

Publications

Phloral™

A new concept in colonic drug targeting: a combined pH-responsive and bacterially-triggered drug delivery technology.

Ibekwe VC, Khela MK, Evans DF, Basit AW.

Aliment Pharmacol Ther. 2008 Oct 1;28(7):911-6. doi: 10.1111/j.1365-2036.2008.03810.x.

An in vivo comparison of intestinal pH and bacteria as physiological trigger mechanisms for colonic targeting in man.

McConnell EL, Short MD, Basit AW.

J Control Release. 2008 Sep 10;130(2):154-60. doi: 10.1016/j.jconrel.2008.05.022.

Gastrointestinal stability of therapeutic anti-TNF α IgG1 monoclonal antibodies.

Yadav V, Varum F, Bravo R, Furrer E, Basit AW

Int J Pharm. 2016 Feb 15;pii: S0378-5173(16)30107-7. doi: 10.1016/j.ijpharm.2016.02.014

Duocoat™

A novel concept in enteric coating: a double-coating system providing rapid drug release in the proximal small intestine.

Liu F, Lizio R, Meier C, Petereit HU, Blakey P, Basit AW.

J Control Release. 2009 Jan 19;133(2):119-24. doi: 10.1016/j.jconrel.2008.09.083.

A paradigm shift in enteric coating: achieving rapid release in the proximal small intestine of man.

J Control Release. 2010 Oct 15;147(2):242-5. doi: 10.1016/j.jconrel.2010.07.105.

A novel double-coating approach for improved pH-triggered delivery to the ileo-colonic region of the gastrointestinal tract.

Liu F, Moreno P, Basit AW.

Eur J Pharm Biopharm. 2010 Feb;74(2):311-5. doi: 10.1016/j.ejpb.2009.11.008.

ProRelease™

Fabrication and in vivo evaluation of highly pH-responsive acrylic microparticles for targeted gastrointestinal delivery.

Kendall RA, Alhnan MA, Nilkumhang S, Murdan S, Basit AW.

Eur J Pharm Sci. 2009 Jun 28;37(3-4):284-90. doi: 10.1016/j.ejps.2009.02.015

Engineering polymer blend microparticles: an investigation into the influence of polymer blend distribution and interaction.

Alhnan MA, Basit AW.

Eur J Pharm Sci. 2011 Jan 18;42(1-2):30-6. doi: 10.1016/j.ejps.2010.10.003

Encapsulation of poorly soluble basic drugs into enteric microparticles: a novel approach to enhance their oral bioavailability.

Alhnan MA, Murdan S, Basit AW.

Int J Pharm. 2011 Sep 15;416(1):55-60. doi: 10.1016/j.ijpharm.2011.05.079

Inhibiting the gastric burst release of drugs from enteric microparticles: the influence of drug molecular mass and solubility.

Alhnan MA, Cosi D, Murdan S, Basit AW.

J Pharm Sci. 2010 Nov;99(11):4576-83. doi: 10.1002/jps.22174

Drug distribution in enteric microparticles.

Nilkumhang S, Alhnan MA, McConnell EL, Basit AW.

Int J Pharm. 2009 Sep 8;379(1):1-8. doi: 10.1016/j.ijpharm.2009.05.066

The robustness and flexibility of an emulsion solvent evaporation method to prepare pH-responsive microparticles.

Nilkumhang S, Basit AW.

Int J Pharm. 2009 Jul 30;377(1-2):135-41. doi: 10.1016/j.ijpharm.2009.03.024.

Dynamic Dissolution

A dynamic *in vitro* model to evaluate the intestinal release behaviour of modified-release corticosteroid products

Goyanes A, Hatton GB, Basit AW.

JDDST. 2015 Feb 25;36-42. doi:10.1016/j.jddst.2014.12.002

Predicting the gastrointestinal behaviour of modified-release products: utility of a novel dynamic dissolution test apparatus involving the use of bicarbonate buffers.

Merchant HA, Goyanes A, Parashar N, Basit AW.

Int J Pharm. 2014 Nov 20;475(1-2):585-91. doi: 10.1016/j.ijpharm.2014.09.003.

