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[chemistry.org: American Chemical Society - ACS HomePage](#)

chemistry.org is the online gateway to ACS resources, products, and services for members, chemists, scientists, chemical industry professionals, educators, students, children and science enthusiasts.

[Identified Compounds — Metabolomics Fiehn Lab](#)

MS analysis

[MetFrag](#)

MetFrag web interface and MzAnnotate viewer

[Scripps Center For Metabolomics and Mass Spectrometry - XCMS](#)

[MetaboAnalyst](#)

[Lipid Analysis with GC-MS, LC-MS, FT-MS — Metabolomics Fiehn Lab](#)

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[BIOMOL International, LP - Calmodulin Inhibitors](#)

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Search engines/Databases

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[Main Page - Wikipedia, the free encyclopedia](#)

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[BLAST: Basic Local Alignment and Search Tool](#)

The Basic Local Alignment Search Tool (BLAST) finds regions of local similarity between sequences. The program compares nucleotide or protein sequences to sequence databases and calculates the statistical significance of matches. BLAST can be used to infer functional and evolutionary relationships between sequences as well as help identify members of gene families.

[PlantsDB](#)

Work related

[AOCS > Publications > Online Catalog > Modern Methods for Lipid Analysis by Liquid Chromatography/Mass Spectrometry and Related Techniques](#)

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SAGE

[Serial Analysis of Gene Expression: Information from Answers.com](#)

Serial Analysis of Gene Expression Serial analysis of gene expression (SAGE) is a technique used by molecular biologists to produce a snapshot of the

[Oncology: The Sidney Kimmel Comprehensive Cancer Center](#)

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European Molecular Biology Laboratory

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European Molecular Biology Laboratory

[Human Genetics at Johns Hopkins - Kinzler, K](#)

Predoctoral Training Program in Human Genetics at Johns Hopkins University

[Serial Analysis of Gene Expression](#)

[The Science Creative Quarterly » PAINLESS GENE EXPRESSION PROFILING: SAGE \(SERIAL ANALYSIS OF GENE EXPRESSION\)](#)

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[Internet IPK Gatersleben](#)

Institut of plant genetics and crop plant research

[GenXPro :: GENome-wide eXpression PROfiling](#)

[Serial Analysis of Gene Expression](#)

[SAGEmap](#)

NCBI's SAGEmap resource is a public resource for serial analysis of gene expression data.

[SAGE Genie](#)

[Entry for Plant Genomes {Plant Genomes Central}](#)

Plant Central provides access to plant genomic resources at NCBI and links to TaxTable, ProtTable, COG Table, 3-D neighbors, BLAST, CDD search, and FTP.

<http://www.vision.ime.usp.br/~rvencio/SAGEbetaBin/>

Institutes/Universities

[Leibniz Institut für Pflanzenbiochemie: home](#)

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[index](#)

[Max Planck Institute for Chemical Ecology by Enni - Google 3D Warehouse](#)

[Centro de Biotecnología "Dr. Daniel Alkalay Lowitt"](#)

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[Institut de Biologie Moléculaire des Plantes - UPR2357: Home](#)

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Fellowships/Grants

[fellowships, awards, scholar, Alexander von Humboldt Foundation - Germany - fellowship, fellowships,](#)

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fellowships and awards. The Alexander von Humboldt Foundation grants research fellowships and research awards to highly qualified scholars and scientists of all nationalities not resident in Germany.

[Research Funding](#)

Pointers to some organizations and government agencies funding research in computational linguistics

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[DAAD - Deutscher Akademischer Austausch Dienst - Study and research in Germany](#)

[DAAD IC Buenos Aires - Home](#)

[DFG - Deutsche Forschungsgemeinschaft](#)

Homepage der Deutschen Forschungsgemeinschaft, DFG

[Interface Europe - Strategy and Projects for Research & Innovation - Calls for proposals](#)

Interface Europe - The Experts in European financing.

