

Fall symposium

40 YEARS Bio-Pharmaceutical Sciences Celebration 40 years innovation

40 years BPS

Prof. dr. Douwe D. Breimer
(founder)

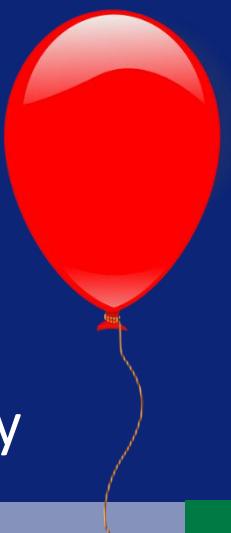


LACDR



40 years

BIO-PHARMACEUTICAL SCIENCES (BPS)



Douwe D. Breimer, PhD, DSc
(Em) Professor of Pharmacology (since 1975)
Past Scientific Director of LACDR
Past Rector Magnificus & President of Leiden University

Fall Symposium LACDR, November 28th, 2024



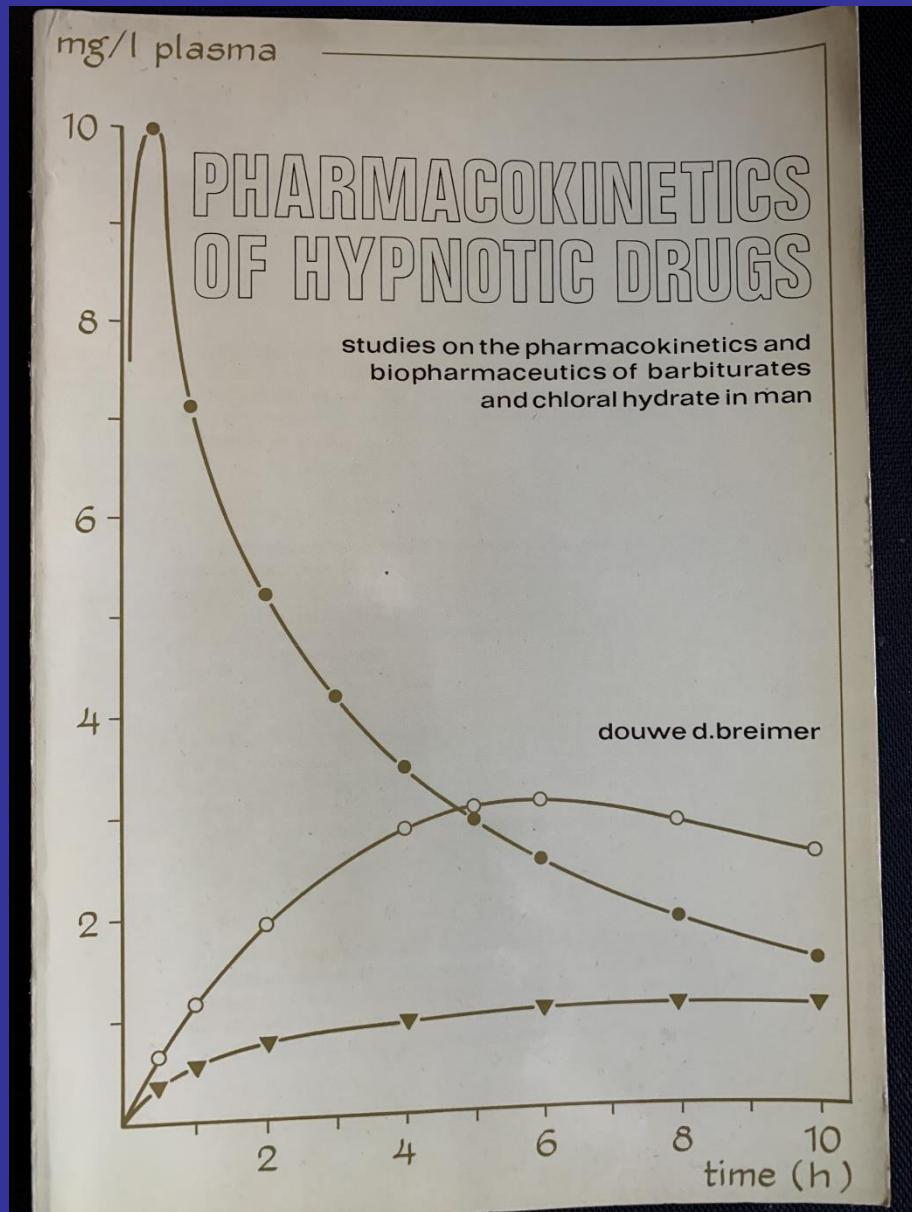
Universiteit Leiden

LACDR

Universiteit Leiden. Universiteit om te ontdekken.



Pharmacy
University of Groningen
1962-1970



PhD at the University of Nijmegen
1970-1974

1975 →

*Besluit van
14 april 1975
nr. 22
houdende benoeming van
dr. D.D. Breimer tot ge-
woon hoogleraar aan de
rijksuniversiteit te
Leiden.*

Wij Juliana, bij de gratie Gods,
Koningin der Nederlanden,
Prinses van Oranje-Nassau, enz, enz, enz,

Op de voordracht van de staatssecretaris van onderwijs en wetenschappen, dr. G. Klein, van 4 april 1975, nr. 261669, Directoraat-Generaal voor het wetenschappelijk onderwijs;

Gelet op de Wet op het wetenschappelijk onderwijs en op de Wet universitaire bestuurshervorming 1970;

