

List of publications on organofluorine compounds

Beat Weidmann, Leo Widler, Alan G. Olivero, Christopher D. Maycock, Dieter Seebach

Selectivities in the Reactions of Alkyl-, Aryl- and Heterosubstituted Organotitanium Compounds

Helv. Chim. Acta **64**, 357 - 361 (1981)

Carmen Nájera, Miguel Yus, Robert Hässig, Dieter Seebach

Fluoro(phenylsulfinyl)methylolithium. Note on the ^{13}C -NMR Spectrum of a Fluorocarbenoid

Helv. Chim. Acta **67**, 1100 - 1103 (1984)

Dieter Seebach, Philippe Renaud, W. Bernd Schweizer, Max F. Züger, Marie-Josèphe-Brienne

Preparation by Yeast Reduction and Determination of the Sense of Chirality of Enantiomerically Pure Ethyl (-)-4,4,4-Trichloro-3-hydroxy- and (+)- 4,4,4-Trifluoro-3-hydroxybutanoate

Helv. Chim. Acta **67**, 1843 - 1853 (1984)

Dieter Seebach, Albert K. Beck, Silvio Roggo, Anne Wonnacott

Enantioselektive Addition von Arylgruppen an aromatische Aldehyde mit Aryltitan-Binaphthol-Derivaten

Chem. Ber. **118**, 3673 - 3682 (1985)

Dieter Seebach, Philippe Renaud

Chirale Synthesebausteine durch Kolbe-Elektrolyse enantiomerenreiner β -Hydroxy-carbonsäurederivate. (*R*)- und (*S*)-Methyl- sowie (*R*)-Trifluormethyl- γ -butyrolactone und - δ -valerolactone

Helv. Chim. Acta **68**, 2342 - 2349 (1985)

Dieter Seebach, Giorgio Calderari, Paul Knochel

Trifluoroacetoxy-phenylselenation of nitroolefins.

Regioselective preparation of nitroallylic alcohol derivatives and their use as multiple coupling reagents

Tetrahedron **41**, 4861 - 4872 (1985) [Tetrahedron Symposia-in-Print No. **23** on "Recent Aspects of Organoselenium Chemistry"]

Dieter Seebach, Albert K. Beck, Philippe Renaud

Di- und trifluorsubstituierte Dilithium Verbindungen für die Organische Synthese

Di- and Trifluoro-Substituted Dilithium Compounds for Organic Syntheses

Angew. Chem. **98**, 96 - 97 (1986)

Angew. Chem. Int. Ed. Engl. **25**, 98 - 99 (1986)

Robert Fitzi, Dieter Seebach

Resolution and Use in α -Amino Acid Synthesis of Imidazolidinone Glycine Derivatives

Tetrahedron **44**, 5277 - 5292 (1988)

[Tetrahedron Symposia-in-Print No. **33** on " α -Amino Acid Synthesis"]

Dieter Seebach, Edward Dziadulewicz, Linda Behrendt, Sergio Cantoreggi, Robert Fitzi

Synthesis of Nonproteinogenic (*R*)- or (*S*)-Amino Acids.

Analogues of Phenylalanine, Isotopically Labelled and Cyclic Amino Acids from *tert*-Butyl 2-(*tert*-Butyl)-3-methyl-4-oxo-1-imidazolidinecarboxylate (Boc-BMI)
Liebigs Ann. Chem. **1989**, 1215 - 1232

Mária Acs, Christoph von dem Bussche, Dieter Seebach

An Efficient Method of Preparing (*R*)- and (*S*)-4,4,4-Trifluoro-3-hydroxybutanoic Acid: Resolution with (*R*)- or (*S*)-1-Phenylethylamine
Chimia **44**, 90 - 92 (1990)

Albert K. Beck, Markus Gautschi, Dieter Seebach

Die Geschichte einer Acetalisierung und die überraschende Dimerisierung eines 1,3-Dioxan-4-ons zu einem Zwölfring [2-(*tert*-Butyl)-6-(trifluoromethyl)-1,3-dioxan-4-on und 2,8-D(*tert*-butyl)-6,12-bis(trifluoromethyl)-1,3,7,9-tetraoxacyclodecan-4,10-dion aus *rac*-, (*R*)- und (*S*)-4,4,4-Trifluoro-3-hydroxybutansäure und Pivalaldehyd]

Chimia **44**, 291 - 295 (1990)

*Dieter Seebach

Organische Synthese - wohin?

Organic Synthesis - Where now?

