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## Macromolecular interactions—biology and emerging tools

A Research Training Course sponsored by [NordForsk](#)



### **Event:**

Summer School for Ph.D students.

### **Location:**

Italy, Riccione. Hotel Concord.

### **Date:**

12-17 September 2009.

### **Organised by:**

Prof. Alexander Dikiy - NTNU, Norway

Prof. Hans E. Krokan, NTNU, Norway

Prof. Pär Nordlund - Karolinska Institute, Sweden

Prof. Bente Vestergaard - University of Copenhagen, Denmark

Prof. Erikur Steingrímsson - University of Iceland, Iceland

Prof. Sergey Varfolomeev, Russian Academy of Sciences, Russia

Prof. Janne Jänis - University of Joensuu, Finland

**Deadline for application:  
30th of April, 2009**



The main objective of the course is to provide the participating Ph.D. students with theoretical (lectures) and practical (computer tutorials) intensive training in state-of-the-art techniques used to study interactions between macromolecules as a framework for investigations in systems biology, in biomedicine and biology.

The course will be organized as a multidisciplinary meeting in which lectures and practical exercises will be delivered by leading Nordic scientists working within the field. Lecturers with different, but complementary backgrounds will be invited to cover the subjects of the course. The course will be highly relevant both for basic research and biotechnology-related industrial research. The course topics will cover structural biology, proteomics, protein-protein and protein-nucleic acids

topics will cover structural biology, proteomics, protein-protein and protein-nucleic acid interactions, bioinformatics and systems biology. The established and emerging tools will comprise bioinformatics, microarrays, X-ray crystallography, small angle X-ray scattering (SAXS and SANS), nuclear magnetic resonance, mass spectrometry and other spectroscopic techniques.

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## Course programme:

Within the course the following topics are going to be considered:

Lessons learned in DNA repair from X-ray crystallography. Importance of the technique in modern systems biology research.

*Prof Reinhard Wimmer:* NMR - a sensitive tool to monitor interaction between biologically relevant molecules.

*Prof Bente Vestergaard:* The application of Small-angle Scattering in biostructural analysis - from basic principles to future applications in structural genomics.

Systems biology.

Relevant experimental exercises will be associated to some topics.

**It is suggested to the students to bring their own computers to use them during the experimental part of the course.**

A one-day trip to Florence is going to be offered to the participants during the course period.





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## Fees and application:

The course is free of charge; lodging and meals in the Hotel are provided. A contribution to the travel costs of up to € 300 is guaranteed and will be reimbursed upon submission of payment receipts (on the basis of economy fares). It is suggested to the students to bring their own computers for the practical part of the course.

The application should include a statement of current research, with an indication of how this course will be of help in the future, a short letter of recommendation from a supervisor and a CV containing general information, photo, skills and achievements in science of the applicant. Priority will be given to applicants from the Nordic/Baltic countries and Russia; however other suitable candidates will also be considered. Accepted participants will receive a letter of invitation.

Applications with CV should be sent by e-mail to Prof. Alexander Dikiy ([alex.dikiy@biotech.ntnu.no](mailto:alex.dikiy@biotech.ntnu.no)).

Deadline for submitting the application: **30 May, 2009**

**The admitted participants should order their tickets as soon as possible.**



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## Travel information:

Riccione is a small city situated on the Adriatic Sea, about 100 km south from Bologna and very close (5 km) to Rimini.

To arrive to Riccione it is possible to fly either to Rimini ([www.riminiairport.com](http://www.riminiairport.com)) or to Bologna ([www.bologna-airport.it](http://www.bologna-airport.it)). It is also possible to fly to Milan and take a direct train from there to Riccione ([www.trenitalia.it/en](http://www.trenitalia.it/en)).

By the arrival to the Rimini airport or train station, the participants are going to be picked up and escorted directly to the Hotel.

Applicants from Russia or from other countries, who need an Italian Visa, should contact Prof Dikiy ([alex.dikiy@biotech.ntnu.no](mailto:alex.dikiy@biotech.ntnu.no)) for more information and assistance.



## Accommodation:

The Training Course is going to take place in the four stars Hotel Concord.

The students participating to the event are going to be divided gender wise in rooms of two persons.