[CORDIS: Community Research and Development Information Service: Homepage](#)

Community Research and Development Information Service (CORDIS) provides information on all EU-supported R&D activities, including programmes, projects, results, publications and partners

[CORDIS: FP7: Find a Call](#)

[INCO - Portal](#)

Programme for RTD Cooperation with third countries and international organisations (1994-1998).

[ERC: European Research Council](#)

[Home : European Science Foundation](#)

The European Science Foundation promotes high quality science at a European level. It acts as a catalyst for the development of science by bringing together leading scientists and funding agencies to debate, plan and implement pan-European initiatives.

DFG

[Antragsmonitor - Abfrage zum Bearbeitungsstand von Anträgen](#)

Antibodies-Peptides

[Eurogentec - Antibodies from peptides versus proteins](#)

The best antibody results are obtained from antigens that present the most number of desirable epitopes. Your choice should be based on the following information: Protein antigens provide most number of linear epitopes most number of structural epitopes highest chance of generating antibodies that are useful in a wide range of applications however could have homology with unwanted fa

[Eurogentec - Polyclonal Antibody Production](#)

Eurogentec: Polyclonal antibody services from your proteins or our peptides. Check out our 28-day polyclonal! Free consultation and quick quotation, click here.

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Molecular Biology research requires the use of high purity reagents and chemicals to ensure accurate results. Eurogentec provides a broad range of Molecular Biology Reagents. Our Molecular Biology Reagents are quality tested to ensure the highest level of purity and the lowest level of endogenous proteins, DNA or RNA. Extensive contaminant assays, unit activity assays, and specific functional assays are performed at critical stages of production to ensure the highest quality.

[Guaranteed Antibody - GenScript](#)

GenScript's Western GUARANTEED peptide polyclonal antibody package satisfies your need for quality antibodies that generate positive western blot results.

Molecular tools for analysis

[SignalP 3.0 Server](#)

[Restriction enzyme digest of DNA](#)

[TAB, an official homepage of BY-2 transcriptome.](#)

[MEROPS - the Peptidase Database](#)

Protease information resource.

[KEGG: Kyoto Encyclopedia of Genes and Genomes](#)

KEGG (Kyoto Encyclopedia of Genes and Genomes) is a bioinformatics resource for linking genomes to life and the environment

[KEGG PATHWAY Database](#)

[GENESTIGATOR - shaping biological discovery](#)

[Genevestigator - shaping biological discovery](#)

[Leaf Extraction](#)

[ATTED-II: Home](#)

[EisenLab](#)

[TOBFAC: TOBacco transcription FACTors](#)

TOBFAC is a knowledgebase of tobacco transcription factors that combines nearly 3,000 genes from the gene space sequence, published genes, literature on tobacco transcription factors and EST data.

[TAIR - Home Page](#)

[Tools for Multiple Alignments](#)

[ExPASy - UniProt Knowledgebase: Swiss-Prot and TrEMBL](#)

[CLUSTALW WWW System](#)

[ICE Blast Server](#)

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Capillary Electrophoresis, -Electrochromatography

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[DEVIL: Duke EnVironmental stable Isotope Laboratory](#)

[Multalin interface page](#)

[EBI Tools: ClustalW2](#)

Clustalw2, Multiple sequence alignments

[Bilder der Forschung | Intro](#)

[PLANTS Profile for Nicotiana attenuata \(coyote tobacco\) | USDA PLANTS](#)

A PLANTS profile of Nicotiana attenuata (coyote tobacco) from the USDA PLANTS database

[Cytochrome P450 Homepage](#)

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BioInfoBank Library

LOX related

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[Lipoxygenases](#)

[Lipoxygenase structure](#)

Conferences Meetings

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[International Society for Molecular Plant-Microbe Interactions](#)

<http://www.chemecol.org/meetings/meetings.htm>

tobacco and solanum

[Agilent | Tobacco Oligo Microarray Kit](#)

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Tomato Genetics Resource Center at University of California, Davis

[Potato Germplasm Bank Neiker](#)

Potato Germplasm Bank

[INTA Balcarce - Actualidad Papera Nº 5 - Conservación de germoplasma de papa](#)

Estación Experimental Agropecuaria Balcarce del INTA

[Seed](#)

[Centre for Genetic Resources, the Netherlands - Wageningen UR - Wageningen UR](#)

[CIP Germplasm Ordering System](#)

Potato, Sweetpotato, Germplasm

[Repository Home Page - National Plant Germplasm System, GRIN](#)

How to obtain information from the NPGS

insect

[Welcome to BugGuide.Net! - BugGuide.Net](#)

An online resource devoted to North American insects, spiders and their kin, offering identification, images, and information.