HEBBEN GOEDGEVONDEN EN VERSTAAN:

met ingang van de dag waarop hij zijn ambt zal aanvaarden te benoemen tot gewoon hoogleraar in de faculteit der wiskunde en natuurwetenschappen aan de rijksuniversiteit te Leiden om werkzaam te zijn op het vakgebied van de farmacologie:

dr. Douwe Durk Breimer,
geboren 24 november 1943 te Oudemirdum, thans houder van een onderwijsopdracht aan de rijksuniversiteit te Leiden.
Onze minister van onderwijs en wetenschappen is belast met de uitvoering van dit besluit, waarvan afschrift zal worden gezonden aan de Algemene Rekenkamer.

Soestdijk, 14 april 1975
(get.) JULIANA

De staatssecretaris van
onderwijs en wetenschappen,
(get.) G.Klein

Voor afschrift,
de chef Secretarie,
(Signature)
(D.E. Boon)



Oratie in het Groot Auditorium van het
Academiegebouw in Leiden op 29 oktober 1976

< Koninklijk Besluit van 14 april 1975 van de benoeming
tot gewoon hoogleraar in de farmacologie aan de
Rijksuniversiteit Leiden. Het ambt werd aanvaard
op 1 mei 1975.

Subfaculty of Pharmacy in 1975

(major emphasis on the drug product)

- pharmacochemistry
- pharmaceutical technology/dispensing
- analytical chemistry/quality control
- pharmacognosy/medicinal plants

