

# Thierry Vernet

## List of Publications by Year in descending order

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125  
papers

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43973

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125  
docs citations

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times ranked

7320  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A family of yeast expression vectors containing the phage f1 intergenic region1. <i>Gene</i> , 1987, 52, 225-233.  | 1.0 | 536       |
| 2  | Penicillin-binding proteins and $\beta$ -lactam resistance. <i>FEMS Microbiology Reviews</i> , 2008, 32, 361-385.  | 3.9 | 475       |
| 3  | Enhanced secretion from insect cells of a foreign protein fused to the honeybee melittin signal peptide. <i>Gene</i> , 1991, 98, 177-183.  | 1.0 | 296       |
| 4  | Synthesis of the membrane fusion and hemagglutinin proteins of measles virus, using a novel baculovirus vector containing the beta-galactosidase gene. <i>Journal of Virology</i> , 1990, 64, 37-50.     | 1.5 | 258       |
| 5  | Identification of FtsW as a transporter of lipid-linked cell wall precursors across the membrane. <i>EMBO Journal</i> , 2011, 30, 1425-1432.   | 3.5 | 255       |
| 6  | Role of the Occluding Loop in Cathepsin B Activity. <i>Journal of Biological Chemistry</i> , 1997, 272, 1197-1202.   | 1.6 | 241       |
| 7  | Ebola Virus Matrix Protein VP40 Interaction with Human Cellular Factors Tsg101 and Nedd4. <i>Journal of Molecular Biology</i> , 2003, 326, 493-502.  | 2.0 | 183       |
| 8  | The different shapes of cocci. <i>FEMS Microbiology Reviews</i> , 2008, 32, 345-360.   | 3.9 | 164       |
| 9  | Identification of Proteases Involved in the Proteolysis of Vascular Endothelium Cadherin during Neutrophil Transmigration. <i>Journal of Biological Chemistry</i> , 2003, 278, 14002-14012.              | 1.6 | 150       |
| 10 | Processing of the Papain Precursor. <i>Journal of Biological Chemistry</i> , 1995, 270, 10838-10846.   | 1.6 | 130       |
| 11 | Functional expression of human cathepsin S in <i>Saccharomyces cerevisiae</i> . Purification and characterization of the recombinant enzyme. <i>Journal of Biological Chemistry</i> , 1993, 268, 4832-8. | 1.6 | 128       |
| 12 | Structural and Functional Roles of Asparagine 175 in the Cysteine Protease Papain. <i>Journal of Biological Chemistry</i> , 1995, 270, 16645-16652.  | 1.6 | 127       |
| 13 | Zinc uptake by <i>Streptococcus pneumoniae</i> depends on both AdcA and AdcAll and is essential for normal bacterial morphology and virulence. <i>Molecular Microbiology</i> , 2011, 82, 904-916.        | 1.2 | 122       |
| 14 | Ligation of single-stranded oligodeoxyribonucleotides by T4 RNA ligase. <i>Analytical Biochemistry</i> , 1986, 158, 171-178.   | 1.1 | 121       |
| 15 | Structural Basis of Host Cell Recognition by the Pilus Adhesin from <i>Streptococcus pneumoniae</i> . <i>Structure</i> , 2010, 18, 106-115.  | 1.6 | 120       |
| 16 | Growth and division of <i>Streptococcus pneumoniae</i> : localization of the high molecular weight penicillin-binding proteins during the cell cycle. <i>Molecular Microbiology</i> , 2003, 50, 845-855. | 1.2 | 118       |
| 17 | AdcAll, A New Pneumococcal Zn-Binding Protein Homologous with ABC Transporters: Biochemical and Structural Analysis. <i>Journal of Molecular Biology</i> , 2008, 381, 594-606.                           | 2.0 | 112       |
| 18 | Heterologous Expression of Membrane Proteins: Choosing the Appropriate Host. <i>PLoS ONE</i> , 2011, 6, e29191.  | 1.1 | 109       |