Sequencing 454 Illumina

[Agencourt Bioscience | DNA Sequencing Services & Nucleic Acid Purification Products](#)

Agencourt genomic services enable biotechnology, pharmaceutical, government and academic research laboratories to develop new and more effective drugs. Agencourt offers an array of SPRI-based nucleic acid purification kits for customers who wish to improve and automate their own sequencing and discovery initiatives.

[www.microsynth.ch: System specification/Workflow](#)

Microsynth AG - Your partner in DNA-Synthesis, DNA-Sequencing,, GMO Analysis, Genotyping and Fire blight. Herstellung von Oligonukleotiden, Bestimmung der DNA-Sequenz, GVO-Analytik, Vaterschaftsuntersuchung und Feuerbrandkit.

[: 454 Life Sciences, a Roche Company](#)

Genome & DNA Sequencing Services, De Novo Assembly, Mapping of Genomic DNA, PCR, & MicroRNA. Whole Genome Shotgun Sequencing, Screening, & Analysis.

[Agilent Comparative Genomic Hybridization \(CGH\) Microarray services](#)

[Next-Generation Sequencing Products at Applied Biosystems](#)

Research and purchase Next-Generation Sequencing and other products at Applied Biosystems.

[Next Generation Sequencing Analysis | Voila! Cloud Computing](#)

Voila! data analysis is a cloud-based service for RNA-Seq next-generation sequencing data

[MiSeq Personal Sequencer - Illumina](#)

UPM Spain

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Gene Ontology website

[The Gene Ontology](#)

[Gene Index - DFCI](#)

[UniProt](#)

[ExPASy - UniProt Knowledgebase: Swiss-Prot and TrEMBL](#)

[Plant Proteome Annotation Program \(PPAP\)](#)

[JCVI: Home](#)

Piriformospora indica

[Nature Protocols: Development of electroporation-mediated transformation system for axenically cultivable root endophyte fungus Piriformospora indica](#)

[Atul Kumar Johri](#)

Microarrays

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Analysis of polymorphisms and so on

[START version 2](#)

[Ka/Ks ratio - Wikipedia, the free encyclopedia](#)

[McDonald–Kreitman test - Wikipedia, the free encyclopedia](#)

[DnaSP Software](#)

[Julio Rozas](#)

[The Vmatch large scale sequence analysis software](#)

The Vmatch large scale sequence analysis software is a versatile software tool for efficiently solving large scale sequence matching tasks.

[Genetic Power Calculator](#)

[Software written by Dave Curtis](#)

[CLUMP documentation](#)

Lipases

[Fluorescence-based phospholipase assays—Table 17.3 | Life Technologies](#)

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Systems biology tools

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[ScienceDirect.com - Trends in Plant Science - Decoding genes with coexpression networks and metabolomics – ‘majority report by precogs’](#)

[Networks / Pajek](#)

[Cytoscape: An Open Source Platform for Complex Network Analysis and Visualization](#)

[WGCNA: R package for performing Weighted Gene Co-expression Network Analysis](#)

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Banks

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, The world of UBS e-banking, With UBS e-banking you can carry out all your banking transactions online. Quickly and simply, securely and conveniently. Wherever you are and whenever you want.

[MSU Federal Credit Union](#)

[Sparkasse Jena-Saale-Holzland \(830 530 30\) - Internet-Filiale](#)

Die Internetfiliale der Sparkasse Jena-Saale-Holzland

[MSU Federal Credit Union](#)

Newspapers

[LANACION.com](#)

LANACION.com - Información actualizada las 24 horas

[Clarín](#)

Diego confirmó esta tarde que Grondona "se decidió por el proyecto" que impulsa él. "El equipo lo formo yo", afirmó el Diez, quien tendrá en su equipo de trabajo entre otros a Bilardo como secretario técnico y a Signorini como preparador físico.

