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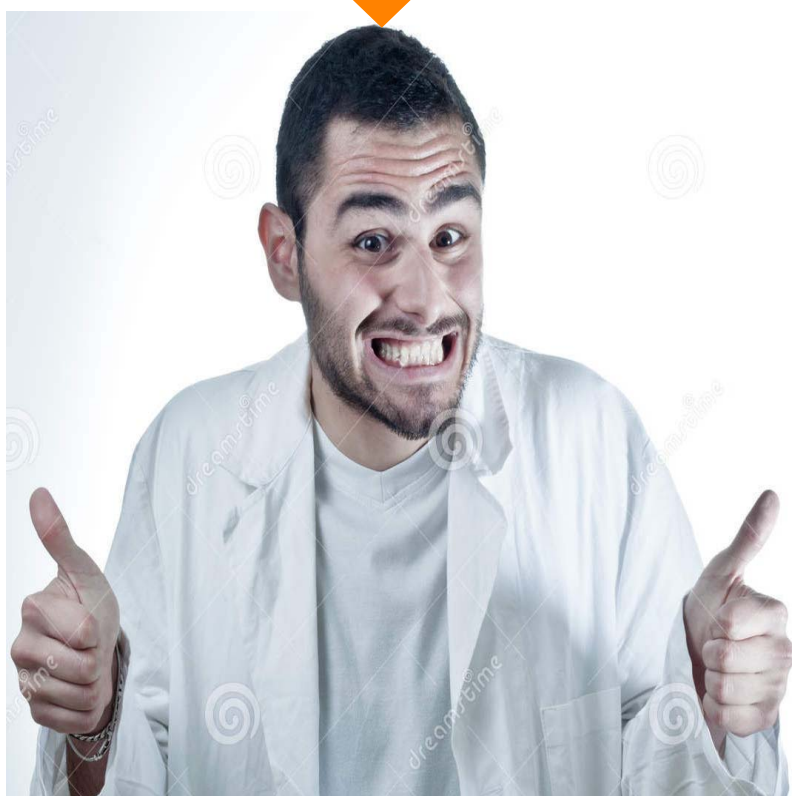
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- ☐ A Comparison of 1-Year Treatment Costs in Patients with Type 2 Diabetes Following Initiation of Insulin Glargine or Insulin Detemir in Argentina Original Research Article

Value in Health Regional Issues, Volume 5, December 2014, Pages 14-19

Joaquín E. Caporale, Andrés Pichón-Rivière, Andrea G. Beratarrechea, Cristian Von Schulz-Hausmann, Federico Augustovski

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- ☐ Long-acting hypoglycemic effects of PEGylated FGF21 and insulin glargine in mice with type 1 diabetes Original Research Article

Journal of Diabetes and its Complications, In Press, Accepted Manuscript, Available online 13 October 2014

Pengfei Xu, Xianlong Ye, Yingjie Zhang, Qingyan Yuan, Mingyao Liu, Qiang Wu, Guiping Ren, Deshan Li

[Abstract](#) [PDF \(946 K\)](#)

- ☐ Comparison of PEGylated FGF-21 with insulin glargine for long-lasting hypoglycaemic effect in db/db mice Original Research Article

Diabetes & Metabolism, In Press, Corrected Proof, Available online 13 October 2014

X. Ye, J. Qi, Y. Wu, D. Yu, P. Xu, S. Li, S. Zhu, Q. Wu, G. Ren, D. Li

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- ☐ Effectiveness and safety of basal supported oral therapy with insulin glargine, in Japanese insulin-naïve, type 2 diabetes patients, with or without microvascular complications: subanalysis of the observational, non-interventional, 24-week follow-up Add-on Lantus® to Oral Hypoglycemic Agents (ALOHA) study Original Research Article

Journal of Diabetes and its Complications, In Press, Corrected Proof, Available online 28 September 2014

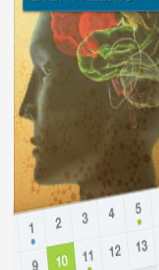
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Comprehensive Medicinal Chemistry II, Volume 6, 2007, Pages 417-458

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Obesity, diabetes mellitus, and the metabolic syndrome are increasing concurrently in epidemic proportions in the USA and worldwide. Diabetes affects 20.8 million people or 9.6% of the US adult population, and the recent rise in the incidence of diabetes correlates with the increasing obesity trend. The *metabolic syndrome*, defined by the co-occurrence of abdominal obesity, impaired glucose metabolism, dyslipidemia, and hypertension, is associated with an increased risk for cardiovascular mortality and the development of type 2 diabetes mellitus.

