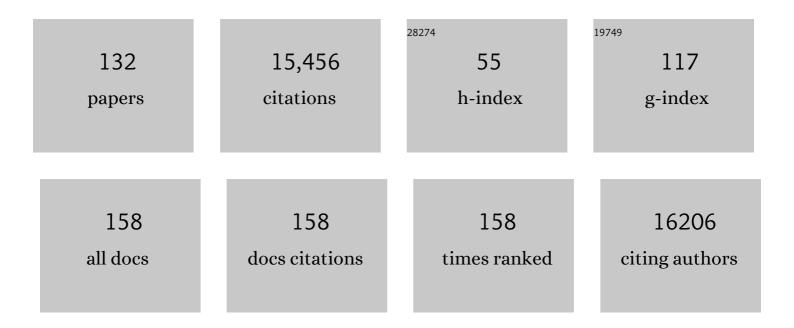
Mikhail V Matz

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Mechanisms and potential immune tradeoffs of accelerated coral growth induced by microfragmentation. PeerJ, 2022, 10, e13158. | 2.0 | 4 |
| 2 | Changes in gene body methylation do not correlate with changes in gene expression in Anthozoa or Hexapoda. BMC Genomics, 2022, 23, 234. | 2.8 | 19 |
| 3 | Coralâ€bleaching responses to climate change across biological scales. Global Change Biology, 2022, 28, 4229-4250. | 9.5 | 44 |
| 4 | Benchmarking DNA methylation assays in a reefâ€building coral. Molecular Ecology Resources, 2021, 21, 464-477. | 4.8 | 12 |
| 5 | Gene expression associated with disease resistance and long-term growth in a reef-building coral. Royal Society Open Science, 2021, 8, 210113. | 2.4 | 10 |
| 6 | Comparative neurotranscriptomics reveal widespread species differences associated with bonding. BMC Genomics, 2021, 22, 399. | 2.8 | 7 |
| 7 | Environmental specialization and cryptic genetic divergence in two massive coral species from the Florida Keys Reef Tract. Molecular Ecology, 2021, 30, 3468-3484. | 3.9 | 27 |
| 8 | Shuffling between <i>Cladocopium</i> and <i>Durusdinium</i> extensively modifies the physiology of each symbiont without stressing the coral host. Molecular Ecology, 2021, 30, 6585-6595. | 3.9 | 10 |
| 9 | How mitonuclear discordance and geographic variation have confounded species boundaries in a widely studied snake. Molecular Phylogenetics and Evolution, 2021, 162, 107194. | 2.7 | 21 |
| 10 | Six priorities to advance the science and practice of coral reef restoration worldwide. Restoration Ecology, 2021, 29, e13498. | 2.9 | 36 |
| 11 | A 2b-RAD parentage analysis pipeline for complex and mixed DNA samples. Forensic Science International: Genetics, 2021, 55, 102590. | 3.1 | 3 |
| 12 | Population genetics of the coral <i>Acropora millepora</i> : Toward genomic prediction of bleaching. Science, 2020, 369, . | 12.6 | 167 |
| 13 | <i>Cladocopium</i> community divergence in two <i>Acropora</i> coral hosts across multiple spatial scales. Molecular Ecology, 2020, 29, 4559-4572. | 3.9 | 21 |
| 14 | Metaâ€analysis of the coral environmental stress response: <i>Acropora</i> corals show opposing responses depending on stress intensity. Molecular Ecology, 2020, 29, 2855-2870. | 3.9 | 60 |
| 15 | Molecular tools for coral reef restoration: Beyond biomarker discovery. Conservation Letters, 2020, 13, e12687. | 5.7 | 44 |
| 16 | Estimating the potential for coral adaptation to global warming across the Indoâ€West Pacific. Global Change Biology, 2020, 26, 3473-3481. | 9.5 | 54 |
| 17 | Positive genetic associations among fitness traits support evolvability of a reefâ€building coral under multiple stressors. Clobal Change Biology, 2019, 25, 3294-3304. | 9.5 | 50 |
| 18 | Considerations for maximizing the adaptive potential of restored coral populations in the western Atlantic. Ecological Applications, 2019, 29, e01978. | 3.8 | 163 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Role of host genetics and heatâ€tolerant algal symbionts in sustaining populations of the endangered coral <i>Orbicella faveolata</i> in the Florida Keys with ocean warming. Global Change Biology, 2019, 25, 1016-1031. | 9.5 | 111 |
| 20 | Comparative transcriptomics of sympatric species of coral reef fishes (genus: Haemulon). PeerJ, 2019, 7, e6541. | 2.0 | 6 |
| 21 | Effects of thermal stress on amount, composition, and antibacterial properties of coral mucus. PeerJ, 2019, 7, e6849. | 2.0 | 23 |
