

Oncoinvent

Innovative locally acting alpha-emitter technology

Lead Product Candidate: Radspherin® for Peritoneal Carcinomatosis (PC)

Oncoinvent: Differentiated, clinical stage radiopharma in multi billion market opportunity



Clinical stage opportunity in a rising market segment

Oncoinvent is currently amongst most clinically advanced radiopharma company after several big pharma M&As

Unique radiopharmaceutical expertise at all levels of the company

Founders, board members and management of Oncoinvent have a proven track record of developing a radiopharmaceutical asset and bringing it to market (Xofigo®).

Multi billion market opportunity in high unmet medical need indication

The target area of Peritoneal Carcinomatosis can originate from several cancer types, and there exists a large patient population with a high unmet need.

Pipeline in a product

Significant potential for this locally acting, receptor-independent, alpha-emitter therapy, applicable in many different cancer types.

Alpha-emitter with potential for Standard of Care status

Radspherin® has the possibility to become standard of care for Peritoneal Carcinomatosis stemming from an array of different cancer types.

Radiopharmaceutical Expertise at all Levels

Management



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Board Member



Board Member



Board Member



Employee Rep.







Scientific Founders



Full BIOs available at:

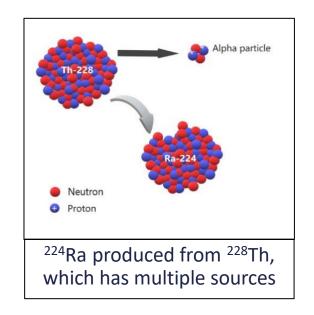
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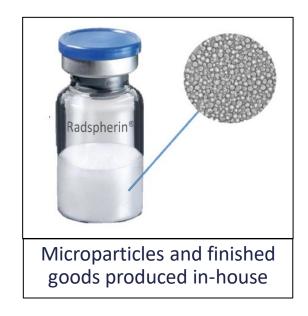






GMP Production Capability



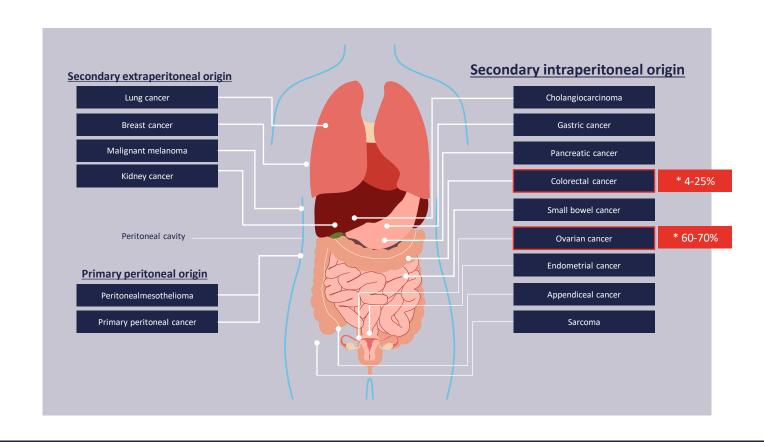


Current GMP facility can support the Clinical Phase 2b program. Outsourcing and scale-up required for Phase 3.





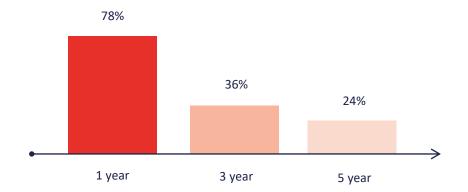
- Many underlying cancers types
- Peritoneal Metastases common at diagnosis*
- Cytoreductive Surgery is Standard of Care
- Considerable Patient Population
- No approved specific treatment
- High Unmet Medical Need
- Significant Market Potential



