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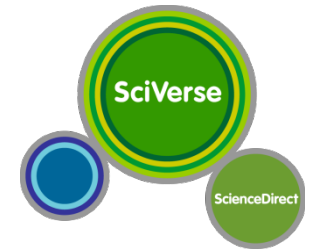
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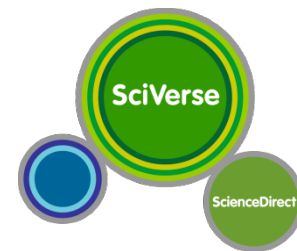
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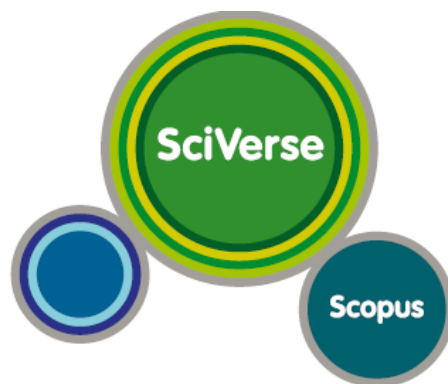
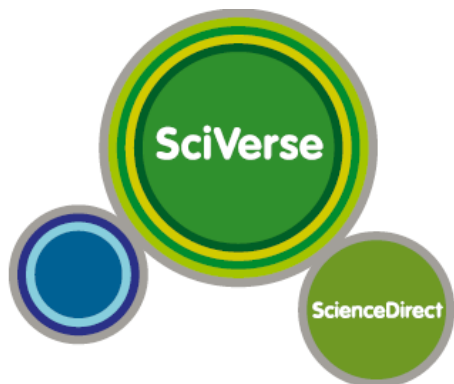
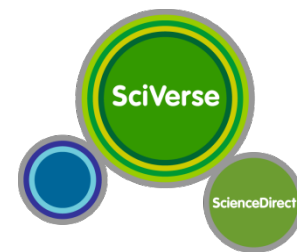
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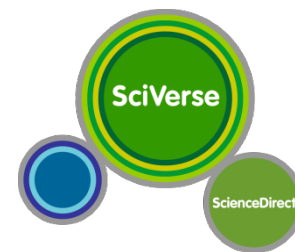
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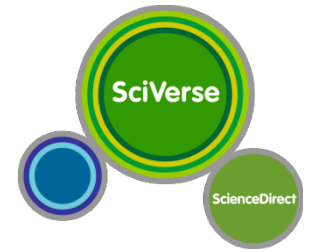
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Incretin mimetics and DPP-IV inhibitors are a potential new class of therapeutic agents that work through innovative mechanisms to attack diabetes on a fundamental level and offer the potential to improve the quality of life for patients with the disease.
- An aminomethylpyrimidine DPP-IV inhibitor with potent antidiabetic activity** Original Research Article  
Biorganic & Medicinal Chemistry Letters, Volume 14, Issue 1, 1 July 2004, Pages 3573-3578  
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Automatic generation of conference video proceedings

Arnon Amir\*, Gal Ashor\*, Savitha Srinivasan\*

1 IBM Almaden Research Center, 550 Harry Road, San Jose, CA 95120, USA  
2 IBM Haifa Research Laboratory, Haifa, Israel  
Received 20 July 2003; accepted 5 April 2004  
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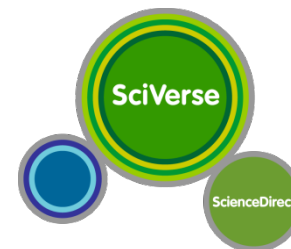
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How many times did you attend a conference talk in a parallel track and wish you had a second chance to see it? Or did you miss a talk from a recent conference you did not attend? Video proceedings, which contain videos of all the conference talks, would be a great value in these cases. With recent progress in digital video, streaming technology, large storage, Internet and especially video indexing and retrieval technology, video proceedings finally become a reality. The key challenges are efficient production with minimal labor and easy, intuitive, and rapid user access to talks and though for snippet of information. This paper describe an application that allow a nearly automatic, real-time creation of video proceedings. All the talks are captured in video, and are automatically indexed by speech recognition and video analysis tools. First text search in speech and efficient multi-view video browsing are combined with the conference table of contents and graph on biography to make fully searchable and browsable video proceedings. The paper covers the work flow, processing steps, and technical details of the video representation, visualization, and user study results. The system was used to produce video proceedings for three local conferences.