[The New York Times - Breaking News, World News & Multimedia](#)

Find breaking news, multimedia, reviews & opinion on Washington, business, sports, movies, travel, books, jobs, education, real estate, cars & more.

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Dictionaries

[Geman-english dictionary](#)

QuickDic ist ein Deutsch-Englisch-Wörterbuch mit mehr als 265000 Begriffen und Redewendungen. Kostenlose Windows-Version zum Herunterladen.

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Merriam-Webster provides a free online dictionary, thesaurus, audio pronunciations, Word of the Day, word games, and other English language resources.

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[Encyclopedia of Life](#)

Encyclopedia of Life

[Research Funding: Funding Opportunities in Research - academics.com](#)

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[European Plant Science Organisation \(EPSO\) Homepage](#)

EUROPEAN PLANT SCIENCE ORGANISATION promotes funding of european plant science research and collaboration among scienteis on a European scale

[about illumina - about illumina: overview - Illumina, Inc.](#)

[«Brussels in Brief - Interface Europe's Newsletter» - September 2008 - Interface Europe](#)

«Brussels in Brief - Interface Europe's Newsletter» - September 2008

[Phytoplasma Resource Center](#)

[EMBL - About Us - Events - Nov 15 - 18, 2008](#)

[Botanikertagung 2009 - Leipzig](#)
[Max Planck Institut für Chemische Ökologie](#)
[IVS-BM: Access to Databases](#)

Max-Planck-Institut für Biochemie in Martinsried eines der größten Institute in der Max-Planck-Gesellschaft bietet Grundlagenforschern vielfältige Möglichkeiten der Kooperation. Als übergeordnete Thematik stellt sich das Verständnis der fundamentalen zellulären Elemente dar, die die verschiedenen Funktionen biologischer Makromoleküle bestimmen. Nukleinsäuren als Träger der genetischen Information, Proteine und Peptide als Strukturelemente der dreidimensionalen Organisation der Zelle. Ihre Faltung und Funktion sind ebenso Gegenstand der Forschung wie Zellorganellen und Membranen, Viren, Onkogene, Archaeobakterien, höhere Zellen und ganze Organismen.

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European Commission - EURAXESS Jobs Portal - Home page of the EURAXESS Jobs Portal

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[F21M12.14 Arabidopsis thaliana P43333](#)
The European Bioinformatics Institute
[U2 small nuclear ribonucleoprotein A' - Arabidopsis thaliana \(Mouse-ear cress\)](#)

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The European Bioinformatics Institute
[MetaCyc Encyclopedia of Metabolic Pathways](#)
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[Sequence Analysis](#)
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[Ribosomal Database Project - Release 10](#)

Ribosomal Database Project at Michigan State University

[ICE Blast Server](#)
[IAL - Instituto de Agrobiotecnología del Litoral / UNL / CONICET](#)
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DSMZ, the German Resource Centre for Biological Material.

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MolPort is a platform for chemical sourcing and logistics. MolPort is advanced chemical marketplace,

made for the research scientists in the chemical community. With the best possible molecule structure search engine and easy solution for sales, payments and logistics, we are providing the long-awaited platform for a worldwide fine chemical marketplace.

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[Dabringhausen 2011](#)

Die Homepage der 24. Tagung Molekularbiologie der Pflanzen in Dabringhausen 2011

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[Glasgow 2011 Home Page](#)

Society for Experimental Biology annual main meeting 2011 taking place in Glasgow

[Installing PCLinuxOS - Full tutorial](#)

Step-by-step image and text tutorial to installing PCLinuxOS Linux operating system - Intro

[ExpASY - Tools](#)

ExpASy World Wide Web (WWW) molecular biology server of the Swiss Institute of Bioinformatics (SIB)
Sequence analysis tools

[Cornell Chronicle: Renowned biologist Tom Eisner dies at 81](#)

Professor Emeritus Thomas Eisner, a world-renowned authority on animal behavior, chemical ecology and evolution, died from complications of Parkinson's disease March 25 at home in Ithaca. He was 81.