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|----|---|------|-----------|
| 19 | The d,d-carboxypeptidase PBP3 organizes the division process of <i>Streptococcus pneumoniae</i> . <i>Molecular Microbiology</i> , 2004, 51, 1641-1648.  | 1.2  | 96        |
| 20 | Yeast killer toxin: Site-directed mutations implicate the precursor protein as the immunity component. <i>Cell</i> , 1986, 46, 105-113.   | 13.5 | 95        |
| 21 | On-chip microbial culture for the specific detection of very low levels of bacteria. <i>Lab on A Chip</i> , 2013, 13, 4024.   | 3.1  | 91        |
| 22 | Active site restructuring regulates ligand recognition in class A penicillin-binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 577-582.                           | 3.3  | 88        |
| 23 | Coordinated amino acid changes in homologous protein families. <i>Protein Engineering, Design and Selection</i> , 1988, 2, 193-199.   | 1.0  | 87        |
| 24 | The Interaction of <i>Streptococcus pneumoniae</i> with Plasmin Mediates Transmigration across Endothelial and Epithelial Monolayers by Intercellular Junction Cleavage. <i>Infection and Immunity</i> , 2008, 76, 5350-5356.         | 1.0  | 84        |
| 25 | Identification of a structural determinant for resistance to $\beta$ -lactam antibiotics in Gram-positive bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 13403-13406.   | 3.3  | 81        |
| 26 | Mutations in the Active Site of Penicillin-binding Protein PBP2x from <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 19175-19180.  | 1.6  | 80        |
| 27 | Sortase-Mediated Pilus Fiber Biogenesis in <i>Streptococcus pneumoniae</i> . <i>Structure</i> , 2008, 16, 1838-1848.  | 1.6  | 77        |
| 28 | A PBP2x from a Clinical Isolate of <i>Streptococcus pneumoniae</i> Exhibits an Alternative Mechanism for Reduction of Susceptibility to $\beta$ -Lactam Antibiotics. <i>Journal of Biological Chemistry</i> , 2004, 279, 16463-16470. | 1.6  | 76        |
| 29 | Identification of new cysteine protease gene isoforms in <i>Trypanosoma cruzi</i> . <i>Molecular and Biochemical Parasitology</i> , 1994, 67, 333-338.  | 0.5  | 74        |
| 30 | Cysteine protease isoforms from <i>Trypanosoma cruzi</i> , cruzipain 2 and cruzain, present different substrate preference and susceptibility to inhibitors. <i>Molecular and Biochemical Parasitology</i> , 2001, 114, 41-52.        | 0.5  | 74        |
| 31 | Crystal Structure of Penicillin-binding Protein 1a (PBP1a) Reveals a Mutational Hotspot Implicated in $\beta$ -Lactam Resistance in <i>Streptococcus pneumoniae</i> . <i>Journal of Molecular Biology</i> , 2006, 355, 684-696.       | 2.0  | 74        |
| 32 | <i>In vitro</i> Reconstitution of Peptidoglycan Assembly from the Gram-Positive Pathogen <i>Streptococcus pneumoniae</i> . <i>ACS Chemical Biology</i> , 2013, 8, 2688-2696.  | 1.6  | 74        |
| 33 | <i>Triatoma infestans</i> Apyrases Belong to the 5'-Nucleotidase Family. <i>Journal of Biological Chemistry</i> , 2004, 279, 19607-19613.   | 1.6  | 71        |
| 34 | A systematic mutagenesis-driven strategy for site-resolved NMR studies of supramolecular assemblies. <i>Journal of Biomolecular NMR</i> , 2011, 50, 229-236.  | 1.6  | 70        |
| 35 | Processing of the papain precursor. Purification of the zymogen and characterization of its mechanism of processing. <i>Journal of Biological Chemistry</i> , 1991, 266, 21451-7.   | 1.6  | 68        |
| 36 | <i>In vitro</i> reconstitution of a trimeric complex of DivIB, DivIC and FtsL, and their transient co-localization at the division site in <i>Streptococcus pneumoniae</i> . <i>Molecular Microbiology</i> , 2004, 55, 413-424.       | 1.2  | 67        |

