



**Nederlandse
Biotechnologie
Vereniging**

Yearbook 2024

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Index

INDEX	3
NBV YEARBOOK 2024	5
PREFACE	6
ACTIVITIES NBV 2023	8
Young NBV Networking Event	8
Food and Biobased Technology Event	8
NBV Genomics event: Translating your genome for personalized health	10
Netherlands Biotechnology Congress (NBC-23)	11
Dutch Biocatalysis Symposium 2023: BiocatNL-2023	14
Microbial Biotechnology Symposium MB9.0	15
NBV Biopharma Symposium 2023	17
MINUTES GENERAL MEMBERS MEETING 13 JUNE 2023 (ALV)	18
WORKING GROUP DETAILS NBV	21
BioPharma Technology	22
Food & Biobased Technology	23
Microbial Biotechnology	24
Applied biocatalysis	25
Genomics	26
Social aspects of the biotechnology	27
Young NBV	28
ABOUT NBV	29
Introduction	29
Contact information board members:	30
Regulations, professional ethic, and constitution and rules	31
Honorary members	31
MEMBER STATISTICS	32
Membership	32
Membership fees 2024:	33
FINANCIAL YEAR REPORT 2023	34
1. Account balances 2023 and 2022	34
2. Budget and profit and loss statement 2023	35
2.1 Expenses/costs	36
2.2 Income/benefits	36
3. Approval of the financial report	36
4. Budget 2024	37
5. Workgroup activities and activities for young members	37
6. Sponsor opportunities	38



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Yearbook 2024

NBV yearbook 2024

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Preface

Dear NBV members,

Biotechnology is alive more than ever and will make a major contribution to the major social themes of today: health, sustainability and feeding the world. Technological developments are moving fast. Collaboration and knowledge exchange in the various disciplines of biotechnology, such as industrial, medical and food & feed biotech, will only further accelerate these developments. This is good news for everyone who is aware that technology and innovation will help us solve these major issues and ultimately contribute to a better society. The NBV has the ambition to be in the center of these developments by offering THE platform for cooperation and knowledge exchange in the biotech sector in the Netherlands.

In that spirit NBC-23 was organized for the second time in CORPUS Leiden. During this conference, the major themes and the speed of new developments were excellently highlighted by keynote speakers Olivier Rolland (L'Oreal), Diana Visser (Corbion) and Jean-Paul Meijnen (Ginkgo Bioworks) as well as a strong line-up of invited speakers from industry and academia.

It was pointed out that sustainability is no longer a nice greenwashing marketing tool. Instead, companies are taking it more seriously by integrating Sustainable Development Goals and Science Based targets as important criteria into their innovation pipeline. Showcases were presented of the development of biobased processes that have (or have not yet) reached the commercial stage, with the observation that the total volumes of biobased/circular products compared to fossil products are still minute. So, there is still a world to be won. In terms of speed of development, it became clear that high throughput strain development has taken off enormously and that Artificial Intelligence will provide an important extra boost in the coming years. New developments in personal health and diagnostics were shown. These indicated that there is still much good to come in the field of medical biotech.

In addition to all substantive progress, attention was also paid to commercialization of biotechnology. How can we get from an idea to a company more quickly in the Netherlands? A great new initiative was shown by Biotech Booster to solve this problem. In this context, attention was also paid to entrepreneurs/researchers whose efforts have made an important contribution to the implementation and commercialization of biotech research, culminating in the election of an outstanding winner of our Zilveren Zandloper Innovation Award: Cindy Gerhardt (Planet B.io). With 27 lectures, 35 poster pitches with 2 prize winners (sponsored by Corbion), 9 presentation booths from our esteemed sponsors and companies, a “funny pictures” photobooth, and a record number of more than 220 participants, NBC23 was truly a celebration of Dutch Biotech.

In 2023 we also said goodbye to Maria Barbosa as the Chair of the NBV and welcomed Maria Suarez Diez (WUR) as the vice-president. For me it was a pleasure to succeed Maria Barbosa as the NBV -president. An “industry person” following up an “academic person”, which is well in line with our tradition to seek for a good balance between academia and industry who need each other to make Biotech a success.

Our 7 Workgroups (BioPharma Technology, Food and Biobased Technology, Microbial Biotechnology, Applied Biocatalysis, Young NBV, Societal aspects of Biotechnology and Genomics & Bioinformatics) proved to be very active in helping the NBV mission put into practice. In the past year events/symposia were organized, ample support was provided to help NBC23 become a great success. During the Workgroup strategy day held in February 2024 the ambitions and planning of events of the workgroups were presented and discussed. In addition, a roadmap to organize workgroup events was presented by NBV board members to provide proper guidance here.

This year finally the long anticipated international ECB2024 will take place in De Doelen, Rotterdam from June 30 - July 3, organised by the European Federation of Biotechnology (EFB) with extensive support of the NBV and the IUPAC. NBV and the workgroups have significantly contributed to an outstanding programme in which the own signature of NBV is warranted. An NBV-highlight session with former Zilveren Zandloper winners Jack Pronk and Linda Dijkshoorn is integrated in the program on Monday July 1st, during which the Zilveren Zandloper Education prize will also be awarded. On top of that there will be an NBV social event for our members and sponsors the same evening.

In conclusion, the past year was a good, fun and busy year for NBV. How wonderful it is to be part of such a vibrant, growing community with so much more to come!

Jan Wery
Chairman of the NBV board

Activities NBV 2023

Young NBV Networking Event

Wednesday 22 March 2023

15:30 - 19:30

@ Brouwerij Pronck, Leiden

The young NBV workgroup organised a network event aimed at students in the life sciences or biotechnology related domains, that are looking for internships or job opportunities. The event was held at Brouwerij Pronck in Leiden. The programme included speed networking and presentations from:

- Meatable
- kelp blue
- Corbion
- ESA Estec

The event was free of charge and attracted a few dozen young biotech enthusiasts.