**Keywords:** Video proceedings; Video on demand; Video indexing; Information retrieval; Resource selection; Distance learning; Video aggregation; Multimedia browsing

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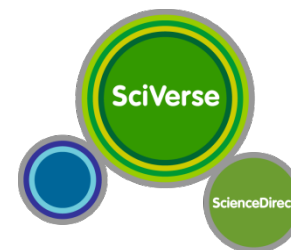
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











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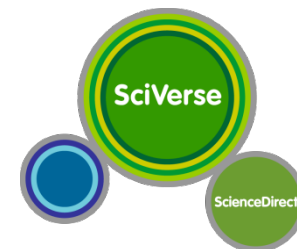
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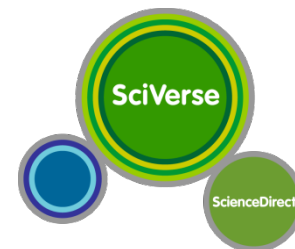
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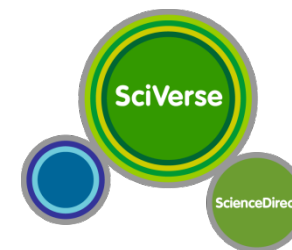
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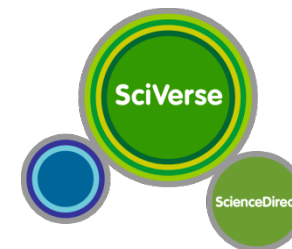
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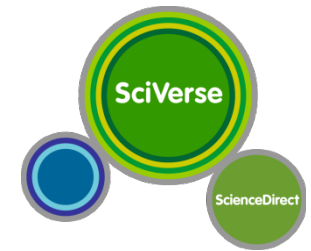
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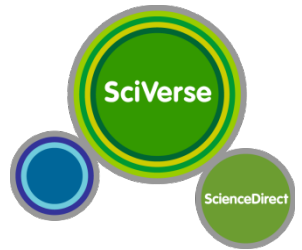
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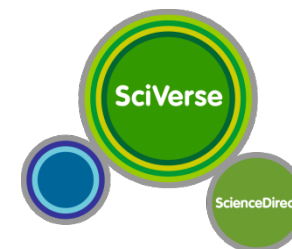
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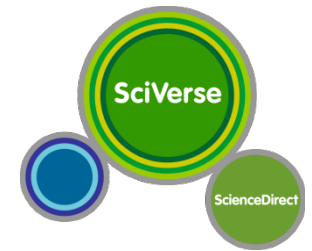
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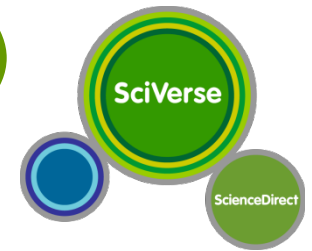
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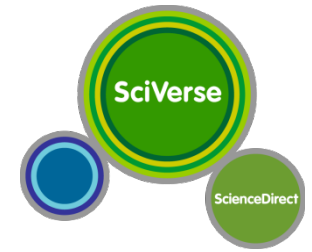
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Department of Diabetes and Vascular Medicine, University of Exeter, Barrack Road, Exeter, EX2 5DW, UK  
Received 7 February 2002; revised 2 April 2002; accepted 2 April 2002. Available online 26 June 2002.

