# **RESprotect**

|                         |                                   | 01 C.        |
|-------------------------|-----------------------------------|--------------|
| Name                    | RESprotect GmbH                   | kno          |
|                         |                                   | ing          |
| Address/P.O. Box        | Fiedlerstr. 34                    | unr          |
| Postal Code/City        | D-01307 Dresden                   | The          |
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| Email Address           | info@resprotect.de                | tion         |
| Internet Website        | www.resprotect.com                | gen          |
| Number of Employees     | - 10                              | und          |
| Founded (year)          | 2000                              | excl         |
| Type of Laboratory      | S1                                | anti         |
| Areas of Activity       | Cancer chemotherapy;              | exte         |
|                         | Chemotherapy of infectious        | pate         |
|                         | diseases                          | have         |
|                         |                                   | dev          |
| Annual Turnover         | n.a.                              |              |
| Relevant R&D Budget     | n.a.                              |              |
| Biological Patents      | n.a.                              | , (          |
|                         |                                   | In c         |
| External Collaborations | WITEGA/Berlin; Nycomed/Linz,      | ofte         |
|                         | Austria; ERCOM/Budapest,          | fore         |
|                         | Hungary; Clinics Chemnitz;        | that         |
|                         | University Leipzig; University    | dru          |
|                         | Munich; Technical University      | sive         |
|                         | Munich; University Vienna/        | chei         |
|                         | Austria; Avantogen/San Diego,     | eno          |
|                         | USA.                              | caus<br>hibi |
|                         |                                   |              |
| Request for             | Partnering: RESprotect is looking | ores         |
| Further Collaborations  | for the appropriate partner to    |              |
|                         | develop its key project RP101 in  | gen<br>By i  |
|                         | Europe, South America and Asia,   | diffe        |
|                         | and its follow-on compounds       | fect         |
|                         | worldwide.                        | The          |
|                         |                                   | add          |
|                         |                                   | the          |
|                         |                                   | cells        |
|                         |                                   | RP1          |
|                         |                                   | in t         |

## RESprotect – Prevention of Chemoresistance – Overview

RESprotect GmbH is a privately owned biotechnology company located in Dresden Germany. RESprotect is focusing on the inhibition of chemoresistance and the enhancement of chemosensitivity. In contrast to the well own efforts to circumvent or decrease existchemoresistance, this basic approach is rivalled. RESprotect was founded in 2000. e founder is geneticist and came from the unhofer-Institute for Toxicology in Hanver. At present clinical studies with RP101 he pancreas cancer indication, exploratory earch in the identification of next generan of New Chemical Entities (NCEs) and neral broadening of clinical indications are derway. RESprotect is in a position to enter clusively a segment in the huge market of icancer cytostatics. Use patents exist and ension of the patent portfolio by substance ents is achieved. New chemical entities ve been identified and introduced to the velopment pipeline.

## Combating Chemoresistance – Chemogenomics Enters the Battleground

cancer model systems, chemoresistance is en mediated by a single gene, and, theree, may in theory be inhibited by any drug t targets the product of that gene. All these igs possess potency and specificity excluely for only one of the several reasons for emoresistance. In this respect, the chemogomics approach focuses on small molecules, ising favorable phenotypic changes, and initing or preventing the induction of chemsistance. The drugs have to counteract the er-expression of apoptosis-antagonizing nes and to enhance the immune responses. influencing not only one but a number of ferent validated targets a new class of eftive anti-cancer drugs will be developed. ese compounds have to be administered in lition to standard chemotherapy. RP101 is first drug that shows these effects in tumor ls in culture, in animals and in patients. 101 improves the efficacy of chemotherapy in treating pancreatic carcinoma cells or patients.

In pre-clinical studies, RP101 has shown strong antitumor effects due to inhibition of

chemoresistance and the enforcement of apoptotic response upon cancer drug treatment. RP101 affects numerous gene products related to chemoresistance and tumor immunity. In a Phase I study including five different tumor entities and 12 different cytostatic drugs, no enhancement of unwanted side effects had been observed. In a Phase II pilot study with 13 pancreas cancer patients, RP101 co-treatment enhanced remissions, survival and time to progression. The results of the pilot study were confirmed in a second study with 21 patients in similar stages of disease. The results were not identical but similar. Our two studies roughly showed the tendency to double the survival time. In both studies, adverse events were consistent with those observed with the cytostatic drugs alone, or the underlying disease. The efficacy of RP101 exceeds all other regimens. The data implicated that acquisition of chemoresistance was prevented and the antitumor efficacy of standard chemotherapy was improved. A Phase II/III study with larger number of patients is in progress.

## > People

CEO – Founder: Prof. Dr. Rudolf Fahrig CSO – Cell and molecular biology: Dr. Jörg-Christian Heinrich CSO – Pharmacy and chemistry: Dr. Dieter Lohmann Finances: Kerstin Jahn

#### Financing

Nearly 7 million euros were raised by the company in the first round of financing. The next round was replaced by out-licensing the North-America rights of RP101. RESprotect has signed in September 2004 a license agreement with Australian Cancer Technology. The Australian biotech company acquired the license for the use of the anti-cancer drug RP101 in North America. The drug is the first commercial breakthrough of RESprotect. AustCancer (new name Avantogen) will finance the clinical development of RP101 in Germany and the USA. RESprotect or its licensee will have free access to the data for approval of RP101 in Europe or elsewhere outside the USA and Canada.





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