Extend your biotech network

Speed networking

Search for Internships

Corbion

How to build your Biotech career?

Young NBV network event

22nd March 2023 15:30 – 19:30

Brouwerij Pronck
70D Langegracht
2312 NV Leiden

esa
ESTEC

kelp blue

Meatable

Nederlandse Biotechnologie Vereniging

Sign up

Food and Biobased Technology Event

The NBV Food and Biobased Technology working group organised its annual event with the theme: **Value from sidestreams through bioprocessing.**

Date: 29 March 2023

Time: 15:00 - 19:00 h

Location: Planet B.io, Alexander Flemminglaan 1, Delft

The world is demanding a sustainable way of producing food and materials for our everyday life. We are becoming more aware of the impact our behavior has on the climate and our surroundings. By valorizing side streams using biotechnology we can contribute to a sustainable future and ensure future food production processes. With that in mind, the Food and Biobased Technology workgroup organized an event with three prestigious speakers that each contribute to a healthier planet:

Nathalie Pixopoulou, Project Development Manager with a background in chemical engineering, will explain how to reduce CO₂-emissions by transforming them into everyday products. With fermentation LanzaTech can create value while not competing with any food chain. You would be surprised where to find the applications of their technology in everyday life.

Richard Ravesloot, scientist downstream processing at DSM, will present CanolaPRO, which is an innovative product that drives the protein transition towards a plant-based solution. He will take you on his journey answering questions why they use canola as substrate. From the hurdles during development, towards the functionality as a product in our daily lives.

Corjan van den Berg, scientist in chemical engineering, will tell the story of Revyve (formerly known as FUMI Ingredients), a company specialized in production of egg-like protein. Starting on lab-scale in 2019 producing just enough to prove their concept they are now able to produce large quantities for commercial use. By simplifying concepts and by using smart techniques, Corjan was able to overcome obstacles most companies face while scaling up.

One thing all these companies have in common is their rapid growth. With biotechnology gaining popularity this sector is always looking for the right people on the right spot.

The event was sponsored by GEA.

<p>Nathalie Pixopoulou (LanzaTech)</p> <p>"Carbon recycling for emission free manufacturing"</p>	
	<p>Richard Ravesloot (Olatein/ DSM)</p> <p>"Discover DSM's plant based protein: CanolaPro®"</p>
<p>Corjan van den Berg (Revyve)</p> <p>"Revyve: Upcycling brewers spent yeast into value ingredients"</p>	

NBV Genomics event: Translating your genome for personalized health

Date: 16 May 2023

Time: 10:00 am to 18:30 pm

Venue: Utrecht – Beatrixbuilding Jaarbeurs Meet Up Utrecht

The Human Genome Project ushered in the era to utilise the human genome for improving healthcare. In the last ten years, the accessibility of human genome data to personalise treatment and accelerate drug development has grown exponentially. How can we leverage this information to facilitate personalised health? The NBV Genomics workgroup presented keynote speakers across academia and industry to share their insights around the use of pharmacogenomics in healthcare practice:

- Prof Dr. André Uitterlinden – Professor of complex Genetics at Erasmus MC, Head of Population Genomics – dept. Internal medicine
- Prof. Dr. Roos van Westrhenen – Psychiatrist & Clinical Pharmacologist at Amsterdam UMC, Scientific Coordinator/Principal Investigator PSY-PGx, Head and PI Outpatient Clinic Pharmacogenetics Parnassia Psychiatric Institute/PsyQ
- Prof. Dr. Marieke Coenen – Professor Pharmacogenetics at Erasmus MC, Department of Clinical Chemistry board member of the Netherlands Network of Precision medicine

The event was supported by sponsors Standard Biotools, Illumina, Eurofins Genomics and MGI.



Netherlands Biotechnology Congress (NBC-23)

Thursday 28 September 2023
CORPUS Congress Centre, Oegstgeest

NBC-23 was a great success!

On September 28, 2023, the NBV organized the Dutch Biotechnology Congress (NBC-23) in the Corpus Congress Center in Oegstgeest. The event brought together a record number of more than 220 biotechnologists who were inspired by 3 keynotes, 24 parallel lectures, 35 posters and pitches, the 9 companies that were present with stands, and of course each other.

Keynotes

The NBV invited three intriguing keynote speakers: Diana Visser (Vice President Sustainability at Corbion), Jean-Paul Meijnen (Senior Director Organism Engineering at Ginkgo Bioworks and Managing Director at Ginkgo Bioworks Netherlands), and Olivier Rolland (Director of Toulouse White Biotechnology). They shared their expertise during this eventful day.

Poster Prizes

Marjolein Crooijmans won the Corbion Poster Prize (€500) and Lars Santema won the Corbion Poster Pitch Prize (€250) at the Dutch Biotechnology Congress.