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|----|--|-----|-----------|
| 37 | Crystal Structure of a Peptidoglycan Synthesis Regulatory Factor (PBP3) from <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 15984-15991.  | 1.6 | 63        |
| 38 | Remodeling of the Z-Ring Nanostructure during the <i>Streptococcus pneumoniae</i> Cell Cycle Revealed by Photoactivated Localization Microscopy. <i>MBio</i> , 2015, 6, .  | 1.8 | 63        |
| 39 | Interaction of Penicillin-binding Protein 2x and Serine/Threonine protein kinase StkP, two key players in <i>S. pneumoniae</i> morphogenesis. <i>Molecular Microbiology</i> , 2013, 90, 88-102.  | 1.2 | 60        |
| 40 | Secretion of functional papain precursor from insect cells. Requirement for N-glycosylation of the pro-region. <i>Journal of Biological Chemistry</i> , 1990, 265, 16661-6.  | 1.6 | 59        |
| 41 | Alteration of Endothelial Cell Monolayer Integrity Triggers Resynthesis of Vascular Endothelium Cadherin. <i>Journal of Biological Chemistry</i> , 1998, 273, 29786-29793.   | 1.6 | 58        |
| 42 | <i>Streptococcus pneumoniae</i> Choline-Binding Protein E Interaction with Plasminogen/Plasmin Stimulates Migration across the Extracellular Matrix. <i>Infection and Immunity</i> , 2008, 76, 466-476.  | 1.0 | 58        |
| 43 | Structure-function analysis of the LytM domain of EnvC, an activator of cell wall remodelling at the <i>E. coli</i> division site. <i>Molecular Microbiology</i> , 2013, 89, 690-701.  | 1.2 | 58        |
| 44 | Osmotic-shock stress proteins in protoplasts of <i>Nicotiana glauca</i> . <i>Plant Science Letters</i> , 1982, 26, 159-165.  | 1.9 | 57        |
| 45 | The pro-region of the Kex2 endoprotease of <i>Saccharomyces cerevisiae</i> is removed by self-processing. <i>FEBS Letters</i> , 1992, 299, 283-286.  | 1.3 | 56        |
| 46 | Functional Mapping of Conserved Residues Located at the VL and VH Domain Interface of a Fab. <i>Journal of Molecular Biology</i> , 1996, 264, 1-6.   | 2.0 | 55        |
| 47 | Crystal Structure of Phosphorylcholine Esterase Domain of the Virulence Factor Choline-binding Protein E from <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 28591-28600.   | 1.6 | 55        |
| 48 | Pneumococcal $\beta$ -Lactam Resistance Due to a Conformational Change in Penicillin-binding Protein 2x. <i>Journal of Biological Chemistry</i> , 2006, 281, 1771-1777.  | 1.6 | 55        |
| 49 | Expression of the Gene Coding for the Small Subunit of Ribulosebiphosphate Carboxylase during Differentiation of Tobacco Plant Protoplasts. <i>FEBS Journal</i> , 1982, 126, 489-494.  | 0.2 | 51        |
| 50 | The Structural Modifications Induced by the M339F Substitution in PBP2x from <i>Streptococcus pneumoniae</i> Further Decreases the Susceptibility to $\beta$ -Lactams of Resistant Strains. <i>Journal of Biological Chemistry</i> , 2003, 278, 44448-44456. | 1.6 | 51        |
| 51 | Human and Pneumococcal Cell Surface Glyceraldehyde-3-phosphate Dehydrogenase (GAPDH) Proteins Are Both Ligands of Human C1q Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 42620-42633.  | 1.6 | 51        |
| 52 | Identification, Purification, and Characterization of Transpeptidase and Glycosyltransferase Domains of <i>Streptococcus pneumoniae</i> Penicillin-Binding Protein 1a. <i>Journal of Bacteriology</i> , 1998, 180, 5652-5659.                                | 1.0 | 50        |
| 53 | The expression in <i>Escherichia coli</i> of a synthetic gene coding for the precursor of papain is prevented by its own putative signal sequence. <i>Gene</i> , 1989, 77, 229-236.  | 1.0 | 48        |
| 54 | New Insights into Histidine Triad Proteins: Solution Structure of a <i>Streptococcus pneumoniae</i> PhtD Domain and Zinc Transfer to AdcAll. <i>PLoS ONE</i> , 2013, 8, e81168.  | 1.1 | 48        |

