



Newsletter for the Chemistry of Life research community

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Dear member of the Chemistry of Life community,

Here is a newsletter of the [Chemistry of Life advisory committee](#). This diverse group of ten scientists gives solicited and unsolicited advice to the board of the NWO Science domain and the Round Table Chemistry on proposals for new programmes and policies. We welcome your suggestions to make sure that we represent the field as good as possible.

News

- The Vision for Chemistry 2040, which was drafted by the four research community advisory committees and the Round Table Chemistry, and for which several of the Chemistry of Life members provided input, is finished and now available [online](#). The purpose of this document is to inspire discussion within the field.
- ENW KLEIN and GROOT have undergone a few changes and will continue under the name ENW-M and ENW-XL. The current KLEIN-0 will continue in OC ENW-M under the name M-invest. In M-invest the assessment will be focused on scientific quality and scientific or societal impact and will be assessed in competition with M-1 and M-2 (former KLEIN-1 and KLEIN-2).
- The [incentive grants for women in STEM](#) are still available.

CHAINS

CHAINS 2020 goes online on December 8-9! The meeting will showcase the innovations and latest developments in Dutch chemistry. Our [Chemistry of Life](#) community is represented by several strong sessions presented by junior researchers, covering **Biomolecular interactions & Folding**, *Biorganic chemistry*, **Biocatalysis**, **Biophysics in chemistry**, *Medicinal chemistry*, **Novel bioanalytics**, *Structural biology*, and **Biomaterials**.

In addition, there are several exciting **Focus Sessions that bring together experts in a field**, for example:

- High-resolution approaches for dissecting protein structure and function
- The Quest for Small Molecule Antiviral Drugs
- Coupling gene regulation and cell metabolism
- New avenues in biomolecule detection platforms

- Societal Challenges, Analytical Solutions and more!

More information and registration at <https://nwochains.nl/>

We hope to meet you online at CHAINS 2020.

Events & meetings

	When	Where	Website
CHAINS 2020	8-9 December	Digital conference	https://nwochains.nl/

Prizes

Title	Deadline
Copley Medal	30-11-2020
NVBMB Prize	31-12-2020
Langerhuizen Oeuvreprijs 2021	31-01-2021
EMBO Gold Medal	01-02-2021
Bioconjugate chemistry lectureship award	28-02-2021

NWO Calls

OPEN COMPETITION	TALENT	NWA	PPP / KIC*	OTHER
ENW XS Temporarily closed	Rubicon ENW 1 December	NWA – routes Continuous application	KIEM GoChem / CE 10 December	NWO GROOT Temporarily closed
ENW M Continuous application	VENI 2021 20 May	NWA – ORC Matchmaking 16 October	KIC – mission driven 7 calls open (Key Technologies , Circularity)	Zwaartekracht 19 January
ENW XL 15 April	VIDI 2020 6 October		KIC - partnerships Open soon	TTW Perspectief 22 October
TTW OTP Continuous application	VICI 2020 Temporarily closed		KIC – strategic collaborations Open soon	Women in STEM 31 December
NWO Scientific meetings and consultations Continuous application				

* PPP: Public-Private Partnerships; KIC: Knowledge and Innovation Covenant

Granted projects

OPEN COMPETITION

ENW XS

Dr. Y. Abouleila - Dengue virus disease on a chip for novel biomarker discovery and drug screening
Dr. M.F. Batista de Sá - DESAlgae –Capturing and re-using CO₂ using deep eutectic solvents and microalgae
Dr. G. Forn Cuni - Targeted biomolecule production for therapeutic use
Dr. L. Garcia Morales - Beyond low-hanging fruit: using CRISPR-Cas9 to produce the next generation of antibiotics

Dr. R. Bosma - Controlling the “adrenaline rush” with light
Dr. D.H.M. Meijer - A voltage keeper for cryo-EM
Dr. C.E. Paul - Exploring Nature’s catalysts for selective carbon bond formation
Dr. S.A. Ruijtenberg - Live recording of gene expression: visualizing and tracking individual mRNA molecules in real time
Dr. J.M. Saya - Learning from Nature to Synthesize Peptides and Proteins
Dr. S. Sukas - Bio-inspired chromatography column for circulating tumor cell extraction from blood
Dr. S.J. Wezenberg - Developing synthetic foldamers into membrane channels

ENW KLEIN

Prof. dr. F.J.M. van Kuppeveld, Dr. M.E. Tanenbaum - Seeing viral infection
Dr. K.F. Sonnen - Light-sheet microscope to study signalling processes during development and tissue homeostasis
Dr. Teun Munnik - Release and Catch! Using a light-controlled probe to uncover the signaling interactome of phosphatidic acid in the plant cold response
Prof. dr. Claire Wyman - The RAD51 paralog paradox: Essential functions in DNA repair depend on how proteins move and organize within the dynamic nuclear environment

PPP/KIC

LIFT

Dr Ben Giepmans - ‘Google biomaps’ on a square nanometre
Dr Arthur Ram - Improve the protein factory!

TA

Prof. Geert-Jan Boons - Preventing and treating food allergies with immunomodulatory carbohydrates

For questions, ideas and input for news items, please contact:

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Earlier editions and newsletters of other research communities can be found [here](#).