



JOINT TRANSNATIONAL CALL 2016:

"Minimally and non-invasive methods for early detection and/or progression of cancer"

PARTNER REQUEST/COLLABORATION OFFER

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 If you have any questions about this form, please do not hesitate to contact us at

Note: Fields marked with a * are mandatory

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***I agree with the publication of my contact data and of this form on the TRANSCAN-2 Website:**

YES



OFFER FOR COLLABORATION

IF YOU PROPOSE YOURSELF AS A PARTNER IN A CONSORTIUM, PLEASE DETAIL YOUR EXPERTISE

Short description of the areas of interest and expertise (Max. 2000 words):

In a Nutshell

- Biostatistics and Medical Informatics is an internationally recognized research oriented department located in KTU Medical Sciences Faculty.
- Department has tight collaboration with Farabi Research Hospital for data collection, analysis and application of research outcomes.
- Department has three research focus areas. Systems biology, bioinformatics and medical image analysis.
- Cancer is the main application field for these areas in the department.
- Our expertise is mostly on machine learning, multi-scale tumor modeling and applying bioinformatics analysis on mutation, gene expression and DNA methylation data.
- Have experience on medical image processing and computer aided diagnosis (CAD) systems.
- Expertise will be useful for planning therapies for known methods and planning clinical trials for new drugs or devices.

Biostatistics and Medical Informatics Department Profile

- Fulltime Faculty: 1 Professor, 1 Assist. Professor, 3 Research Assistant
- Affiliated Faculty: 2 Professor, 2 Assoc. Professor, 3 Assist. Professor
- MsC and PhD programs

Details

Simulation systems that use patient specific data as input and up-to-date scientific evidence as business rules has chance to help clinicians for evidence based personalized medicine practice. By using these simulation systems clinicians would be able to compare alternative therapy plans and predict results. Application areas of evidence based personalized models' abilities are not limited to clinics. These models have an important role in early drug development and development of therapy devices. It is possible to calculate initial parameters and optimize clinical trials with simulation systems to decrease cost and time. There are two fundamental needs exits to create these simulations; First one is creation of a virtual tumor model and second one is bioinformatics analyses results which shows relation between therapy and genetic profile of patients. We could address and satisfies both of these needs with our experience and expertise in a consortia. We also have medical image processing capability to integrate information gathered from medical image data to an in-silico trial/prediction system.

For details you can see: <http://www.ktu.edu.tr/bmi>



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