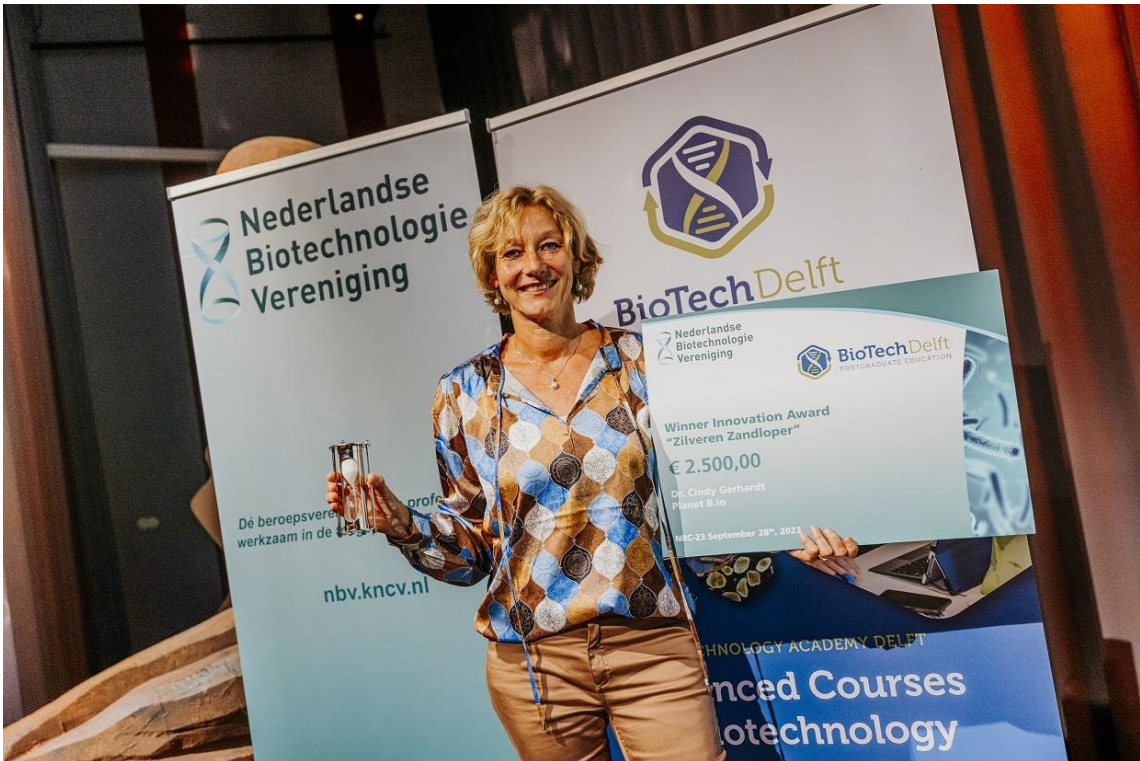
Marjolein is a PhD candidate at Leiden University and presented a poster about the possibilities of cell wall-deficient *E. coli*. Her poster stood out for its clear organization, thorough research and creative approach.

Lars is a PhD candidate at the University of Groningen. His work focuses on the characterization of thermostable glycerol oxidases. He pitched his research on the main stage and started by complimenting the audience on how good they smelled...

The awards were sponsored by Corbion and presented by María Suárez Diez, vice-president of the NBV.

Zilveren Zandloper Prize

Cindy Gerhardt, managing director at Planet B.io, received the NBV Zilveren Zandloper for her important role in developing and strengthening the startup ecosystem in industrial biotechnology in the Netherlands. She received the award from NBV chairman Jan Wery. The prize consists of prize money of €2,500 and an engraved silver hourglass statue. This year the Zilveren Zandloper Award was sponsored by BioTech Academy Delft. The NBV congratulates Cindy on her excellent achievements for Biotechnology in the Netherlands!





Dutch Biocatalysis Symposium 2023: BiocatNL-2023

Friday 20 October 2023

[De Observant, Amersfoort](#)

BiocatNL is organised yearly by the NBV work group [Applied Biocatalysis](#).

Biocatalysis is an active research field in several academic research groups in the Netherlands. Also, a large number of biotechnology companies develop and/or use enzymes for their processes. To promote interactions in the field of applied biocatalysis and to inform a broader audience, the working group Applied Biocatalysis of the Dutch Biotechnology Association (NBV) organized the BiocatNL-2023 symposium to highlight developments in biocatalysis. Besides contributions from academia and industry, young researchers (PhD students) were invited to give a pitch talk on their research.

The programme was as follows:

13:00 Dr. Ivana Drienovska (Vrije Universiteit Amsterdam)

Expanding the enzyme universe: incorporation of functional secondary amines

13:40 Prof. Dr. Marco Fraaije (University of Groningen)

Generating more robust enzymes by covalent cofactor attachment

14:20 break

15:00 Dr. Peicheng Sun (Wageningen University)

*AA16 oxidoreductases boost cellulose active AA9 lytic polysaccharide monoxygenases from *Myceliophthora thermophila**

15:30 Lisanne Jente (INNOSYN)

Biocatalytic route scouting and chemo-enzymatic synthesis of L-glutamate derivatives

16:00 break

16:30 Dr. Christian Heckmann (Delft University of Technology)

Telescoped enzymatic synthesis of (1S,3R)-3-hydroxycyclohexanecarbonitrile

17:00 pitch talks (5 minutes talks by early career researchers)

17:30 drinks & snacks = borrel

Microbial Biotechnology Symposium MB9.0

The Microbial Biotechnology Symposium is organised yearly by the NBV work group [Microbial Biotechnology](#). This years edition was co-organised by the Koninklijke Nederlandse Vereniging voor Microbiologie (KNVM). The event brought together over 100 participants from academia and industry in an inspirational location in Delft:



What: MB9.0

When: Monday November 6th, 2023

Where: [DUWO Lecture Hall, Professor Schermerhornstraat 4, Delft](#)

9:30 – 10:00 Registration and coffee

10:00 - 10:15 Introduction

10:15 - 10:45 Invited lecture: Nick Wierckx – Forschungszentrum Jülich: Appetite for trash - Establishing plastic waste as biotechnology feedstock.

10:45 - 11:05 Nuran Temelli – WUR: The general stress response as a tool to save energy and boost precision fermentation

11:05 - 11:25 Femke Vermeir – Radboud University: The molecular mechanism of hydrazine production by the hydrazine synthase of anammox bacteria

11:25 – 11:45 Chaoxian Bai – Leiden University: CUBIC: A CUMate-Based Inducible CRISPRi system in Streptomyces

11:45- 12:10 Poster pitches

12:10 - 13:30 Lunch, poster session and networking

13:30- 14:00 Invited lecture: Barbara Kozak – IFF:Taming Trichoderma for industrial needs.