Glucose homeostasis is maintained as a closed feedback loop involving the pancreatic islet cells, liver, and peripheral tissues, including the brain, muscle, and adipose. Insulin sensitivity, insulin action, and beta cell function have profound effects on carbohydrate, lipid, and protein metabolism, and significant influences on mineral metabolism that lead to diabetes and the metabolic syndrome. This chapter summarizes current understanding of the pathogenesis and pathophysiology of impaired glucose metabolism and type 2 diabetes, their impact and associated conditions (cardiovascular disease), and the complications of diabetes.

Animal models of diabetes are at the core of diabetes advancements throughout the twentieth century, from the discovery of insulin to the use of therapeutic insulin suspensions, and, more recently, a pathophysiological understanding of insulin resistance and its associated diseases. In addition, large-scale clinical trials have been instrumental in the major advances in diabetes treatment and outcomes that have been achieved in the last 15-20 years. The Diabetes Control and Complications Trial and the United Kingdom Prospective Diabetes Study have proven that glycemic control is critical to the prevention of diabetic complications. The duration and severity of hyperglycemia correlates with both the development and rate of progression of diabetic retinopathy, neuropathy, and nephropathy.

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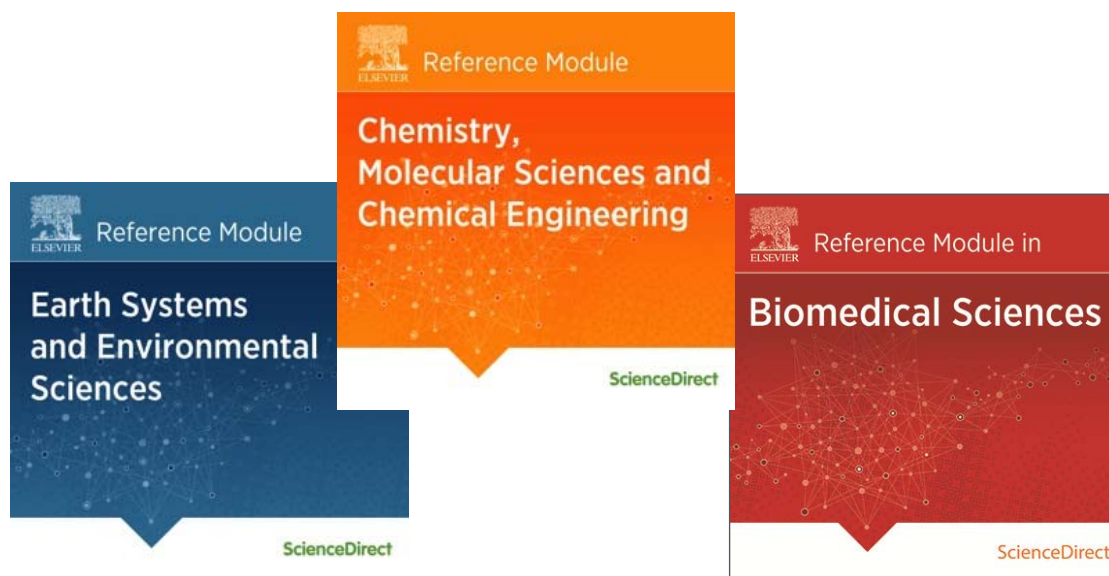
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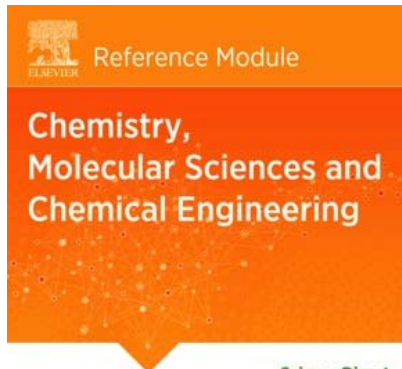
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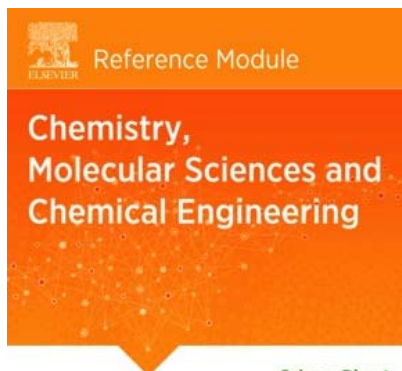
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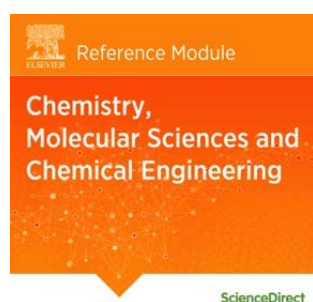
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K.T. Ingram
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P.D. Kennewell
Swindon, UK
Available online 22 March 2014

