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Chair of ecopa





FP 7 PROJECT:

Scientific and technological issues in 3Rs alternatives research in the process of drug development and Union politics

Coordinator ecopa







What is the START-UP project ?





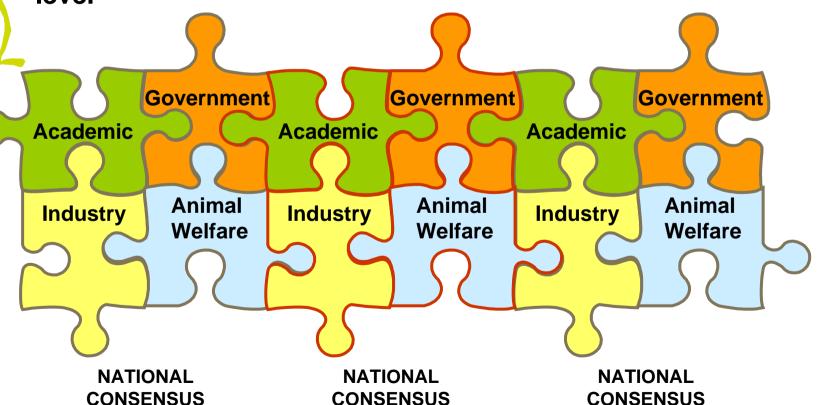
PLATFORM 3

What is ecopa?

PLATFORM 1

European Consensus Platform on 3R-Alternatives.

ecopa is a quadripartite umbrella organisation at the European level



PLATFORM 2





GOALS: Promotion and development of 3R- Alternatives

ACTIVITIES:

- BUILDING NCP's

Actual Status: 13 full members (existing consensus platforms)
Austria, Belgium, Czech Republic, Denmark, Finland, Germany, Hungary,
Italy, The Netherlands, Spain, Sweden, Switzerland (and United Kingdom)

3 associated members (consensus platform under formation)
Norway, Poland, France

Interested member Ireland





ACTIVITIES:

 SUPPORTING THE DEVELOPMENT OF 3R- ALTERNATIVES VIA 4 WG's

RESEARCH POLICY EDUCATION ETHICS

- DISSEMINATION OF 3R-INFO
 - ecopa website: www.ecopa.eu



- ecopa messenger :
- ORGANISATION OF YEARLY WORKSHOPS



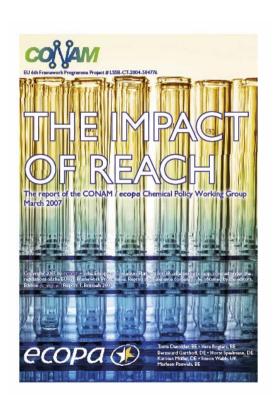
ORGANISATION OF 2 YEARLY eSI WORKSHOPS

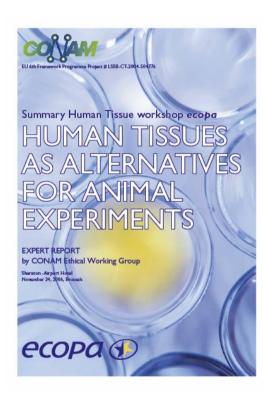




ACTIVITIES:

- EXPERT REPORTS ON CRITICAL 3R- ISSUES











ACTIVITIES:

- PARTNER FOR DISSEMINATION OF RESULTS OF EU PROJECTS ON 3R-ALTERNATIVES
- FP6 PROJECTS

Predictomics

ReProTect

Sens-it-iv

CarcinoGENOMICS







- <u>FP7 PROJECTS</u> HERMES Esnats
- Coordinator of EU PROJECTS

In FP6: CONAM

In FP7: START-UP











WHY FOCUS ON PHARMACEUTICAL DISCOVERY AND DEVELOPMENT?

COMPLEX PROCESS CONSISTING OF

- Target identification
- Target prioritization/ validation
- Lead identification
- Lead optimization



PROBLEM
TOO MANY FAILURES FOR <u>SAFETY</u> AND <u>EFFICACY</u> REASONS IN
LATE STAGE DEVELOPMENT



HIGH ANIMAL USE, HIGH COST, TIME CONSUMING AND COMPETITIVENESS↓







WHY FOCUS ON PHARMACEUTICAL DISCOVERY AND DEVELOPMENT?

ADDITIONAL PROBLEM

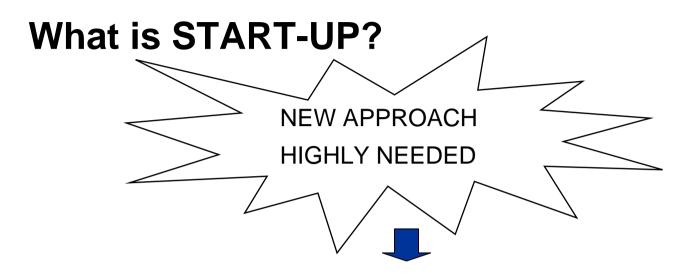
EMERGING NEW DRUG CANDIDATES AND NEW TECHNOLOGIES

- biologicals
- monoclonal Abs
- high MW peptides
- proteins
- nanotechnological drugs









MORE MECHANISTICALLY BASED SAFETY AND EFFICACY TESTS



POSSIBILITY FOR USE OF 3R-ALTERNATIVE METHODS



SAVING ANIMALS, PROMOTION OF 3R-ALTERNATIVES USE





BUT <u>CRUCIAL</u> IS THE IDENTIFICATION OF THE BOTTTLENECKS FOR THE USE OF 3R-ALTERNATIVES IN THE PHARMACEUTICAL INDUSTRY AT DIFFERENT LEVELS

- •SCIENTIFIC
- •TECHNOLOGICAL
- •POLITICAL
- •REGULATORY





SOME BOTTLENECKS EXAMPLES......

