

1996-2000

- Reuter, I., Werner, T. and Wingender, E.
Computer-assisted methods for the identification and characterization of polymerase II promoters
Genetic Engineering: principles and methods, Vol. 20; J. K. Setlow (ed.), Plenum Press, New York and London, 25-40 (1998).
- Pickert, L., Reuter, I., Klawonn, F. and Wingender, E.
Transcription regulatory region analysis using signal detection and fuzzy clustering
Bioinformatics 14, 244-251 (1998).
- Sacht, G., Marten, A., Deiters, U., Süssmuth, R., Jung, G., Wingender, E. and Mühlradt, P. F.
Activation of nuclear factor-kappaB in macrophages by mycoplasmal lipopeptides
Eur. J. Immunol. 28, 4207-4212 (1998).
- Kolchanov, N. A., Ponomarenko, M. P., Kel, A. E., Kondrakhin, Y. V., Frolov, A. S., Kolpakov, F. A., Goryachkovsky, T. N., Kel, O. V., Ananko, E. A., Ignatieva, E. V., Podkolodnaya, O. A., Babenko, V. N., Stepanenko, I. L., Romashchenko, A. G., Merkulova, T. I., Vorobiev, D. G., Lavryushev, S. V., Ponomarenko, Y. V., Kochetov, A. V., Kolesov, G. B., Solovyev, V. V., Milanesi, L., Podkolodny, N. L., Wingender, E. and Heinemeyer, T.
GeneExpress: a computer system for description, analysis, and recognition of regulatory sequences in eukaryotic genome
Ismb 6, 95-104 (1998).
- Kel, A., Kel-Margoulis, O., Babenko, V. and Wingender, E.
Recognition of NFATp/AP-1 composite elements within genes induced upon the activation of immune cells
J. Mol. Biol. 288, 353-376 (1999).
- Heinemeyer, T., Chen, X., Karas, H., Kel, A. E., Kel, O. V., Liebich, I., Meinhardt, T., Reuter, I., Schacherer, F. and Wingender, E.
Expanding the TRANSFAC database towards an expert system of regulatory molecular mechanisms
Nucleic Acids Res. 27, 318-322 (1999).
- Wingender, E.
The TRANSFAC System on Gene Regulation
Trends in Glycoscience and Glycotechnology 12, 255-264 (2000).
- Roulet, E., Bucher, P., Schneider, R., Wingender, E., Dusserre, Y., Werner, T. and Mermoud, N.
Experimental analysis and computer prediction of CTF/NFI Transcription Factor DNA binding sites
J. Mol. Biol. 297, 833-848 (2000).
- Wingender, E., Chen, X., Hehl, R., Karas, H., Liebich, I., Matys, V., Meinhardt, T., Prüß, M., Reuter, I. and Schacherer, F.
TRANSFAC: an integrated system for gene expression regulation
Nucleic Acids Res. 28, 316-319 (2000).
- Kel-Margoulis, O. V., Romashchenko, A. G., Kolchanov, N. A., Wingender, E. and Kel, A. E.
COMPEL: a database on composite regulatory elements providing combinatorial transcriptional regulation
Nucleic Acids Res. 28, 311-315 (2000).
- Chen, X., Dress, A., Karas, H., Reuter, I. and Wingender, E.
A database framework for mapping expression patterns
Computer Science and Biology. Proceedings of the German Conference on Bioinformatics (GCB '99). R. Giegerich, R. Hofestädt, T. Lengauer, W. Mewes, D. Schomburg, M. Vingron and E. Wingender (eds.). GBF-Braunschweig and University of Bielefeld, pp. 174-178 (1999).
- Kolchanov, N. A., Ponomarenko, M. P., Frolov, A. S., Ananko, E. A., Kolpakov, F. A., Ignatieva, E. V., Podkolodnaya, O. A., Goryachkovskaya, T. N., Stepanenko, I. L., Merkulova, T. I., Babenko, V. V., Ponomarenko, Y. V., Kochetov, A. V., Podkolodny, N. L., Vorobiev, D. V., Lavryushev, S. V., Grigorovich, D. A., Kondrakhin, Y. V., Milanesi, L., Wingender, E., Solovyev, V. and Overton, G. C.
Integrated databases and computer systems for studying eukaryotic gene expression
Bioinformatics 15, 669-686 (1999).
- Heinemeyer, T., Wingender, E., Reuter, I., Hermjakob, H., Kel, A. E., Kel, O. V., Ignatieva, E. V., Ananko, E. A., Podkolodnaya, O. A., Kolpakov, F. A., Podkolodny, N. L. and Kolchanov, N. A.
Databases on Transcriptional Regulation: TRANSFAC, TRRD, and COMPEL

