SCIENTIFIC REPORT

FEBS WORKSHOP "BIOLOGICAL SURFACES AND INTERFACES"

Location: Hotel Eden Roc, Sant Feliu de Guixols (Catalonia, Spain)
Time: 30/06 – 05/07/2013
Chairs: Ralf Richter (CIC biomaGUNE, Spain) and Catherine Picart (Grenoble INP, France)

SUMMARY

The conference continued a very successful series of conferences, formerly run as ESF Research Conferences and this time as a FEBS Workshop, towards the advancement of and mutual education about the multidisciplinary field of biointerfaces. It covered, in a broad sense, science and technology of relevance for interfaces between synthetic materials and biological systems or within biological systems. The program was organized into invited presentations by internationally renowned researchers, complemented by shorter contributed oral presentations. Ample time was allocated for discussions and poster sessions. Invited keynote lectures by eminent researchers and a forward-look discussion put the biointerface field into a larger scientific, clinical, economical and social perspective.

The main approach in biointerface science involves preparation and characterization of functional surfaces for specific interactions with bio-systems, *in vivo* and *in vitro*, and studies of the molecular and kinetic processes occurring at such interfaces, ranging from molecular and supramolecular interactions of small molecules and biomolecules - proteins, carbohydrates, lipids, nucleic acids - to cell adhesion, differentiation and tissue formation at the interface. As such, this conference spanned a wide range of topics including biomimetic surface platforms, biomembrane and supramolecular materials, intercellular communication and cell-extracellular matrix interactions and their control by designed and intelligent surfaces, soft matter science, nanotechnology, and detection systems with down to single molecule sensitivity.

A special feature in this year's programme was a dedicated programme session "Glycoscience and Biointerfaces". By exposing the progress that has been made in the field of glycoscience in the last years, the conference presented an excellent opportunity for glycosciences to increase outreach and to engage a large and multidisciplinary community.

The conference was intended to be a vibrant forum for the interaction of young and senior researchers, towards the advancement of and mutual education about the biointerface field. A particular and perhaps unique feature of this Workshop is that it provided an interface between scientists from different, at times exceedingly diverse, fields. Scientists trained to speak different languages – biologists/physicians and engineers/physicists/chemists – ventured into the unknown to discover and benefit from the foreign "speak". The workshop was met with a very positive response from the speakers and the participants. We are pleased that the formula chosen for the workshop program, including the workshop location, worked out very well in stimulating interactions and exchange of ideas across all fields and between young and senior researchers.

DESCRIPTION OF CONTENT AND DISCUSSIONS

Summary of the programme. The programme featured five sessions with distinct topics:

- Engineering Biointerfaces
- Glycoscience and Biointerfaces
- Fundamentals of Interfacial Behaviour and Interactions
- Biointerfaces – Cells, Cell Targeting and Medical Applications
- Nanoscale Characterization of Interfaces and Bioentities

that were presented by three to four invited speakers per Session (17 in total). Another two sessions were based on short talks by young scientists (9 in total) selected from the submitted applications, and by corporate sponsors (3 in total). Three invited Keynote Lectures by eminent scientists (Alain Brisson, Dennis Discher and Jacob Israelachvili) provided historical views and outlooks on key areas in the field. The scientific quality of the presentations was judged by the participants to be very high throughout.

Posters were on display in the conference room throughout the entire conference, with 50% of the posters being on display at any given time. Poster sessions were organized once or twice a day (5 sessions in total) in the late afternoons and/or in the evenings.

A "Forward Look" plenary discussion, moderated by the two vice chairs (Eva-Kathrin Sinner and Katharina Maniura) and featuring a panel of 5 senior participants (Dennis Discher, Jacob Israelachvili, Heike Walles, Jesus Perez Gil and Alex Bunker), complemented the scientific program. This session is intended as a preparation of next year's meeting.

The final conference program can be found on http://www.esf.org/serving-science/conferences/details/2013/confdetail427/427-final-programme.html and appended to this report.

