LIFE’S STAGES

There is a widespread debate today about the short term perspective “personalized medicine”, or in other words “precision medicine”: but how many “people” are we, or how much do we change during our life course? How many different “ages” do we live, from the stage of a fertilized egg up to the old age, more or less senescent?

The first edition of Bologna Medicina, the Festival della Scienza Medica focused the scientific and clinical attention on the “long life” condition. All the evidence shows that – at least in the wealthier and more advanced societies – human life expectation reaches out towards a hundred years. The second edition, which will take place from 19th to 22nd of May 2016, shall consequently focus on the different stages of this exciting and always less precarious adventure.

Prenatal, neonatal, infancy, childhood, juvenile, puberty, adolescence, adult life, old age and senescence. Human biologists who study the transitional physiological changes of our body-mind complex count at least ten different stages, each one with specific features. Although we take for granted that we are always the same person from the cradle to the grave, what is evident is that each one of us lives as many lives a number of physiological stages, and that we encounter different potential pathologies according the specific life stage we are in. This
means that medicine has to use new ideas and creative strategies to pursue scientific and technological advancements and to explain, prevent and cure diseases in an effective and functional way.

Nothing makes sense in Biology [so neither in Medicine] except in the light of evolution – said the evolutionary geneticist Theodosius Dobzhansky. The human species phylogeny has been lasting millions of years, and as for other higher organisms, natural selection favored our investments and adjustment abilities rather than only the reproductive ones: it is because of the natural selection process that we acquired a species specific Life Cycle. This means that the resources for growing, for staying alive and for reproducing, related to age or size, are distributed so that they can maximize the potential to adapt during the individual life stages. The evolution of the Human Life Cycle, in particular of specific pre-adult characteristic of this cycle (all the many and long stages preluding adult life, from the prenatal one to adolescence) allowed for the acquisition of the mental capacities needed and sufficient for evolution and for the diffusion of “higher” human traits. It is because we live many lives that our life was so efficient in the colonization of the world.

Understanding the evolutionary meaning of the Ages of Life means to better qualify the aim of personalizing medicine, by making it more precise.

Nonetheless, the Festival della Scienza Medica can only look far ahead. In Bologna, medicine has a great future.

*Gilberto Corbellini and Pino Donghi*
May 19th

08.45/10.00 - TEATRO ANATOMICO DELL’ARCHIGINNASIO
Animated visit at the Anatomical Theatre, suitable for primary schools

9.00 – PODESTÁ HALL
Drugs and quality of life: synergy between University and pharmaceutical company
Staged by: Farmindustria, Società Italiana Farmacologia, Società Italiana Tossicologia
Speaker/discussant: Sabrina Angelini, Claudio Borghi, Nadia Canova, Giorgio Cantelli Forti, Eugenio Cusimano, Fabrizio de Ponti, Enrica Giorgetti, Patrizia Hrelia, Antonietta Pazardjiklian, Maurizio Recanatini, Lucio Rovati, Marco Scatigna

9.45/11.30 – S. MARIA DELLA VITA CHURCH
Between life and death: guided tour with stage drama thorough the famous “Portico della Vita” and “Portico della Morte”

10.00 - RE ENZO HALL
Smallpox eradication and other vaccines
Andrea Grignolio
After the lecture: Introduction to the clinical trials, in collaboration with: Città della Scienza di Napoli

10.30 – STABAT MATER
Why doctors have to tell all the truth even to children
Giuseppe Remuzzi

11.00 – ATTI HALL
Paediatric Clinic
Simulated hospital rounds with:
Giacomo Faldella
Andrea Pession
11.30 – SOCIETÁ MEDICA CHIRURGICA HALL
From nutrition to endoscopy. The prevention of digestive system tumors in the stages of life
Franco Bazzoli
Luigi Ricciardiello
Rocco Maurizio Zagari
Sponsored by AIRC

12.00 - STABAT MATER 🎧
Middle age: adult nutrition
Arrigo Francesco Giuseppe Cicero
Wei Wei

15.30 – STABAT MATER
Choosing Leadership in Medicine
Sponsored by ANMDO (Associazione Nazionale Medici Direzioni Ospedaliere)
Coordinated by: Gianfranco Morrone, Giovanni Pieroni
Introduction by: Giovanni De Plato
Speakers: Mattia Altini, Carlo Favaretti, Chiara Gibertoni, Domenico Mantoan, Gabriele Pelissero, Roberta Siliquini

18.00 – PODESTÀ HALL 🎧
Inauguration with authorities

19.00 - PODESTÀ HALL 🎧
The Age of Insight: The Quest to Understand the Unconscious in Art, Mind, and Brain
Eric Kandel
Coordinated by: Fabio Alberto Roversi Monaco
May 20th

08.45/10.00 – ANATOMICAL THEATRE OF THE ARCHIGINNASIO
Visit with animation at the Anatomical Theatre, suitable for primary schools