| 22 | CRISPR/Cas9-mediated genome editing in a reef-building coral. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5235-5240. | 7.1 | 110 |
| 23 | Complex selection on a regulator of social cognition: Evidence of balancing selection, regulatory interactions and population differentiation in the prairie vole Avpr1a locus. Molecular Ecology, 2018, 27, 419-431. | 3.9 | 3 |
| 24 | Fantastic Beasts and How To Sequence Them: Ecological Genomics for Obscure Model Organisms. Trends in Genetics, 2018, 34, 121-132. | 6.7 | 64 |
| 25 | Role of gene body methylation in acclimatization and adaptation in a basal metazoan. Proceedings of the United States of America, 2018, 115, 13342-13346. | 7.1 | 136 |
| 26 | Potential and limits for rapid genetic adaptation to warming in a Great Barrier Reef coral. PLoS Genetics, 2018, 14, e1007220. | 3.5 | 184 |
| 27 | Contrasting effects of <i>Symbiodinium</i> identity on coral host transcriptional profiles across latitudes. Molecular Ecology, 2018, 27, 3103-3115. | 3.9 | 23 |
| 28 | Molecular characterization of larval development from fertilization to metamorphosis in a reef-building coral. BMC Genomics, 2018, 19, 17. | 2.8 | 39 |
| 29 | Relationship between <i>Acropora millepora</i> juvenile fluorescence and composition of newly established <i>Symbiodinium</i> assemblage. PeerJ, 2018, 6, e5022. | 2.0 | 5 |
| 30 | Transcriptome dynamics over a lunar month in a broadcast spawning acroporid coral. Molecular Ecology, 2017, 26, 2514-2526. | 3.9 | 32 |
| 31 | Modeled differences of coral life-history traits influence the refugium potential of a remote Caribbean reef. Coral Reefs, 2017, 36, 913-925. | 2.2 | 30 |
| 32 | Intraspecific differences in molecular stress responses and coral pathobiome contribute to mortality under bacterial challenge in Acropora millepora. Scientific Reports, 2017, 7, 2609. | 3.3 | 78 |
| 33 | Population structure and connectivity of the mountainous star coral, <i>Orbicella faveolata</i> , throughout the wider Caribbean region. Ecology and Evolution, 2017, 7, 9234-9246. | 1.9 | 49 |
| 34 | Rapid adaptive responses to climate change in corals. Nature Climate Change, 2017, 7, 627-636. | 18.8 | 327 |
| 35 | Gene expression plasticity as a mechanism of coral adaptation to a variable environment. Nature Ecology and Evolution, 2017, 1, 14. | 7.8 | 306 |
| 36 | Coral larvae for restoration and research: a large-scale method for rearing <i>Acropora millepora</i> larvae, inducing settlement, and establishing symbiosis. PeerJ, 2017, 5, e3732. | 2.0 | 67 |

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|----|---|------|-----------|
| 37 | Variation in heat shock protein expression at the latitudinal range limits of a widelyâ€distributed species, the <scp>G</scp> lanville fritillary butterfly (<i><scp>M</scp>elitaea cinxia</i>). Physiological Entomology, 2016, 41, 241-248. | 1.5 | 15 |
| 38 | Evolutionary Consequences of DNA Methylation in a Basal Metazoan. Molecular Biology and Evolution, 2016, 33, 2285-2293. | 8.9 | 57 |
| 39 | Red fluorescence in coral larvae is associated with a diapauseâ€like state. Molecular Ecology, 2016, 25, 559-569. | 3.9 | 28 |
| 40 | Evolutionary origins of germline segregation in Metazoa: evidence for a germ stem cell lineage in the coral <i>Orbicella faveolata</i> (Cnidaria, Anthozoa). Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152128. | 2.6 | 34 |
| 41 | Differential responses of coral larvae to the colour of ambient light guide them to suitable settlement microhabitat. Royal Society Open Science, 2015, 2, 150358. | 2.4 | 46 |
