

## Selected review articles

- \* Bernkop-Schnürch A. Chitosan and its derivatives: potential excipients for peroral peptide delivery systems. *Int J Pharm.* 2000;194(1):1-13.
- \* Bernkop-Schnürch A. Thiomers: A new generation of mucoadhesive polymers. *Adv Drug Deliv Rev.* 2004;57(11):1569-82.
- \* Bernkop-Schnürch A., Krauland A.H., Leitner V.M., Palmberger T. Thiomers: potential excipients for non-invasive peptide delivery systems. *Eur J Pharm Biopharm.* 2004 Sep;58(2):253-63.
- \* Albrecht K. and Bernkop-Schnürch A. Thiomers: forms, functions and applications to nanomedicine. *Nanomedicine (Future Medicine journal) Nanomedicine.* 2007 Feb;2(1):41-50.
- \* Jere D., Arote R., Jiang H.L., Kim Y.K., Cho M.H., Cho C.S., Bioreducible polymers for efficient gene and siRNA delivery. *Biomed Mater.* 2009; 4(2):025020.
- \* Bonengel S, Bernkop-Schnürch A. Thiomers—from bench to market. *J Control Release.* 2014 Dec 10;195:120-9.
- \* Wirostko B., Mann B.K., Williams D.L., Prestwich G.D., Ophthalmic Uses of a Thiol-Modified Hyaluronan-Based Hydrogel. *Adv Wound Care (New Rochelle).* 2014, 3(11):708-716.
- \* Islam M.A., Park T.E., Reesor E., Cherukula K., Hasan A., Firdous J., Singh B., Kang S.K., Choi Y.J., Park I.K., Cho C.S. Mucoadhesive chitosan derivatives as novel drug carriers. *Curr Pharm Des.* 2015; 21(29):4285-309.
- \* Ijaz M., Bernkop-Schnürch A. Preactivated thiomers: their role in drug delivery. *Expert Opin Drug Deliv.* 2015; 12(8):1269-81.
- \* Shah K.U., Shah S.U., Dilawar N., Khan G.M., Gibaud S., Thiomers and their potential applications in drug delivery. *Expert Opin Drug Deliv.* 2017; 14(5):601-610.
- \* Duggan S., Cummins W., O' Donovan O., Hughes H., Owens E., Thiolated polymers as mucoadhesive drug delivery systems. *Eur J Pharm Sci.* 2017; 100:64-78.
- \* Schattling P., Taipaleenmäki E., Zhang Y., Städler B., A polymer chemistry point of view on mucoadhesion and mucopenetration. *Macromol Biosci.* 2017; 17(9).
- \* Griesser J., Hetényi G., Bernkop-Schnürch A., Thiolated Hyaluronic Acid as Versatile Mucoadhesive Polymer: From the Chemistry Behind to Product Developments—What Are the Capabilities? *Polymers* 2018; 10(3):243.

## Selected clinical trials

- \* Hornof M, Weyenberg W, Ludwig A and Bernkop-Schnürch A, Mucoadhesive ocular insert based on thiolated poly(acrylic acid): development and in vivo evaluation in humans. *J. Control. Release* 2003, 89(3):419-28.
- \* Local Tolerability of Chitosan-N-acetylcysteine Eye Drops in Healthy Young Volunteers (<https://clinicaltrials.gov/ct2/show/NCT01278784?term=chitosan&rank=4>)
- \* Assessment of Safety and Tolerability of Chitosan-N-acetylcysteine Eye Drops in Subjects While Wearing Contact Lenses and Before Insertion of Contact Lenses (<https://clinicaltrials.gov/ct2/show/NCT01747616?term=chitosan&draw=2&rank=15>)
- \* Evaluation of the Corneal Residence Time of Chitosan-N-acetylcysteine Eye Drops in Patients With Dry Eye Syndrome After Single and Multiple Instillation (<https://clinicaltrials.gov/ct2/show/NCT01753752?term=chitosan&draw=4&rank=26>)
- \* Safety and Tolerability of Chitosan-N-acetylcysteine Eye Drops in Healthy Young Volunteers (<https://clinicaltrials.gov/ct2/show/NCT01015209?term=chitosan&draw=3&rank=17>)
- \* Safety of Hyaluronan Thiomer i.o. Implant During Combined Phacoemulsification - Non Penetrating Deep Sclerectomy Safety of Hyaluronan Thiomer i.o. Implant During Combined Phacoemulsification - Non Penetrating Deep Sclerectomy (<https://clinicaltrials.gov/ct2/show/NCT01887873?term=hyaluronan&rank=12>)
- \* Schmidl D, Werkmeister R, Kaya S, Unterhuber A, Witkowska KJ, Baumgartner R, Höller S, O'Rourke M, Peterson W, Wolter A, Prinz M, Schmetterer L, Garhöfer G., A Controlled, Randomized Double-Blind Study to Evaluate the Safety and Efficacy of Chitosan-N-Acetylcysteine for the Treatment of Dry Eye Syndrome. *J. Ocul. Pharmacol. Ther.*, 2017 Jun;33(5):375-382.
- \* Samprasit W, Kaomongkolgit R, Sukma M, Rojanarata T, Ngawhirunpat T, Opanasopit P. Mucoadhesive electrospun chitosan-based nanofibre mats for dental caries prevention. *Carbohydr Polym.* 2015 Mar 6;117:933-40. doi: 10.1016/j.carbpol.2014.10.026.
- \* Kassem AA, Issa DA, Kotry GS, Farid RM., Thiolated alginate-based multiple layer mucoadhesive films of metformin for intra-pocket local delivery: in vitro characterization and clinical assessment. *Drug Dev. Ind. Pharm.* 2017 Jan;43(1):120-131.
- \* Durrie DS, Wolsey D, Thompson V, Assang C, Mann B, Wirostko B, Ability of a new crosslinked polymer ocular bandage gel to accelerate reepithelialization after photorefractive keratectomy. *J Cataract Refract Surg.* 2018 Mar;44(3):369-375. doi: 10.1016/j.jcrs.2018.01.018.