9.30 - SOCIETÁ MEDICA CHIRURGICA HALL
Choosing wisely: avoiding bad practices
Sponsored by ANMDO (Associazione Nazionale Medici Direzioni Ospedaliere)
Coordinated by: Ottavio Nicastro, Sandra Vernero
Speakers: Piero De Carolis, Eugenio Del Toma, Maria Teresa Montella, Ida Iolanda Mura, Fausto Nicolini, Marino Nonis

9.45/11.30 – S. MARIA DELLA VITA CHURCH
Between life and death: guided tour with stage drama thorough the famous “Portico della Vita” and “Portico della Morte”

10.00 – RE ENZO ALL
From the weeping willow to the aspirin. The evolution of anti-inflammatories
Vittorio Alessandro Sironi
After the lecture: Introduction to clinical trials, in collaboration with: Città della Scienza di Napoli

10.00 – S. MARIA DELLA VITA CHURCH
Vaccines: an investment for the population’s health and the sustainability of the National Healthcare System.
Nicoletta Luppi

10.30 ORATORIO DI S. FILIPPO NERI
Short term memory: why we still need vaccines
Alberto Mantovani
Gualtiero Walter Ricciardi
sponsored by AIRC
10.30 - AULA ABSIDALE OF S. LUCIA
The Titanic metaphor. Transplants, waiting lists and selection criteria
Alessandro Nanni Costa
Antonio Pinna

11.00 – ATTI HALL
Urology Clinic
Simulated hospital rounds with:
Giuseppe Martorana

11.00 – STABAT MATER
China is getting nearer and nearear. Medicine, research and business models
Sponsored by: Intesa Sanpaolo

11.30 – AUDITORIUM ENZO BIAGI
Fragile age: children and elderly nutrition
Silvana Hrelia
Giovanni Zuliani

12.00 – PODESTÁ HALL
Nobel lecture
The Personalized Medicine Revolution: are we going to cure all diseases and at what price?
Aaron Ciechanover
Coordinated by: Piergiorgio Strata

12.30 – S. MARIA DELLA VITA CHURCH
The future of biotechnologies: innovation opportunities and sustainable growth
Antonio Tosco

15.00 – S. MARIA DELLA VITA CHURCH
Doctor Darwin
Pietro Corsi
15.00 – ORATORIO DI S. FILIPPO NERI
From one pill to another...how Italian people’s sex habits have changed in the last 60 years
Giuseppe Martorana

16.00 – STABAT MATER
The ages of fertility
Eleonora Porcu

16.30 – ORATORIO DI S. FILIPPO NERI
De senectute
Giangiacomo Schiavi
Carlo Vergani

16.30 – AUDITORIUM ENZO BIAGI
Face, surgery and 3D technologies. Maxillo-facial achievements and frontiers
Alberto Bianchi
Claudio Marchetti

17.00 – S. MARIA DELLA VITA CHURCH
The relationship among health, healthcare and politics in Republican Italy: from the first centre-left wing party until today
Roberto Balzani

17.30 – ATTI HALL
A patient’s history in today’s medicine
Staged by: Elena Vegni, in collaboration with Ivan Fossati, Antonella Gullotta, Giulia Lamiani

17.30 – STABAT MATER
Age of onset of mental disorders: towards new cognitive and helpful frontiers
Mariano Bassi
Giovanni De Girolamo
18.00 – RE ENZO HALL
Oocyte development
Renato Seracchioli

18.00 – AULA ABSIDALE OF S. LUCIA
The sound of silence. Genius and suffering in Ludwig van Beethoven.
Maurizio Giani
Antonio Pirodda
Fabio Regazzi

18.00 – ACCADEMIA DELLE BELLE ARTI OF BOLOGNA
Inauguration of the exhibition “Le regole del corpo. Norma e arbitrio”
Sponsored by: Accademia delle Belle Arti of Bologna
Staged by Piero Deggiovanni, Valeria Roncuzzi, Camilla Roversi Monaco

19.00 – CHIESA DI SAN COLOMBANO
Mozart: machine, time, death
Luigi Gerli
Giuliano Lancioni
Liuwe Tamminga

19.00 – PODESTÁ HALL 🎧
Nobel lecture
Discovering the genes responsible for immunity: genetics and health
Bruce Beutler
Introduction by: Lucio Ildebrando Maria Cocco

20.00 – PALAZZO FAVA – PALAZZO DELLE ESPOSIZIONI
FR 17.3 Nel Segno di Gianluca Cingolani
sponsored by Dugong Produzioni
May 21st

**9.00 – AULA OLIVO**
Presentation of a National Research Web for the identification of myelodysplastic syndrome markers
Carlo Maria Croce

**9.45/11.30 – S. MARIA DELLA VITA CHURCH**
Between life and death: guided visit with stage drama thorough the famous “Portico della Vita” and “Portico della Morte”

**10.00 – STABAT MATER 🎧**
From quinine to artemisinin: a history of antimalarial treatments (China)
Marco Corsi
Zhu Xiaoxin

**10.00 – RE ENZO HALL**
The emergencies for the future come from the past: from tuberculosis to super–bacteria
Marina Tadolini
Pierluigi Viale