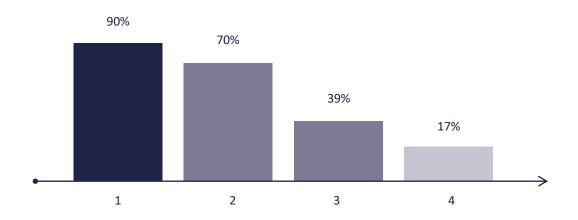


High Unmet Medical Need





Five-year survival rates in ovarian cancer² by disease stage



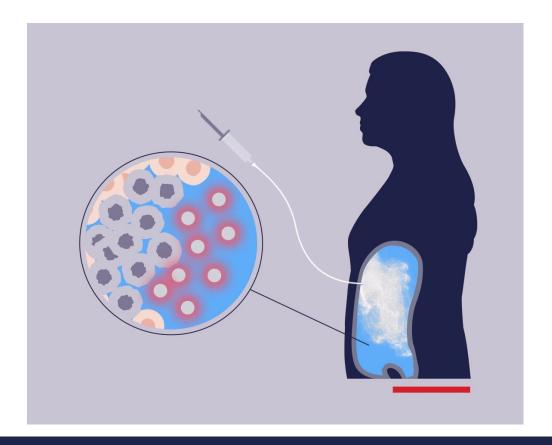


"Historically, the survival rate for **gastric carcinoma** patients with peritoneal carcinomatosis has been poor, ranging **from 2.2 to 8.8 months and no survival at 5 years.**" ³





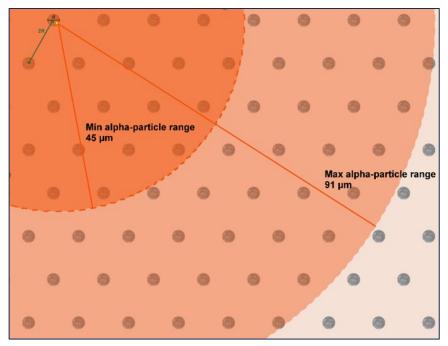
- Radspherin[®] is shipped as dispersion of microparticles in a vial
- Single Dose Administration of 7 Mbq through standard catheter
 1-3 days after surgery to eradicate micro metastases
- No incremental invasiveness or hospitalization
- Can be administered bed-side
- No special precautions
- Easy-to-use, non-invasive, alpha-emitting radiotherapy with local administration







- High Radiation Energy Effectively treating a large body cavity with minimal exposure to other organs
- Shallow Radiation Depth Limited collateral tissue damage
- Convenient half-life A 3.6-day half-life means that Radspherin® can have ca. 10 days of clinically effective radiation and up to 8 days shelf life
- Receptor Independence No cell specific target needed
- Microparticle Depot Retains radiation, CaCO₃ microparticles naturally absorbed once radiation has reached sub-clinical levels
- Alpha-radiation is highly effective, yet short-range in tissue. Ideal for large body cavity surfaces



Alpha particles are high energy but only reach about 0.1 mm in tissue



Radspherin® - 68 patients treated in two indications

- Phase 1/2a fully recruited and first interim readout completed

Two Phase 1/2a studies - assessing dose, safety and tolerability, dosimetry and signal of efficacy of intraperitoneal Radspherin®

| RAD-18-001: Ovarian/fallopian tube cancer | Oslo/Norway(PI: Yun Wang) Leuven, Belgium (PI: Els van Nieuwenhuysen/Ignace Vergote) Madrid/Pamplona, Spain (PI: Luis Chiva) | | |
|--|--|--|--|
| RAD-18-002: Colorectal carcinoma | Oslo, Norway (PI: Stein Larsen) Uppsala, Sweden (PI: Wilhelm Graf) | | |
| For both studies, dose escalation is completed and the highest dose of 7 MBq selected, recruitment completed Q4-23 – 68 patients treated in total. Continued stream of follow-up data. | | | |



Radspherin[®] is safe and well tolerated – reduced radiation exposure to organs vs systemic treatment

| Well tolerated and considered safe to use | So far, in patients that have finished the follow up period, no dose limiting toxicities were observed, no deaths, no serious adverse events related to Radspherin®, and no discontinuations due to adverse events were reported |
|---|--|
| Clinically relevant dose determined | 7 MBq dose determined to be safe. Single-dosing! |
| Biodistribution measured | 80% of radioactivity dose remains in the peritoneal cavity Absorbed doses to other organs way below those associated with any toxicity, advantage over systemic treatment |
| Good safety profile for hospital staff | Low amount of activity in blood and urine No precautions related to external exposure required |



Absorbed Radiation Doses to Normal Organs are low

- Calculated doses well below known limiting thresholds
- None of the patients received absorbed doses higher than 1 Gy* for any normal organ
 - Biokinetic modelling resulted in highest uptake values for bone, blood, kidneys and liver
 - Highest absorbed doses to organs at risk for osteogenic cells (mean value 0.55 Gy*/7MBq), followed by liver, red
 marrow and kidneys (mean value ≤0.1 Gy*/7MBq)
 - No signs of hematological depression or negative effects on kidney or liver function observed in clinical studies

| Tissue | Normal tissue tolerance for standardly fractionated external beam radiotherapy | Corresponding administered activity of Radspherin (MBq) |
|-----------------|--|---|
| Colon | < 11 Gy‡ | >3 000 |
| Small intestine | ≤ 15 Gy¶ | >4 000 |
| Stomach | ≤ 45 Gy¶ | >10 000 |
| Liver | ≤ 30 Gy¶ | >400 |
| Kidney | < 20 Gy¶ | >300 |
| | Threshold for possible major hematotoxicity§ | |
| Red marrow | ≤ 2 Gy§ | ~30 |

¶From clinical experience with standardly fractionated external beam radiation therapy, Emami et al. 2013, QUANTEC group review ‡ From SBRT, Emami et al. 2013.