LACK OF

- Metabolising systems or use of old fashion technology in actual alternative methods
- Well-defined application domains for currently available alternatives
- Functionality of primary cell cultures
- Crucial alternative methods for quantitative safety assessment such as repeated dose toxicity, developmental toxicity, systemic organ toxicity,....
- Specific (bio) markers and endpoints
- Miniaturisation and engineering of existing alternatives

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GOAL?

- The START-UP project is concerned with the identification and proposal to abolish bottlenecks in the 3Rs approach in pharmaceutical discovery and development.
- The goal of the project is the <u>organisation of 3 Workshops</u> in order to determine
 - a) the state of the art of each of the 3Rs in the EU,
 - b) to assess European strength and gaps in 3Rs and
 - c) the identification of rate limiting steps on the political, scientific, technological level.







Expected Results

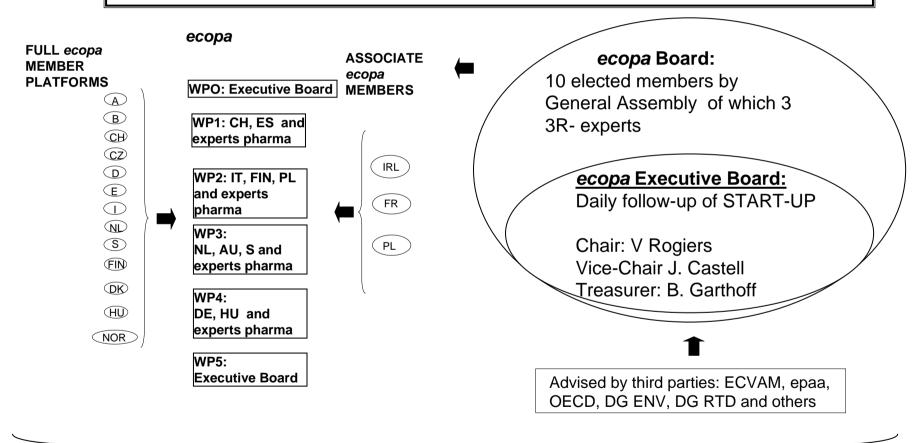
A Consensus Paper containing the concepts and suggestions for a Roadmap for future research

- A **consensus document** that analyses the present status of the 3R alternatives and offers possible solutions.
- Based thereon, a **Road Map** to implement the strategy for a better integration of 3Rs in the EU drug discovery and development strategy will be proposed.





Proposal for the general organisation of START-UP project

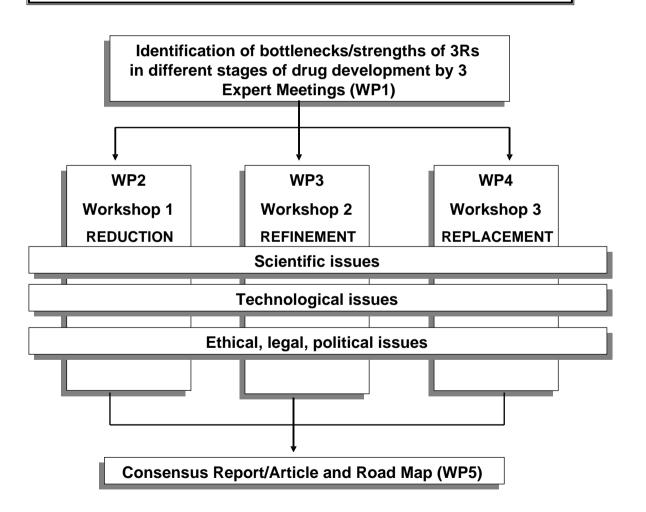


Backed up by scientific/administrative *ecopa* secretariate





Overview of the proposed working plan







Proposed Work Packages

WP0	Management	Major Role for
WP1	Redefinition of bottlenecks in 3Rs in pharmaceutical discovery and development: Meetings with pharmaceutical industry	Board
WP2	Bottlenecks/ strenghts in Refinement Organisation of workshop	NCPs
WP3	Bottlenecks/ strengths in Reduction Organisation of workshop	NCPs
WP4	Bottlenecks/ strenghts in Replacement Organisation of workshop	NCPS
WP5	Consensus report, Scientific Paper and Roadma	p Board and NCPS





Need for additional Experts

- FIRST TASK OF WPs:

CONTACT WITH EXPERTS OF PHARMACEUTICAL AND:OR BIOTECH INDUSTRY

EXPANSION OF EXPERTS LIST AND BALANCED COMPOSITION



PROPOSALS ARE HIGHLY WELCOMED





BUDGET INVOLVED?



TOTAL OF 318,000€

Salary of full time (WP 1) scientific person for 2 years: 128.000€ coordination & practical support of meetings and workshops

General Working (WP 0, 1, 5) 32.000€ (audit, consumables, travel, newsletter, website)

Workshops (WP 2, 3, 4) 137.500€ (45.800€ per workshop)

Indirect costs 20.500€

TOTAL 318.000€





NEGOTIATIONS?

NEGOTIATIONS:

09.11.2007: SUBMISSION OF THE FINAL VERSION

15.11.2007: FINALISATION OF FIRST NEGOTIATIONS

TENTATIVE START DATE: 01/01/2008