



ANIS3

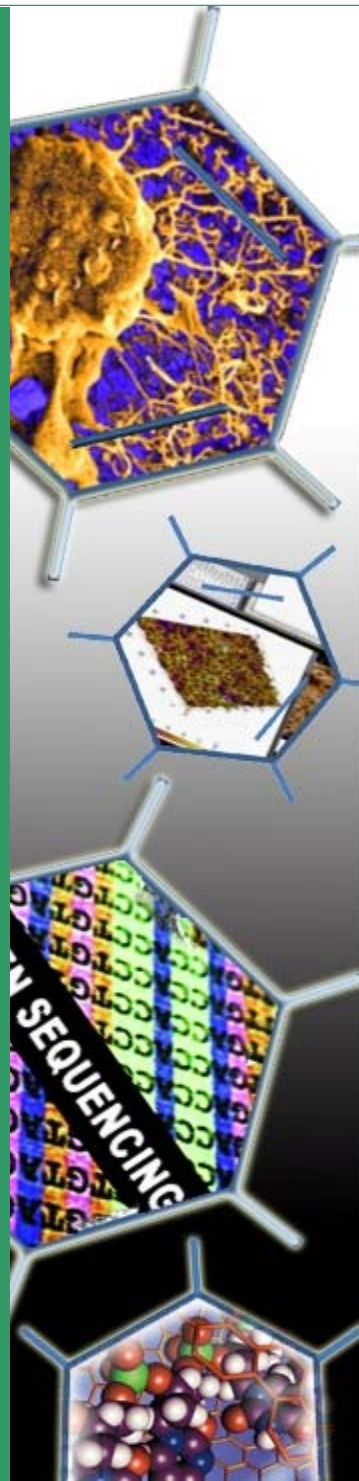
Alp Nano bio
International School 3

Next generation technology
systems and life sciences
interface research:
an integrative approach.

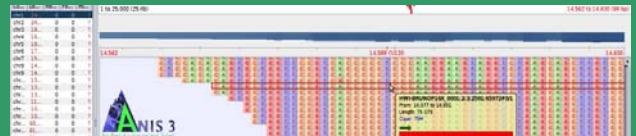
January 23-27, 2012

Sterzing
(Bolzano, Italy)
Vigil Raber
Conference Hall

<http://nanobioschool.com>



The 3rd edition of the International Winter School on Nano and Biotechnology, co-organized by the Latemar consortium (www.latemar.polito.it), the Education, University and Research Department of the Trento Province (PAT), and the Trentino System of Higher Education and Research (STAR: University of Trento, Foundations and Research Centers) is focused on Next-Generation DNA sequencing technologies. “-omics” approaches and biomedical research benefit from recent advances and novel techniques for high-throughput analysis. Thanks to these new technologies, the physiological and pathological mechanisms of diseases can be investigated quantitatively and at the highest achievable genomic resolution.



Nevertheless the use of these complex instruments also presents challenges with regard to efficiency and speed of sample preparation as well as regarding the management and interpretation of the large volume of data obtained.

During the school an introduction to state-of-the-art methods for producing -omics data by NGS techniques will be followed by an in-depth examination of the related advances in micro and nano-biotechnologies, and finally by a session devoted to -omics data analysis. Also an overview of the input coming from imaging studies of cell structure (high content analysis) in future diagnostics will be offered.

Aim of the school is to provide a common language platform to young scientists coming from different fields such as life sciences, physics, chemistry, engineering and informatics where the top research activity demands high interdisciplinarity.

The programme will be structured to allow free time in the afternoon (snow-time) and lectures with timetabled events in the morning, late afternoon and evening.

The lectures will be accessible to PhD students, postdoctoral fellows and others interested in this new emerging interdisciplinary field. Participants will have the opportunity to present their research in the form of a poster.

PAYMENT & REGISTRATION: <http://nanobioschool.com>
Closing date for registration: 16th January, 2012

Maximum 60 participants will be admitted to the school.
Applications will be accepted on a first-come, first-serve basis.



For any other communication, please contact :
nadja.liuti@provincia.tn.it or <http://nanobioschool.com/contact/>



NGS BIOLOGICAL
CHALLENGE



NGS
TECHNOLOGY



NGS DATA
ANALYSIS



MICRO-NANO
APPROACH



NGS BIOLOGICAL
OUTPUT

CONFIRMED SPEAKERS

- **Anderle Mariano** DIUR-PAT, Trento, Italy
- **Ansorge J. Wilhelm** EPFL, Geneve, Switzerland
- **Bortoluzzi Stefania** University of Padova, Italy
- **Cavalieri Duccio** IASMA-FEM, Trento, Italy
- **Chen Wei** BIMS, Scientific Genomics Platform, Berlin, Germany
- **Daub Carsten** Omics Sciences Center, Riken, Japan
- **Delledonne Massimo** University of Verona, Italy
- **Esposito Alessandro** University of Cambridge, United Kingdom
- **Furlanello Cesare** CIT-FBK, Trento, Italy
- **Gasparini Paolo** IRCCS Burlo Garofalo, University of Trieste, Italy
- **Ghodssi Reza** ISR, University of Maryland, United State of America
- **Mussi Valentina** University of Genova, Italy
- **Nelen Marcel** Radboud University Nijmegen, The Netherlands
- **Pederzolli Cecilia** CMM-FBK, Trento, Italy
- **Quattrone Alessandro** CIBIO, University of Trento, Italy
- **Scheffer Hans** Nijmegen Medical Centre, The Netherlands
- **Velasco Riccardo** IASMA-FEM, Trento, Italy
- **Zajac Pawel** Karolinska Institute, Stockholm, Sweden

TECHNICAL SPECIALISTS

- **Arnold Hannes** Caliper - A Perkin Elmer Company, Germany
- **Beretta Luca** Illumina Italy srl Milano, Italy
- **Bianchi Marco** Bio-Rad Laboratories srl, Milano, Italy
- **Deluca Davide** Diatech Pharmacogenetics srl, Jesi (AN), Italy
- **Tanzi Raimo** Life Technologies Applied BioSystems, Italy
- **Vozzi Diego** Resnova srl Genzano di Roma, Italy

ORGANIZING COMMITTEE:

- **Bertorelli R., De Sanctis V.**
CIBIO – Centre for Integrative Biology University Trento
- **Bianchi M., Liuti N.**
PAT – Education, University and Research Department Trento
- **Chierici M.**
FBK – Information Technology Centre (ICT) Trento
- **Lunelli L., Pasquardini L., Potrich C.**
FBK – Materials and Microsystems Centre (CMM) Trento
- **Malesardi S.**
FBK – Event management, Communication Trento
- **Viero G.**
CNR – Institute of Biophysics (IBF) – Trento

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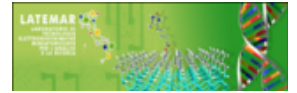
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With the endorsement of:



EVTZ "Europaregion Tirol-Südtirol-Trentino"
GECT "EUREGIO Tirolo-Alto Adige-Trentino"

HOTELS Tourismusverein Sterzing Vipiteno
Ass. Turistica

For reservation or booking, the participants should contact the Tourismusverein of Sterzing:

phone: +39 0472.765325 or fax: +39 0472.765441
info@infosterzing.com or info@infovipiteno.com

For more offers or cheaper accommodation you can contact directly:

www.sterzing.com or www.vipiteno.com

Arriving by plane:

the closest airports to Sterzing are located in Bozen/Bolzano and Innsbruck, not far is also Munich

Bolzano +39 0471 255 255
Innsbruck +43 512 22525-0
Munich +49 89 975-00