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|----|---|-----|-----------|
| 55 | Genetic and molecular approaches to synthesis and action of the yeast killer toxin. <i>Experientia</i> , 1990, 46, 193-200.   | 1.2 | 45        |
| 56 | BIACORE Data Processing: An Evaluation of the Global Fitting Procedure. <i>Analytical Biochemistry</i> , 2001, 293, 194-203.  | 1.1 | 45        |
| 57 | Biochemical Characterization of <i>Streptococcus pneumoniae</i> Penicillin-Binding Protein 2b and Its Implication in $\beta$ -Lactam Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 1848-1855.                              | 1.4 | 45        |
| 58 | Functional Characterization of Penicillin-Binding Protein 1b from <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2003, 185, 1650-1658.  | 1.0 | 44        |
| 59 | Identical Penicillin-Binding Domains in Penicillin-Binding Proteins of <i>Streptococcus pneumoniae</i> Clinical Isolates with Different Levels of $\beta$ -Lactam Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 2895-2902. | 1.4 | 44        |
| 60 | Common Alterations in PBP1a from Resistant <i>Streptococcus pneumoniae</i> Decrease Its Reactivity toward $\beta$ -Lactams. <i>Journal of Biological Chemistry</i> , 2008, 283, 4886-4894.  | 1.6 | 44        |
| 61 | Biochemical Characterization of the Histidine Triad Protein PhtD as a Cell Surface Zinc-Binding Protein of <i>Pneumococcus</i> . <i>Biochemistry</i> , 2011, 50, 3551-3558.   | 1.2 | 43        |
| 62 | Effects of Deletion of the <i>Streptococcus pneumoniae</i> Lipoprotein Diacylglyceryl Transferase Gene <i>lgt</i> on ABC Transporter Function and on Growth In Vivo. <i>PLoS ONE</i> , 2012, 7, e41393.   | 1.1 | 40        |
| 63 | Membrane Topology of the <i>Streptococcus pneumoniae</i> FtsW Division Protein. <i>Journal of Bacteriology</i> , 2002, 184, 1925-1931.  | 1.0 | 39        |
| 64 | Characterization and nucleotide sequence of a colicin-release gene in the <i>hie</i> region of plasmid ColE3-CA38. <i>Gene</i> , 1984, 29, 175-184.   | 1.0 | 37        |
| 65 | Central Domain of DivIB Caps the C-terminal Regions of the FtsL/DivIC Coiled-coil Rod. <i>Journal of Biological Chemistry</i> , 2009, 284, 27687-27700.   | 1.6 | 37        |
| 66 | The Glycosyltransferase Domain of Penicillin-Binding Protein 2a from <i>Streptococcus pneumoniae</i> Catalyzes the Polymerization of Murein Glycan Chains. <i>Journal of Bacteriology</i> , 2003, 185, 4418-4423.                                 | 1.0 | 35        |
| 67 | Synergy between Extracellular Modules of Vascular Endothelial Cadherin Promotes Homotypic Hexameric Interactions. <i>Journal of Biological Chemistry</i> , 2002, 277, 12790-12801.  | 1.6 | 34        |
| 68 | Mutual antagonism among killer yeasts: competition between K1 and K2 killers and a novel cDNA-based K1-K2 killer strain of <i>Saccharomyces cerevisiae</i> . <i>Canadian Journal of Microbiology</i> , 1988, 34, 38-44.                           | 0.8 | 33        |
| 69 | Effects on interaction kinetics of mutations at the VH-VL interface of Fabs depend on the structural context. <i>Journal of Molecular Recognition</i> , 2000, 13, 127-139.  | 1.1 | 33        |
| 70 | Glycosyltransferase Domain of Penicillin-Binding Protein 2a from <i>Streptococcus pneumoniae</i> Is Membrane Associated. <i>Journal of Bacteriology</i> , 1999, 181, 2773-2781.   | 1.0 | 31        |
| 71 | Stability and Assembly of Pilus Subunits of <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 12405-12415.  | 1.6 | 30        |
| 72 | Expression of functional papain precursor in <i>Saccharomyces cerevisiae</i> : rapid screening of mutants. <i>Protein Engineering, Design and Selection</i> , 1993, 6, 213-219.   | 1.0 | 29        |