[NWS radar image from Cedar City, UT](#)

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Dein Guide für Filme in Kino, TV und auf DVD. Entdecke Filme auf eine neue Art – erhalte persönliche Vorhersagen, wie gut dir ein Film gefallen wird.

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<http://www.hr.ubc.ca/careers-postings/staff.php>
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<http://www.biotechjobs.at/index.php?PHPSESSID=abd20792c94859993b9bfbf59a70f95b>

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Phage display describes a selection technique in which a library of variants of a peptide or protein is expressed on the outside of a phage virion, while the genetic material encoding each variant resides on the inside (1-3). This creates a physical linkage between each variant protein sequence and the DNA encoding it, which allows rapid partitioning based on binding affinity to a given target molecule (antibodies, enzymes, cell-surface receptors, etc.) by an *in vitro* selection process called *panning* (4). In its simplest form (Figure 1), panning is carried out by incubating a library of phage-displayed peptides with a plate (or bead) coated with the target, washing away the unbound phage, and eluting the specifically bound phage. The eluted phage is then amplified and taken through additional binding/amplification cycles to enrich the pool in favor of binding sequences. After 3-4 rounds, individual clones are characterized by DNA sequencing and ELISA.

New England Biolabs offers 3 pre-made random peptide libraries, as well as the cloning vector M13KE for construction of custom libraries. The pre-made libraries consist of linear heptapeptide (Ph.D.-7) and dodecapeptide (Ph.D.-12) libraries, as well as a disulfide-constrained heptapeptide (Ph.D.-C7C) library. The randomized segment of the Ph.D.-C7C library is flanked by a pair of cysteine residues, which are oxidized during phage assembly to a disulfide linkage, resulting in the displayed peptides being presented to the target as loops. All of the libraries have complexities in excess of 2 billion independent clones. The randomized peptide sequences in all three libraries are expressed at the N-terminus of the minor coat protein pIII, resulting in a valency of 5 copies of the displayed peptide per virion. In both the Ph.D.-7 and the Ph.D.-12 libraries, the first residue of the peptide-pIII fusion is the first randomized position, while the first randomized position in the Ph.D.-C7C library is preceded by Ala-Cys. All of the libraries contain a short linker sequence (Gly-Gly-Gly-Ser) between the displayed peptide and pIII.

The Ph.D. libraries have been used for myriad applications, including epitope mapping (Figure 2), identification of protein-protein contacts (5) and enzyme inhibitors (6) and discovery of peptide ligands for GroEL (7), HIV (8-11), semiconductor surfaces (12) and small-molecule fluorophores (13) and drugs (14). Bioactive receptor ligands have been identified both by panning against purified receptors (15-18) and against intact cells (19-22). Peptides which target specific cell types have been isolated by *in vitro* panning and used for cell-specific gene delivery (23-26). Ligands for mold spores (27) and bacterial cells (28) have also been identified using this system, including a peptide that specifically inhibits anthrax toxin, both *in vitro* and *in vivo* (29). Finally, tissue-specific peptides have been isolated by *in vivo* panning, in which phage is injected into a live animal, the relevant organs harvested and phage isolated from each tissue type (30,31).

Please click the link for Applications of the Ph.D. Phage Display Peptide Libraries.

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Omicron Biochemicals, Inc. is a biotechnology company specializing in the synthesis of stable isotopes for biomedical research. We offer single, multiple, and uniform labeling of saccharides, nucleosides and their derivatives with 13C, 2H, and 15N. Established in 1982, we are located in South Bend, Indiana.

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(Steapsin) From Porcine Pancreas Stable powder with a lipase value equal to 3.5 times the U.S.P. specification. Ref.: Bauer and Wilson, J. Amer. Pharm. Assoc., 34 : 109, (1947).

LOX and P450 inhibitors

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