Glycoscience and biointerfaces. Glycoscience is most relevant in the context of biointerfaces, but has only been sporadically present in past conference editions. We strengthened the connection with glycoscience, through a dedicated session on the first day of the conference. Anthony Day, Katharina Ribbeck and Heike Walles contributed as invited speakers, highlighting examples of current biological (incl. structural, biochemical, cell and tissue) and biomaterials (incl. biomedical) research in which glycoscience plays a key role.

List of invited speakers:

Keynote Lectures

Alain Brisson (CNRS – Université Bordeaux I, FR)
A 25-year long journey with Annexin-A5: from structure to membrane repair and applications in disease detection
Dennis Discher (University of Pensylvania, US)
'Self' versus 'Foreign' and Soft versus Stiff Interfaces - from survival to differentiation
Jacob Israelachvili (University of California Santa Barbara, US)
Breakthroughs and belly flops in understanding biomolecules and biosurface interactions

Session - **Engineering Biointerfaces**

Janos Vörös (ETH Zürich, CH)

Controlling the biointerface using potentials and currents
Jason Burdick (University of Pennsylvania, US)
Hydrogel Interfaces to Control Stem Cell Interactions
Karine Glinel (Université Catholique de Louvain, BE)
Surfaces Engineered at the Nano/Micrometer Scale to Control Bacterial and Mammalian Cell Behaviors
Bruno Antonny (CNRS - Université de Nice Sophia Antipolis, FR)
Self-organization of biochemical reactions by membrane curvature

Session – **Glycoscience and Biointerfaces**
Anthony Day (University of Manchester, UK)
Structural and functional insights into sugar-protein networks in inflammation and ovulation
Katharine Ribbeck (Massachusetts Institute of Technology, US)
Mucin polymers for bioinspired filters and coatings
Heike Walles (University of Würzburg, DE)
Influence of ECM components on engineering of 3D tissue and cancer models

Session – **Fundamentals of Interfacial Behaviour and Interactions**
Christine Ortiz (Massachusetts Institute of Technology, US)
Morphometrically-controlled biological and bio-inspired suture joint interface in armor
Mirjam Leunissen (FOM Institute AMOLF, NL)
The entropic impact of tethering, multivalency and dynamic recruitment in systems with specific binding groups
Mark Biggs (Adelaide University, AU)
Molecular modeling of protein adsorption: from fundamentals to design

Session – **Cells, Cell Targeting and Medical Applications**
Fiona Watt (Kings College London School of Medicine, UK)
Intrinsic and extrinsic control of epidermal stem cell fate
Ilya Reviakine (CIC biomaGUNE, ES)
Form lipids to platelets: interactions between biological model systems and inorganic oxides
Andrès Garcia (Georgia Institute of Technology, US)
Biofunctional materials for cell delivery and tissue repair
Jesus Perez Gil (Universidad Complutense de Madrid, ES)
Understanding the molecular mechanisms at the breathing air-liquid interface to develop novel therapeutic tools in respiratory medicine

Session – **Nanoscale Characterization of Interfaces and Bioentities**
Yves Dufrêne (Université Catholique de Louvain, BE)
Atomic force microscopy: a nanoscopic window on the cell surface
Sylvie Roke (EPFL, CH)
Nonlinear spectroscopy and imaging of soft and living systems
Fredrik Höök (Chalmers University of Technology, SE)
Label-free biomolecular interaction analysis and equilibrium-fluctuation-based single-molecule studies of cell-membrane mimics

Participation. The total number of participants, including invited speakers, regular participants, organizers and corporate sponsors, was 144. We received a total of 177 applications, from which we selected 112 regular participants, considering interdisciplinarity and scope, gender and geographical balance. Among the participants were 107 graduate students and postdoctoral researchers, 31 principal investigators and 6 corporate sponsors. We considered this a good balance between young and senior researchers for the intended event. A full participant list is appended to this report.

Discussions and training aspects. The workshop brought together renowned experts in their respective fields and interested young scientists in a forum that aimed at fostering interactions between and active involvement of all participants, leading to mutual education and cross-fertilization between the areas of biology, physics, chemistry, engineering and medicine.