Gastrointestinal release behaviour of modified-release drug products: dynamic dissolution testing of mesalazine formulations.

Goyanes A, Hatton GB, Merchant HA, Basit AW.

Int J Pharm. 2015 Apr 30;484(1-2):103-8. doi: 10.1016/j.ijpharm.2015.02.051.

Accelerating the dissolution of enteric coatings in the upper small intestine: evolution of a novel pH 5.6 bicarbonate buffer system to assess drug release.

Varum FJ, Merchant HA, Goyanes A, Assi P, Zboranova V, Basit AW.

Int J Pharm. 2014 Jul 1;468(1-2):172-7. doi: 10.1016/j.ijpharm.2014.04.019.

Evolution of a physiological pH 6.8 bicarbonate buffer system: application to the dissolution testing of enteric coated products.

Liu F, Merchant HA, Kulkarni RP, Alkademi M, Basit AW.

Eur J Pharm Biopharm. 2011 May;78(1):151-7. doi: 10.1016/j.ejpb.2011.01.001.

Physiological bicarbonate buffers: stabilisation and use as dissolution media for modified release systems.

Fadda HM, Merchant HA, Arafat BT, Basit AW.

Int J Pharm. 2009 Dec 1;382(1-2):56-60. doi: 10.1016/j.ijpharm.2009.08.003.

Colon Simulation Model

Stability of peptide drugs in the colon.

Wang J, Yadav V, Smart AL, Tajiri S, Basit AW.

Eur J Pharm Sci. 2015 Oct 12;78:31-6. doi: 10.1016/j.ejps.2015.06.018.

On the colonic bacterial metabolism of azo-bonded prodrugs of 5-aminosalicylic acid.

Sousa T, Yadav V, Zann V, Borde A, Abrahamsson B, Basit AW.

J Pharm Sci. 2014 Oct;103(10):3171-5. doi: 10.1002/jps.24103.

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Yadav V, Gaisford S, Merchant HA, Basit AW.

Int J Pharm. 2013 Nov 30;457(1):268-74. doi: 10.1016/j.ijpharm.2013.09.007.

Reviews

Animal Farm: Considerations in Animal Gastrointestinal Physiology and Relevance to Drug Delivery in Humans.

Hatton GB, Yadav V, Basit AW, Merchant HA.

J Pharm Sci. 2015 Sep;104(9):2747-76. doi: 10.1002/jps.24365

Influence of ageing on the gastrointestinal environment of the rat and its implications for drug delivery.

Merchant HA, Rabbie SC, Varum FJ, Afonso-Pereira F, Basit AW.

Eur J Pharm Sci. 2014 Oct 1;62:76-85. doi: 10.1016/j.ejps.2014.05.004

Oral peptide and protein delivery: intestinal obstacles and commercial prospects.

Smart AL, Gaisford S, Basit AW.

Expert Opin Drug Deliv. 2014 Aug;11(8):1323-35. doi: 10.1517/17425247.2014.917077

Food, physiology and drug delivery.

Varum FJ, Hatton GB, Basit AW.

Int J Pharm. 2013 Dec 5;457(2):446-60. doi: 10.1016/j.ijpharm.2013.04.034

Does sex matter? The influence of gender on gastrointestinal physiology and drug delivery.

Freire AC, Basit AW, Choudhary R, Piong CW, Merchant HA.

Int J Pharm. 2011 Aug 30;415(1-2):15-28. doi: 10.1016/j.ijpharm.2011.04.069

Colonic treatments and targets: issues and opportunities.

McConnell EL, Liu F, Basit AW.

J Drug Target. 2009 Jun;17(5):335-63. doi: 10.1080/10611860902839502

Gut instincts: explorations in intestinal physiology and drug delivery.

McConnell EL, Fadda HM, Basit AW.

Int J Pharm. 2008 Dec 8;364(2):213-26. doi: 10.1016/j.ijpharm.2008.05.012

The gastrointestinal microbiota as a site for the biotransformation of drugs.

Sousa T, Paterson R, Moore V, Carlsson A, Abrahamsson B, Basit AW.

Int J Pharm. 2008 Nov 3;363(1-2):1-25. doi: 10.1016/j.ijpharm.2008.07.009