Angew. Chem. **102**, 1363 - 1409 (1990)

Angew. Chem. Int. Ed. Engl. **29**, 1320 - 1367 (1990)

Denis Blaser, Dieter Seebach

Benzyl (*R*)- and (*S*)-2-*tert*-Butyl-5-oxo-oxazolidine-3-carboxylate for Convenient Preparation of D- and L-Threonine Analogs from Aldehydes

Liebigs Ann. Chem. **1991**, 1067 - 1078

Albert K. Beck, Dieter Seebach

Aldol- und Michael-Additionen fluorierter Nitroalkane an Aldehyde, Ketone und α,β -ungesättigte Carbonylverbindungen

Chem. Ber. **124**, 2897 - 2911 (1991)

Christoph von dem Bussche-Hünnefeld, Dieter Seebach

Herstellung und Umsetzungen von (*R,R*)- und (*S,S*)-3-Trifluormethyloxiran-2-carbonsäure-ethylester, einem vielseitigen, leicht zugänglichen CF₃-haltigen Synthesebaustein

Chem. Ber. **125**, 1273 - 1281 (1992)

Markus Gautschi, Dieter Seebach

**Herstellung von (*R*)- und (*S*)-2-*tert*-Butyl-6-trifluormethyl-1,3-dioxin-4-on,
Umsetzungen zu 3-Hydroxy-3-trifluormethylalkanoaten und überraschende
Reaktivitätsunterschiede zwischen CH₃- und CF₃-substituierten Verbindungen
Synthesis of (*R*)- and (*S*)-2-*tert*-Butyl-6-trifluoro-methyl-1,3-dioxin-4-ones,
Transformations into 3-Hydroxy-3-(trifluoromethyl)alkanoates, and Surprising
Differences in the Reactivity of CH₃- and CF₃-Substituted Compounds**

Angew. Chem. **104**, 1061 - 1062 (1992)

Angew. Chem. Int. Ed. Engl. **31**, 1083 - 1085 (1992)

Christoph von dem Bussche-Hünnefeld, Claudio Cescato, Dieter Seebach

**Ergiebige Herstellung von (*R*)- und (*S*)-3,3,3-Trifluormilchsäure und von (*R*)- und
(*S*)-(Trifluormethyl)oxiran**

Chem. Ber. **125**, 2795 - 2802 (1992)

Jean-Marc Lapierre, Markus Gautschi, Guy Greiveldinger, Dieter Seebach

**Reaction of 6-(CF₃)- and 6-(CH₃)-2-(*tert*-Butyl)-1,3-dioxan-4-one Li Enolate with
Two Equivalents of an Aldehyde - Unusual Reorganizations of Aldolates**

Chem. Ber. **126**, 2739 - 2746 (1993)

Markus Gautschi, W. Bernd Schweizer, Dieter Seebach

**In 2- und 3-Stellung verzweigte, enantiomerenreine 4,4,4-Trifluor-3-hydroxy-
buttersäure-Derivate aus 6-Trifluormethyl-1,3-dioxan- und -dioxin-4-onen**

Chem. Ber. **127**, 565 - 579 (1994)

Roger E. Marti, Josef Heinzer, Dieter Seebach

**Preparation and Reactions of Silyl Nitronates Derived from 2,2,2-Tri-
fluoronitroethane. Diastereoselective Synthesis of Trifluoromethyl-Substituted
Aminoethanols and -propanols**

Liebigs Ann. **1995**, 1193 – 1215

Andrea R. Sting, Dieter Seebach

Synthesis of (2R,3S)- or (2S,3R)-2-Amino-3-trifluoromethyl-3-hydroxyalkanoic Acid Derivatives (Threonine and *allo*-Threonine Analogs) from Enantiopure 4,4,4-Trifluoro-3-hydroxybutanoic Acid

Tetrahedron **52**, 279 - 290 (1996) [Tetrahedron Symposia-in-Print No. **58** on "Fluoroorganic Chemistry: Synthetic Challenges and Biomedicinal Rewards"]

Stephan P. Götzö, Dieter Seebach

Preparation of (R)- and (S)-3-Hydroxy-2-(trifluoromethyl)propionic Acid by Resolution with (R,R)- and (S,S)-2-Amino-1-phenylpropane-1,3-diol

Chimia **50**, 20 - 23 (1996)

Guy Greiveldinger, Dieter Seebach

Second-Generation Trifluoromethyl-Substituted Chiral Dendrimers Containing Triply Branched Building Blocks: CF₃ as Sensitive NMR Probe for 'Remote' Diastereotopicity

Helv. Chim. Acta **81**, 1003 - 1022 (1998)