We emphasized creating an atmosphere conducive to informal interaction. To this end, buffet-style breakfast, lunch and dinner were shared by all participants. Most invited speakers attended the workshop throughout its total duration. Long mid-day breaks, the remote location and relaxed atmosphere of the hotel park (including a bar, many benches and tables, a pool and access to the Mediterranean Sea) ensured that most people stayed on site throughout the meeting and that there was ample opportunity for informal discussions. My personal impression, confirmed by oral and written feedback from the participants, was that these opportunities have indeed been seized: participants mixed well, irrespective of their scientific background and level of seniority.

We also reserved ample time for poster sessions - 11 hours in total. Beverages (financed by corporate sponsors) were provided throughout the three evening poster sessions. Discussions at the posters were vivid and intense: many participants virtually needed to be "chased away" from their posters upon closure of the conference room at midnight. An independent jury, consisting of 5 speakers and senior participants (Andrès Garcia, Karine Glinel, Katharina Ribbeck, Jesus Perez Gil and Robert Latour), selected the recipients of 5 poster prizes (sponsored by Biointerphases, Acta Biomaterialia and Advanced Healthcare Materials) among the students and postdoc participants, which were awarded at the closing conference dinner.

Prior to the meeting, we asked all speakers explicitly to include a careful introduction, understandable to the non-specialist, in their lecture. We considered this crucial for a broad audience with varying backgrounds, many at the PhD student and postdoc levels. The vivid discussions after each talk indicated that this worked out very well. Depending on the length of the lecture, we reserved up to 15 minutes for discussions. In most cases, this time was indeed used, and discussions continued throughout the coffee breaks and beyond.

Venue, location and organizational aspects. With its remote location at the Mediterranean Sea and its park style, the Hotel Eden Roc was ideal for this workshop. All accommodation, excellent food, beverages and a conference room (for lectures and poster sessions) were provided by the hotel. This infrastructure clearly fostered ample interaction! The hotel staff was very friendly and helpful, and we were very pleased with the service provided. If any criticism is to be made at all, then it is about the conference room. Audio and video

equipment, as well as lighting during the poster session were acceptable but could be improved.

The ESF Conference Unit, headed by the ESF Conference Officer Allegra Roccato, took care of many practical aspects of organization, before, during and after the Workshop. This support was very helpful.

RESULTS AND FUTURE IMPACT

A summary of participants' responses on questionnaires that we distributed towards the end of the meeting is appended to this report. It illustrates that the evaluation was overwhelmingly positive. In particular, participants were pleased with the quality of the lecturers and talks, the scientific training and the interactions with the speakers. A principal objective of the meeting - to foster interaction of young and senior researchers from a rather broad range of scientific disciplines towards the advancement of and education about biointerfaces – was hence achieved.

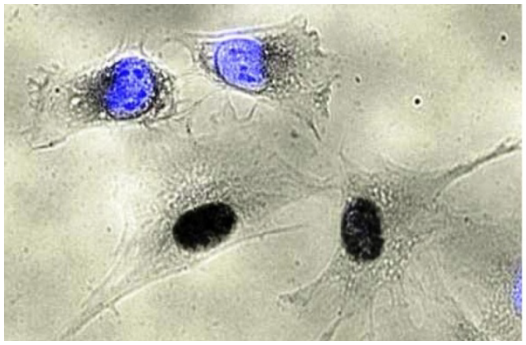
The number of applications and the enthusiasm of the participants illustrates that the topic and format of this meeting remain very attractive. With the shifting priorities at ESF, a long-time sponsor, the longevity of this very successful and stimulating event is in danger. Indeed, it is only thanks to quick action by the chair and co-chair that the support from FEBS, ESF EGSF and other sources could be secured for the 2013 meeting. The vice chairs of this meeting, Eva-Kathrin Sinner and Katharina Maniura, are committed to organize the 2015 edition of this conference. In previous years, artificial surfaces, bio/non-bio interfaces, and the surrounding tools, were very much present as a unifying concept of the meetings. While these were also addressed in this year's meeting, the processes at interfaces within biological systems, such as intercellular communication and the interactions between cells and the extracellular matrix played an increasingly important role. The focus - and the balance between biology and technology – of the next edition are currently determined by the new chair and co-chair. Regardless of their choice, these meetings are very much likely to continue serving their role as a center stage for interaction across disciplines and emerging new ideas for fundamental research and applications.