14:00- 14:20 Julius Battjes - VU: Resource allocation in Crabtree negative yeast *Pichia kluyveri*.

14:20- 14:40 Marieke Warmerdam – TU Delft: Exploring yeast diversity for ethanol-fueled industrial biotechnology.

14:40 - 15:25 Coffee break and poster session

15:25- 15:45 Suzan Yilmaz - WUR: Engineering One-Carbon Metabolism in *E. coli* using Multiplex Genome Engineering”.

15:45 - 16:05 Yanfang Guo - Westerdijk Fungal Biodiversity Institute:Development of a versatile fungal host for heterologous expression

16:15 - 16:45 Invited lecture: Stan Brouns – TU Delft: CRISPR mediated protein cleavage: a new era of proteome editing

16:45 Drinks and Networking

Sponsors

MB9.0 was proudly sponsored by:

GETINGE 

 **fisher scientific**
part of Thermo Fisher Scientific



IFF
International Flavors & Fragrances

 **Corbion**

NBV Biopharma Symposium 2023

Thursday 30 November 2023

18:00h - 22:00h

Eindhoven Meeting Center, Amersfoort

On 30 November, the NBV working group Biopharma organised their annual event around the theme: **Digital Age Biopharma**. The evening programme facilitated networking and included several invited speakers detailing the most recent advanced in pharma related bioprocesses.

The programme included:

18:00	Registration , Coffee & Sandwiches
18:30	Opening by Session Chairs
18:35	Digitalization in manufacturing Bianca Bussamra, Scientist Janssen Biologics
19:05	Computational Fluid Dynamic simulations for efficient upscaling of stem cell production in bioreactors Ramon van Valderen, PhD student TU Delft
19:35	Break
20:00	Bridging the gap between a data ocean and the equipment data Bart van Loon, Specialist Lab Information & Automation MSD
20:30	Closing & Drinks



Nederlandse Biotechnologische Vereniging

Digital Age Biopharma

Thursday, November 30, 2023
18:00 - 22:00
Eindhoven Amersfoort

Organized by the NBV
Biopharma working group

Sponsored by

polpharma biologics **HAMILTON** THE MEASURE OF EXCELLENCE™ **securecell**

Registration:
nbv.kncv.nl/nl/biopharma-2023/nbv-biopharma-symposium-2023
Free for NBV members
€30 for non-members



Nederlandse Biotechnologische Vereniging

Minutes General Members Meeting 13 June 2023 (ALV)

The 46th General Member Meeting (GMM) of NBV took place on 13 June 2023 from 20:00-21:00, online via Teams.

Attendees:

Board Members: Maria Barbosa, Jan Wery, Carlien Verberne, Tim Vos, Zeger de Vente, Niels van Mossevelde, Susana Pedraza, Brigit van Brenk

Other members: Marco Fraaije, Richard van Kranenburg, Cornelis Mijnders, Loes Bevers, John Rook, Maria Suarez Diez.

Agenda

1. Opening by president Maria Barbosa
2. Minutes ALV (GMM) 2022 (part of digital NBV yearbook 2023)
3. Annual overview & annual report 2022
4. Financial annual report 2022
5. Financial control committee 2022
6. Appointment financial control committee 2023 (vote)
7. Budget 2023 (vote)
8. Election / appointment of new board members (vote)
9. Plans 2023-2024 by new chairman
10. Any other business (AOB)
11. Closure

1. *Opening*

The meeting is opened at 8.02 pm by president Maria Barbosa. Voting is done by making dissenting votes recognizable via chat and/or speech. Voting in favor is done by remaining silent.

2. *Minutes ALV (GMM) 2022*

The minutes of the previous GMM can be found in the NBV Yearbook 2023 and have been approved.

3. *Annual overview & annual report 2022*

Maria Barbosa is giving a short overview of activities:

- Young NBV network (~20 participants)
- NBC (~220 participants)
- Biopharma event (~50 participants)
- MB8.0 (~80 participants)

Besides that, Maria Barbosa is showing a list of successful implementations done in 2022:

- One chair per workgroup as contact person.
- Active participation of all work groups in NBC-22 organization (invited speakers, active in scientific program committee and Zilveren Zandloper nominees).
- More professional location for NBC-22 & professional host.
- Poster Pitches.
- Organization of workgroup activities.
- Extension in NBC sponsoring.

In addition, some awards were distributed in 2022:

- Lustrum year - Honorary Member Feike Sijbesma
- Zilveren Zandloper Education - Dirk-Jan Scheffers
- Strategy day with all workgroups

4. *Financial annual report 2022*

Niels van Mossevelde (treasurer) provides an overview of the 2022 annual report (details can be found in NBV Yearbook 2023), including the main points:

- Yearly donation will be changed to sponsor packages for NBC.
- Over the book year (1st of jan until 31st of Dec 2022), approximately €22,000 was used from the reservation. However, there was no loss as most of the income from the NBC 2022 was booked in 2023.
- To streamline workgroup meetings, registration and payments will go via KNCV in the future (cost = ~€0.50 per payment).
- NWO sponsoring (thanks to Maria and Tim) + extension in sponsoring (thanks to Zeger de Vente) have lead to a profit in NBC-22 budget.

5. *Financial control (audit) committee 2022*

Final balance has been drawn up and checked by the financial control committee (Denise Jacobs and Cornelis Mijnders) and has been approved. Cornelis Mijnders confirms that everything was okay.

6. *Appointment financial control (audit) committee 2023 (vote)*

Loes Bevers and Richard van Kranenburg are proposed to be appointed as financial control committee. There are no objections from the GMM participants and are therefore unanimously appointed.

