

## IN BOLOGNA, UNDERNEATH THE ARCADES OF KNOWLEDGE

Not long after the first millennium, and within the context of a close-knit community whose vitality is evident even today, Bologna brought forth a remarkably active cultural, scientific and artistic output. The physical layout of the town, with its many many arcades, was unparalleled and gave rise to an unstoppable source of vigour and growth. It was here that a unique climate was able to flourish, one in which the pursuit of learning, the exchange of knowledge and opinions, and innovation developed and put its stamp on the town's second millennium.

The birth of a modern medical school put the science of medicine, following as it did on the town's pursuit of law and notaryship studies, at the very centre of what we can call a 'spatial' platform. Shot through with history though it is, this platform nevertheless does lend itself to currentness and eagerly invites innovation. It can and does indeed acknowledge both the joint work of brilliant minds of the past and the intimate urban environment that connected their work, defined by the pulsing arteries of the town's arcades.

The lively medieval city centre of Bologna will provide the backdrop, the urban context, for the first **Festival della Scienza Medica** (Festival of Medical Science), from 7 to 10 May, with a concluding follow-up day on 26 May.

Our aim has been to conceive and set up not only a series of events but also to map them out along a well thought out cultural route which will be physically scattered about the town centre. This way, the charted paths and stops should make for a better and more interesting understanding of the city's artistic, cultural and scientific clout and of the undisputed influence it wielded both at home and abroad.

The series of events are of merit in and of themselves but our main purpose was to set up a unifying timeframe, one that can express an original way to bolster people's appreciation for the culture of Bologna just as much as for Bologna itself. We did not wish to furnish a quaint 'antiquey' approach to the town but, rather, looked to retrieving a wide-spectrum field of knowledge in which history has played a star role – specifically the history of medicine and the current significance of state-of-the-art medicine.

Many are the institutions that can be called upon to build on this idea, starting from the universities and academies and colleges all the way to civic and non-civic museums, the Carisbo Foundation, the Genus Bononiae Foundation, and the town hall itself -- but called upon they should be in order to consolidate this idea and develop it both within the town and beyond it. Drawing upon various historical events and facts-and-figures that are tied to the town's cultural, scientific and artistic make-up (some better known than others) would be a good way to boost interest in the tourist sector, a good way to attract a high-level tourist experience that, over and beyond the classic Rome-Florence-Venice tour, might now aim for Bologna as a prime destination offering an unexpected variety and richness of experiences.

By connecting the historical buildings and sites in a charted network that is reflective of their particular function (scientific and museum), we are looking to create a cultural climate that can

work on an annual basis, one that can express a particular and diverse annual 'Bologna Season' under its arcades.

We are thus looking to working on the town itself, working on its sites and locations: a palazzo here, a hall there, Bologna's historical buildings and, naturally, its arcades. The arcades in particular are to be understood not just as places for pleasurable promenading or for use to get from one place to another but as 'spaces' that invite the forging of relationships, the exchange of facial expressions and conversation, meeting points, and halls of learning. All of this invites a peculiar kind of narration of the many stories that go into the making of history – in our case, the stories and perspectives of medical science.

There can be no culture in the absence of remembrance and culture is, moreover, about the sense of the passing of time. The same goes for medical science, it needs the presence and a firm grasp of history if it is to achieve a deeper understanding and go forward. It is by understanding its own history that this body of knowledge can develop the kind of awareness which cannot be delegated, nor should it be entrusted, to the otherwise necessary input of digital instruments.

The wide variety and availability of venues, each one selected according to its suitability for any given performance, lecture or other specific requirement, has been a great boon. It is indeed fitting that the town's settings, the town's 'urban script' as it were, are to serve as the backcloth for all the lectures, the telling of true stories, the performances, and medical research presentations.

Bologna can take centre stage as the natural setting for the discussion of the future of medical science, by recalling what occurred there from the XIV century onwards and how it was tightly connected to the development of its society, of the métiers and crafts as well as its industry.