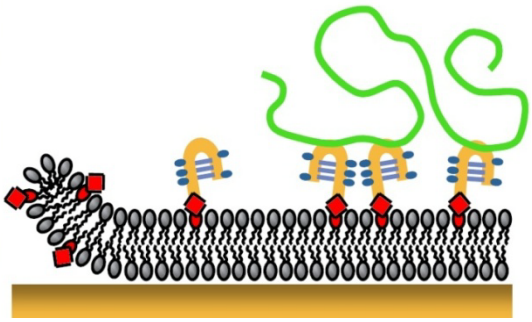
With its spirit, this series of meetings represents an attractive event for glycosciences to get involved, to increase outreach and to engage a large and multidisciplinary community. The decision to schedule a "Glycoscience and Biointerfaces" Session in this year's meeting was a first active step in this direction. The three presentations of the session, on sugar-protein networks in inflammation and ovulation (by A. J. Day), on the filtering action of mucin biopolymers (by K. Ribbeck) and on the importance of proteoglycans in tissue engineering (by H. Walles), respectively, nicely illustrated the important role of carbohydrates in biointerfacial processes and were well received. We anticipate that this contribution will be a seed for glycosciences to establish a more prominent role in biointerface science. Other invited talks presenting the application of carbohydrates in material engineering (e.g. J. Burdick), and a fair amount of posters (e.g. by E. Migliorini, D. Thakar, M. Bally, A. Kunze, M. Paraccino, V. Pyeshkova, and B.-T. Stokke) and contributed talks (e.g. by G. Dubacheva and T. Crouzier) presenting various chemical, biological and/or engineering aspects of glycoscience at the conference indicate that this is indeed happening. A quantitative assessment at this point is premature, yet based on informal feedback received, it can be anticipated that the interactions, training and contacts established at this meeting have enhanced the visibility of glycoscience and will have a positive impact in terms of fostering interdisciplinary collaborations involving glycoscience.

APPENDED MATERIAL

- Full conference program
- Summary of responses to evaluation forms
- List of participants

FEBS Workshop





Conference Programme

Biological Surfaces and Interfaces

30 June - 05 July 2013

Hotel Eden Roc, Sant Feliu de Guixols, Catalonia, Spain

Chair:	**Ralf Richter,** CIC biomaGUNE, ES
Co-Chair:	**Catherine Picart,** Grenoble INP, FR
Vice-Chairs:	**Eva-Kathrin Sinner**, BOKU, AT
	Katharina Maniura, EMPA, CH

The Conference is supported by:

ESF Conferences

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Biointerphases

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BiolinScientific

Scientific Scope

The conference covers, in a broad sense, science and technology of relevance for interfaces between synthetic materials and biological systems or within biological systems – biointerfaces – which constitute one of the most dynamic and expanding interdisciplinary fields in science and technology. Rapid progress is driven by a number of growing industrial and clinical applications –biosensors and biochips, tissue engineering and medical implants, stem cell therapies, nanomedicine and drug delivery, medical implants – and by the connected need to understand biointerface and self-assembly processes at a fundamental level. We hope to stimulate exchange of ideas between biologists, chemists, physicists, engineers and physicians.

The main approach in biointerface science involves preparation and characterization of functional surfaces for specific interactions with bio-systems, in vivo and in vitro, and studies of the molecular and kinetic processes occurring at such interfaces, ranging from molecular and supramolecular interactions of small molecules and biomolecules - proteins, carbohydrates, lipids, nucleic acids - to cell adhesion, differentiation and tissue formation at the interface. As such, this conference spans a wide range of topics including biomimetic surface platforms, biomembrane and supramolecular materials, controlling cellular responses by designed and intelligent surfaces, soft matter science, nanotechnology, optical, magnetic and mechanical detection systems with down to single molecule sensitivity, and bioarrays.