7. *Budget 2023 (vote)*

Budget for 2023 is presented by Niels van Mossevelde (treasurer).

Board costs are increased to improve, align and streamline the NBV strategy (e.g. professionalization) and increase support to workgroups for their activities. For workgroups, there is some extra budget available compared to 2022 for the organization of activities. For Young NBV the available budget is also increased to support young biotechnologists coming together through NBV.

Vote is unanimous for the plan as drawn up and presented and approved.

7a. *Proposal membership fees 2024 (vote)*

In collaboration with the KNCV Niels van Mossevelde is showing a proposal for membership fees from 2024 onwards. This proposal is making it more favorable for young members to join NBV and makes registration easier for KNCV invoicing 'back-end'. Vote is unanimous for these adjustments in fees and approved.

8. *Election / appointment of new board members (vote)*

Maria Barbosa will leave the board after being president for 2 years. The new president will be Jan Wery, and the new intended vice president as successor is Maria Suarez Diez. There are no objections from the GMM participants and therefore Maria Suarez Diez is unanimously appointed.

Maria Barbosa is thanking the board for the inspiring years.

Jan Wery is taking over the meeting and gives a big thanks to Maria Barbosa for her contribution to the NBV as president.

9. *Plans 2023-2024*

Jan Wery gives an overview of the planned activities for this year:

- NBC-23 will take place in Corpus Leiden. Registration is open.
- BiocatNL23 (Working group Applied Biocatalysis): De Observant Amersfoort, October 20th 2023
- MB9.0 (Microbial Biotechnology working group) is scheduled for November 6th
- NBC-24/ECB-ISB-2024: Netherlands, June 30th - July 3rd 2024

10. *Any other business*

No questions.

11. *Closure*

The meeting was closed at 8:41 pm.

Working group details NBV

Latest and more detailed information about working groups visit:
<https://nbv.kncv.nl/en/werkgroepen/>

BioPharma Technology

The BioPharma Technology working group is a newly formed group, which is a split-off from the Cell & Fermentation Technology (CFT). This group is now focusing on all aspects of Biopharmaceutical Biotechnology, mainly focusing on bioprocessing of bacteria, yeast and animal cells for the production of high-quality (pharmaceutical) products. The group aims to organize a meeting once a year with speakers from both the academic and industrial fields. Topics include: bioreactor design, up and down scaling, cell line and strain development, bioprocess surveillance and control (PAT/QbD), reactor systems and the use of "omics" tools in bioprocess engineering design.



Lenneke de Winter

Contact



Thijs Gerritzen



Mathieu Streefland



Michel Eppink



Marieke Klijn



Maarten Pennings



Jort Altenburg

Food & Biobased Technology

The Food & Biobased Technology working group is a newly formed group, which is a split-off from the Cell & Fermentation Technology (CFT). This group is now focusing on all aspects of biotechnology in food production and biobased technology. The group aims to organize a meeting once a year with speakers from both the academic and industrial fields. Topics include: bioreactor design, up and down scaling, bioprocess design, reactor systems, use of side-streams and the use of "omics" tools in bioprocess engineering design.



Ruud Heshof

Contact



**Jeroen den
Hollander**



Maria Cuellar



Cees Haringa



**Iulian
Boboescu**



**Eric van de
Zilver**

Microbial Biotechnology

The working group Microbial Biotechnology is interested in how to develop and optimize existing or new biotechnological processes through design, build, test and learn cycles. This encompasses microbial physiology and applying systems and synthetic biology approaches in applications fields including industrial, environmental, medical/pharmaceutical, and agricultural biotechnology and engineering.

Synthetic Biology is defined as a field of science dedicated to (i) the design and construction of new biological parts, devices, and systems, and (ii) the re-design of existing, natural and new to nature biological systems for useful purposes.

Systems Biology focusses on unravelling and understanding complex biological systems, and typically involves modeling, exploration and integration of genomics data at various cellular levels, for example ranging from sequencing, mRNA, protein, metabolite data to imaging and text-mining.

We aim at enabling the interaction between molecular biologist, fermentation specialists, mathematicians, bioinformaticians and physicists across the Netherlands. Exchange of knowledge, software and methods is very relevant.

The working group will provide updates about new developments in this field via symposia and/or workshops.



**Sonja
Billerbeck**

Chair & contact



**Felipe Branco
dos Santos**



**Mark
Bisschops**



**Jean-Marc
Daran**



Packo Lamers



**Olga
Mosunova**



**Nico
Claassens**



Robert Stella

Applied biocatalysis

This working group mainly focuses on the field of enzyme applications: biocatalysis. A meeting (BiocatNL) is organized annually in which academic and industrial speakers present recent developments. Topics covered include enzyme discovery, enzyme engineering, and development of new (industrial) applications. These meetings are open to everyone and free for NBV members. In addition to the scientific program aimed at knowledge transfer, there is always room for interactions. The meetings are ideally suited to follow the latest developments and to familiarize yourself with the landscape of applied biocatalysis in the Netherlands. In addition to the annual BiocatNL meetings, the working group contributes to the NBC program. For questions or suggestions, please contact Marco Fraaije (m.w.fraaije@rug.nl).



Marco Fraaije

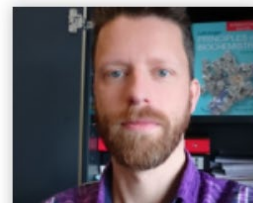
Contact



Mirjam Kabel



Caroline Paul



Dominic Heuts



**Martin
Schürmann**



Francesco Mutti

Genomics

The Genomics Working Group is interested in the applications and generation of Genomics data in biotechnological processes. The Genomics Workgroup is the youngest formation within the NBV and focuses on both the biotech industry (pharma and agriculture) and biotech & life sciences academia. The objective of the Genomics working group is to apply knowledge exchange to keep each other up to date in the rapidly developing sequencing and genotyping technologies. We do this by creating a common network of both academic and industrial members, organizing webinars and discussing societal issues such as data regulation. The focus topics that will be covered include an entire biotech workflow from sampling, DNA/RNA extractions, library preps, sequencing/genotyping but also to bio-informatics analyses and gene synthesis.