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|----|--|-----|-----------|
| 73 | Structural Basis for the Substrate Specificity of a Novel Î <sup>2</sup> -N-Acetylhexosaminidase StrH Protein from <i>Streptococcus pneumoniae</i> R6. <i>Journal of Biological Chemistry</i> , 2011, 286, 43004-43012.                                      | 1.6 | 29        |
| 74 | The Elongation of <i>Ovococci</i> . <i>Microbial Drug Resistance</i> , 2014, 20, 215-221.  | 0.9 | 29        |
| 75 | Determination of the two-component systems regulatory network reveals core and accessory regulations across <i>Pseudomonas aeruginosa</i> lineages. <i>Nucleic Acids Research</i> , 2021, 49, 11476-11490.   | 6.5 | 28        |
| 76 | Correlation of co-ordinated amino acid changes at the two-domain interface of cysteine proteases with protein stability. <i>Journal of Molecular Biology</i> , 1992, 224, 501-509.   | 2.0 | 27        |
| 77 | Self-assembly of the Vascular Endothelial Cadherin Ectodomain in a Ca <sup>2+</sup> -dependent Hexameric Structure. <i>Journal of Biological Chemistry</i> , 2001, 276, 3581-3588.   | 1.6 | 27        |
| 78 | Increase of the deacylation rate of PBP2x from <i>Streptococcus pneumoniae</i> by single point mutations mimicking the class A Î <sup>2</sup> -lactamases. <i>FEBS Journal</i> , 2002, 269, 1678-1683.   | 0.2 | 26        |
| 79 | Relationships of the Col plasmids E2, E3, E4, E5, E6, and E7: Restriction mapping and colicin gene fusions. <i>Plasmid</i> , 1985, 13, 205-210.  | 0.4 | 25        |
| 80 | Schmid's Metaphyseal Chondrodysplasia Mutations Interfere with Folding of the C-terminal Domain of Human Collagen X Expressed in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 18909-18915.                                  | 1.6 | 25        |
| 81 | Deacylation Kinetics Analysis of <i>Streptococcus pneumoniae</i> Penicillin-Binding Protein 2x Mutants Resistant to Î <sup>2</sup> -Lactam Antibiotics Using Electrospray Ionization Mass Spectrometry. <i>Analytical Biochemistry</i> , 2000, 284, 240-246. | 1.1 | 25        |
| 82 | The membrane anchor of penicillin-binding protein PBP2a from <i>Streptococcus pneumoniae</i> influences peptidoglycan chain length. <i>FEBS Journal</i> , 2012, 279, 2071-2081.  | 2.2 | 25        |
| 83 | Expression, purification, crystallization and preliminary X-ray analysis of the Î <sup>2</sup> -carrageenase from <i>Pseudoalteromonas carrageenovora</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 918-920.         | 2.5 | 24        |
| 84 | Roles of Pneumococcal DivIB in Cell Division. <i>Journal of Bacteriology</i> , 2008, 190, 4501-4511.   | 1.0 | 24        |
| 85 | Expression of the <i>Saccharomyces cerevisiae</i> Kex2p endoprotease in insect cells. Evidence for a carboxy-terminal autoprocessing event. <i>FEBS Journal</i> , 1992, 204, 121-126.  | 0.2 | 23        |
| 86 | Expression, purification, crystallization and preliminary X-ray analysis of the Î <sup>1</sup> -carrageenase from <i>Alteromonas fortis</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 766-768.                       | 2.5 | 23        |
| 87 | <i>Streptococcus pneumoniae</i> GAPDH Is Released by Cell Lysis and Interacts with Peptidoglycan. <i>PLoS ONE</i> , 2015, 10, e0125377.  | 1.1 | 23        |
| 88 | Full-length structure of the major autolysin LytA. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1373-1381.  | 2.5 | 22        |
| 89 | Cloning and expression of <i>Geotrichum candidum</i> lipase II gene in yeast. Probing of the enzyme active site by site-directed mutagenesis. <i>Journal of Biological Chemistry</i> , 1993, 268, 26212-9.   | 1.6 | 22        |
| 90 | A direct-selection vector derived from pColE3-CA38 and adapted for foreign gene expression. <i>Gene</i> , 1985, 34, 87-93.   | 1.0 | 21        |