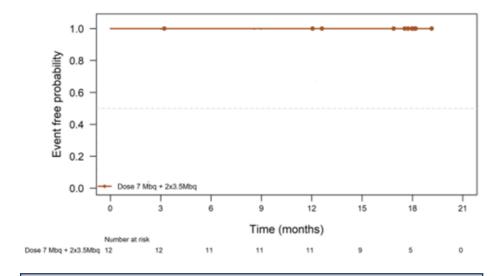
§ Hobbs, R.F., et al., A bone marrow toxicity model for ²²³Ra alpha-emitter radiopharmaceutical therapy. Phys Med Biol, 2012. 57: p. 3207-22.

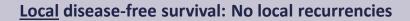


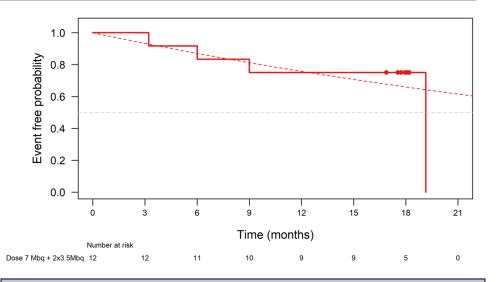
Efficacy - Data indicates substantial DFS Improvement

- Interim efficacy analysis phase 1/2a in CRC (n=22 all dose levels)

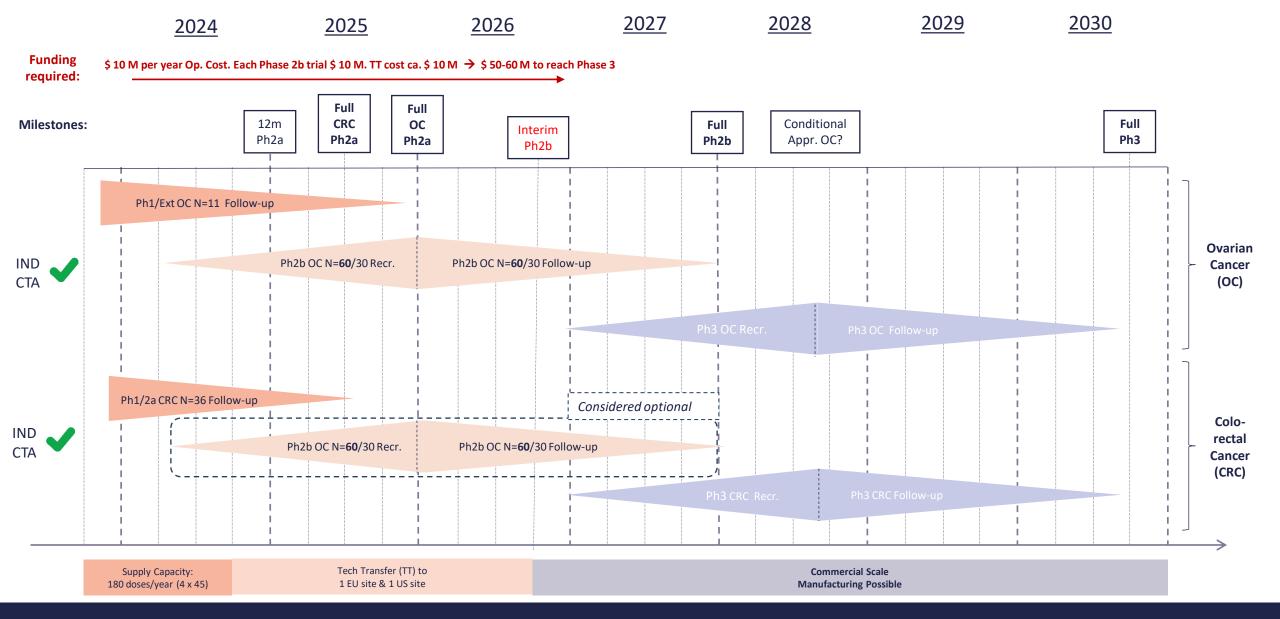
Disease-free survival at 18 months with 7 MBq Radspherin® in combination with SOC was 67 % (n=12)







Overall disease-free survival with dotted line corresponding to an <u>expected median of 30 months</u> (vs. 12 months expected in current SOC).