And then we can get to talking about today and the scenario of a longer life, a long life that could only be wished upon until our recent past and which is now almost 'demanded' by society. A society that might be at odds with having to keep up with the fast pace of cutting-edge scientific discoveries in medicine on the one hand, and, on the other, may risk losing sight of principles and contexts that are fundamental for the progress of humanity.

***Fabio Roversi Monaco***

*President, Genus Bononiae*

## A LONG LIFE

**Bologna Medicina - il Festival della Scienza Medica** is the result of opportunity meeting demand, actually many demands – not the least of which were location and subject matter.

It was undoubtedly apt, for starters, that a discourse on the subject of medicine, one that looked to public involvement and debate on the subject, be located at the seat of the very first modern medical school. Ambling through Bologna's medieval neighbourhood is all about promenading along the porticoes and arcades of this beautiful town, and taking in the fact that so very many of the buildings one walks past make reference to, or are named after, all matters medicinal, tracing as it were the evolution of medical knowledge. And so we have the inner courtyard of the Archiginnasio building, for instance, and the conference hall of the Società Medica Chirurgica that it houses, then there is the Sant'Orsola Hospital, the grim sounding Portico della Morte (the arcade of death), and the former Anatomy Wax Museum (now the Anatomy and Pathological Histology Museum). The list goes on, for the urban foundations of the town are steeped in the study of medicine.

The second requirement, the choice of subject matter, came about after various considerations. The issue of social security having maybe, or at least hopefully, run its course in public debate, it was thought that the next pressing question to affect us all would include queries on: how is society to deal with the growing demand for well-being, health and cures, both at present and in the foreseeable future, when the age of its elderly population continues to rise? What kind of answers can be put forward by economics, by politics and finance, and by the day-to-day running of health institutions? What is the cost of providing access to new therapies and treatments?

As a result, the theme of this first series of events bears the title "A Long Life". And all that that entails: a sense of achievement, the breadth and wealth of opportunity, yes, but also the taking on of a heavy social responsibility.

In putting together this programme, we made a point of covering the many demands, challenges and the future developments of cutting-edge scientific research. These include: regenerative medicine, the dream of achieving immunity from and control over cancer, pain-control medicine and placebos, organ transplants, new imaging technology, long distance communication and telemedicine. The list continues with: the new frontiers of biotechnology, artificial insemination, nutraceuticals, and the very recent geroscience. Even a brief look at our calendar of events will reveal the calibre of the speakers and researchers who accepted our invitation to participate, including four Nobel-prize winners for medicine, and this can only augur well and make for an excellent start.

"A Long Life" as a theme furthermore acts as a portmanteau for the exploration of more consolidated perspectives such as: custom-tailored medicine, medicine-based narrative, pointers

arising from fantasy novels, the concerns of legal medicine, anthropology, the evolutionary perspective on ageing, and the ethics of handling brain death (*Finis vitae*). It is a theme that is well equipped to tackle current controversial issues, such as vaccination, or to come forward with new perspectives in the field of gender medicine: when it comes to depression and osteoporosis, for instance, how are men and women differently influenced?

Another important demand we wanted to satisfy was to look at medicine through the role it has played in religious beliefs, history, epistemology, legal systems, literature, plays and films ... culture, in other words. Hence a look at the plague contemplated by Boccaccio, on top of the more ancient ones, Ebola, the birth of syphilis, Spanish flu, the evolutionary heuristic transition from belief in demons to belief in genes; the meeting of, and reciprocal influencing between, epistemological research and clinical investigation, and the conflict between hospital and court in defensive medicine. And, also, the overview comparing and contrasting medical systems in major religions.

It was important to include attractions for the younger generations too. Primary-school aged children will be taken for a guided visit to the Theatre of Anatomy with age appropriate lessons on human anatomy. Older pupils will get to play a history themed game at school called 'Pandemic', a board game akin to Risk or Monopoly, which was specifically thought out so as to provide an exciting learning experience. And the senior pupils will get a chance to attend a staged hospital visit at the Palazzo Re Enzo, as they follow the Head Physician's traditional ward inspection with actors playing the part of patients in real hospital beds, enacting old and new sicknesses. All of the above is certain to deliver an exciting bio-medical dictionary of key themes.