**10.30 – ORATORIO DI SAN FILIPPO NERI**
Sleep, health and well-being
Francesca Milano
Giuseppe Plazzi
Claudio Vicini
10.30 – AUDITORIUM ENZO BIAGI
New technologies and the self: medulla lesion and independent life
Introduction by: Augusto Cavina, Marco Gasparri
Coordinated by: Filippo Preziosi
Speakers: Nicola Gencarelli, Luca Enei, Domenico Nocera, Roberta Vannini, Pasquale Fedele
With the witness of: William Boselli
Sponsored by: Montecatone Rehabilitation Institute, Fondazione Montecatone Onlus, Ass. AUS Montecatone, Fondazione Asphi Onlus, Ass. WTKG (Willy The King Group), FabLab Imola, Cooperativa Casa Guglielmi, Ass. Paraplegici Regionale Emilia Romagna

11.00 – ATTI HALL
Cardiology Clinic
Simulated hospital rounds with:
Claudio Rapezzi

11.00 – AULA ABSIDALE OF S. LUCIA
Qi – The live blow. Discovering traditional Chinese Medicine
Staged by: Marcella Brizzi, Marina Timoteo
Speakers: Fu Baotian, Renato Crepaldi, Umberto Mazzanti, Clara Melloni, Emilio Minelli, Wang Wenming

11.30 – ORATORIO DI S. FILIPPO NERI
The brain of the elderly
Fiorenzo Conti
Cesare Cornoldi

11.30 – S. MARIA DELLA VITA CHURCH
From medical genetics to genetic medicine. The issue of hereditary diseases in the history of medical thought
Gilberto Corbellini

12.00 – AUDITORIUM ENZO BIAGI
Counterfeiting health
Giorgio Cantelli Forti
15.00 – RE ENZO HALL
Doping ages
Francesco Botrè

15.00 – PORTICO DELLA MORTE
Working on Qi and the art of cultivating life: experiences with qigong practices, taijiquan and baguazhang under the “Portico della Morte”
Renato Crepaldi
Giovanni Gatti
Clara Melloni

15.30 – SOCIETÁ MEDICA CHIRURGICA HALL
What can we learn from the study of rare diseases?
Andrea Bartuli

16.00 – S. MARIA DELLA VITA CHURCH
Genomic medicine and health care
Giuseppe Novelli

16.00 - TEATRO ANATOMICO DELL’ARCHIGINNASIO
Visit with animation at the anatomical Theatre, suitable for families

16.30 – AULA ABSIDALE OF S. LUCIA
Why centenarians are centenarians?
Claudio Franceschi

16.30 – RE ENZO HALL
The drugs’ cost
Luca Pani
17.00 – ORATORIO DI S. FILIPPO NERI
Crime has no age. Medical science and the investigation process
Susi Pelotti
Claudio Rapezzi

17.00 – STABAT MATER
Regenerative Medicine
Michele De Luca

17.30 – ATTI HALL
Clinical eye, that is the science of the individual
Luigi Bolondi

17.30 – AULA DELLE CONFERENZE SOCIETÁ MEDICA CHIRURGICA DI BOLOGNA
Innovation and Sustainability
Massimo Scaccabarozzi

18.00 – AULA ABSIDALE OF S. LUCIA
Causes and consequences of microRNA dysregulation in cancer
Carlo Maria Croce

18.00 – S. MARIA DELLA VITA CHURCH
The ages of skin
Alberto Giannetti

18.30 – RE ENZO HALL
Ted talk staged by the students of the Faculty of Medicine of Bologna

19.00 – POBESTÁ HALL
Nobel lecture
Switches and latches: control and growth of normal and pathological cells
Tim Hunt
Introduction by: Lucio Ildebrando Maria Cocco
19.00 – ACCADEMIA DELLE BELLE ARTI OF BOLOGNA
ANATO-MIA: stage drama by Sissi
Staged by: Accademia delle Belle Arti of Bologna

21.00 – TEATRO DUSE
Dr. Raniero’s phenomenology:
a dialogue with Carlo Verdone
May 22nd

**10.00 – RE ENZO ALL**
Penicillins and other antibiotics
Mauro Capocci

**10.00 – ORATORIO DI S. FILIPPO NERI**
Back pain. Why we suffer from it and it is so difficult to eradicate.
Arnaldo Benini

**10.30 – STABAT MATER**
The diseases of information
Alison Abbott

**10.30 – SOCIETÁ MEDICA CHIRURGICA HALL**
Early human life: the world of perinatal medicine
Gianpaolo Donzelli

**10.30 - TEATRO ANATOMICO DELL’ARCHIGINNASIO**
Visit with animation at the Anatomical Theatre, for families

**11.00 – PODESTÁ HALL**
The fetus: can it predict its own future?
Peter Gluckman

**11.30 – ORATORIO DI S. FILIPPO NERI**
Precision Cancer Medicine: Lessons from B Cell Lymphoma
Riccardo Dalla Favera

**12.30 – PODESTÁ ALL**
The future of Italian biomedical research
Elena Cattaneo
With an intervention by the Aifa President, Mario Melazzini, in videoconference
*The program may suffer some minor variations. Please check our website www.bolognamedicina.it