

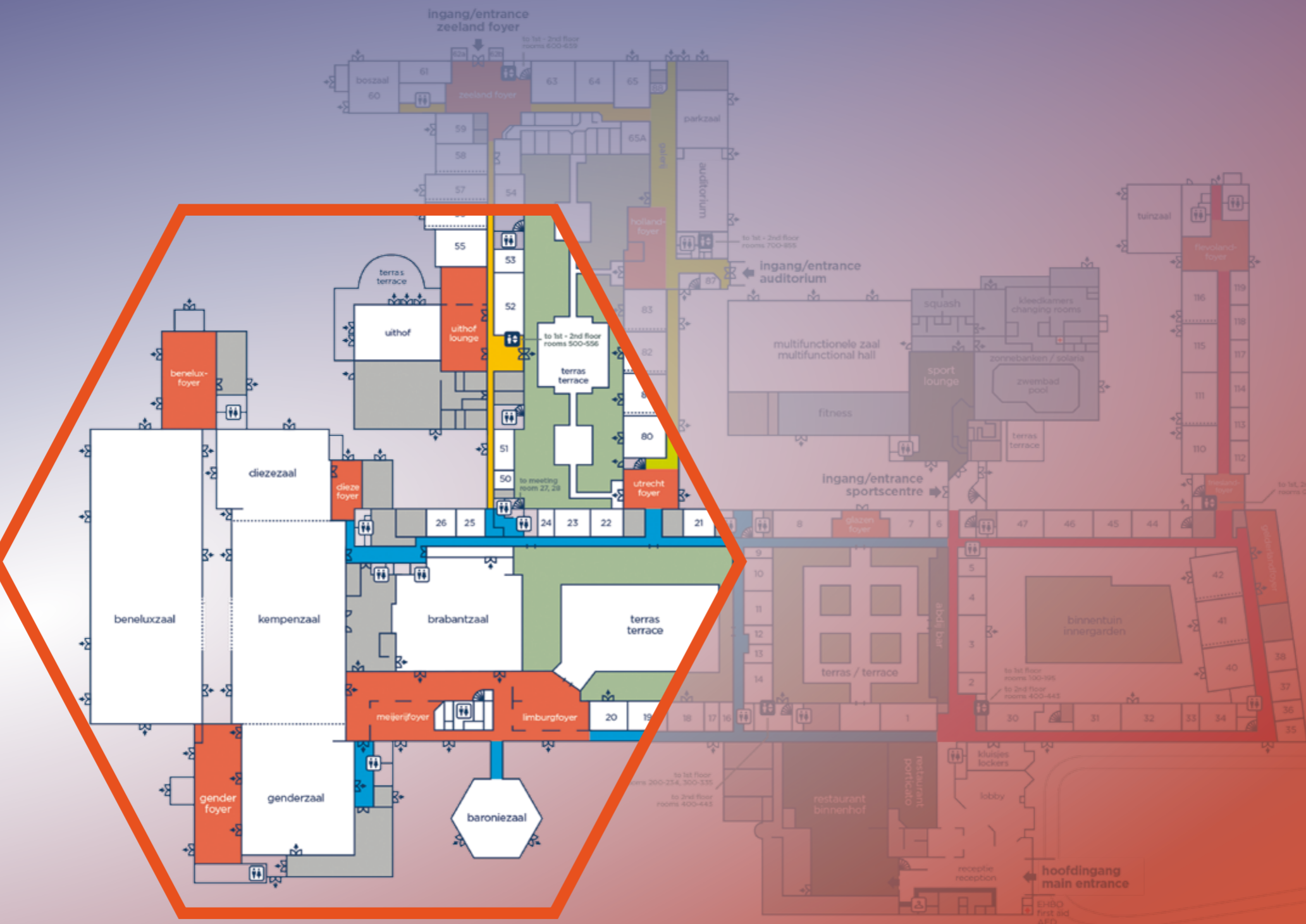
3-4 OCTOBER 2016
NH KONINGSHOF
VELDHOVEN
THE NETHERLANDS

DUTCHBIOPHYSICS

www.fom.nl/biophysics

biophysics@fom.nl

#DutchBiophysics



DUTCH BIOPHYSICS

THE ANNUAL DUTCH MEETING ON MOLECULAR AND CELLULAR BIOPHYSICS

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PICTURES

All official DutchBiophysics photos will be made available to the participants in the week after the congress. You can find the photo album via www.fom.nl/biophysics.

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WELCOME TO DUTCHBIOPHYSICS 2016

This annual meeting brings together groups that work on molecular and cellular biophysics and microscopy in the Netherlands. The programme covers a large variety of topics, such as the biophysics of living cells and their membranes, the cytoskeleton, molecular motors, DNA/RNA-protein interactions, theoretical biophysics, systems biology and networks, photosynthesis, and new developments in light and electron microscopy, imaging and spectroscopy, force probes, (bio) chemical synthesis, nanotechnology, biomedical engineering and applications.

