol tiglate well tolerated**; AEs mild and transitory

¹Phase I Clinical Study Report QB46C-H01 and Panizza et al., 2019. EBioMedicine

²Reported off study by Panizza et al., 2019. EBioMedicine

Squamous Cell Carcinoma:

Complete response with a single injection of tigilanol tiglate¹

- Patient had failed earlier radiotherapy and chemotherapy treatments¹

Pt 202 - Squamous Cell Carcinoma on cheek

- Tumor : 200 mm³
- Single IT treatment at optimal dose rate



Pretreatment



Day 1: Vascular disruption and haemorrhagic necrosis of tumors



Day 5: Tumor necrosis continues



Day 8: Tumor necrosis continues



Day 15: Complete Response

- ✓ Complete Response at Day 15, with no scarring
- ✓ **Tigilanol tiglate well tolerated**; AEs mild and transitory

Phase I Study Report QB46C-H01 and published by Panizza et al., 2019. EBioMedicine

¹Patient had received prior treatment with radiotherapy, cetuximab, cisplatin and 5FU (> 7 months prior to treatment with tigilanol tiglate)

Metastatic melanoma

Complete response in injected and non-injected tumors with a single dose of tigilanol tiglate

Pt 102 - Multiple melanoma

Single IT treatment into top 3 tumors (1,200 mm³) at optimal dose rate 4th tumor (circled) not treated



Day 1: Pretreatment
4 tumors on upper arm

Day 1: 30 minutes post:
Vascular disruption and hemorrhagic necrosis of tumors

Day 3: Necrotic tumors slough

Day 8: Non-injected, 4th tumor (circled) regresses

Day 29: Complete Response in injected and non-injected tumor. Injected sites healed.

Lung & sternum tumor regressed - reported off study^{1*}

Phase I Study Report QB46C-H01 and published by Panizza et al., 2019. EBioMedicine
1. Panizza et al., 2019. EBioMedicine
*. Patient received prior treatment with RT and pembrolizumab 2 months prior to administration of tigilanol tiglate



A Phase II, open label, single arm study (QB46C-H08) to assess the efficacy of intratumoral tigilanol tiglate in various head and neck solid malignancies (NCT05608876)

Head and neck cancer is the **7TH most common** cancer worldwide

~932,000 new cases each year¹



Unmet need

Unresectable
Locally advanced
Recurrent/Metastatic disease



Total Market Value **\$US 5.2 billion** by 2030)²



>108,000 patients unresectable head and neck tumors

Patient Population

- Adults with recurrent and/or metastatic head and neck cancer
- ≥ 1 measurable lesion by ultrasound (\pm CT or MRI) accessible for intratumoral injection (cutaneous, subcutaneous)
- ECOG PS ≤ 2
- Allow unresectable & resectable tumors
- Allow CPI-experienced and prior systemic treatments

Tx1 Phase

Tigilanol tiglate intralesional (≤ 3.6 mg/m² BSA)

Additional Treatments Tx2 to Tx5

Residual Tx1 Tumour

OR

Additional tumours

Surgery

OR

Up to total of 5 repeat injections of TT to be given Q4W per tumour

Determination of tumor ablation rate

Total n=37 patients

Simon's two-stage*
Stage 1 N=17, stop if 5 or fewer responses.

Assessment period = up to 18 months

Primary Endpoint

- Tumor ablation rate

Secondary Endpoints

- AEs & SAE's - safety and tolerability
- Local recurrence rate
- Progression Free Survival (RECIST v1.1)

Exploratory

- General Cancer QoL (EORTC QLQ-C30)
- Head and Neck QoL (EORTC QLQ-H&N35)
- Tumor response in injected and non-injected tumors
- Assessment by itRECIST
- Wound Healing
- ORR (RECIST v1.1 and itRECIST)
- Immune infiltration in surgical/biopsy specimens
- ctDNA ; PBMC's

Top Line data

- Interim data Q2 2024
- Full data Q2 2025

TT, tigilanol tiglate; AE, adverse event; SAE, severe adverse event; CPI, checkpoint inhibitor; CT, computed tomography; ECOG, Eastern cooperative oncology group; MRI, magnetic resonance imaging; Q4W = every 4 weeks; Tx1, Tx2- Tx5 = tigilanol tiglate treatment of the same tumour, BSA = Body Surface Area, ORR = Overall Response Rate; QoL = Quality of Life; EORTC = European Organisation for Research and Treatment of Cancer.

*The null hypothesis will be rejected if 14 or more responses are observed in 37 participants. This design yields a type I error rate of 0.05 and power of 90% when the true response rate is 50%.



