

PUBLICATIONS of Marco Casteleijn

Updated 2.3.2007

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Articles in international scientific journals with referee practice

Marco G. Casteleijn*, Markus Alahuhta*, Katrin Groebel, Ibrahim El-Sayed, Koen Augustyns, Anne-Marie Lambeir, Peter Neubauer, Rik K. Wierenga. 2006. The functional role of the conserved active site proline of triosephosphate isomerase. *Biochemistry*, 45 (51), 15483 – 15494. * *These authors contributed equally to this work.*

Dion M.A.M. Luykx*, **Marco G. Casteleijn***, Wim Jiskoot** & Peter M.J.M. Jongen*. 2004. Physicochemical studies on the stability of influenza haemagglutinin in vaccin bulk material. *Center for Biological Medicines and Medical Technology, National Institute of Public Health and the Environment, Holland. **Utrecht Institute for Pharmaceutical Sciences (UIPS), Faculty of Pharmaceutical Sciences. *European Journal of Pharmaceutical Sciences*, 23(2004)1: 65-75.



Theses

Casteleijn, M.G. 2005. Characterization of the hinge TIM-mutants P168A and A178L. Pro-gradu thesis (MS thesis). University of Oulu, Department of Biochemistry, Finland.

Casteleijn, M.G. 1997. Sources, applications, and gel properties of basic proteins. BAS thesis (Biochemistry). Hogeschool van Utrecht, Institute of Life Sciences & Chemistry, Biochemistry Department, The Netherlands.



Patents

Vasala, A., Neubauer, P., Panula, J., **Casteleijn, M.G.**, Lajunen, M. (2006). Method for controlling the growth of cell culture. Finnish Patent application FI20065762. Filing date: 30.11.2006.

Articles in conference proceedings

Marco G. Casteleijn, Markus Alahuhta. Triosephosphate isomerase (TIM): the functional role of the conserved hinge regions of the catalytic loop-6. BCO SEMINAR SERIES, Oulu (Finland), Feb 15th, 2007 (Presentation)

Marco G. Casteleijn, Markus Alahuhta, Matti Vaismaa, Ritva Juvani, Sampo Mattila, Marja Lajunen, Jouni Pursiainen, Rik K. Wierenga, Peter Neubauer, 2006. Towards New Enzymes: From Triosephosphate Isomerase to Kealases. Protein Design and Evolution for Biocatalysis, Greifswald (Germany), Aug 31st, 2006 (Presentation)

- Mari Ylianttila, **Marco G. Casteleijn**, Markus Alahuhta, Rik Wierenga, Peter Neubauer, 2006. Non-Natural Enzymes: Directed Evolution of a Monomeric Triosephosphate Isomerase Variant – A Case Study. Protein Design and Evolution for Biocatalysis, Greifswald (Germany), Aug 30th – Sept 1st, 2006 (Poster)
- Marco G. Casteleijn**, Markus Alahuhta, Katrin Groebel, Koen Augustyns, Annemie Lambeir, Peter Neubauer, Rik Wierenga. The functional role of the conserved active site proline of Triosephosphate Isomerase. Protein Design and Evolution for Biocatalysis, Greifswald (Germany), Aug 30th – Sept 1st, 2006 (Poster); Bio Meets Nano and IT 2006, Oulu (Finland), 7th – 8th September, 2006 (Poster); BCO discovery of the year 14.12.2006 (Poster)
- Marco G. Casteleijn**, Markus Alahuhta, Katrin Groebel, Koen Augustyns, Annemie Lambeir, Peter Neubauer, Rik Wierenga. 2006. Characterization of the hinge TIM-mutants P168A and A178L. Biocenter day, Oulu (Finland), Mar 23, 2006 (Bulletin)
- Neubauer P, Ruottinen M, Kögler M, Bollok M, Pospiech H, **Casteleijn MG**, Panula J, Illmann L, Hälsig C, Vasala A. SENBIT - wireless measurement system for environmental, industrial and laboratory applications. Achema conference, Frankfurt (Germany) 15-19 May 2006 (Presentation)
- Marco G. Casteleijn**, Markus Alahuhta, Ville Ratas, Rik Wierenga, Peter Neubauer. 2005. Towards new enzymes: loop 6 hinge mutants impair catalytic activity. BCO-Discovery of the Year, Oulu (Finland), Dec 15, 2005 (Poster)
- Rik Wierenga, Markus Alahuhta, **Marco Casteleijn**, Peter Neubauer. 2005 Loop-6 and loop-7 of Triosephosphate isomerase: structural enzymological studies. INPEC 2005, Nov 9 -13 2005, Ein Gedi (Israel) (Presentation)
- J. Hokkanen, N. Alho, M. Vaismaa, M. Lajunen, R. Juvani, J. Pursiainen, R. Wierenga, M. Alahuhta, P. Neubauer, **M. Casteleijn**, S. Mattila 2005. Protein ligand interactions: NMR studies of monomeric TIM-loops. XXVII Finnish NMR symposium, Iso-Syöte, Pudasjärvi (Finland), Jun 8 -10, 2005 (Poster)
- Markus Alahuhta*, **Marco G. Casteleijn***, Ritva Juvani, Matti Vaismaa, Ville Ratas, Sampo Mattila, Marja Lajunen, Jouni Pursiainen, Peter Neubauer & Rik Wierenga. 2005. Towards new enzymes: Compounds, Engineering and Understanding. Biocenter day, Oulu (Finland), Mar 15, 2005 (Bulletin) * both authors contributed equally
- Marco G. Casteleijn**, Markus Alahuhta, Matti Vaismaa, Ritva Juvani, Ville Ratas, Sampo Mattila, Marja Lajunen, Jouni Pursiainen, Rik Wierenga, Peter Neubauer. 2004. Towards new enzymes: understanding and engineering. BCO-Discovery of the Year, Oulu (Finland), Dec 9, 2004 (Poster) best BCO poster 2004 award.
- Markus Alahuhta, **Marco G. Casteleijn**, Ritva Juvani, Matti Vaismaa, Ville Ratas, Sampo Mattila, Marja Lajunen, Jouni Pursiainen, Peter Neubauer & Rik Wierenga. 2004. Engineering of Monomeric Triosephosphate Isomerase: Finding The Lead Compound. BCO-Discovery of the Year, Oulu (Finland), Dec 9, 2004 (Poster)
- Marco G. Casteleijn**, Markus Alahuhta, Matti Vaismaa, Ritva Juvani, Marja Lajunen, Jouni Pursiainen, Rik K. Wierenga, Peter Neubauer. 2004. Kealases - New engineered enzymes for the stereo selective synthesis of chiral alpha-hydroxyaldehydes. FEBS Forum for Young Scientists (29th FEBS Congress), Warsaw (Poland), June 26 - July 1, 2004 (Poster)
- Waard, P., **Casteleijn, M.G.**, Toren, J. Jongen, P.M.J.M. 2001. Post marketing testing in The Netherlands of Recombinant Human Growth Hormone. 6th Annual Meeting of the European Network of Official Medicines Control Laboratories (OMCL), Uppsala (Sweden), April 23-27, 2001 (Poster)

Others

Marco G. Casteleijn. 2007. Biocatalysis: Engineering, Discovery and Characterization. www.oulu.fi/bioprocess/biocatalysis.pdf

