

## Projects selected for the Project Phase of the Programme Strategic Scientific Alliances (PSA): 2004 - 2007

### Biotechnology and Drug Research

- *Towards effective and safe drugs for brain disease: target findings, lead finding, effects and toxicity*  
Professor Dr G.J. Mulder, Leiden/Amsterdam Center for Drug Research and Professor Zhu Xingzu, Shanghai Institute of Material Medicine, Chinese Academy of Sciences
- *Functional Genomics and genetic biodiversities of bollworm baculoviruses*  
Professor Dr J.M. Vlak, Laboratory of Virology, Department of Plant Sciences, Wageningen University and Research Centre and Professor Dr Hu Zhihong, Wuhan Institute of Virology, Chinese Academy of Sciences
- *Genomics of micro-nutrition traits in Brassica rapa and garlic for improved human health*  
Dr A.B. Bonnema, Wageningen University and Research Centre and Professor Dr Qu Dongyu, Vegetables and Flowers Institute, Chinese Academy of Agricultural Sciences
- *Towards development abiotic stress adapted cereal cultivars to meet high quality demands*  
Dr Mei Wang, Center for Phytotechnology Leiden University/ TNO and Professor Dr Zhu Zhen, Institute of Genetics and Development Biology, Chinese Academy of Sciences
- *Intangible systems uncovered: the Barley-Fusarium model*  
Dr G.H.J. Kema, Plant Research International B V, Wageningen and Professor Dr Chen Zhuomin, Institute of Plant Protection, Chinese Academy of Agricultural Science

### Environmental Sciences

- *Interaction between physical and ecological processes in estuaries and coastal waters*  
Professor Dr C.H.R.Heip, Netherlands Institute of Ecology (NIOO-KNAW) and Professor Dr Ding Pingxing, State Key Laboratory of Estuarine and Coastal Research, East China Normal University
- *Diversity of environmental climatic conditions in China since the last glaciation*  
Professor Dr J. Vandenberghe, Institute of Earth Sciences, Free University Amsterdam and Professor Dr Wang Pingxian, Tongji University, Key Laboratory for Marine Geology
- *Sustainable resource use in rural China: Institutions, policies, and markets*  
Professor Dr A.P.J. Mol, Environmental Policy, Department of Social Sciences, Wageningen University and Research Centre
- *Predictive modelling of sediment transport and morphology in the lower Yellow River*  
Professor Dr H.J. de Vriend, Delft University of Technology and Professor Dr Zhou Jianjun, Tsinghua University
- *Remediation and integrated management of heavy metal polluted soils*  
Dr J. Japenga, Alterra Green World Research, Wageningen University and Research and Dr Luo Yongming, Institute of Soil Science, Chinese Academy of Sciences

### Material Sciences

- *Chemistry and catalytic reactivity of small transition metal oxide clusters occluded in micro- and mesoporous materials*  
Professor Dr R.A. van Santen, Netherlands Organization for Catalysis research/Schuit Institute Eindhoven University of Technology and Professor Dr Can Li, Dalian Institute for Chemical Physics, State Key Laboratory of Catalysis, Dalian
- *A study on biomimetic tissue repairing materials*  
Professor Dr J.A. Jansen, Department of Biomaterials, University Medical Center, University of Nijmegen and Professor Dr Li Yubao, Research Center for Nano-Biomaterials, Sichuan University
- *Development and applications of time-dependent density functional theory: Non-linear optical properties of Organo-metallic compounds*

Dr R. Broer, Materials Science Center, University of Groningen and Professor Dr Wu Kechen, Fujian Institute of Research on the Structure of Matter, State Key Laboratory of Structural Chemistry, Chinese Academy of Sciences

- *Fundamental theoretical aspects of nascent morphology: the initial and ultimate nascent state at flat model catalysts*

Professor Dr P.J. Lemstra, Faculty of Chemical Engineering, Laboratory of Polymer Technology (SKT), Eindhoven University of Technology and Professor Yang Xiaozhen, Polymer Physics Laboratory, Center of Molecular Science, Institute of Chemistry, Beijing, Chinese Academy of Sciences

- *Self-organizing nano-patterning of growing surfaces*

Dr J.W.M. Frenken, Kamerlingh Onnes Laboratory, Leiden University and Professor Dr Yang Weisheng, State Key Laboratory for Mesoscopic Physics and Department of Physics, Beijing University