An Exploratory Phase II, single-centre, open-label study (QB46C-H07) assessing the preliminary efficacy of tigilanol tiglate in patients with advanced and/or metastatic soft tissue sarcoma (NCT05755113)

There are

80 different types of soft tissue sarcoma

~124 573 new cases each year¹



Unmet need

Safe and effective treatments, especially for advanced disease



Total Market Value **\$US 1.2 billion** (by 2023)²



Patient Population

- Adults with advanced and/or metastatic soft tissue sarcoma
- ≥ 1 measurable lesion by ultrasound (\pm CT or MRI) accessible for intratumoral injection (cutaneous, subcutaneous)
- ECOG PS ≤ 2
- Allow surgical candidates
- Allow CPI-experienced and prior systemic treatments and radiotherapy

Tx1 Phase

Tigilanol tiglate intralesional (≤ 3.6 mg/m² BSA)

Additional Treatments Tx2 to Tx5

Residual Tx1 Tumor

OR

Additional tumors

Surgery

OR

Up to total of 5 repeat injections of TT to be given Q4W per tumor

Determination of tumour ablation rate

Total n=10 patients
Assessment period = 6 months

Primary Endpoint

- Tumor ablation rate at 28 days

Secondary Endpoint

- AEs & SAE's - safety and tolerability
- Pharmacokinetics

Exploratory

- Immune infiltration in surgical/biopsy specimens
- PBMC's
- Local recurrence rate (up to 6 months)

Top Line data

- Interim data Q1 2024
- Full data Q3 2024

TT, tigilanol tiglate; AE, adverse event; SAE, severe adverse event; CPI, checkpoint inhibitor; CT, computed tomography; ECOG, Eastern cooperative oncology group; MRI, magnetic resonance imaging; Q4W = every 4 weeks; Tx1, Tx2, Tx3 = tigilanol tiglate treatment of the same tumour, BSA = Body Surface Area



EBC-1013: Wound healing - veterinary case studies

Canine surgical wound, closure not possible (3 treatments, 7 days apart)



Pre-treatment



Day 19: Wound in-fill



Day 42



Day 63



Day 78

Equine traumatic penetrating wound (1 gel application)



Day of wounding



Day 0 (infected wound 5 days after trauma)



5 day after treatment

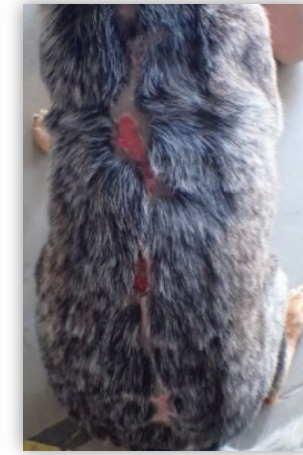
Canine thermal burn (3 treatments, 7 days apart)



Treatment Day 1 (8 days after burn)