High addressable patient numbers and unmet medical need

| Ovarian Cancer | USA | Europe | Total |
|----------------------------|--------|--------|--------|
| Patient Diagnosed (100%) | 22,000 | 63,000 | 85,000 |
| Peritoneal Mets (75%) | 17,000 | 47,000 | 64,000 |
| Eligible for Surgery (80%) | 13,000 | 38,000 | 51,000 |
| Achieve R0 (75%) | 10,000 | 28,000 | 38,000 |

| Colorectal Cancer | USA | Europe | Total |
|-----------------------------------|--------|---------|---------|
| Patient Diagnosed Stage IV (100%) | 39,000 | 113,000 | 152,000 |
| Peritoneal Mets (25%) | 10,000 | 28,000 | 38,000 |
| Eligible for Surgery (90%) | 9,000 | 25,000 | 34,000 |
| Achieve R0 (90%) | 8,000 | 22,000 | 30,000 |

Total Treatments per Year Targeted – ca. 68,000

(in PC from ovarian and colorectal cancers only, and in the US and Europe only)



Addressing a multi billion dollar market opportunity

- Targeted Patient Population: Up to 68,000 eligible patients per year (US & Europe)
- Average Pricing Estimate: \$100,000 per treatment (conservative vs. benchmarks)
- The total addressable market in the US and Europe alone is up to \$7 billion
- It takes a penetration rate of only 15% to reach a billion USD and thereby blockbuster sales levels

| Product | PFS Benefit | OS Benefit | Price |
|-----------|-------------|------------|-------------|
| Xofigo | N/A | 3.6 m | USD 69.000 |
| Lutathera | 8.5 m | N/A | USD 190.000 |
| Pluvicto | N/A | 4.0 m | USD 255.000 |

 Radspherin® has a targeted PFS improvement of 12 months and is currently trending at 18 months.

PFS = Progression Free Survival, OS = Overall Survival



Key Intellectual Property

| Patent | Priority date | Area covered | Geography |
|----------------|------------------|---|--|
| WO2017005648A1 | 03-July- 2015 | To provide particles comprising a degradable compound and an α emitting nuclide and/or a radionuclide generating an α emitting daughter nuclide, or a pharmaceutical composition comprising a suspension of the particles | DK NO RS PT PL SI EP ES HU US KR JP AU CA WO MX CN RU BR CN NZ JP |
| WO2015044218A1 | 24-Sept 2013 | The present invention relates to a novel anti- CD146 antibody and derivatives thereof. The antibody and/or derivatives can be used for therapy and/or imaging, diagnosis and/or immunostaining. | EP WO DK ES US |
| WO2018033630A1 | 19-Aug 2016 | The invention relates to chimeric antigen receptor (CAR) specific to p80 and CD146, vectors encoding the same, and recombinant T cells comprising the p80 or CD146 CAR. The invention also includes methods of administering a genetically modified T cell expressing a CAR that comprises a p80 or CD146 binding domain. | WO |

| Patent | Priority date | Area covered | Geography |
|----------------|------------------|---|-----------|
| WO2022058337A1 | 15-Sept 2020 | The present disclosure relates to a particle comprising a degradable compound, a radionuclide, and a phosphorus containing additive. Phosphorus containing additives, such as phosphonates, have the unique ability to control the size of particles for medical applications. The applications allow for use of the particles as medicaments and for imaging, especially within the field of cancer. | WO |
| WO2022058338A1 | 15-Sept 2020 | The present invention related to a combination of radium-224 (224Ra) and/or progeny of 224Ra, and a DNA repair inhibitor for use in the treatment of cancer. The DNA repair inhibitor can for example be a poly (ADP-ribose) polymerase inhibitor (PARPi), a MGMT inhibitor, a DNA-dependent protein kinase inhibitor (DNA-PK inhibitor), an ataxia telangiectasia and Rad3-related (ATR) kinase inhibitor, an ataxia telangiectasia mutated (ATM) kinase inhibitor, a Wee1 kinase inhibitor, or a checkpoint kinase 1 and 2 (CHK1/2) inhibitor. The radium-224 (224Ra) and/or progeny of 224Ra can be comprised in nano- and/or micro sized particles. | WO |

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