- New: pharmacology and therapeutics
 → drug action and use

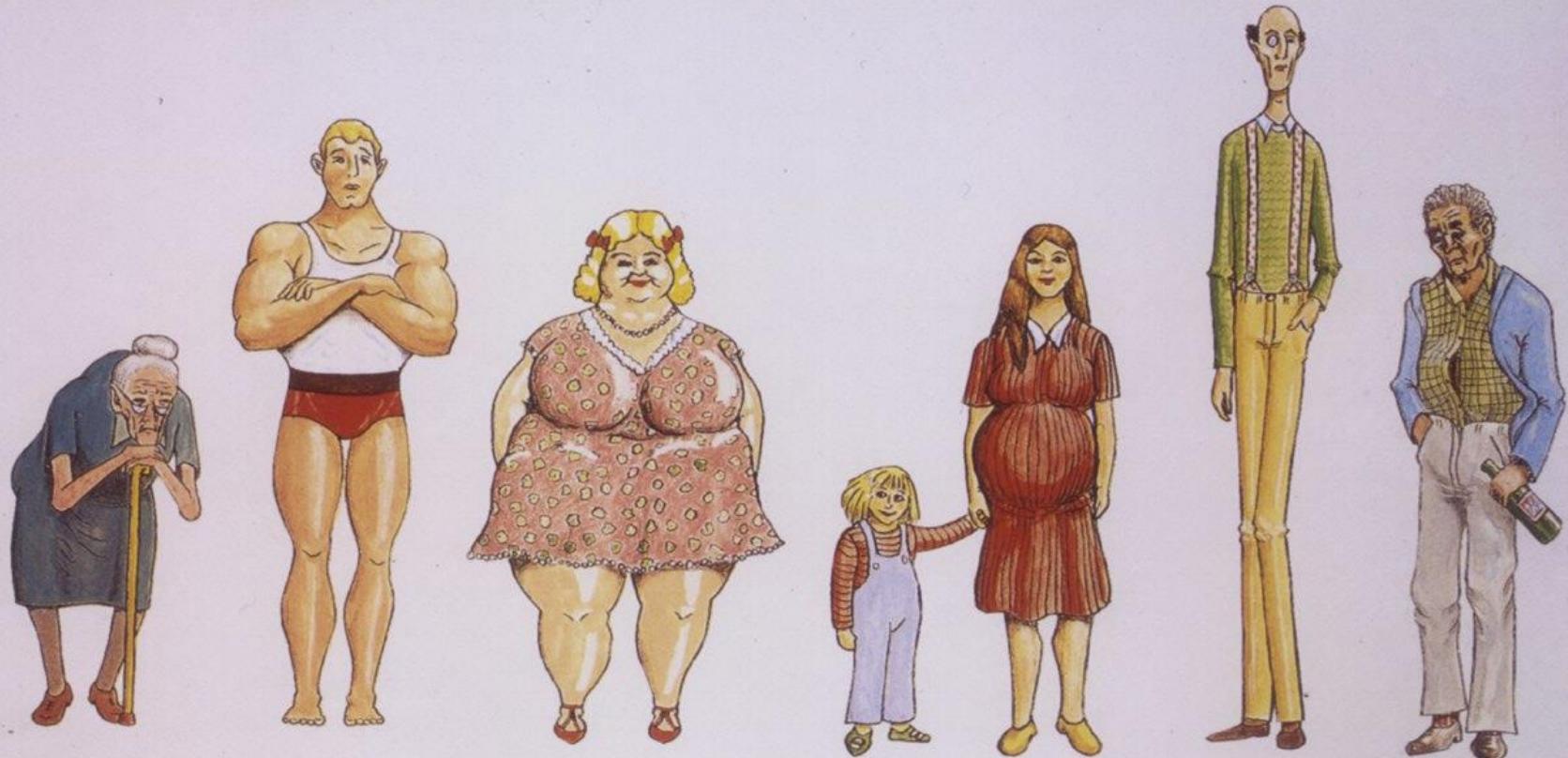
DR. D. D. BREIMER

FARMACOTHERAPIE
OP MAAT



UNIVERSITAIRE PERS LEIDEN

Leiden University
Inaugural Lecture 1976



1983: Major budget cuts for universities by the government

- Leiden and Amsterdam had to stop (close down) pharmacy

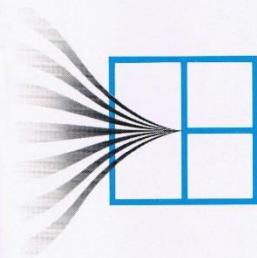
(in Dutch: de beruchte **TVC-operatie**:
Taak Verdeling en Concentratie van opleidingen en onderzoek)

Sunday, June 19th 1983 (Father's Day)

- Meeting in the private garden of the Dir General of the Ministry to negotiate a transition in Leiden into a new and innovative *Center for Bio-Pharmaceutical Sciences* (BPS) (two days later agreement between Minister Deetman and Leiden University)

a stunning start!