With such a broad range of topics, addressed in 8 plenary talks, 12 parallel sessions with 54 presentations, and over 200 posters, we trust these two days will be interesting for every participant.

ORGANISING PARTNERS

DutchBiophysics is organised by the Foundation for Fundamental Research on Matter (FOM) and NWO Earth and Life Sciences (NWO-ALW), in collaboration with the Netherlands Society for Microscopy (NVvM) and the Society for Biophysics and Biomedical Engineering (BIOPM).

If you have any questions, feel free to visit the registration desk, contact us via biophysics@fom.nl, or tweet your question to @FOMPhysics using #DutchBiophysics.

We wish you a pleasant and inspiring meeting!

www.fom.nl
www.nwo.nl/alw
www.microscopie.nl
www.biopm.nl

DUTCHBIOPHYSICS 2016

PROGRAMME MONDAY 3 OCTOBER

09.30 – 10.30 ARRIVAL / REGISTRATION / COFFEE & TEA						ROOM	KEMPENZAAL
10.35 – 10.45 OPENING						ROOM	BRABANTZAAL
10.45 – 11.15	I.1	ERWIN FREY (Ludwig-Maximilians-Universität München)				ROOM	BRABANTZAAL
Generic design principles of protein pattern formation in cellular systems							
11.20 – 11.50	I.2	CLIFFORD BRANGWYNNE (Princeton University)				ROOM	BRABANTZAAL
Measuring the intracellular dew point: phase transitions in cells							
11.55 – 12.25	I.3	CHRISTOPHE DANELON (Delft University of Technology)				ROOM	BRABANTZAAL
Roadmap to a synthetic cell							
12.30 – 13.25 LUNCH						ROOM	KEMPENZAAL
ROOM	BRABANTZAAL	BARONIEZAAL	GENDER FOYER	DIEZEZAAL	BENELUX FOYER		
SESSION	SINGLE MOLECULE MICROSCOPY	COLLECTIVE MOTION	PHOTOSYSTEMS	NANOMECHANICS	BIOMEDICAL ENGINEERING I		
13.30 – 13.50	O.01 M.W. PAUL (EMC)	O.04 K.A. WOLF (RIMLS)	O.07 L.S. VAN BEZOUWEN (RUG)	O.10 B.E. VOS (AMOLF)	O.13		
Visualizing mechanisms of DNA double strand break repair by nanoscopy							
13.50 – 14.10	O.02 A.B. SEINEN (RUG)	O.05 G. QUARANTA (TUD)	O.08 F.J. VAN EERDEN (RUG)	O.11 C.P. MOERLAND (TU/e)	O.14 T.A. HARTJES (EMC)		
Single molecule imaging of the dynamics of the Sec translocase in living cells							
14.10 – 14.30	O.03 S. KIENLE (AMOLF)	O.06 D.J.G. PEARCE (LEI)	O.09 N. LIGUORI (VU)	O.12 D. DENNING (VU)	O.15 A. REYES REYES (TUD)		
Quantitative analysis of stochastic gene expression dynamics during <i>C. elegans</i> development							
14.30 – 14.55 COFFEE & TEA						ROOM	KEMPENZAAL
ROOM	BRABANTZAAL	BARONIEZAAL	GENDER FOYER	DIEZEZAAL	BENELUX FOYER		
SESSION	ELECTRON MICROSCOPY	INTRACELLULAR TRANSPORT	SPECTROSCOPY	MECHANICAL REGULATION	BIOMEDICAL ENGINEERING II		
15.00 – 15.20	O.16 C. MELIA (LUMC)	O.19 R.P. TAS (UU)	O.22 M. KLOZ (VU)	O.25 Y. MULLA (AMOLF)	O.28 M.C.E. VAN DALEN (UT)		
Tracking infections of a positive-sense RNA virus that can replicate without replication organelles							
15.20 – 15.40	O.17 J. FOKKEMA (UU)	O.20 J. VAN KRUGTEN (VU)	O.23 Y.L.A. REZUS (AMOLF)	O.26 O. IENDALTSEVA (LEI)	O.29 D. RAMEKERS (UMCU)		
Fluorescently labeled silica coated gold nanoparticles as fiducials for correlative microscopy							
15.40 – 16.00	O.18 Y. KABIRI (TUD)	O.21 M. HARTERINK (UU)	O.24 B.F. VAN OORT (VU)	O.27 M. HASHEMI SHABESTARI (VU)	O.30 Z. ZHANG (VU)		
Novel transmission electron microscopy of unstained DNA origami on graphene and carbon substrates							
16.00 – 18.00 POSTERSESSION 1 (ODD NUMBERS)						ROOM	KEMPENZAAL
18.00 – 19.30 DINNER						ROOM	BENELUXZAAL
19.30 – 19.50 COFFEE & TEA						ROOM	KEMPENZAAL
19.50 – 20.00 THESIS AWARD CEREMONY OF THE DUTCH SOCIETY FOR BIOPHYSICS AND BIOMEDICAL ENGINEERING						ROOM	BRABANTZAAL
20.00 – 21.00	I.4	LIPINCOTT-SCHWARTZ (National Institute of Health, Bethesda)				ROOM	BRABANTZAAL
Emerging fluorescence technology to study the spatial and temporal dynamics of organelles within cells							