| 42 | Fineâ€scale environmental specialization of reefâ€building corals might be limiting reef recovery in the Florida Keys. Ecology, 2015, 96, 3197-3212. | 3.2 | 74 |
| 43 | Exploring the role of Micronesian islands in the maintenance of coral genetic diversity in the Pacific Ocean. Molecular Ecology, 2015, 24, 70-82. | 3.9 | 68 |
| 44 | Estimating Trait Heritability in Highly Fecund Species. G3: Genes, Genomes, Genetics, 2015, 5, 2639-2645. | 1.8 | 17 |
| 45 | A Hinge Migration Mechanism Unlocks the Evolution of Green-to-Red Photoconversion in GFP-like Proteins. Structure, 2015, 23, 34-43. | 3.3 | 58 |
| 46 | Heritable differences in fitness-related traits among populations of the mustard hill coral, Porites astreoides. Heredity, 2015, 115, 509-516. | 2.6 | 74 |
| 47 | Genomic determinants of coral heat tolerance across latitudes. Science, 2015, 348, 1460-1462. | 12.6 | 473 |
| 48 | Quantitative high resolution melting: two methods to determine SNP allele frequencies from pooled samples. BMC Genetics, 2015, 16, 62. | 2.7 | 14 |
| 49 | Gene expression associated with white syndromes in a reef building coral, Acropora hyacinthus. BMC Genomics, 2015, 16, 371. | 2.8 | 271 |
| 50 | Deep-Sequencing Method for Quantifying Background Abundances of Symbiodinium Types: Exploring the Rare Symbiodinium Biosphere in Reef-Building Corals. PLoS ONE, 2014, 9, e94297. | 2.5 | 135 |
| 51 | Quantifying cryptic <i>Symbiodinium</i> diversity within <i>Orbicella faveolata</i> and <i>Orbicella franksi</i> at the Flower Garden Banks, Gulf of Mexico. PeerJ, 2014, 2, e386. | 2.0 | 55 |
| 52 | A cross-ocean comparison of responses to settlement cues in reef-building corals. PeerJ, 2014, 2, e333. | 2.0 | 22 |
| 53 | Bimodal signatures of germline methylation are linked with gene expression plasticity in the coral Acropora millepora. BMC Genomics, 2014, 15, 1109. | 2.8 | 89 |
| 54 | Diagnostic gene expression biomarkers of coral thermal stress. Molecular Ecology Resources, 2014, 14, 667-678. | 4.8 | 65 |

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|----|---|------|-----------|
| 55 | Demystifying the <scp>RAD</scp> fad. Molecular Ecology, 2014, 23, 5937-5942. | 3.9 | 199 |
| 56 | So, you want to use next-generation sequencing in marine systems? Insight from the Pan-Pacific Advanced Studies Institute. Bulletin of Marine Science, 2014, 90, 79-122. | 0.8 | 53 |
| 57 | Novel polymorphic microsatellite markers for population genetics of the endangered Caribbean star coral, Montastraea faveolata. Marine Biodiversity, 2013, 43, 167-172. | 1.0 | 47 |
| 58 | Acid–Base Catalysis and Crystal Structures of a Least Evolved Ancestral GFP-like Protein Undergoing Green-to-Red Photoconversion. Biochemistry, 2013, 52, 8048-8059. | 2.5 | 25 |
| 59 | Deep relationships of Rhizaria revealed by phylogenomics: A farewell to Haeckel's Radiolaria. Molecular Phylogenetics and Evolution, 2013, 67, 53-59. | 2.7 | 65 |
| 60 | Evidence for a host role in thermotolerance divergence between populations of the mustard hill coral (<i><scp>P</scp>orites astreoides</i>) from different reef environments. Molecular Ecology, 2013, 22, 4335-4348. | 3.9 | 158 |
| 61 | Gene expression under chronic heat stress in populations of the mustard hill coral (<i><scp>P</scp>orites astreoides</i>) from different thermal environments. Molecular Ecology, 2013, 22, 4322-4334. | 3.9 | 242 |
| 62 | Gene Expression Signatures of Energetic Acclimatisation in the Reef Building Coral Acropora millepora. PLoS ONE, 2013, 8, e61736. | 2.5 | 32 |