The conference will be a vibrant forum for the interaction of young and senior researchers, towards the advancement of and mutual education about the biointerface field. The program is organized into invited presentations by internationally renowned researchers, complemented by shorter contributed oral presentations and poster sessions by young scientists. Invited after-dinner keynote lectures by eminent researchers and a forward-look discussion will put the biointerface field into a larger scientific, clinical, economical and social perspective.

Sunday 30 June	
17.00 – 19:30	Registration at the ESF Desk
19:00	Welcome Drink
20:00	Dinner

Monday 1 July	
08.35 - 08.50	Welcome & Information
08.50 - 09.55	***Keynote Lecture I*** – Chair : **Ralf Richter**, CIC biomaGUNE, ES **Alain BRISSON**, UMR-CBMN CNRS-Université Bordeaux 1, FR *A 25-year long journey with Annexin-A5: from structure to membrane repair and applications in disease detection*
Session 1: Engineering biointerfaces Chair: **Catherine Picart**, Grenoble INP, FR	
09.55 - 10.30	**Janos VÖRÖS**, ETH Zürich, CH *Controlling the biointerface using potentials and currents*
10:30 - 11:00	Coffee break
11.00 - 11.55	**Jason BURDICK**, University of Pennsylvania, US *Hydrogel interfaces to control stem cell interactions*
11.55 - 12.30	**Karine GLINEL**, Université Catholique de Louvain, BE *Surfaces engineered at the nano-/micrometer scale to control bacterial and mammalian cell behaviour*
12.30	Lunch & Free Time
15.45 - 16.15	Coffee break
Session 2 – Glycoscience and biointerfaces Chair: **Ralf Richter**, CIC biomaGUNE, ES	
16.15 - 17.10	**Anthony DAY**, University of Manchester, UK *Structural and functional insights into sugar-protein networks in inflammation and ovulation*
17.10 - 17.45	**Katharina RIBBECK**, Massachusetts Institute of Technology, US *Mucin polymers for bioinspired filters and coatings*
17.45 - 18.35	**Heike WALLES**, University of Würzburg , DE *Influence of ECM components on engineering of 3D tissue and cancer models*
18.55 - 20.25	Dinner
20.25 - 21.20	**Bruno ANTONNY**, CNRS & Université de Nice Sophia Antipolis , FR *Self-organization of biochemical reactions by membrane curvature*
21.20	Poster Session I & Drinks Reception

Tuesday 2 July	
Session 3: Fundamentals of interfacial behavior and interactions Chair: **Ilya Reviakine**, CIC biomaGUNE, ES	
09:00 - 09:55	**Christine ORTIZ**, Massachusetts Institute of Technology , US *Morphometrically-controlled biological and bio-inspired suture joint interface in armor*
09:55 - 10:35	**Mirjam LEUNISSEN**, FOM Institute AMOLF , NL *The entropic impact of tethering, multivalency and dynamic recruitment in systems with specific binding groups*
10.35 - 11.10	Coffee break
11:10 - 11:50	**Mark Biggs**, Adelaide University, AU *Molecular modeling of protein adsorption: from fundamentals to design*
Session 4: Contributed Talks I Chair: **Eva Sinner**, BOKU, AT	
11:50 - 12:05	**Thomas Crouzier**, Massachusetts Institute of Technology , US *A PEG-based molecular patch for the mucosa*
12:05 - 12:20	*Biomat Grant* **Jasmine Seror**, Weizmann Institute of Science, IL *Molecular origins of biolubrication*
12.30	Lunch & Free Time
15.30 - 16.00	Coffee break
Session 4: Contributed Talks I (continued)	
16:00 - 16:15	**Sponsor Talk – TECAN –** Presented by Denis Coulet *Target-based drug activity and post-translational and transcriptional analysis using ex vivo Alvetex®Scaffold three-dimensional cell culture technology*
16:15 - 16:30	**Sponsor Talk – JPK INSTRUMENTS** – Presented by Carmen Pettersson *QI™- New generation of quantitative nanomechanical atomic force microscopy measurements in high resolution*
16:30 - 16:45	**Sponsor Talk – CYTOSURGE –** Presented by Michael Gabi *FluidFM Technology*
16:45 - 17:00	**Manuel Salmeron-Sanchez**, University of Glasgow , UK *Functional living biointerfaces*
17:00 - 18:40	Poster Session I (continued)
18:55 - 20:25	Dinner
20.25 - 21.30	***KEYNOTE LECTURE II*** – Chair: **Catherine Picart**, Grenoble INP, FR **Dennis DISCHER**, University of Pennsylvania , US *'Self' versus 'Foreign' and Soft versus Stiff Interfaces - from survival to differentiation*
21:30	Poster Session I (continued)/Poster Session II