We aim to organize at least two activities per year where such topics can be discussed. We will also provide a breakout session during the annual NBC event. We look forward to meeting you to exchange knowledge.



Melvin Siliakus

Contact



**Raymond
Staals**



Taichi Ochi



Dick Roelofs



Gerben Voshol

Social aspects of the biotechnology

Ever since the unraveling of the DNA molecule by Watson and Crick, we have witnessed numerous important breakthroughs in the world of biotechnology, contributing to for instance health and sustainability. On the other hand, such developments have also occasionally stumbled upon societal resistance. Also In the 21st century developments in biotechnology are advancing a rapid speed and are likely to provoke debate. Recent years however, we have witnessed an increased awareness amongst policy makers and scientists about the importance to address societal aspects of emerging technology early on in a transparent manner. The Working Group on Societal Aspects of Biotechnology applauds this development and intends to contribute to the proper societal embedding of biotechnology in the Dutch society, by means of dialogue and communication. Against this backdrop the Working Group will be undergoing some transformation and extension.



**Britte
Bouchaut**

Contact person



Lotte Asveld

Young NBV

The board of the NBV received substantial funds from the Stichting Biotechnology Nederland to invest in the coming years in activities aimed at young biotech professionals and students to raise the number of young members (35 years and younger). Study associations at the Hanzehogeschool (Groningen), Van Hall Larenstein (Leeuwarden), Wageningen University, Delft/Leiden University and Radboud University were approached to find out how we best can get in touch with master students in biotechnology and related fields. Board members of some of the associations attended, on invitation of the board of NBV, the NBC in Ede. At the NBC, the second career workshop was organized with five experienced professionals that told about their career and gave advise on how to get the first job. The plan is to sponsor several activities of student associations in return for visibility of NBV. New, up-to-date promo material will be designed to be used to approach students and other potential new members.



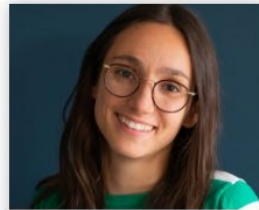
**Birgit van
Brenk**

Contact



**Susana
Pedraza de la
Cuesta**

Contact



**Maria Casals
Peralvarez**



Brenda Juarez



**Emmy
Verdiesen**

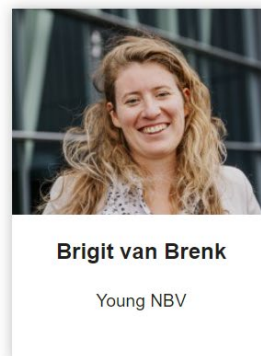
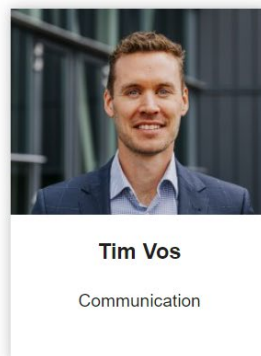
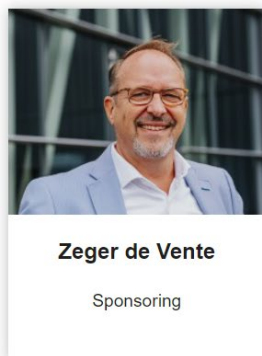
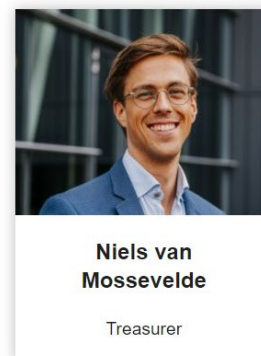
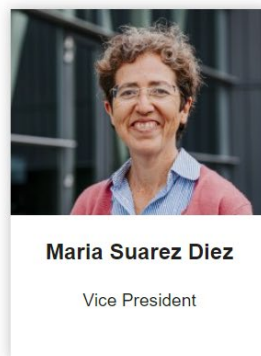
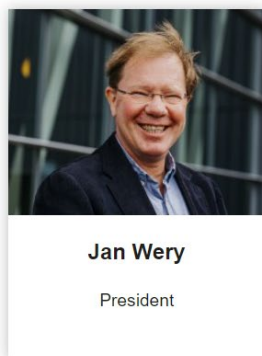
About NBV

Introduction

The Netherlands Biotechnological Society (NBV) is the professional association for applied life scientists. It is a valuable network, to more than 800 members from universities, research institutions, intermediate organizations, government and industry contribute. The NBV aims to promote the integrated application of scientific disciplines to biological systems for, amongst others, industrial processes and products, energy, pharmaceutical applications, environment and sustainability, agriculture, forensic research, food and health. Our members work in these areas.

Knowledge exchange and networking are our central activities. To promote knowledge exchange and discussion, from 2016 on we have organized the Netherlands Biotechnological Congress as a yearly event, at which excellent researchers from the whole world present state of the art research. Furthermore, we like to promote professional activities and socially responsible professional practice. We therefore formulated a professional ethic and appointed trusted representatives. Also, the NBV aims to give neutral and science based information about the aim, importance and societal meaning of biotechnology.

The NBV has 8 board members, who are shown in the picture below.



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Carlien Verberne-van de Laak

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Regulations, professional ethic, and constitution and rules

The NBV regulations, professional ethic, and constitution and rules can be found on the website:
<http://nbv.kncv.nl/nl/>.