| 63 | No Control Genes Required: Bayesian Analysis of qRT-PCR Data. PLoS ONE, 2013, 8, e71448. | 2.5 | 137 |
| 64 | Ecological Complexity of Coral Recruitment Processes: Effects of Invertebrate Herbivores on Coral Recruitment and Growth Depends Upon Substratum Properties and Coral Species. PLoS ONE, 2013, 8, e72830. | 2.5 | 35 |
| 65 | 2b-RAD: a simple and flexible method for genome-wide genotyping. Nature Methods, 2012, 9, 808-810. | 19.0 | 607 |
| 66 | Multi-domain GFP-like proteins from two species of marine hydrozoans. Photochemical and Photobiological Sciences, 2012, 11, 637-644. | 2.9 | 18 |
| 67 | Multi-colored homologs of the green fluorescent protein from hydromedusa Obelia sp Photochemical and Photobiological Sciences, 2011, 10, 1303-1309. | 2.9 | 14 |
| 68 | Profiling gene expression responses of coral larvae (Acropora millepora) to elevated temperature and settlement inducers using a novel RNA-Seq procedure. Molecular Ecology, 2011, 20, no-no. | 3.9 | 328 |
| 69 | Fluorescence of coral larvae predicts their settlement response to crustose coralline algae and reflects stress. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2691-2697. | 2.6 | 53 |
| 70 | Rapid Evolution of Coral Proteins Responsible for Interaction with the Environment. PLoS ONE, 2011, 6, e20392. | 2.5 | 114 |
| 71 | Development of Gene Expression Markers of Acute Heat-Light Stress in Reef-Building Corals of the Genus Porites. PLoS ONE, 2011, 6, e26914. | 2.5 | 108 |
| 72 | Evolution of Rhizaria: new insights from phylogenomic analysis of uncultivated protists. BMC Evolutionary Biology, 2010, 10, 377. | 3.2 | 130 |

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|----|---|------|-----------|
| 73 | Very Bright Green Fluorescent Proteins from the Pontellid Copepod Pontella mimocerami. PLoS ONE, 2010, 5, e11517. | 2.5 | 30 |
| 74 | Retracing Evolution of Red Fluorescence in GFP-Like Proteins from Faviina Corals. Molecular Biology and Evolution, 2010, 27, 225-233. | 8.9 | 60 |
| 75 | Fluorescent Proteins and Their Applications in Imaging Living Cells and Tissues. Physiological Reviews, 2010, 90, 1103-1163. | 28.8 | 1,175 |
| 76 | Characterization of a Group of MITEs with Unusual Features from Two Coral Genomes. PLoS ONE, 2010, 5, e10700. | 2.5 | 14 |
| 77 | Microsatellite Characterization and Marker Development from Public EST and WGS Databases in the Reef-Building Coral Acropora millepora (Cnidaria, Anthozoa, Scleractinia). Journal of Heredity, 2009, 100, 329-337. | 2.4 | 42 |
| 78 | Sequencing and de novo analysis of a coral larval transcriptome using 454 GSFlx. BMC Genomics, 2009, 10, 219. | 2.8 | 405 |
| 79 | Construction of a high-resolution genetic linkage map and comparative genome analysis for the reef-building coral Acropora millepora. Genome Biology, 2009, 10, R126. | 9.6 | 55 |
| 80 | Genetic variation in responses to a settlement cue and elevated temperature in the reef-building coral Acropora millepora. Marine Ecology - Progress Series, 2009, 392, 81-92. | 1.9 | 102 |
| 81 | Giant Deep-Sea Protist Produces Bilaterian-like Traces. Current Biology, 2008, 18, 1849-1854. | 3.9 | 72 |
| 82 | A Green Fluorescent Protein with Photoswitchable Emission from the Deep Sea. PLoS ONE, 2008, 3, e3766. | 2.5 | 32 |
| 83 | Diversity and Evolution of Coral Fluorescent Proteins. PLoS ONE, 2008, 3, e2680. | 2.5 | 281 |
| 84 | Blue light regulation of host pigment in reef-building corals. Marine Ecology - Progress Series, 2008, 364, 97-106. | 1.9 | 110 |
