

Work group 3 workshop

Photonics21 Annual Meeting

15th January 2010

Radisson Blu Royal Hotel Brussels

Agenda

Time		
13:00 - 13:15	Introduction: Aim of the meeting	Jürgen Popp / Frank Stietz
13:15 - 13:30	Connection to ETP Nanomedicine	Gert v. Bally
13:30 - 13:45	European large scale action in WG3: Cancer diagnostics for the 21st century Introduction	Jürgen Popp / Frank Stietz
13:45 - 14:45	European large scale action in WG3: Users' perspective	Alastair Watson Andreas Stallmach
14:45 - 15:30	European large scale action in WG3: discussion Aim: Further development of the large scale action	All WG members

2009 - End-of-the-year review

- 23th March: Photonics21 Strategic Research Agenda Meeting in Frankfurt
- March – May: 8 Pre-Workshops to determine the users' needs in Photonics for Life sciences and health.
- 25th May: Workshop in Florence to determine the content of the WG3 chapters for our new strategic research agenda (research priorities, European large scale action).
- 28th May: Workgroup leader meeting in Pisa to present the results.
- 15th June: Presentation of the results at the BoS meeting in Munich.
- July-November: A draft was compiled and sent out to the workgroup. The draft was revised based on the multifarious input of the WG members.
- December: Final revision.
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European large scale action – WG3

Suggestion for a European large scale project with European cooperation

21st Century Cancer Tissue Diagnostics

Motivation: **Earliest possible tumor detection is key for saving millions of lives.** Case numbers for cancer estimated to increase by 50% until 2030 in Germany*

*Source: Deutsche Krebshilfe

Challenges:

- **Cancer is a whole class of diseases**, with manifold causes/mechanisms, affecting a multitude of organs!
- Impossible for one group or even one single country to tackle this multifaceted problem, therefore **European cooperation is needed**.

Aims: More precise (as compared to current gold standard) and faster

- **diagnosis** of cancer
 - **prognosis** of pathogenesis
 - recommendations for and control of **therapy**
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European large scale action – WG3

Suggestion for a European **large scale project with European cooperation**

21st Century Cancer Tissue Diagnostics

Proposed actions:

- **Combining** already existing approaches (including non-photonic techniques where meaningful)
- Development of a **tumor database**
- **Clinical testing** of the solutions in initially 20 – 40 medical centers
- Expansion to **whole Europe** (and, if necessary, further)
- Reduce time to the patient / to the market

Involved players:

- Universities, Research institutes and Hospitals **in close multidisciplinary collaboration starting at the medical problem**
 - Pharmaceutical industry
 - Optical industry
 - Health insurance companies
 - Patent organizations/organizations responsible to release medical product
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