Hotel Concord is a modern and comfortable Hotel situated 80 m from the sea. The rooms are large, furnished with air conditioner and private facilities. The cuisine of Concord is an excellent example of the famous Mediterranean food and offers each day new dishes and desserts. In its menu it is always possible to choose a sea, meat or vegetarian dish, making it perfect for all the tastes. Concord has a private swimming pool and a gym and is located in the centre of the town near the most famous shopping streets.

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## Social Programme:

The lectures of the course will be held in the morning and afternoon. However it will be given time to the participants to practice other activities and go to the beach.

During the training course period, the participants will be offered a one-day trip to Florence. There, they will have the opportunity to participate to an excursion through the most famous places of the city or to just explore the city by themselves.



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## About Riccione:

The Summer School will be held in the four stars Hotel Concord in Riccione. Riccione is a small city on the Adriatic Riviera and is one of the most famous touristic destinations of the Northern Italy. Besides its beautiful sea and beaches where it is possible to swim and sunbathe until October, Riccione offers to the visitors many other entertainments which guarantee that the staying there is never boring or repetitive.

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## The beach:



Every morning, the 136 bathing establishments offer the spectacle of a clean orderly beach, 41 lifeguards take care of tourists' safety, in the shade of approximately 3,500 beach umbrellas and tents and every guest experiences the dream of a long awaited gratifying holiday.

Riccione's beach offers the opportunity to play different kinds of sport: Beach basketball, volleyball, soccer and tennis. In addition it is possible to sail, practice waterskiing, canoeing and deep sea diving.



## The city:



In Riccione, there are brilliant fashion parades and beauty contests; the most exclusive brands have always been found in Riccione, each with its showcase on the legendary Viale Ceccarini, in the splendour of 1,250 stores open day and night. Additionally Riccione offers many entertainments for adults and children and a mass of good bars and cafes where Italian ice cream of the best quality is produced.

For those who love nightlife, Riccione offers a great choice of clubs and discos, famous for being in the forefront for trendy music and design and open-air dance floors which are an amusing option for all who love the evergreen folk music or the witty salsa and samba rhythm.



## Riccione Terme:



The thermal facility of “Riccione Terme” has lately become one of the most sought after destinations in Europe. Precious spring waters rich in sulphur, bromine, iodine, sodium chloride and magnesium are used for inhalations, mud baths, massages, and rhinogenous deafness. A leading medical equip employs them for cure and prevention, along with mud matured in thermal water, with real and visible results. Riccione Terme has created Oasis, a peaceful and exclusive environment in which the medical equip can recommend you the most suitable customised treatments to get rid of stress and take care of your body.

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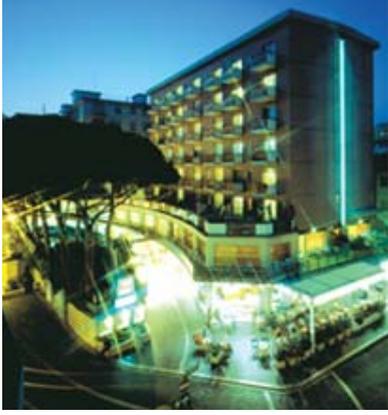
## Photo Gallery:

### The sea and the beach:

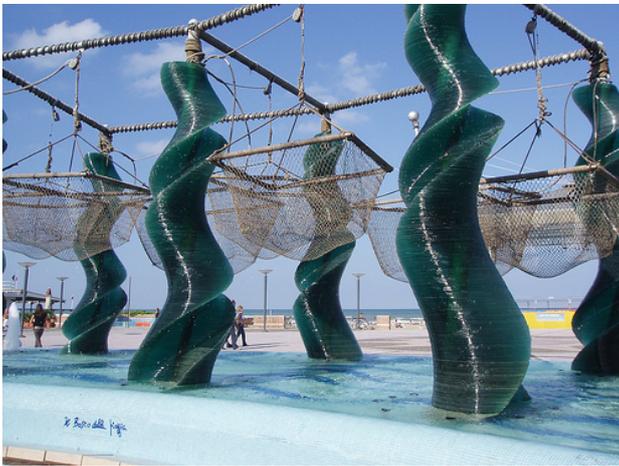


### Hotel Concord:





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## Contacts

**If you have further inquiries, please contact:**

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