PROFILE OF A NEW CENTER FOR MULTIDISCIPLINARY DRUG RESEARCH



Center for Bio-Pharmaceutical Sciences
Leiden University, The Netherlands

Mission of BPS 1984

- To conduct innovative multidisciplinary drug research
 - To organize an innovative teaching programme into which all relevant disciplines for drug research are integrated
 - To organize a graduate programme leading into a PhD degree
 - To organize international courses and symposia relevant to innovative drug research
- To stimulate and support collaboration with the pharmaceutical industry

Inauguration Symposium February 1985:

“ Bio-Pharmaceutical Sciences:
Towards a University/Industry Partnership”
Chaired by Prof. Dr. A.A.H. Kassenaar, Rector Magnificus



BPS – Seven disciplines - 1984

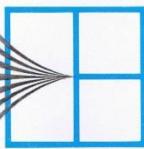
- Medicinal chemistry (Prof. Willem Soudijn)
- Pharmacology (Prof. Douwe Breimer)
- Toxicology (Prof. Gerard Mulder)
- Biopharmaceutics (Prof. Theo van Berkel)
- Pharmaceutical Technology (Prof. Hans Junginger)
- Bioanalytical chemistry (Prof. Jan van der Greef)
- Plant cell biotechnology (Prof. Rob Verpoorte)

Total budget: 5 Mio guilders (2.3 Mio Euros)

Each discipline: 1 professor, 2 U(h)d's, 4 PhD's, 2 technicians

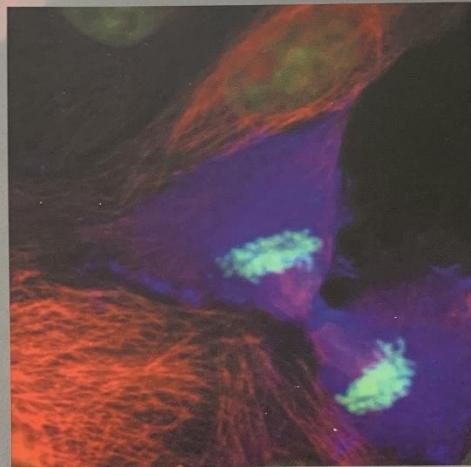
PROGRESS REPORT

1984-1985

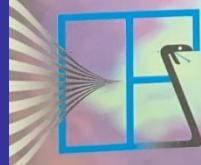


Center for Bio-Pharmaceutical Sciences
Leiden University, The Netherlands

PROGRESS REPORT



1998



Leiden/Amsterdam
Center for Drug Research

Universiteit Leiden/Vrije Universiteit Amsterdam

Start of the teaching programme BPS in 1985

- Entrance only with a propaedeuse in chemistry, biology or pharmacy (from Groningen or Utrecht)
 - 6 in 1985
 - 17 in 1986
 - 27 in 1987 etc
- In 1994 permission to also start with a first year programme
 - 47 in 1995
 - 57 in 1996 etc
- In 2002 the Bachelor/Master system was introduced
 - 36 in 2002
 - 110 in 2009
 - 214 in 2014 (plus 80 masters)
 - 416 in 2020 (plus 126 masters)
 - 255 in 2024 (plus 128 masters)

