

NCCR RNA and Disease

Editorial

Olivier Mühlemann

University of Berne
Departement Chemie und Biochemie

Frédéric H.-T. Allain

ETH Zürich
Department of Biology
Institute of Molecular Biology and Biophysics

Extracellular Vesicles and their miRNA Cargo: A Means of Communication between Soma and Germline in the Mammalian Reproductive System

*Emmanuelle Maciel^a, Isabelle Mansuy**

*Correspondence: Prof. I. M. Mansuy, E-mail: mansuy@hifo.uzh.ch

Laboratory of Neuroepigenetics
University and ETH Zürich
Irchel Campus
Winterthurerstrasse 190, CH-8057 Zürich, Switzerland

^aÉcole Normale Supérieure de Lyon, Université Claude Bernard Lyon I,
Université de Lyon
69342 Lyon Cedex 07, France

The Diversity of Plant Small RNAs Silencing Mechanisms

*Jens A. Schröder and Pauline E. Jullien**

*Correspondence: Prof. P. E. Jullien, E-mail: pauline.jullien@ips.unibe.ch
University of Bern
Institute of Plant Sciences
Altenbergrain 21, CH-3013 Bern, Switzerland

RNA Chemistry for RNA Biology

*Pascal Röthlisberger, Christian Berk, Jonathan Hall**

*Correspondence: Prof. J. Hall, E-mail: jonathan.hall@pharma.ethz.ch
ETH Zürich
Institute of Pharmaceutical Science (IPW)
Vladimir-Prelog-Weg 1-5/10, CH-8093 Zürich, Switzerland

The Role of Stress Granules and the Nonsense-mediated mRNA Decay Pathway in Antiviral Defence

Lara Contu, Silvio Steiner, Volker Thiel^{1}, Oliver Mühlemann^{2*}*

*Correspondence: Prof. V. Thiel, Prof. O. Mühlemann
E-mail: volker.thiel@vetsuisse.unibe.ch; oliver.muehlemann@dcb.unibe.ch

¹University of Bern,
Institute of Virology und Immunology
Länggassstrasse 122, CH-3012 Bern, Switzerland

²Universität Bern
Departement Chemie und Biochemie
Freiestrasse 3, CH-3012 Bern, Switzerland

Design of *in vitro* Transcribed mRNA Vectors for Research and Therapy

Marina Tusup^{1,2}, Lars E French^{1,2}, Mara De Matos³, David Gatfield³, Thomas Kundig^{1,2}, and Steve Pascolo^{1,2}*

*Correspondence: Dr. S. Pascolo, E-mail: steve.pascolo@usz.ch

¹University Hospital of Zürich
Department of Dermatology
Gloriastrasse 31, CH-8091 Zürich, Switzerland

²Faculty of Medicine
University of Zurich, Zurich, Switzerland

³Center for Integrative Genomics
University of Lausanne
Genopode, CH-1015 Lausanne, Switzerland.

tRNA Biology in Trypanosomes

Shikha Shikha^{a,b}, Rebecca Brogli^{a,b}, André Schneider^{a,} and Norbert Polacek^{a,*}*

**Correspondence:* Prof. A. Schneider, Prof. N. Polacek

E-mail: andre.schneider@dcb.unibe.ch, norbert.polacek@dcb.unibe.ch

^aDepartment of Chemistry and Biochemistry

University of Bern

Freiestrasse 3, CH-3012 Bern, Switzerland

^b Graduate School for Cellular and Biomedical Sciences

University of Bern

CH-3012 Bern, Switzerland.

A Step-by-step Guide to Study Protein-RNA Interactions

Antoine Cléry^{1,2,}, Laurent Gillioz¹, Cristina K.X. Nguyen¹ and Frédéric H.-T. Allain^{1,*}*

**Correspondence:* Dr. A. Cléry, Prof. F. H.-T. Allain

E-mail: aclery@mol.biol.ethz.ch; allain@mol.biol.ethz.ch

¹Department of Biology

Institute of Molecular Biology and Biophysics

ETH Zurich

Hönggerbergring 64, CH-8093 Zurich, Switzerland

²Biomolecular NMR spectroscopy platform

ETH Zurich, Zurich, Switzerland

Note

Development of a DNA Based Assay to Detect and Quantify Tropane Alkaloids Producing Thorn Apple Contaminations in Processed Food

Anna Weston¹, Peter Brodmann², Maximilian Wiedmer¹, Julian Bartel¹ and Eric Kübler^{1,}*

**Correspondence:* Prof. Dr. E. Kübler, E-mail: eric.kuebler@fhnw.ch

¹University of Applied Sciences and Arts, Northwestern Switzerland

Institute of Chemistry and Bioanalytics

CH-4132 Muttenz

²Volkswirtschafts- und Gesundheitsdirektion

Amt für Lebensmittelsicherheit und Veterinärwesen, CH-4410 Liestal

Columns

SWISS SCIENCE CONCENTRATES

*Yann Baumgartner, Nadja Niggli, David Savary, Pierre Thesmar, Olivier Baudoin**

**Correspondence:* Prof. Dr. O. Baudoin
Department of Chemistry
University of Basel
St. Johanns-Ring 19, CH-4056 Basel, Switzerland
E-mail: olivier.baudoin@unibas.ch

HIGHLIGHTS OF ANALYTICAL SCIENCES IN SWITZERLAND

A Generic Approach for High-throughput Blood Analysis

*Sophie Bravo-Veyrat and Gérard Hopfgartner**

**Correspondence:* Prof. Dr. G. Hopfgartner, E-mail: gerard.hopfgartner@unige.ch
University of Geneva
Life Sciences Mass Spectrometry
Department of Inorganic and Analytical Chemistry
24 Quai Ernest-Ansermet, CH-1211 Genève 4, Switzerland

MEDICINAL CHEMISTRY AND CHEMICAL BIOLOGY HIGHLIGHTS

Organic Fluorine: The Mighty Mite

Klaus Müller

Correspondence: Prof. (emer.) Dr. K. Müller
E-mail: klaus.mueller@org.chem.ethz.ch
Laboratory of Organic Chemistry
ETH Zürich
CH-8093 Zürich, Switzerland

CHEMICAL EDUCATION

Nature's Chemical Weapons: Beetle Defenses

Catherine E. Housecroft

Correspondence: Prof. Dr. C. E. Housecroft

E-mail: catherine.housecroft@unibas.ch

Department of Chemistry

University of Basel

Mattenstrasse 24a, CH-4058 Basel, Switzerland

Community News

SC | NAT

Swiss Chemical Society News

Honors and Awards

Journal News

Industrial News

News from Member Societies

Events

SCS Conferences and Symposia

Non-SCS Conferences in Switzerland

SCS Lectureships

Lectures

Education Courses

CHIMIA-Report / Company News

Markt

Apparate

Chemikalien

Firmenportraits

Dienstleistungen