PROGRAMME TUESDAY 4 OCTOBER

9.00 – 9.30	I.5	PETER ZIJLSTRA (Eindhoven University of Technology)				ROOM	BRABANTZAAL
Seeing the invisible: single-molecule detection using plasmonic nanoparticles							
9.35-10.05	I.6	PATRICIA BASSEREAU (Institut Curie, Paris)				ROOM	BRABANTZAAL
Cell membrane shaping by BAR-domain proteins							
10.10 – 10.25 COFFEE & TEA						ROOM	KEMPENZAAL
ROOM	BRABANTZAAL	BARONIEZAAL	GENDER FOYER	DIEZEZAAL			
SESSION	SUPER-RESOLUTION MICROSCOPY	CELL MORPHOLOGY	HIGH-THROUGHPUT METHODS	MOLECULAR INTERACTIONS			
10.30 – 10.50	O.31 H. HEYDARIAN (TUD)	O.34 T. VAZQUEZ FACI (TUD)	O.37 C. FIJEN (WUR)	O.40 S.K. THANGARAJ (UT)			
Lambda/100 resolution by template-free 2D particle fusion in localization microscopy							
10.50 – 11.10	O.32 H. DE KEERSMAECKER (KU Leuven)	O.35 K.K. SCHAKENRAAD (LEI)	O.38 D. KAMSMA (VU)	O.41 A.S. OUDE VRIELINK (TU/e)			
Nanoscale interaction mapping in living cells							
11.10 – 11.30	O.33 M.B.M. MEDDENS (UNM)	O.36 A.B.C. BUSKERMOLEN (TU/e)	O.39 T.B. BROUWER (LEI)	O.42 M.A. BEUWER (TU/e)			
Single objective light-sheet microscopy for high-speed whole-cell 3D super-resolution							
11.30 – 13.25 POSTERSESSION 2 (EVEN NUMBERS) AND LUNCH						ROOM	KEMPENZAAL
NVvM PROGRAMME:							
11.45 – 12.15 - NVvM GENERAL ASSEMBLY						ROOM	DIEZEZAAL
12.30 – 13.00 - NL-BIOMAGING ADVANCED MICROSCOPY MEETING						ROOM	DIEZEZAAL
ROOM	BRABANTZAAL	BARONIEZAAL	GENDER FOYER	DIEZEZAAL			
SESSION	CELLULAR IMAGING	MEMBRANES	PROTEIN STRUCTURES	DNA ORGANIZATION			
13.30 – 13.50	O.43 C.P. FRIAS (UU)	O.46 C.M. VAN DER WEL (LEI)	O.49 V. VAN MEERVELT (RUG)	O.52 M. MARCHETTI (VU)			
Semaphorin Sema4D promotes inhibitory presynaptic bouton stabilization by regulating actin							
13.50 – 14.10	O.44 L. FIELMICH (UU)	O.47 S.R. DESHPANDE (TUD)	O.50 E. VAN DIJK (VU)	O.53 A.P. KACZMARCZYK (LEI/TUD)			
Shedding light on mitotic spindle positioning in asymmetric cell division							
14.10 – 14.30	O.45 J.M. KEEGSTR (AMOLF)	O.48 V.M. MARIN (TUD)	O.51 A. AHER (UU)	O.54 N. HERMANS (LEI)			
Direct measurements of variability in a bacterial signaling network by FRET in single cells							
14.35 – 15.05	I.7	MARK ELLISMAN (University of California San Diego)				ROOM	BRABANTZAAL
Toward making the invisible and complicated understandable: microscopy across scales and modalities							
15.10 – 15.40	I.8	MARLOES GROOT (VU Amsterdam)				ROOM	BRABANTZAAL
Label-free, real-time pathology with higher harmonic generation imaging							
15.45 – 15.55 CLOSING REMARKS & POSTER PRIZE AWARD						ROOM	BRABANTZAAL