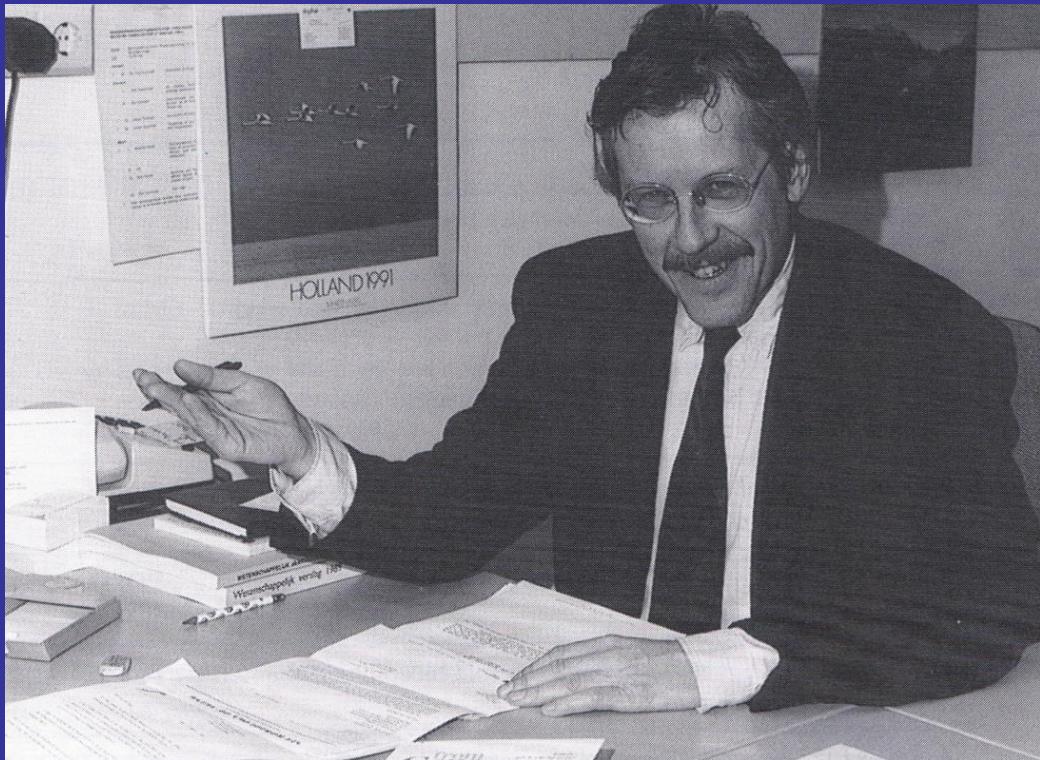
1987 Center for Human Drug Research



Prof. Adam Cohen
(Clinical pharmacology)
Independent Foundation

1989 Medical Pharmacology (Faculty of Medicine/LUMC)

incorporated into the Center for Bio-Pharmaceutical Sciences (BPS) → Prof. Ron de Kloet



1990 Leiden/Amsterdam Center for Drug Research (LACDR)

Interuniversitaire Onderzoekschool
(erkenning door de KNAW in 1992)



Center for Bio-Pharmaceutical Sciences
Leiden University, The Netherlands



Leiden / Amsterdam
Center for Drug Research

Universiteit Leiden/Vrije Universiteit Amsterdam

L A C D R

NEWSLETTER

Leiden

Amsterdam

Center for

Drug

Research

Douwe Breimer (Leiden) and Henk Timmerman (Amsterdam):

“We are broadening our expertise to all pharmaceutical disciplines”

“The research efforts of the groups in Leiden and Amsterdam are fully complementary. That's why we are so eager to cooperate”, says dr. Douwe Breimer, professor of Pharmacology at the Center for Bio-Pharmaceutical Sciences (Cbps) of Leiden University. Breimer is director of the recently founded Leiden/Amsterdam Center for Drug Research (LACDR), a joint-venture of the cbps and the Department of Medicinal Chemistry at the Free University in Amsterdam. From now on, the two institutes form one fully integrated research institute.

Dr. Henk Timmerman, co-director of LACDR and professor of Pharmacochemistry at the Free University in Amsterdam, underlines the reasons for setting up this joint-venture: “Although the Center for Bio-Pharmaceutical Sciences in



LACDR now officially Research School

On September 27, the Royal Dutch Academy of Arts and Science officially announced the recognition of the Leiden/Amsterdam Center for Drug Research (LACDR) as one of the research schools in the Netherlands. Only a limited number of institutes is eligible for this status.