Palazzo Re Enzo will also be home to a 'Social Box' which is there to invite anyone who cares to contribute linguistic inventions and co-create with us a playful shared context in search of new made-up 'illnesses' – a game that is hoped to be picked up on by social networks.

There will be three exhibitions: a selection from 'The Burns Archive', which was consulted during the making of the American TV series 'The Knick', in the Archiginnasio courtyard; 'Curare e Guarire' (Curing and Healing) in the Sala degli Atti of Palazzo Re Enzo; and the Wax Museum and new Settoria Hall at the Institute of Anatomy. During the Festival you will also be able to visit the Palazzo Poggi museum and the halls of Santa Maria della Vita and San Colombano, all open for the occasion.

It was fitting that real patients also be catered to in the programme and **Bologna Medicina** will be present and active within the waiting rooms of the Ospedale Maggiore, the Sant'Orsola, the Rizzoli, the Bellaria, and the Seragnoli Hospice. Various chamber concerts will be held and readings from Italian literature will be staged for the audiences of long-term patients, children, their families and the care-giving personnel.

The public will also be offered live shows in the evenings centred around the literature of well known doctor-writers such as Čechov, Cronin, Bulgakov, Céline, and Sacks. Italian actor Massimo Popolizio will recite selected texts. The role of doctors in literature and drama will be documented and Bologna's Cineteca will showcase a video mashup drawn from great movies on the subject.

A concluding 'book-ending day' will be held on 26 May to weigh up the results and the public will be welcome to attend a debate around the theme 'How to Multiply the Code of Life' with key speaker and 1993 Nobel-Prize winner for Chemistry Kary Mullis.

This event-rich programme seeks not only to actively involve the town by inviting the public to attend the many attractions but to do so using the town itself -- its arcades, the hospitals, its institutions - as a non-negotiable backdrop and meeting ground with which to spark off interest, conversation and debate.

See you in Bologna, then, to discuss our health and our future.

***Gilberto Corbellini and Pino Donghi***

# May 7

## **9.30 - TEATRO ANATOMICO DELL'ARCHIGINNASIO**

Visit with animation at the anatomical Theatre for primary schools

## **9.30 - SALA DI RE ENZO**

A.D. 1300: Boccaccio's Plague

**Gilberto Corbellini**

After the lecture we will play PANDEMIC, with **Christian Zoli**

## **SALA DEL QUADRANTE**

## **11.30 - BIBLIOTECA D'ARTE E DI STORIA DI SAN GIORGIO**

### **IN POGGIALE**

The spells of medicine: From Harry Potter's bezoar to homeopathy's preparations

**Marco Ciardi**

## **12.00 - SALA DELLA CULTURA**

The Messiah's diet: Judaism and medicine

**Saverio Campanini**

Introduced by: **Antonio Guerri**

## **16.00 - SALONE DEL PODESTÀ**

Inauguration with the authorities

## **17.00 - SALONE DEL PODESTÀ**

Luigi Galvani Lecture: Living a long life. The traveller with two baggages

**Luc Montagnier**

## **18.30 - SALA DI RE ENZO**

Nutraceutical: the colourful path to health

**Giorgio Cantelli Forti**

**Silvana Hrelia**

# May 8

## **9.30 - TEATRO ANATOMICO DELL'ARCHIGINNASIO**

Visit with animation at the anatomical Theatre for primary schools

## **9.30 - SALA DI RE ENZO**

A.D. 1500: Syphilis or of the French Flu

**Maria Conforti**

After the lecture we will play PANDEMIC, with **Christian Zoli**

## **SALA DEL QUADRANTE**

## **10.30 - AULA DELLO STABAT MATER**

Defensive Medicine: wards and courts

**Susi Pelotti**

**Amedeo Santosuosso**

**Filippo Sgubbi**

**Luigi Stortoni**

## **10.30 - SALA DELLA CULTURA**

Innovation in teleassistance and for the efficiency of pharmaceutical companies

**Luciana Bevilacqua**

**Graziano Leuzzi**

**Juri Monducci**

**sponsored by CISCO**

## **11.00 - SALA DEGLI ATTI**

Gynaecological and obstetrician Clinic. Uterine Haemorrhages in women during pregnancy and fertile period