| 85 | Fluorescence lifetime imaging of coral fluorescent proteins. Microscopy Research and Technique, 2007, 70, 243-251. | 2.2 | 18 |
| 86 | Contributions of host and symbiont pigments to the coloration of reef corals. FEBS Journal, 2007, 274, 1102-1122. | 4.7 | 101 |
| 87 | It's cheap to be colorful. FEBS Journal, 2007, 274, 2496-2505. | 4.7 | 64 |
| 88 | Dealing with model uncertainty in reconstructing ancestral proteins in the laboratory: examples from archosaur visual pigments and coralfluorescent proteins. , 2007, , 164-180. | | 2 |
| 89 | Ordered Differential Display. , 2006, 317, 059-074. | | 0 |
| 90 | Statistical Approaches for DNA Barcoding. Systematic Biology, 2006, 55, 162-169. | 5.6 | 122 |

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|-----|--|------|-----------|
| 91 | BOOK REVIEW Aglow in the Dark: The Revolutionary Science of Biofluorescence. Oceanography, 2006, 19, 155-157. | 1.0 | 0 |
| 92 | Photoinduced activation of GFP-like proteins in tissues of reef corals. , 2006, 6098, 64. | | 2 |
| 93 | Are Corals Colorful?. Photochemistry and Photobiology, 2006, 82, 345. | 2.5 | 79 |
| 94 | Adaptive Evolution of Multicolored Fluorescent Proteins in Reef-Building Corals. Journal of Molecular Evolution, 2006, 62, 332-339. | 1.8 | 90 |
| 95 | Discovery and properties of GFP-like proteins from nonbioluminescent anthozoa. Methods of Biochemical Analysis, 2006, 47, 121-38. | 0.2 | 4 |
| 96 | Evolution of Function and Color in GFP-Like Proteins. Methods of Biochemical Analysis, 2005, 47, 139-161. | 0.2 | 12 |
| 97 | A likelihood ratio test for species membership based on DNA sequence data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 1969-1974. | 4.0 | 86 |
| 98 | Applications of Ancestral Protein Reconstruction in Understanding Protein Function: GFP-Like Proteins. Methods in Enzymology, 2005, 395, 652-670. | 1.0 | 20 |
| 99 | Discovery and Properties of GFP-Like Proteins from Nonbioluminescent Anthozoa. Methods of Biochemical Analysis, 2005, , 121-138. | 0.2 | 6 |
| 100 | GFP-like Proteins as Ubiquitous Metazoan Superfamily: Evolution of Functional Features and Structural Complexity. Molecular Biology and Evolution, 2004, 21, 841-850. | 8.9 | 394 |
| 101 | Evolution of Coral Pigments Recreated. Science, 2004, 305, 1433-1433. | 12.6 | 144 |
| 102 | Simple cDNA normalization using kamchatka crab duplex-specific nuclease. Nucleic Acids Research, 2004, 32, 37e-37. | 14.5 | 375 |
| 103 | Amplification of cDNA Ends Using PCR Suppression Effect and Step-Out PCR. , 2003, 221, 41-50. | | 31 |
| 104 | Molecular Basis and Evolutionary Origins of Color Diversity in Great Star Coral Montastraea cavernosa (Scleractinia: Faviida). Molecular Biology and Evolution, 2003, 20, 1125-1133. | 8.9 | 102 |
| 105 | Amplification of Representative cDNA Pools from Microscopic Amounts of Animal Tissue. , 2003, 221, 103-116. | | 21 |
| 106 | Diversity and evolution of the green fluorescent protein family. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4256-4261. | 7.1 | 340 |
| 107 | Identification and characterization of a new family of C-type lectin-like genes from planaria Girardia tigrina. Glycobiology, 2002, 12, 463-472. | 2.5 | 25 |
| 108 | Amplification of Representative cDNA Samples from Microscopic Amounts of Invertebrate Tissue to Search for New Genes. , 2002, 183, 003-018. | | 32 |

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|-----|---|------|-----------|
| 109 | Family of the green fluorescent protein: Journey to the end of the rainbow. BioEssays, 2002, 24, 953-959. | 2.5 | 131 |
