



Researcher / Enterprise

Profile form FP7 - Health

Date 2009 09 30Valid until: 2009 12 31

CONTACT DETAILS

| | |
|------------------------------------|---|
| Research organisation / Enterprise | Research Organization |
| Organisation Name | University of Malaya |
| Department | Chemistry |
| Address | Dept of Chemistry, University of Malaya, |
| City | Kuala Lumpur, |
| Country | Malaysia |
| www address | http://www.kimia.um.edu.my/ |

| | |
|-----------------------------|--|
| Researcher / Contact person | Noorsaadah Abd. Rahman |
| Name / Surname | Noorsaadah <u>Abd. Rahman</u> |
| Gender | <input type="checkbox"/> M <input checked="" type="checkbox"/> F |
| Telephone | (603) 7967 4643/4254 |
| Fax | (603) 7967 4699/4193 |
| E-mail | noorsaadah@um.edu.my |

ORGANISATION TYPE

| | | | |
|-----------------------------------|---|--|---|
| Research organisation type | <input type="checkbox"/> Research Organisation <input type="checkbox"/> Company <input checked="" type="checkbox"/> Other | Is your company a Small and Medium Sized Enterprise (SME*)? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | | Number of employees: | |

Description of research activity:

| |
|--|
| |
|--|

Former participation in an FP European project?

YES NO

Project title / Acronym:

INTEGRATING NANOMATERIALS IN FORMULATIONS (*InForm*)

Activities performed:

Research Activities

* Your enterprise is an SME if:

- it is engaged in **economic activity**
- it has **less than 250 employees**
- it has either an **annual turnover not exceeding €50M**, or an **balance sheet total not exceeding €43 M**
- it is **autonomous**

For the definition of SMEs, look at:

http://ec.europa.eu/enterprise/enterprise_policy/sme_definition/index_en.htm

SMEs go Health

Activities supporting SME participation in the health programme of the 7th Framework Programme

www.smesgohealth.org

Co-funded by the European Commission



Researcher / Enterprise

Profile form FP7 - Health



EXPERTISE/COMMITMENT OFFERED

Keywords specifying the expertise:

Drug discovery, molecular modelling, bioassay, organic synthesis

Description of the expertise:

Our research involved searching for potential inhibitors for RNA virus, in particular the dengue virus (a single-stranded RNA virus). Different approaches ranging from bio-assay guided screening of natural product extracts and compounds from combinatorial library to molecular modeling and synthesis were used in searching and developing a potential lead inhibitor for the virus. In searching for a potential inhibitor for the viruses, in vitro antiviral activities were assessed using protease assay as well as virus inhibition assay employing HepG2 cells. We also perform maximum non-toxic dose experiments on the extracts and compounds to determine the relative toxicity of these compounds to the cells. The molecular modeling approaches for the designed of novel inhibitors in our group involve in silico screen of virtual library, docking as well as QSAR, often based on natural product or compounds that have shown some activities as inhibitor. Following the computational design of the compounds with good theoretical activities, the compounds were synthesised in the lab, either individually or combinatorially for further testing.

Commitment offered

Research Demonstration Training
 Technology Dissemination Other:

Interested in participation in Project types

| | | | |
|---|--|---|---|
| <input checked="" type="checkbox"/> Large-scale integrating collaborative project | <input checked="" type="checkbox"/> Small or medium-scale focused research collaborative project | <input type="checkbox"/> Targeted to SMEs | <input type="checkbox"/> Other (Marie Curie Actions, ERA-NET...): |
| <input type="checkbox"/> Coordination and Support Action | <input checked="" type="checkbox"/> Network of Excellence | <input type="checkbox"/> Research for the benefit of SMEs | |

Call references

4th call HEALTH

SMEs go Health

Activities supporting SME participation in the health programme of the 7th Framework Programme

www.smesgohealth.org

Co-funded by the European Commission



Researcher / Enterprise

Profile form FP7 - Health



Main Research Topics : For details and description of research topics, please visit:

www.smesgohealth.org and <http://cordis.europa.eu/fp7/>

:

FP7-HEALTH-2010-single-stage. HEALTH.2010.2.3.3-2 and -3 (mostly interested in Dengue fever), or 2.3.3-4.

EXPECTATIONS

Term commitment

Short (< 1 year) Medium (1 to 3 years) Long (more than 3 years)

Expected results for your organisation:

Some compounds that would be potential lead as RNA virus inhibitor
State-of-the-art technology transfer
Human capacity developed

I agree with the publication of my contact data:

YES

NO

PLEASE FILL IN THE PROFILE FORM AND RETURN IT TO:

buonocore@apre.it

tegas@apre.it

bergonzi@apre.it

SMEs go Health

Activities supporting SME participation in the health programme of the 7th Framework Programme

www.smesgohealth.org

Co-funded by the European Commission