#### Abstract

The genetic causes of type 2 diabetes are not well understood. The disease has been linked to chromosome 20q12 - q13.1 a region which harbors the transcription factor *HNF4α*. Mutations in the coding region of *HNF4α* cause maturity onset diabetes of the young, an autosomal dominant form of diabetes, but do not account for the linkage to this region. An enhancer element has recently been characterized 6 kb 5' of the *HNF4α* P1 promoter containing binding sites for the transcription factors HNF1, HNF4, HNF3, and C/EBP, which are overlapped by glucocorticoid consensus sites. We hypothesized that variation in the enhancer element disrupts *HNF4α* expression in the liver and increases susceptibility to type 2 diabetes. We screened for variants of the enhancer element in 39 white UK young onset diabetic subjects, giving >95% power to identify variants with minor allele frequencies of >5%. No variants of the enhancer element were found in this population. We conclude that variation in the *HNF4α* enhancer element is not a common cause of susceptibility to type 2 diabetes.

**Author Keywords:** Enhancer element, Hepatic nuclear factor 4 alpha, type 2 diabetes

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Results and discussion

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### Introduction

Between 2000 and 2010, the prevalence of <type 2 diabetes> is projected to rise by 47% to over 215 million sufferers worldwide [1]. Aggregation of the disease within families is consistent with a genetic component to disease susceptibility and the patterns of segregation within families indicates a complex and multifactorial mode of inheritance. However, the main genetic determinants of <type 2 diabetes> are uncertain [2].

Several groups have reported linkage of <type 2 diabetes> to chromosome 20q12 – q13.1 [3, 4, 5, 6, 7 and 8]. The transcription factor *hepatic nuclear factor (HNF)-4α* is localized to this region and plays a crucial role in regulating the expression of many genes which are essential for the normal functioning of the liver, pancreas, kidney, and gut [9, 10 and 11]. Mutations in the coding region of *HNF4α* cause maturity onset <diabetes> of the young (MODY), a monogenic autosomal dominant subtype of early onset <diabetes> mellitus due to defective insulin secretion by the pancreatic β-cell [12, 13, 14, 15, 16, 17, 18 and 19] and have been seen in <type 2 diabetes> [20]. As a strong candidate gene for the cause of the linkage on chromosome 20, the *HNF4α* exons and promoter P1 have been screened for variants in a number of these studies. However, common variants that were identified did not explain the observed linkages to this region [5 and 21].

Recently a second promoter, termed P2, was found approximately 46 kb upstream of the P1 promoter and encodes further isoforms, including *HNF4α7* [22 and 23]. Promoter P2 is the major *HNF4α* transcription start site in the pancreatic β-cell and contains functional binding sites for the transcription factors *HNF1α*, *HNF1β*, and *IPF1* [23]. We recently demonstrated the significance of the *HNF4α* promoter P2 in a large family with MODY, where a nucleotide substitution in the *IPF1* binding site of the P2 promoter co-segregated with <diabetes> (LOD=3.25) [23]. However, variants of the P2 promoter do not commonly predispose to <type 2 diabetes> in the UK population [24].

Recently, an enhancer element was found 6 kb upstream of the mouse *HNF4α* P1 promoter [25]. It is transactivated by the transcription factors *HNF4α*, *HNF1α*, and *HNF1β* in dedifferentiated hepatoma cells. The enhancer increases the activity and

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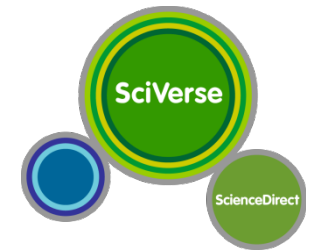
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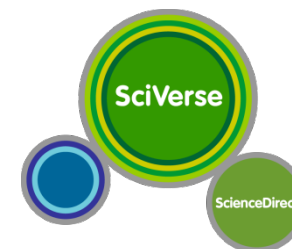
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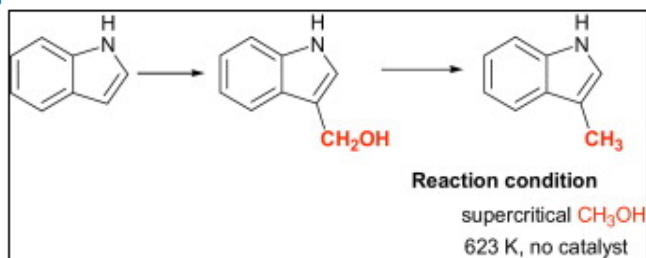
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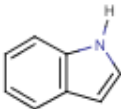




