

## Robert G Gilbert Publications

### Books:

“Emulsion Polymerization: a Mechanistic Approach”. R.G. Gilbert. Academic Press, London, 1995; 362 pps.

“Theory of unimolecular and recombination reactions”. R.G. Gilbert and S.C. Smith. Blackwell Scientific Publications, Oxford, 1990; 364 pps.

### Patents:

4. Aqueous dispersions of polymer particles. CH Such, E Rizzardo, AK Serelis, BS Hawkett, RG Gilbert, CJ Ferguson, RJ Hughes, Robert John. **Aqueous dispersions of polymer particles**. PCT Int. Appl. (2003), WO 2003055919, 90 pp.

3. Finely divided polymer dispersions, their production and their use. S. Peach, B.R. Morrison, R.G. Gilbert. Ger. Offen. (2000), 10 pp. DE 19929395.

2. N. Subramaniam, R. Balic, R.G. Gilbert, Modified Rubber Polymer Latex, PCT/AU98/00191 (1998).

1. D.Kukulj, T.P.Davis, R.G.Gilbert. Polymerisation Reactions Under Miniemulsion Conditions. PCT PN6696 (1997)

### Scientific Papers:

362. Characterizing the size and molecular weight distribution of starch: why it is important and why it is hard. RG Gilbert, MJ Gidley, S Hill, P Kilz, A Rolland-Sabaté, D G Stevenson, RA Cave. *Cereal Foods World*, submitted (2010)

361. Diffusion and viscosity in arabinoxylan solutions. KJ Shelat, TM Nicholson, KH Wong, MJ Gidley, RG Gilbert. Submitted (2009).

360. Extracting physically useful information from multiple-detection size-separation data for starch. A Gray-Weale, RA Cave, RG Gilbert, *Biomacromolecules*, **10** 2708-13 (2009).

359. Reliable measurements of the size distributions of starch molecules in solution: current dilemmas and recommendations. MJ Gidley, I Hanashiro, NM Hani, SE Hill, A Huber, J-L Jane, Q Liu, GA Morris, A Rolland-Sabaté, A Striegel, RG Gilbert. *Carbohydrate Polymers* **79** 255-61 (2010).

358. Digestion of starch: *in vivo* and *in vitro* kinetic models used to characterise glucose release. AC Dona, G Pages, RG Gilbert, PW Kuchel. Submitted (2009).

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355. Quantification of the extent of starch dissolution in dimethylsulfoxide by <sup>1</sup>H NMR spectroscopy. S Schmitz, AC Dona, P Castignolles, RG Gilbert, M Gaborieau, *Macromolecular Bioscience* **9** 506-14 (2009).

354. Using chain-length distributions to diagnose genetic diversity in starch biosynthesis. RP Cuevas, VD Daygon, MK Morell, RG Gilbert, MA Fitzgerald. Submitted.

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352. Kinetics of in vitro digestion of starches monitored by time-resolved  $^1\text{H}$  nuclear magnetic resonance. AC Dona, G Pages, RG Gilbert, M Gaborieau, PW Kuchel, *Biomacromolecules* **10** 638-44 (2009).
351. Toward a full characterization of native starch: separation and detection by size-exclusion chromatography. N-L Hoang, A Landolfi, A Kravchuk, E Girard, J Peate, JM Hernandez, M Gaborieau, O Kravchuk, RG Gilbert, Y Guillaneuf, P Castignolles, *J. Chrom. A* **1205**, 60-70 (2008).
350. Transfer to “monomer” in styrene free-radical polymerization. SC Thickett, RG Gilbert, *Macromolecules*, **41**, 4528-30 (2008).
349. Particle size distributions in electrosterically stabilized emulsion polymerization systems: testing the ‘mid-chain-radical’ hypothesis. SC Thickett, BR Morrison, RG Gilbert. *Macromolecules*, **41**, 3521-9 (2008).
348. General description of the structure of branched polymers. A Gray-Weale, RG Gilbert, *J. Polym. Sci. Part A Polymer Chem. Ed.* **49** 3914–30 (2009).
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