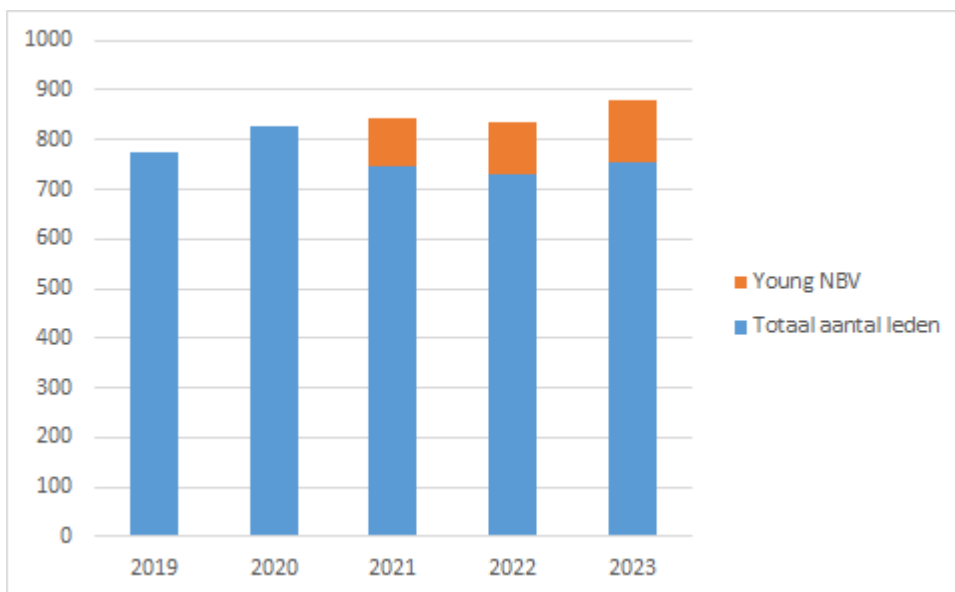
Honorary members

Honorary members of the NBV are appointed by the General Assembly Meeting, based on special merits for the society (NBV regulations, 3.5). The NBV has the following honorary members:

Prof. dr. G.M.A. van Beynum, Voorburg
Dr. Ir. M.H. (Riet) Hilhorst, Wageningen
Prof. ir. E.H. Houwink, Vught (†2005)
Prof. ir. R. Keuning, Vlaardingen
Dr. ir. N.W.F. Kossen, Pijnacker (†2016)
Dr. N.C.M. (Colja) Laane, Amsterdam
Prof. ir. K.Ch.A.M. Luyben, Delft
Prof. dr. R.A. Schilperoort, Leiden (†2012)
Prof. dr. ir. J. Tramper, Bennekom
Prof. dr. W.M. de Vos, Wageningen
F. Sijbesma, Eindhoven

Member statistics

By the end of December 2023, the NBV had 880 members. See the chart below for the number of members and Young members. The total number of members is increased compared to 2022 (837), the number of Young NBV members is increasing from 105 (2022) to 126 (2023).



Membership

The members administration is accommodated by the KNCV (Royal Dutch Chemical Society), of which the NBV is part of. You can contact the administration directly for registration or cancellation of your NBV membership:

NBV members administration
PO box 249
2260 AE, Leidschendam
T: 070-3378797
E: ledenadministratie@kncv.nl

The collection of membership-fee is also done by KNCV. Changes in personal or contact details and membership of working groups should be passed on to the members administration. This can be done by e-mail or by the form on <http://nbv.kncv.nl/nl/>.

Membership fees 2024:

Yearly membership fees of the NBV:

€ 56,-* (30 years and older)

€ 27.50* (members of up to and including 29 years old)

* Students pay only €16 per year for the first three years (provided they are still a student, not a PhD student).

Membership for members of the KNCV is €30.

Membership for honorary members and yearly sponsors (donateurs) is free.

Financial year report 2023

1. Account balances 2023 and 2022

An overview of the account balances of 2023 and 2022 are given in Figure 1. The equity capital of the NBV decreased in 2023 with € 5,989.86 from € 154,921.08 to €148,931.22 (total account balance of Dec 2022 minus the total account balance of Dec 2023, Figure 1). In the year before, there was an increase of €2,879.32. The reasons behind the decrease in equity capital are explained in the next paragraph 'budget and profit and loss statement 2023'. The equity capital of the NBV includes the SBN heritage of 2013 which is dedicated to empowering the young-NBV under the description 'reservation activities Young NBV'.

Final balance 2023				
description	amount		description	amount
checking accounts	€ 24,183.73		creditors	€ -
savings accounts	€ 124,747.49		reservation NBC organisation	€ 80,000.00
debtors (KNCV/SBN)	€ -		reservation activiteiten Young NBV	€ 25,359.06
			Equity	€ 43,572.16
	€ 148,931.22			€ 148,931.22

Final balance 2022				
description	amount		description	amount
checking accounts	€ 11,311.73		creditors	-
savings accounts	€ 143,609.35		reservation NBC organisation	€ 80,000.00
debtors (KNCV/SBN)			reservation activiteiten Young NBV	€ 29,820.75
			reservation organisation NBC23	€ 10,000.00
			Equity	€ 35,100.33
	€ 154,921.08			€ 154,921.08

Figure 1. Account balances in 2023 and 2022.

2. Budget and profit and loss statement 2023

Figure 2 shows the budget for 2023, made by the board and approved by the ALV, and an overview of the profit and loss statement in 2023. The paragraphs on the next page below give explanations per category and compare the budget with the real costs/benefits.