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|-----|---|-----|-----------|
| 91  | Optimization of conditions for the glycosyltransferase activity of penicillin-binding protein 1a from <i>Thermotoga maritima</i> . FEBS Journal, 2010, 277, 4290-4298.                          | 2.2 | 20        |
| 92  | Small molecule inhibitors of peptidoglycan synthesis targeting the lipid II precursor. Biochemical Pharmacology, 2011, 81, 1098-1105.   | 2.0 | 19        |
| 93  | Mechanism of $\beta$ -Lactam Action in <i>Streptococcus pneumoniae</i> : the Piperacillin Paradox. Antimicrobial Agents and Chemotherapy, 2015, 59, 609-621.                                    | 1.4 | 19        |
| 94  | Codon-Based Combinatorial Alanine Scanning Site-Directed Mutagenesis: Design, Implementation, and Polymerase Chain Reaction Screening. Analytical Biochemistry, 1995, 229, 282-290.             | 1.1 | 18        |
| 95  | Bifunctional Penicillin-Binding Proteins: Focus on the Glycosyltransferase Domain and its Specific Inhibitor Moenomycin. Current Pharmaceutical Biotechnology, 2002, 3, 63-75.                  | 0.9 | 18        |
| 96  | Kinetics of expression of the salivary apyrases in <i>Triatoma infestans</i> . Insect Biochemistry and Molecular Biology, 2004, 34, 1051-1058.  | 1.2 | 18        |
| 97  | Peptidoglycan O-acetylation is functionally related to cell wall biosynthesis and cell division in <i>Streptococcus pneumoniae</i> . Molecular Microbiology, 2017, 106, 832-846.                | 1.2 | 18        |
| 98  | Removal of an inter-domain hydrogen bond through site-directed mutagenesis: role of serine 176 in the mechanism of papain. Protein Engineering, Design and Selection, 1991, 4, 307-311.         | 1.0 | 17        |
| 99  | Deciphering Key Residues Involved in the Virulence-promoting Interactions between <i>Streptococcus pneumoniae</i> and Human Plasminogen. Journal of Biological Chemistry, 2017, 292, 2217-2225. | 1.6 | 17        |
| 100 | Reconstitution of Membrane Protein Complexes Involved in Pneumococcal Septal Cell Wall Assembly. PLoS ONE, 2013, 8, e75522.   | 1.1 | 14        |
| 101 | Mapping of the interaction between the immunodominant loop of the ectodomain of HIV-1 gp41 and human complement protein C1q. FEBS Journal, 1999, 265, 656-663.                                  | 0.2 | 13        |
| 102 | Functional mapping of conserved, surface-exposed charges of antibody variable domains. Journal of Molecular Recognition, 2002, 15, 94-103.  | 1.1 | 13        |
| 103 | Rapid automated detergent screening for the solubilization and purification of membrane proteins and complexes. Engineering in Life Sciences, 2015, 15, 39-50.                                  | 2.0 | 13        |
| 104 | Specific and spatial labeling of choline-containing teichoic acids in <i>Streptococcus pneumoniae</i> by click chemistry. Chemical Communications, 2017, 53, 10572-10575.                       | 2.2 | 13        |
| 105 | Redesigning the active site of <i>Geotrichum candidum</i> lipase. Protein Engineering, Design and Selection, 1995, 8, 835-842.  | 1.0 | 11        |
| 106 | Automated high-throughput process for site-directed mutagenesis, production, purification, and kinetic characterization of enzymes. Analytical Biochemistry, 2006, 355, 110-116.                | 1.1 | 11        |
| 107 | Peptidoglycan Assembly Machines: The Biochemical Evidence. Microbial Drug Resistance, 2012, 18, 256-260.  | 0.9 | 11        |
| 108 | Nascent teichoic acids insertion into the cell wall directs the localization and activity of the major pneumococcal autolysin LytA. Cell Surface, 2018, 2, 24-37.                               | 1.5 | 11        |