Wednesday 3 July	
Session 5: Biointerfaces – cells, cell targeting and medical applications Chair: **Jason Burdick**, University of Pennsylvania, US	
09:00 - 09:55	***THE EMBO LECTURE*** **Fiona WATT**, Kings College London School of Medicine (UK) *Intrinsic and extrinsic control of epidermal stem cell fate*
09:55 - 10:30	**Ilya REVIAKINE**, CIC biomaGUNE, ES *From lipids to platelets: interactions between biological model systems and inorganic oxides*
10:30 - 11:00	Coffee break and Group Picture
11:00 - 11:55	**Andrès GARCIA**, Georgia Institute of Technology, US *Biofunctional materials for cell delivery and tissue repair*
11:55 - 12:30	**Jesus Perez GIL**, Universidad Complutense de Madrid , ES *Understanding the molecular mechanisms at the breathing air-liquid interface to develop novel therapeutic tools in respiratory medicine*
12:30 – 12:40	**Patrick van Dijck**, University of Leuven, BE *Presentation of FEBS*
12:40	Lunch
14:00	**Excursion to Dali Theatre-Museum in Figueres**
18:55 - 20:25	Dinner
20:30 – 20:40	**ESF Presentation** Rapporteur: **Jakob Schweizer**, University of Oxford, UK
20:40 - 21:30	**Forward Look Plenary Discussion** Moderators: **Katharina Maniura**, EMPA, CH and **Eva Sinner**, BOKU, AT With discussion input from: *Jacob Israelachvili, Dennis Discher and others*
21:30	Poster Session II (continued)

Thursday 4 July	
Session 6: Nanoscale characterization of interfaces and bioentities Chair: **Janos Vörös**, ETH Zürich, CH	
09:00 - 09:55	**Yves DUFRÊNE**, Université Catholique de Louvain, BE *Atomic force microscopy: a nanoscopic window on the cell surface*
09:55 - 10:30	**Sylvie ROKE**, EPFL, CH *Nonlinear spectroscopy and imaging of soft and living systems*
10.30	Coffee break

11:00 - 11:55	**Fredrik HÖÖK**, Chalmers University of Technology , SE *Label-free biomolecular interaction analysis and equilibrium-fluctuation-based single-molecule studies of cell-membrane mimics*
Session 7: Contributed Talks II Chair: **Katharina Maniura**, EMPA, CH	
11:55 - 12:10	**Mirren Charnley**, Swinburne University of Technology, AU *Exploring cell behaviour using microfabricated cell culture platforms*
12:10 - 12:25	**Erdem Karabulut**, KTH Royal Institute of Technology, SE *Adhesive layer-by-layer films of carboxymethylated cellulose nanofibril-dopamine covalent bioconjugates inspired by marine mussel threads*
12.30	Lunch & Free Time
15:30 - 16:00	Coffee break
Session 7: Contributed Talks II (continued)	
16:00 - 16:15	**Galina Dubacheva**, CIC biomaGUNE , ES *Host-guest model systems to understand multivalent interactions at the cell-hyaluronan matrix interface*
16:15 - 16:30	**Björn Agnarsson**, Chalmers University of Technology, SE *Evanescent-wave excitation for single molecule observations and kinetics on functionalized surfaces*
16:30 - 16:45	**Giorgia Brancolini**, CNR - Institute Nanoscience, IT *Molecular simulations of the pathological self-aggregation of β2-microglobulin*
16:45 - 17:00	**Thomas Boudou**, CNRS - Grenoble Institute of Technology, FR *Generation and optimization of engineered 3D skeletal muscle microtissues*
17:00 - 18:55	Poster Session II (continued)
18:55 - 20:00	***Keynote Lecture III*** – Chair: **Fredrik Höök**, Chalmers University of Technology, SE **Jacob ISRAELACHVILI**, University of California Santa Barbara, US *Breakthroughs and belly flops in understanding biomolecules and biosurface interactions*
20:00	Drinks Reception & Workshop Dinner

