CONFERENCE SCHEDULE

1 DAY: 5th March

Registration + Light Refreshments	09.00 - 09.30
Opening words	09.30 - 09.45
Session 1: The Emergence of Gerophysics: Integrating Physical Laws into Aging Science	09.45 - 11.00



Prof. Uri Alon Using physics-style math models to dissect core drivers of aging



Prof. Marija Cvijovic The Ageing Game: Why Gilgamesh Should Have Studied Physics and Math



Dr. Yifan Yang Compression of morbidity by interventions that steepen the survival curve

Coffee Break + Group Picture + Exhibition viewing

11.00 - 11.30

Session 2: Fundamental Principles: Physics-Derived Models for Understanding Aging

11.30 - 13.00



Dr. Peter Fedichev Beyond Hallmarks: A Thermodynamic Framework for Radical Lifespan Extension



Dr. Michael Rera Ageing as a two-phase process. Reinterpreting hallmarks of ageing and its evolution.



Mr. Ben Shenhar Heritability of human lifespan in the light of the saturated removal model of aging



Prof. Vadim Gladyshev Insights into aging, longevity and rejuvenation



Short Talk

Lunch Break + Exhibition viewing

13.00-14.00

AQING

Session 3: Stochasticity and Dynamics of Biological Aging Clocks



Prof. Andrew Teschendorf Physics in Aging Biology: from applications to fundamental theories



Prof. Steffen Ruland Stochasticity and memory in epigenetic ageing



Dr. Dmitrii Kriukov Estimating Uncertainty in Biological Age Prediction: A Fundamental Challenge

Coffee Break + Exhibition viewing	15.15 - 15.45
Session 4: Bridging Physics and Longevity Medicine	15.45 - 17.00



Prof. Matt Kaeberlein



Prof. Andrew Rutenberg Dynamics of Aging Biomarkers



Dr. Weilan Wang Use of potential gerotherapeutic drugs and mortality of geriatric rehabilitation inpatients

Dr. Glen Pridham Dynamical modelling of the frailty index indicates that health reaches a tipping point near age 75

Short Break	17.00 - 17.10
Session 5: Short talks and 1 Min Pitches	17.10 - 18.00



Prof. Yumi Kim Age-dependent remodeling of ribosomes in skeletal muscle: Structural and functional changes



Mr. Kamil Pabis

1- Minute Poster Presentations

Refreshments & Networking

19.00 - 20.00





AQNE

CONFERENCE SCHEDULE

2 DAY: 6th March

Registration + Light Refreshments

08.00 - 08.30

Session 6: Synergizing Physics and AI: Computational Approaches to Aging Biology

08.30 - 10.00

Dr. Kumar Selvarajoo Can predictive models be developed for understanding complex aging cellular dynamics?



Prof. Jan Gruber



Prof. Morten Scheibye-Knudsen

Dr. Andrei Tarkov No easy answers - Al-assisted protein design for lifespan extension

Coffee Break + Exhibition viewing

10.00 - 10.30

Session 7: Lifelong Dynamics: Physics-Inspired Insights 10.30 - 12.00 into Developmental Processes and Aging Patterns



Prof. Rong Li



Short Talk

Dr. Leong Kim Whye Critical phenomenon associated with luminogenesis during ovarian follicle development



Short Talk

Lunch Break + Exhibition viewing

12.00- 13.00



Session 8: Quantitative Insights into Metabolism and Longevity

ASING



Prof. Nir Eynon Dynamic ways of quantifying the human ageing methylome and exercise rejuvenation



Prof. Brian Kennedy



Short Talk

Coffee Break + Exhibition viewing14.15 - 14.35Session 9: Complex Systems and Connectivity: A14.35 - 15.50Network Approach to Aging & Metabolism14.35 - 15.50



Prof. Ee Hou



Prof. Feng Ling Percolation theory in complex networks



Mr. Weihan Huai Identifying Novel Geroprotectors through Aging Network Mapping

Dr. Csaba Kerepesi Methylation and network entropy measurements during aging

Short Break	15.50 - 16.10
Session 10: Panel on The Future of Gerophysics	16.10 - 16.45
Moderator: Sebastien Thuault Panelists: Uri Alon, Peter Fedichev, Marija Cvijovic	
Wrap up: Max Unfried & Brian Kennedy	16.45 - 17.00
Speakers and Sponsors Dinner	19 00 - 22 00