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|-----|--|-----|-----------|
| 109 | Stable maintenance in chemostat-grown <i>Escherichia coli</i> of pBR322 and pACYC184 by disruption of the tetracycline resistance gene*. <i>Bioscience Reports</i> , 1985, 5, 29-37.   | 1.1 | 10        |
| 110 | Structural studies of the transpeptidase domain of PBP1a from <i>Streptococcus pneumoniae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1067-1069.   | 2.5 | 10        |
| 111 | Modulation of the enzymatic activity of papain by interdomain residues remote from the active site. <i>Protein Engineering, Design and Selection</i> , 1994, 7, 769-776.   | 1.0 | 9         |
| 112 | Expression and purification of FtsW and RodA from <i>Streptococcus pneumoniae</i> , two membrane proteins involved in cell division and cell growth, respectively. <i>Protein Expression and Purification</i> , 2003, 30, 18-25.       | 0.6 | 9         |
| 113 | Establishment of cell-cell junctions depends on the oligomeric states of VE-cadherin. <i>Journal of Biochemistry</i> , 2007, 143, 821-832.   | 0.9 | 9         |
| 114 | Spot peptide arrays and SPR measurements: throughput and quantification in antibody selectivity studies. <i>Journal of Molecular Recognition</i> , 2015, 28, 635-644.  | 1.1 | 9         |
| 115 | Identification of a two-component regulatory system involved in antimicrobial peptide resistance in <i>Streptococcus pneumoniae</i> . <i>PLoS Pathogens</i> , 2022, 18, e1010458.  | 2.1 | 9         |
| 116 | Large scale purification of linear plasmid DNA for efficient high throughput cloning. <i>Biotechnology Journal</i> , 2010, 5, 978-985.   | 1.8 | 8         |
| 117 | Deletion of the Zinc Transporter Lipoprotein AdcAll Causes Hyperencapsulation of <i>Streptococcus pneumoniae</i> Associated with Distinct Alleles of the Type I Restriction-Modification System. <i>MBio</i> , 2020, 11, .             | 1.8 | 8         |
| 118 | Why are quiescent mesophyll protoplasts from <i>Nicotiana sylvestris</i> able to re-enter into the cell cycle and re-initiate a mitotic activity?. <i>Biochimie</i> , 1993, 75, 539-545.   | 1.3 | 7         |
| 119 | Parallel screening and optimization of protein constructs for structural studies. <i>Protein Science</i> , 2009, 18, 434-439.  | 3.1 | 7         |
| 120 | One-Pot Two-Step Metabolic Labeling of Teichoic Acids and Direct Labeling of Peptidoglycan Reveals Tight Coordination of Both Polymers Inserted into <i>Pneumococcus</i> Cell Wall. <i>ACS Chemical Biology</i> , 2018, 13, 2010-2015. | 1.6 | 6         |
| 121 | Antibody Binding Selectivity: Alternative Sets of Antigen Residues Entail High-Affinity Recognition. <i>PLoS ONE</i> , 2015, 10, e0143374.   | 1.1 | 5         |
| 122 | Structural and Enzymatic Characterization of the Streptococcal ATP/Diadenosine Polyphosphate and Phosphodiester Hydrolase Spr1479/SapH*. <i>Journal of Biological Chemistry</i> , 2011, 286, 35906-35914.                              | 1.6 | 4         |
| 123 | Expression and characterization of <i>Geotrichum candidum</i> lipase I gene. Comparison of specificity profile with lipase II. <i>FEBS Journal</i> , 1995, 228, 863-9.   | 0.2 | 4         |
| 124 | Recombinant expression of the precursor of the hemorrhagic metalloproteinase HF3 and its non-catalytic domains using a cell-free synthesis system. <i>Amino Acids</i> , 2016, 48, 2205-2214.   | 1.2 | 3         |
| 125 | Reduction of Strong Lipase-Polyclonal Antibodies Binding by Limited Proteolysis. <i>Analytical Biochemistry</i> , 1995, 226, 31-34.  | 1.1 | 1         |