| 110 | Altering electrical connections in the nervous system of the pteropod molluscClione limacinaby neuronal injections of gap junction mRNA. European Journal of Neuroscience, 2002, 16, 2475-2476. | 2.6 | 20 |
| 111 | GFP-like chromoproteins as a source of far-red fluorescent proteins. FEBS Letters, 2001, 507, 16-20. | 2.8 | 240 |
| 112 | Refined crystal structure of DsRed, a red fluorescent protein from coral, at 2.0-A resolution. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 462-467. | 7.1 | 422 |
| 113 | NATURAL ANIMAL COLORATION CAN BE DETERMINED BY A NON-FLUORESCENT GFP HOMOLOG. , 2001, , . | | 1 |
| 114 | A ubiquitous family of putative gap junction molecules. Current Biology, 2000, 10, R473-R474. | 3.9 | 485 |
| 115 | Natural Animal Coloration Can Be Determined by a Nonfluorescent Green Fluorescent Protein Homolog. Journal of Biological Chemistry, 2000, 275, 25879-25882. | 3.4 | 300 |
| 116 | Novel fluorescent protein from Discosoma coral and its mutants possesses a unique far-red fluorescence. FEBS Letters, 2000, 479, 127-130. | 2.8 | 136 |
| 117 | "Fluorescent Timer": Protein That Changes Color with Time. Science, 2000, 290, 1585-1588. | 12.6 | 347 |
| 118 | Fluorescent proteins from nonbioluminescent Anthozoa species. Nature Biotechnology, 1999, 17, 969-973. | 17.5 | 1,711 |
| 119 | Amplification of cDNA ends based on template-switching effect and step- out PCR. Nucleic Acids Research, 1999, 27, 1558-1560. | 14.5 | 381 |
| 120 | Regulation of average length of complex PCR product. Nucleic Acids Research, 1999, 27, 23e-23. | 14.5 | 57 |
| 121 | Sequence-Independent Method forin VitroGeneration of Nested Deletions for Sequencing Large DNA Fragments. Analytical Biochemistry, 1998, 258, 138-141. | 2.4 | 5 |
| 122 | Inductive Interactions Regulating Body Patterning in Planarian, Revealed by Analysis of Expression of Novel Genescarf. Developmental Biology, 1998, 194, 172-181. | 2.0 | 22 |
| 123 | Different strategies of differential display: areas of application. Nucleic Acids Research, 1998, 26, 5537-5543. | 14.5 | 71 |
| 124 | Ordered differential display: a simple method for systematic comparison of gene expression profiles. Nucleic Acids Research, 1997, 25, 2541-2542. | 14.5 | 96 |
| 125 | Construction of cDNA Libraries from Small Amounts of Total RNA Using the Suppression PCR Effect. Biochemical and Biophysical Research Communications, 1997, 230, 285-288. | 2.1 | 44 |
| 126 | Whole mount in situhybridization on freshwater planaria. Technical Tips Online, 1997, 2, 100-103. | 0.2 | 0 |

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|-----|---|------|-----------|
| 127 | Molecule by molecule PCR amplification of complex DNA mixtures for direct sequencing: an approach to in vitro cloning. Nucleic Acids Research, 1996, 24, 2194-2195. | 14.5 | 44 |
| 128 | Primary structure of carboxypeptidase T: Delineation of functionally relevant features in Zn-carboxypeptidase family. The Protein Journal, 1992, 11, 561-570. | 1.1 | 28 |
| 129 | Crystal structure of carboxypeptidase T from Thermoactinomyces vulgaris. FEBS Journal, 1992, 208, 281-288. | 0.2 | 65 |
| 130 | Molecular cloning and primary structure of Thermoactinomyces vulgaris carboxypeptidase T A metalloenzyme endowed with dual substrate specificity. FEBS Letters, 1991, 291, 75-78. | 2.8 | 27 |
| 131 | Methods for Analysing mRNA Expression. , 0, , 163-407. | | Ο |
| 132 | Novel fluorescent proteins: diversity, mutagenesis and applications. , 0, 2004, . | | 3 |