DOI: 10.1016/B978-0-12-409547-2.10977-1 Get rights and content

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This chapter lists 530 compounds which were first introduced during the years 1993 to 2011 as listed in Annual Reports in Medicinal Chemistry. Most of these were new chemical entities (NCEs) but there are also a few new biological entities (NBEs). Whilst there was an average of 30 new introductions per year, these introductions have been a fall in the annual rate over the time being considered. Most compounds

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C.M. Benton

Agilent Technologies, Cheadle, UK

C.K. Lim

King's College Hospital, London, UK

Available online 29 September 2013

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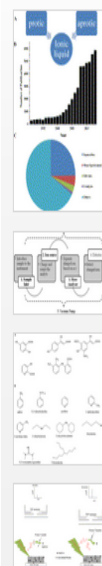


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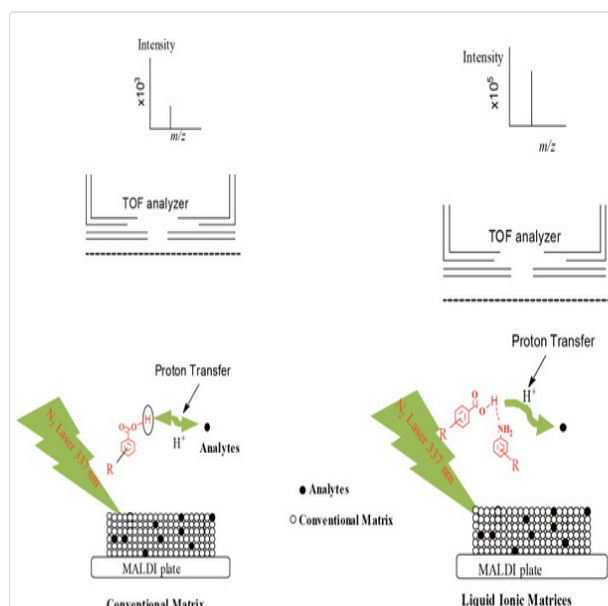


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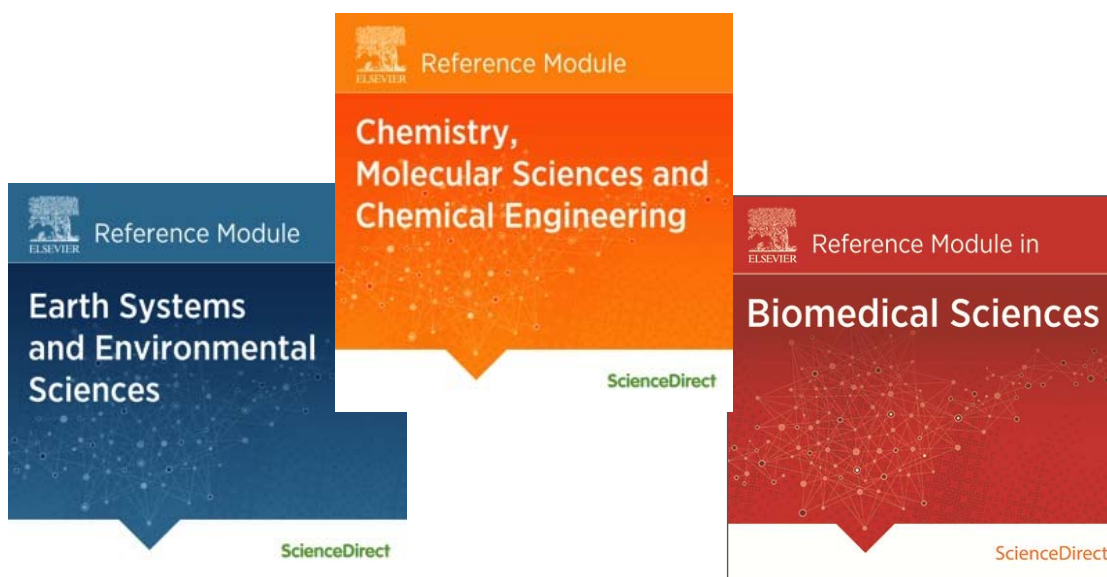
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