Friday 5 July
Breakfast & Departure

Appendix II - Questionnaire Summary

Workshop "Biological Surfaces and Interfaces", Hotel Eden Roc, Sant Feliu de Guixols, Spain, 30/06-05/07/2013

Total Number Participants	**144**	
Total Number Questionnaires Returned	**113**	**78.5** % of Participants

	Excellent	Good	Adequate	Poor	Unsatisfactory	Sum	% of Total
Question 1: Organisation of the program.							
Number of Answers	92	21	0	0	0	***113***	**78.5**
Question 2: Quality of scientific training and interaction with speakers							
Number of Answers	81	32	0	0	0	***113***	**78.5**
Question 3: Quality of lecturers & talks - was the scientific subject adequately covered and state-of-the art?							
Number of Answers	74	36	0	0	0	***110***	**76.4**
Question 4: Was there adequate discussion after presentations, or sessions or during practical work?							
Number of Answers	78	28	6	0	0	***112***	**77.8**
Question 5: Balance between training (tutorials & poster sessions) and scientific lecturers (only for courses with hands-on practical work):							
Number of Answers	48	53	6	0	0	***107***	**74.3**
Question 6: Did the course fulfill your expectations?							
Number of Answers	75	33	4	0	0	***112***	**77.8**

Question 7: Was there…	#Yes	% of Total	#No	% of Total
… sufficient information available about the course?	105	72.9	5	3.5
… any problems with transportation?	13	9.0	100	69.4
… any problems with the course language?	4	2.8	108	75.0
… enough time for informal discussions with other participants?	111	77.1	2	1.4
… enough time for discussion after poster sessions?	107	74.3	6	4.2
… opportunity for informal discussion with lecturers?	109	75.7	3	2.1
… possibility to meet others in your field?	109	75.7	3	2.1
… chance to obtain overview of the fields?	108	75.0	4	2.8
… chance to receive help with current work?	100	69.4	9	6.3

Question 9: Duration of the course	Right	Too Long	Too Short	Should Be		Sum	% of Total
Number of Answers	107	1	0	3		**111**	**77.1**

	Excellent	Good	Adequate	Poor	Unsatisfactory	Sum	% of Total
Question 10: Location and accommodation of the course:							
Number of Answers	94	18	1	0	0	**113**	**78.5**
Question 11: Quality of facilities (lecture hall, slide projection, other visual aids, audio, acustics):							
Number of Answers	42	45	20	5	1	**113**	**78.5**
Question 12: Overall evaluation of the Event:							
Number of Grades	**90**	**23**	**1**	**0**	**0**	**114**	**79.2**
Evaluation Grades in % of Total Participants	**62.5**	**16.0**	**0.7**	**0.0**	**0.0**	**79.2**	**79.2**

Total Answers to Questions by their Numbers	Excellent	Good	Adequate	Poor	Unsatisfactory	Sum
Quest 1	92	21	0	0	0	113
Quest 2	81	32	0	0	0	113
Quest 3	74	36	3	0	0	113
Quest 4	78	28	6	0	0	112
Quest 5	**48**	**53**	**6**	**3**	**0**	110
Quest 6	75	33	4	0	0	112
Quest 7	not applicable					
Quest 8	not applicable					
Quest 9	not applicable					
Quest 10	94	18	1	0	0	113
Quest 11	42	45	20	5	1	113
Quest 12	90	23	1	0	0	114
Total	*674*	*289*	*41*	*8*	*1*	

EUROPEAN SCIENCE FOUNDATION

ESF Research Conference on

Biological Surfaces and Interfaces (2013-427)

Sant Feliu de Guixols, Spain, 30 June - 5 July 2013

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