**Simulated hospital rounds with:**

**Nicola Rizzo**

**Renato Seracchioli**

**Staged by Giulia Frezza**

## **11.30 - AULA ABSIDALE DI SANTA LUCIA**

Before CSI. Birth and development of Forensic Medicine

**Carlo Lucarelli**

**Susi Pelotti**

### **11.30 - SALA DI RE ENZO**

The size of the public health services and the patient's needs: which means for which situations?

**Simona Dei**

**Walter Locatelli**

**Emanuele Vendramini**

**Francesco Zavattaro**

**Coordinated by: Francesco Ripa di Meana**

### **11.30 - AULA DELLE CONFERENZE SOCIETÀ MEDICA CHIRURGICA DI BOLOGNA**

Biotechnological innovations for a better and longer life

**Diego Ardigó**

**Eugenio Aringhieri**

**Coordinated by: Andrea Grignolio**

**Sponsored by Farmindustria**

### **12.00 - AULA DELLO STABAT MATER**

From mantra to the knife. Ancient medicine and oriental religions

**Antonio Panaino**

**Introduction by: Antonio Guerci**

### **12.30 - SALA DELLA CULTURA**

Clinical experimentations

**Achille Patrizio Caputi**

### **15.00 - AULA DELLO STABAT MATER**

Unite to grow. Health in the global world

**Stefano Golinelli**

**Gaetano Micciché**

**Franco Moscetti**

**Carlo Rosa**

**Massimo Scaccabarozzi**

**Raffaele Stefanelli**

**Coordinated by: Dario Di Vico**

**Sponsored by Intesa Sanpaolo**

### **15.00 - AULA GIORGIO PRODI**

Gender Medicine

**Flavia Franconi**

**15.30 - AULA ABSIDALE DI SANTA LUCIA**

*Finis vitae* and living will

**Lorenzo d'Avack**

**John Harris**

**16.00 - SALA DELLA CULTURA**

Surgery in the 21<sup>st</sup> century between demolition and reconstruction

**Sandro Giannini**

**16.30 - AULA GIORGIO PRODI**

Who is old today? The new geroscience and the prospect of slowing down ageing

**Claudio Franceschi**

**17.00 - AULA DELLO STABAT MATER**

From the Plague to Ebola. Epidemics: history, faith and culture

**Giuseppe Battelli**

**Pierluigi Viale**

**17.30 - AULA DELLE CONFERENZE SOCIETÀ MEDICA  
CHIRURGICA DI BOLOGNA**

The story about enterprise and research

**Antonio Gasbarrini**

**coordinated: Marco Sensini**

**sponsored by Alfa Wassermann**

**18.00 - AULA GIORGIO PRODI**

Culture and the body. Medicine and interculture: the challenge is achievable

**Ivo Quaranta**

**18.00 - AULA ABSIDALE DI SANTA LUCIA**

The Making of "The Knick". Meet the Burns Archive

**Elizabeth Burns**

**Stanley Burns**

**18.00 - COMPLESSO D'ARTE E DI STORIA DI SAN GIORGIO  
IN POGGIALE**

Treating complexity

Presentation of the book "La fine dell'Onniscienza" (The end of omniscience), by Mauro Ceruti, with an intervention by Marco Trabucchi

**18.30 - SALA DI RE ENZO**

The Brain, The Heart and Cancer: using nutrition as cure

**Claudio Borghi**

**Patrizia Hrelia**

**Giovanni Scapagnini**

**19.00 - AULA MAGNA DI SANTA LUCIA**

Francesco Rizzoli Lecture: Today we are able to control genes. Which are the opportunities, the new challenges, and the ethical point of view