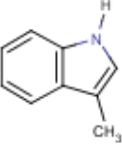

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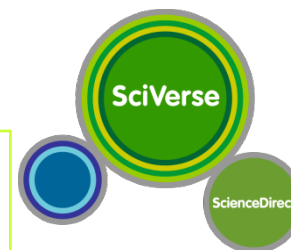
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# Carbonate preservation patterns at the Cear a Rise – Evidence for the Pliocene super conveyor

Michael Frenz   , R udiger Henrich  and Bj orn Zychla 

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Received 19 July 2005; revised 19 June 2006; accepted 23 July 2006. Available online 25 September 2006.

## Abstract

Enhanced Atlantic overturning during the Pliocene was first proposed almost 10 yrs ago. Evidence for this Pliocene super conveyor scenario has been collected using a number of proxies (e.g., benthic  $\delta^{13}\text{C}$ , Nd isotopic composition of manganese crusts). The present study contributes to the existing evidences by using carbonate dissolution and current vigour history of early Pliocene sediments from the Cear a Rise (ODP Sites 927 and 929). In order to reveal carbonate dissolution history, a number of commonly used and newly established proxies were applied, i.e., sand and carbonate contents, foraminifer fragmentation index, Bulloides Dissolution Index and carbonate silt grain-size distributions. Terrigenous silt grain-size distributions were used to unravel variations in relative current strength and sediment input to the two sites. Overall good carbonate preservation at the shallow Site 927 (3314 m water depth) shows that this level was bathed in North Atlantic Deep Water throughout the early Pliocene. The contrastingly poor carbonate preservation record of the deeper Site 929 (4358 m water depth, at present exposed to Antarctic Bottom Water) is frequently interrupted by phases of good carbonate preservation. These results indicate that the depth of the calcite lysocline was mainly tied to present level ( $\sim 4200$  m water depth), and sometimes even dropped to water depths greater than 4360 m due to even more enhanced circulation. Surprisingly the expansion of NADW is not clearly reflected by an increase in current speed as shown by continuously fine terrigenous grain size.

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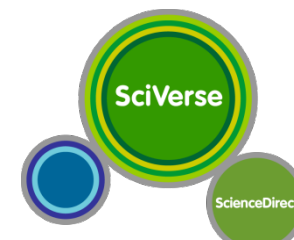
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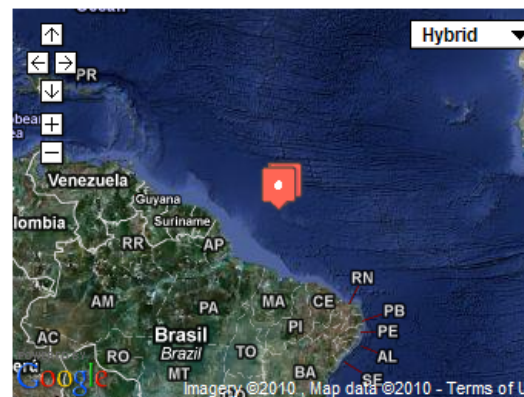
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**Abstract:** Enhanced Atlantic overturning during the Pliocene was first proposed almost 10 yrs ago. Evidence for this Pliocene super conveyor scenario has been collected using a number of proxies (e.g., benthic d13C, Nd isotopic composition of manganese crusts). The present study contributes to the existing evidences by using carbonate dissolution and current vigour history of early Pliocene sediments from the Ceará Rise (ODP Sites 927 and 929). In order to reveal carbonate dissolution history, a number of commonly used and newly established proxies were applied, i.e., sand and carbonate contents, foraminifer fragmentation index, Bulloides Dissolution Index and carbonate silt grain-size distributions. Terrigenous silt grain-size distributions were used to unravel variations in relative current strength and sediment input to the two sites. Overall good carbonate preservation at the shallow Site 927 (3314 m water depth) shows that this level was bathed in North Atlantic Deep Water throughout the early Pliocene. The contrastingly poor carbonate preservation record of the deeper Site 929 (4358 m water depth, at present exposed to Antarctic Bottom Water) is frequently interrupted by phases of good carbonate preservation. These results indicate that the depth of the calcite lysocline was mainly tied to present level (ab. 4200 m water depth), and sometimes even dropped to water depths greater than 4360 m due to even more enhanced circulation. Surprisingly the expansion of NADW is not clearly reflected by an increase in current speed as shown by continuously fine terrigenous grain size.