Day 14



Day 38



Day 73

Clinical Development Key milestones

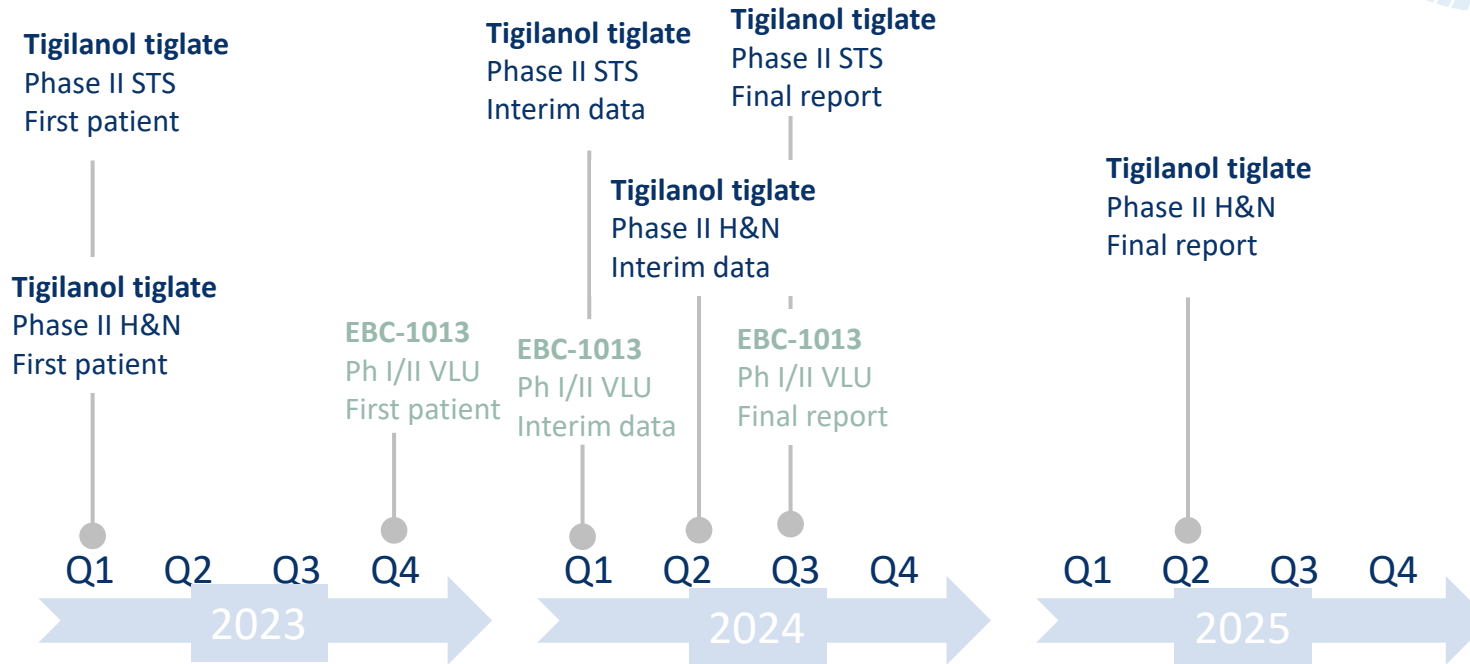
Human

Oncology

Soft tissue sarcoma
Head & Neck

Wounds

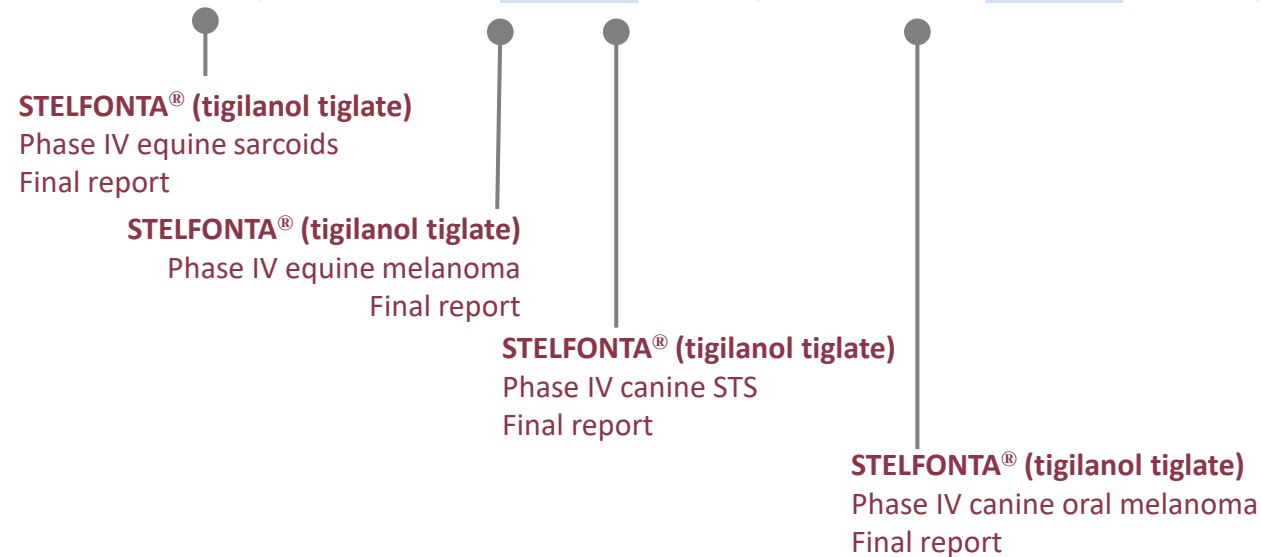
Venous leg ulcers



Veterinary

Oncology

Equine sarcoids & melanoma
Canine soft tissue sarcoma &
oral melanoma



QBiotics – at a glance



EcoLogic™

- Translating ecological knowledge into novel therapeutics
- Megadiverse tropical rainforest
- Phenotypic screening
- Unique Molecular Scaffolds
- Unencumbered IP
- Parallel develop therapeutics for human & companion animal markets



Focused Strategy

Oncology

- Tigilanol tiglate IT
- Solid tumors

Wound healing

- EBC-1013 topical gel
- Venous leg ulcers
- Equine wounds

Early stage programs:

Antibiotics

Anti-inflammatory



Regulatory & Commercial validation

- **STELFONTA®** (tigilanol tiglate) registered and marketed for treatment of canine mast cell tumors
 - 75% CR rate in FDA registration trial
 - >15,000 dogs treated in EU, USA, UK and Australia
 - Robust compliant supply chain



Human Oncology

- **Phase II** trial in patients with head and neck cancer (QB46C-H08)
- **Phase II** trial in patients with soft tissue sarcoma (QB46C-H07)
- Parallel translational research program



Organisation

- Strong scientific knowledge
- In-house veterinary capabilities
- Secure raw material growing facilities
- Revenue and strong balance sheet
- **Seeking partners to accelerate development & commercialization**



Thank you



QBiotics Group

Harnessing the power of
nature to improve lives.

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