LACDR is a joint venture of the Center for Bio-Pharmaceutical Sciences of Leiden University, and the Department of Medicinal Chemistry of Amsterdam's Free University. In 1991, the universities decided to join forces to form one coherent drug research and Ph.D. training program. It combines the efforts of over 100 researchers (from full professors to research technicians) and 75 Ph.D. students. All aspects of modern-day drug research—from drug design and synthesis to evaluation of drug effects—are studied within the inter-university institute. Volunteer studies are carried out in the Center for Human Drug Research, established in 1987 by a joint venture of the Center for Bio-Pharmaceutical Sciences and Leiden University Hospital.

Translational Drug Research and Development

Leiden/Amsterdam Center
for Drug Research



Centre for Human
Drug Research



Leiden University
Medical Center





1992 Founding **ULLA** with 4 partners: Uppsala, Leiden, London, Amsterdam

Mission: - collaboration in (post)graduate training in the pharmaceutical sciences in summer schools (Leiden 2024!)
- exchange of staff, students and expertise
- research collaboration

2024 10 partners: Uppsala, Leiden, London, Amsterdam, Copenhagen,
Paris, Parma, Leuven, Helsinki, Geneva

From single disciplines to multidisciplinary themes and teams

- Pharmacology: Mechanism and system based PK/PD in disease models
- Toxicology: Signaling networks in cytotoxicity and cancer progression
- Medicinal chemistry: Drug design and bioinformatics at G-Protein coupled receptors
- Biopharmaceutics: Therapeutic gene modulation in cardiovascular disease
- Drug Delivery Technology: targeting for circumventing the immune system
- Analytical Biosciences: System-based metabolomics

LACDR Divisions 2024



13 full professors

22 Ass/Assoc professors

20 PI's

approx. 150 PhD students

Total budget 26 Mi Euros

Comparison:

1984: 7 Full professors

14 Ass/Assoc professors

28 PhD students

Total budget: 2.3 Mi Euros

2004: 10 Full professors

22 Ass/Assoc professor

approx 90 PhD students

Total budget: 13 Mi Euros

Master BPS alumni at LBSP

- ▶ 17% of our alumni find a job at a LBSP company (Faculty-wide 7%)

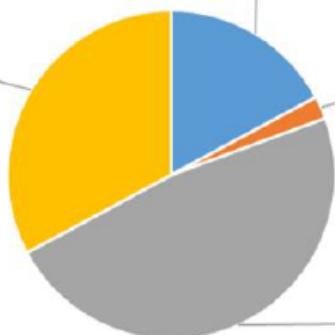
BPS alumni

(n=134)

Job at company
LBSP
17%

Studying
(for PhD)

33%



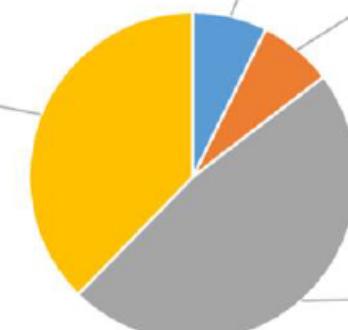
Faculty of Science alumni

(n=587)

Job at company
LBSP
7%

Studying
(for PhD)

38%



Source: alumni office Faculty of Science (graduates 2017-2021)

40 years BPS:

**a success story through excellence and
continuous innovation in research and education**

Thanks to all the people who have worked and studied at
BPS/LACDR

scientific and professional staff
students (Aesculapius!)
guided by the scientific directors

Gerard Mulder

Meindert Danhof

Piet (Hein) van der Graaf

Hubertus Irth

Miranda van Eck

Motto's

Sizzen is neat mar dwaen is in ding

Think global but act local

Le hazard ne favorise que les esprits préparés

(Louis Pasteur)

Most people see things as they are, and ask why.....

I dream things that never were, and ask why not....

(Robert Kennedy)



“From a Frisian Farm.....to.....

Universiteit Leiden. Universiteit om te ontdekken

*.....an Academic
Christmas Tree...."*