- Nucleic Acids Res. 26, 362-367 (1998).
- Flohé, L., Wingender, E. and Brigelius-Flohé, R.
Regulation of Glutathione Peroxidases
Oxidative stress and signal transduction; H. J. Forman, H. Cadenas (eds.), Chapman & Hall, New York, 415-440 (1997).
- Pickert, L., Reuter, I., Klawonn, F. and Wingender, E.
Transcription regulatory regions revealed by signal detection and fuzzy clustering
Proceedings of the German Conference on Bioinformatics GCB '97, Kloster Irsee, Bavaria; H. W. Mewes, D. Frishman (eds.), 99-101 (1997).
- Pickert, L., Klawonn, F. and Wingender, E.
Fuzzy Cluster Analysis for Identification of Gene Regulating Regions
Proc. 7th International Fuzzy Systems Association World Congress (IFSA'97) Vol. IV, Academia, Prague, 56-61 (1997).
- Kuhlenbäumer, G., Rothenburg, S., Matthes, M., Hollmann, C., Wingender, E., Thiele, H.-G., Koch-Nolte, F. and Haag, F.
Expression of the RT6 mono(ADP-ribosyl)transferases is regulated by two promoter regions
Adv. Exp. Med. Biol. 419, 265-270 (1997).
- Ponomarkeno, M. P., Ponomarenko, I. V., Kel, A. E., Kolchanov, N. A., Karas, H., Wingender, E. and Sklenar, H.
Computer analysis of conformational features of the eukaryotic TATA-box DNA promoters
Mol. Biol. (Mosk.) 31, 733-740 (1997).
- Mol. Biol. Engl. Tr. 31, 623-630 (1997). Karas, H., Kel, A. E., Kel, O. V., Kolchanov, N. A. and Wingender, E.
Integrating knowledge on transcriptional regulation of eukaryotic genes based on information from TRANSFAC, TRRD, and COMPEL databases
Mol. Biol. (Mosk.) 31, 637-646 (1997).
Mol. Biol. Engl. Tr. 31, 531-539 (1997).
- Kel, O. V., Kel, A. E., Romashchenko, A. G., Wingender, E. and Kolchanov, N. A.
Composite regulatory elements: classification and description in the COMPEL database
Mol. Biol. (Mosk.) 31, 601-615 (1997).
Mol. Biol. Engl. Tr. 31, 498-512 (1997).
- Wingender, E.
Classification scheme of eukaryotic transcription factors
Molekularnaya Biologiya 31, 584-600 (1997).
Mol. Biol. Engl. Tr. 31, 483-497 (1997).
- Wingender, E., Kel, A. E., Kel, O. V., Karas, H., Heinemeyer, T., Dietze, P., Knüppel, R., Romaschenko, A. G. and Kolchanov, N. A.
TRANSFAC, TRRD and COMPEL: Towards a federated database system on transcriptional regulation
Nucleic Acids Res. 25, 265-268 (1997).
- Wingender, E., Karas, H. and Knüppel, R.
TRANSFAC Database as a Bridge between Sequence Data Libraries and Biological Function
Pacific Symposium on Biocomputing '97 (PSB'97), R. B. Altman, A. K. Dunker, L. Hunter, T. E. Klein (eds.). World Scientific, Singapore - New Jersey - London - Hong Kong 1996, pp. 477-485.
- Kel, A., Kel, O., Ischenko, I., Kolchanov, N., Karas, H., Wingender, E. and Sklenar, H.
TRRD and COMPEL databases on transcription linked to TRANSFAC as tools for analysis and recognition of regulatory sequences
Computer Science and Biology. Proceedings of the German Conference on Bioinformatics (GCB'96), R. Hofestädt, T. Lengauer, M. Löffler, D. Schomburg (eds.). University of Leipzig, Leipzig 1996, pp. 113-117.
- Wingender, E., Karas, H., Dietze, P., Knüppel, R. and Sklenar, H.
Combined approaches for the detection of regulatory DNA-regions
Computer Science and Biology. Proceedings of the German Conference on Bioinformatics (GCB'96), R. Hofestädt, T. Lengauer, M. Löffler, D. Schomburg (eds.). University of Leipzig, Leipzig 1996, pp. 58-63.
- Karas, H., Knüppel, R., Schulz, W., Sklenar, H. and Wingender, E.

Combining structural analysis of DNA with search routines for detection of transcription regulatory elements

Comput. Appl. Biosci. 12, 441-446 (1996).

Haag, F. A., Kuhlenbäumer, G., Koch-Nolte, F., Wingender, E. and Thiele, H.-G.

Structure of the gene encoding the rat T cell ecto-ADP-ribosyltransferase RT6

J. Immunol. 157, 2022-2030 (1996).

Gronwald, W., Schomburg, D., Harder, M. P. F., Mayer, H., Paulsen, J., Wingender, E. and Wray, V.

Structure of recombinant human parathyroid hormone in solution using multidimensional NMR spectroscopy

Biol. Chem. Hoppe-Seyler 377, 175-186 (1996).

Schlüter, K.-D., Wingender, E., Tegge, W. and Piper, H. M.

Parathyroid hormone and parathyroid hormone-related protein reveal different action and structure-function-relationship on adult cardiomyocytes

J. Biol. Chem. 271, 3074-3078 (1996).

Wingender, E., Dietze, P., Karas, H. and Knüppel, R.

TRANSFAC: A database on transcription factors and their DNA binding sites

Nucleic Acids Res. 24, 238-241 (1996).