**Andrew Z. Fire**

**Introduction by: Lucio Cocco**

**19.00 - COMPLESSO D'ARTE E DI STORIA DI SAN GIORGIO**

**IN POGGIALE**

The truth of medical science. Presentation of the book "Medicina e rivoluzione. La rivoluzione francese della medicina e il nostro tempo". (Medicine and revolution. The French revolution of medicine and modern times), by Giorgio Cosmacini

**19.30 - SALA DI RE ENZO**

Doctor and patient: the fundamental relationship

**Gilberto Corbellini**

**Giancarlo Pizza**

**21.00 - CHIESA DI SANTA CRISTINA**

The wife and the mistress: science and humanism of the doctor-writer

**by Sandro Modeo**

**reading recited by Massimo Popolizio**

# May 9

## **9.30 - SALA DI RE ENZO**

A.D. 1900: Greater than the Great War... the Spanish flu  
**Mauro Capocci**

After the lecture we will play **PANDEMIC**, with **Christian Zoli**

## **SALA DEL QUADRANTE**

## **10.30 - AULA DELLO STABAT MATER**

Demons and Genes: the evolution of how we perceive illness  
**Gilberto Corbellini**

## **11.00 - SALA DEGLI ATTI**

The Clinic. Jaundice

**Simulated hospital rounds with:**

**Luigi Bolondi**

**Staged by Giulia Frezza**

## **11.00 - SALA DELLA CULTURA**

Serious organ deficiencies and transplants

**Franco Citterio**

**Sergio Stefoni**

## **11.00 - ISTITUTI ANATOMICI**

1315-2015 – Mondino de Luizzi's lecture: the conflict between body and book, tradition and experience (strolling through the museum and the Sala Settoria di Anatomia)

**With Bologna's Anatomists**

## **11.30 - BIBLIOTECA D'ARTE E DI STORIA DI SAN GIORGIO IN POGGIALE**

Appearances that don't deceive: ageing and new imaging technologies

**Rita Golfieri**

**Maurizio Zompatori**

**11.30 - SALONE DEL PODESTÀ**

Vaccinations today, from individual to collective health needs

**Rino Rappuoli**

**Maria Grazia Pascucci**

**Coordinated by: Anna Meldolesi**

**12.00 - AULA DELLO STABAT MATER**

Balm of the prophet. Medicine and Islam

**Francesca Romana Romani**

**Introduction by: Antonio Guerci**

**12.30 – AULA GIORGIO PRODI**

The Placebo

**Fabrizio Benedetti**

**15.30 - AULA ABSIDALE DI SANTA LUCIA**

Homo senex: ageing anthropology

**Marco Trabucchi**

**Stanley Ulijaszek**

**16.00 - SALONE DEL PODESTÀ**

Government spending

**Emilia Grazia De Biasi**

**Massimo Scaccabarozzi**

**Sergio Venturi**

**16.00 - AULA GIORGIO PRODI**

Depression

**Claudio Mencacci**

**16.30 - SALA DELLA CULTURA**

Medicine and reproduction

**Eleonora Porcu**

**16.30 - AULA DELLO STABAT MATER**

Elementary Watson! Methods of medical investigation

**Claudio Rapezzi**

**17.00 - CHIESA DI SANTA CRISTINA**

The clinic, a window of the world

**Andrea Vitali**

### **17.30 - AULA ABSIDALE DI SANTA LUCIA**

The annoyance of allergies: why did nature do this to us? A talk on the history, biology, confusions of homeopathy, and the science behind new treatments