Budget 2023			
description expenses	amount	description income	amount
Board costs	€ 2,000.00	Donations	€ -
Administration	€ 1,500.00	Membership fees	€ 22,000.00
C2W Life Sciences	€ 17,500.00	Interest	€ 500.00
Workgroup activities	€ 10,000.00	From reserve	€ 23,500.00
Young NBV	€ 5,000.00		
NBC2023	€ 10,000.00		
Other			
total	€ 46,000.00	total	€ 46,000.00

Profit and loss statement 2023			
description expenditure	amount	description income	amount
Board costs	€ 2,125.55	NBC-22	€ 1,944.68
Administration	€ 1,766.04	Member's fees	€ 22,316.08
C2W Life Sciences	€ 17,698.09	Interest	€ 1,138.14
Young NBV	€ 4,461.69		
Workgroups	€ 5,337.39		
Total	€ 31,388.76	Total	€ 25,398.90
		from reserve	€ -5,989.86

Figure 2. Overview of both the 'Budget 2023' and 'Profit and loss statement 2023'.

2.1 Expenses/costs

Board costs

Contains all expenses for the NBV strategy day 2023 and the live board meeting in Utrecht.

Administration

Costs of both bank accounts, the insurance of the board, the website costs and the EFB membership.

C2W Life Sciences

The NBV pays for the C2W subscription for the all the non-KNCV members. These costs are covered and were according to the budget.

Workgroup activities

The costs of the workgroup activities in 2023 are the accumulation of all the organized symposia by the working groups: MB9.0, Biopharma event, Genomics event, F&B event and BiocatNL.

Activities Young NBV

This year there were mostly costs associated to the sponsorship of study associations and some unpaid bills from 2022) and yNBV event.

2.2 Income/benefits

NBC-23

The total income from the NBC-23 was a combination of the income from NBC-22 (paid in Feb '23) and the costs associated to the NBC-23.

Contribution

The received contributions were slightly lower than budgeted.

Interest

Interest is again stated as an income on the profit and loss statement.

3. Approval of the financial report

This financial report was finalized on 08-05-2024 and has been approved by the financial control committee.

4. Budget 2024

The proposed budget for 2024 is based on the budget of 2023 with the exception that there is no NBC activity in 2024 but we co-organize the ECB. To give our members and valued sponsors something in return we will host an 'NBV Social event' with dinner. At the ECB we will be present with a booth and will contribute some budget for promotion of the event in the C2W.

5. Workgroup activities and activities for young members

The NBV encourages the organization of events by workgroups including young NBV. Workgroups can apply for financial support for the organization of such events. The board will request a budget and a plan before approval. The budget reserved for the activities for young members includes the discount for young participants to NBV events, sponsoring of biotechnology student associations, and financial support to activities especially for this target group. These activities are paid with the SBN budget marked in the account balance sheet as 'Young NBV'. This year we raised the budget for the yNBV slightly to be able to hand out 8 ECB congress tickets to BSc and MSc students who can present their thesis at the ECB.

Budget 2024				
description expenses	amount		description income	amount
Board costs	€ 2,000.00		Membership fees	€ 23,000.00
Administration	€ 2,000.00		Interest	€ 1,700.00
C2W Life Sciences	€ 17,500.00		From reserve	€ 26,800.00
Workgroup activities	€ 10,000.00			
Young NBV	€ 7,500.00			
ECB - NBV social event	€ 10,000.00			
ECB - other costs	€ 2,500.00			
totaal	€ 51,500.00		totaal	€ 51,500.00

Figure 3. The proposed budget for 2024.

6. Sponsor opportunities

In 2024 and 2025 the NBV working groups will organize multiple activities where dedicated sponsorships are possible. For more details we refer to the responsible workgroup leaders.

The NBV yearly congress 2024 is pleased to host world's two longest running biotechnology Congresses, ECB2024 and IBS2024, at their annual meeting, NBC-24, for sponsoring this congress we outsourced this TFI lodestar registration.ecb@tfilodestar.com.

Sponsor packages for 2025 will be worked out soon. The package as communicated for our already held congress NBV23 you can find below.

"NBC 2023"

NBC NBV

28th of September 2023

Corpus Congress Centre

Leiden, The Netherlands

SPONSOR PACKAGES NBC-23

A DETAILED OVERVIEW OF ITEMS AVAILABLE TO BE SPONSORED

Booth on Exhibition NBC-23	(1 pass)	€ 2500
Dimensions available floor space per booth	(2 passes)	€ 2800
Included in booth rental price:		
<ul style="list-style-type: none"> • Electricity (220V) • Power current (on request) • 1 table 140x70cm and 2 chairs (extra for a small additional fee) • One (1) or 2 (see price) exhibitor pass per booth, Inclusive: coffee/tea and lunch/diner • NEW NEWSLETTER update from a novel product or service (for more details see attached letter) 		

Rental period: 28th of September 2023

Setting-up the booth on the 28th of September from 8.00h-9.00h (indication) Dismantling the booth on the 28th of September from 19:00 hrs (indication). There is standard security provided on the premises. Loss and damage of your belongings are at your own risk.

Keynote speaker **€ 290**

There are 3 invited keynote speakers. The name of the sponsors will be listed in the Conference Programme and with the session of the keynotes. In the main congress room where the session will take place, the name of the sponsor will be visible.

Parallel Sessions **included**

The name of the sponsor will be listed in the Conference Programme and with the session of your choice. In the room where the session will take place, the name of the sponsor will be placed on a billboard or banner.

Sponsored Poster award **€ 750**

This item can be sponsored by one company only. As a sponsor your company name and photo will be shared during rewarding the best poster presentation.

Sponsored presentation **€ 950**

This item can be sponsored per parallel session by one company only. As a sponsor you can schedule a presentation of a company where your product or application is mentioned. The company should be introduced to the organization latest end of May 2022 so we can prepare the parallel sessions and review the topic.

Sponsored Lanyards **€ 200**

This item can be sponsored for only one sponsor and have to provide 200 lanyards. We handle this item as "first come first serve"