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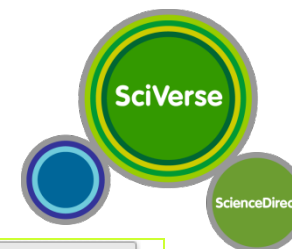


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## Thermodynamics of the $O_2/O^{2-}$ redox couple in molten (LiCl + KCl + $Li_2O$ ) systems

Yuya Kado<sup>a</sup>, Takuya Goto<sup>a</sup> and Rika Hagiwara<sup>a</sup>

<sup>a</sup> Department of Fundamental Energy Science, Graduate School of Energy Science, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan  
Received 5 February 2010; revised 19 April 2010; accepted 26 April 2010. Available online 4 May 2010.

**Abstract**  
Activity coefficients of oxide ion were determined by the measurements of the standard formal potential of  $O_2/O^{2-}$  with a boron-doped diamond (BDD) electrode in molten (LiCl + KCl): LiCl:KCl = {58.5:41.5 (eutectic), 65:35, 70:30, 75:25} mol% at  $T =$  {673 to 803} K. The activity coefficient decreases with the increase of the LiCl content in the melt: ( $18.7 \pm 1.5$ ,  $7.7 \pm 1.0$ ,  $4.1 \pm 0.4$ , and  $1.6 \pm 0.1$ ), respectively, at  $T = 773$  K in each melt. The result is explained by the attractive force between  $Li^+$  and  $O^{2-}$  which is stronger than that between  $K^+$  and  $O^{2-}$ .

**Keywords:** LiCl - KCl; Boron-doped diamond electrode; Oxygen evolution;  $O_2/O^{2-}$  potential; Activity coefficient

**Article Outline**

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3. Results and discussion
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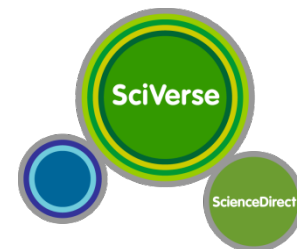
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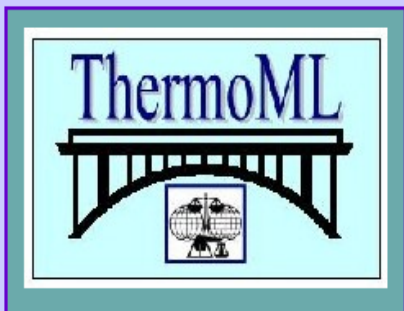
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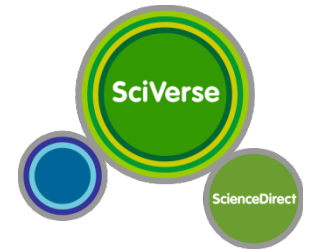
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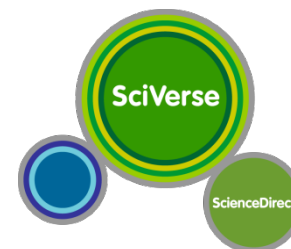
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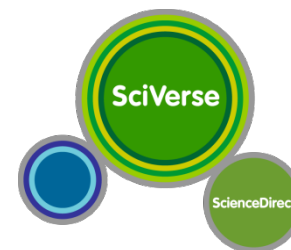
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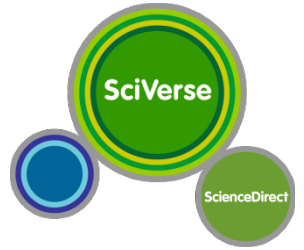
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