**Donald MacGlashan Jr.**

**Introduction by: Michael G. Plummer**

In collaboration with **Johns Hopkins University**

### **18.00 - AULA GIORGIO PRODI**

Making the drug: birth (of the drug) and longevity

**Maurizio Castorina**

**Luca Pani**

**Carlo Patrono**

### **18.00 - AULA DELLO STABAT MATER**

Food of the future

**Dario Bressanini**

**Roberto Defez**

**Roberto Tuberosa**

**Coordinated by: Anna Meldolesi**

### **18.30 - SALONE DEL PODESTÀ**

Not just insomnia: sleep, drowsiness and lifespan

**Yves Dauvilliers**

**Maurice Ohayon**

**Introduction by: Giuseppe Plazzi**

### **19.00 - AULA MAGNA DI SANTA LUCIA**

Augusto Murri lecture. Telling the story of a Nobel prize discovery. Ion Channels: Their Discovery, their Function, and their Role in Diseases

**Erwin Neher**

**Introduction by: Piergiorgio Strata**

### **19.00 - BIBLIOTECA D'ARTE E DI STORIA DI SAN GIORGIO IN POGGIALE**

Biology and Biography

**Presentation of "Le trame della cura. Le narrazioni dei pazienti e l'esperienza di un medico per ripensare salute e malattia", by Alfredo Zuppiroli, Maria Margherita**

**Bulgarini Editore**

**With: Gilberto Corbellini, Giuseppe Di Pasquale,  
Alfredo Zuppiroli**

**19.30 - AULA ABSIDALE DI SANTA LUCIA**

Cerebral ageing and cognitive decline

**Fiorenzo Conti**

**Lamberto Maffei**

**21.00 - CHIESA DI SANTA CRISTINA**

«Io sgombero, io spazzo gli ospedali!»

Doctors in opera

**By: Piero Mioli**

# May 10

## **10.30 - AULA DELLO STABAT MATER**

Regenerating the brain, from fantasy to reality

**Elena Cattaneo**

**Gianvito Martino**

## **10.30 - AULA DELLE CONFERENZE SOCIETÀ MEDICA**

### **CHIRURGICA DI BOLOGNA**

Helicobacter pylori: the great history of the small bacterium

**Franco Bazzoli**

**Peter Malfertheiner**

## **11.00 - SALA DEGLI ATTI**

Orthopaedic clinic. The orthopaedic and sports, the health and fitness doctor

**Simulated hospital rounds with:**

**Maurilio Marcacci**

**Staged by Giulia Frezza**

## **11.00 - AULA GIORGIO PRODI**

Personalised Medicine in oncology: dream or reality?

**Stefano Aldo Pileri**

**Sponsored by AIRC**

## **11.30 - AULA ABSIDALE DI SANTA LUCIA**

Stem cells, science and pseudoscience

**Michele Bacarani**

**Michele De Luca**

## **11.30 - BIBLIOTECA D'ARTE E DI STORIA DI SAN GIORGIO**

### **IN POGGIALE**

Crazy stuff...

**Giovanni De Girolamo**

**Valentina Mantua**

## **12.00 - AULA DELLO STABAT MATER**

Christ the healer: his role in the history of churches

**Alberto Melloni**

**Introduction by: Antonio Guerci**

**12.30 - AULA GIORGIO PRODI**

The awareness of physical pain

**Arnaldo Benini**

**15.00 - SALONE DEL PODESTÀ**

Immunity and cancer: a dream that comes true

**Alberto Mantovani**

Sponsored by AIRC

**15.00 - AULA ABSIDALE DI SANTA LUCIA**

*Homo senescens*: evolution, development and ageing

**Mark Hanson**

**15.30 - AULA GIORGIO PRODI**

Osteoporosis

**Maria Luisa Brandi**

**16.30 - AULA ABSIDALE DI SANTA LUCIA**

The price of longevity: Medicine, research and politics

**Elena Cattaneo**

**Walter Ricciardi**

**18.00 - AULA ABSIDALE DI SANTA LUCIA**

Cinema sickness

**Blob organized by Gian Luca Farinelli, in collaboration with**

**Cineteca di Bologna**

## May 26

**10.30 – AULA MAGNA DI SANTA LUCIA**

In conclusion...How can we multiply the life code?

**Sergio Dompé**

**Michele Morgante**

**Kary Mullis**