Stephan P. Götzö, Dieter Seebach, Jean-Jacques Sanglier

EPC Syntheses of Trifluorocitronellol and of Hexafluoropyrenophorin – A Comparison of Their Physiological Properties with the Nonfluorinated Analogs

Eur. J. Org. Chem. **1999**, 2533 - 2544

Dieter Seebach, Thierry Sifferlen, Daniel J. Bierbaum, Magnus Rueping, Bernhard Jaun, Bernd Schweizer, Jacob Schaefer, Anil K. Mehta, Robert D. O'Connor, Beat H. Meier, Matthias Ernst, Alice Glättli

Isotopically Labelled and Unlabelled β-Peptides with Geminal Dimethyl Substitution in 2-Position of Each Residue: Synthesis and NMR Investigation in Solution and in the Solid State

Helv. Chim. Acta **85**, 2877-2917 (2002)

François Gessier, Christian Noti, Magnus Rueping, Dieter Seebach

Synthesis and CD-Spectra of Fluorine- and Hydroxy-Substituted β-Peptides

Helv. Chim. Acta **86**, 1862 - 1870 (2003)

Magnus Rueping, Matthias Albert, Dieter Seebach

On the Structure of PHB (=Poly[(R)-3-hydroxybutanoic Acid]) in Phospholipid Bilayers: Preparation of Trifluoromethyl-Labeled Oligo[(R)-3-hydroxybutanoic Acid] Derivatives

Helv. Chim. Acta **87**, 2473 – 2486 (2004)

David.F. Hook, François Gessier, Christian Noti, Peter Kast, Dieter Seebach

Probing the Proteolytic Stability of β -Peptides Containing α -Fluoro- and α -Hydroxy- β -Amino Acids

ChemBioChem **5**, 691 – 706 (2004)

Raveendra I. Mathad, François Gessier, Dieter Seebach, Bernhard Jaun

The Effect of Backbone-Heteroatom Substitution on the Folding of Peptides – A Single Fluorine Substituent Prevents a β -Heptapeptide from Folding into a 3_{14} -Helix (NMR Analysis)

Helv. Chim. Acta **88**, 266 - 280 (2005)

Raveendra I. Mathad, Bernhard Jaun, Oliver Flögel, James Gardiner, Markus

Löweneck, Jeroen D. C. Codée, Peter H. Seeberger, Dieter Seebach, Michael K.

Edmonds, Florian H. M. Graichen, Andrew D. Abell

NMR-Solution Structures of Fluoro-Substituted β -Peptides: A 3_{14} -Helix and a Hairpin Turn. The First Case of a 90° O=C-C-F Dihedral Angle in an α -Fluoro Amide Group

Helv. Chim. Acta **90**, 2251 – 2273 (2007)

Stefania Capone, Iris Kieltsch, Oliver Flögel, Gerald Lelais, Antonio Togni,

Dieter Seebach

Electrophilic S-Trifluoromethylation of Cysteine Side Chains in α - and β -Peptides Isolation of Trifluoromethylated Sandostatin® (Octreotide) Derivatives

Helv. Chim. Acta **91**, 2035 - 2056 (2008)

Dieter Seebach, Hans Widmer, Stefania Capone, Richard Ernst, Tobias Breml, Iris Kieltsch, Antonio Togni, Dominique Monna, Daniel Langenegger, Daniel Hoyer
NMR-Solution Structures and Affinities for the Human Somatostatin G-Protein-Coupled Receptors hsst₁₋₅ of CF₃ Derivatives of Sandostatin® (Octreotide)
Helv. Chim. Acta **92**, 2577 - 2586 (2009)

Gildas Deniau, Dieter Seebach
Preparation of N-Fmoc-Protected (S)-5-Amino-4,4-difluoro-7-methyloctanoic Acid, a Possible Dipeptide Isostere
Helv. Chim. Acta **92**, 1720 - 1728 (2009)

Bernhard Jaun, Dieter Seebach and Raveendra I. Mathad

Note: Helix or no Helix of β-Peptides Containing β³hAla(αF)-Residues?
Helv. Chim. Acta **94**, 355 - 361 (2011)

Tomohiro Yoshinari, François Gessier, Christian Noti, Albert K. Beck, Dieter Seebach
Stereoselective Preparation of 3-Amino-2-fluoro Carboxylic Acid Derivatives, and Their Incorporation in Tetrahydropyrimidin-4(1H)-ones, and in Open-Chain and Cyclic β-Peptides
Helv. Chim. Acta **94**, 1908 - 1942 (2011)

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