

Andreas Rummel

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,876
citations

147726

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128225

60
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64
all docs

64
docs citations

64
times ranked

1512
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Construction and validation of safe Clostridium botulinum Group II surrogate strain producing inactive botulinum neurotoxin type E toxoid. Scientific Reports, 2022, 12, 1790. | 1.6 | 8 |
| 2 | Innovative and Highly Sensitive Detection of Clostridium perfringens Enterotoxin Based on Receptor Interaction and Monoclonal Antibodies. Toxins, 2021, 13, 266. | 1.5 | 4 |
| 3 | Human-Relevant Sensitivity of iPSC-Derived Human Motor Neurons to BoNT/A1 and B1. Toxins, 2021, 13, 585. | 1.5 | 5 |
| 4 | The 25 kDa HCN Domain of Clostridial Neurotoxins Is Indispensable for Their Neurotoxicity. Toxins, 2020, 12, 743. | 1.5 | 5 |
| 5 | Optimization of SNAP-25 and VAMP-2 Cleavage by Botulinum Neurotoxin Serotypes A–F Employing Taguchi Design-of-Experiments. Toxins, 2019, 11, 588. | 1.5 | 1 |
| 6 | Functional detection of botulinum neurotoxin serotypes A to F by monoclonal neopeptide-specific antibodies and suspension array technology. Scientific Reports, 2019, 9, 5531. | 1.6 | 26 |
| 7 | Botulinum neurotoxin serotype D – A potential treatment alternative for BoNT/A and B non-responding patients. Clinical Neurophysiology, 2019, 130, 1066-1073. | 0.7 | 13 |
| 8 | Structural and biochemical characterization of the protease domain of the mosaic botulinum neurotoxin type HA. Pathogens and Disease, 2018, 76, . | 0.8 | 12 |
| 9 | The hypothetical protein P47 of Clostridium botulinum E1 strain Beluga has a structural topology similar to bactericidal/permeability-increasing protein. Toxicon, 2018, 147, 19-26. | 0.8 | 16 |
| 10 | A viral-fusion-peptide-like molecular switch drives membrane insertion of botulinum neurotoxin A1. Nature Communications, 2018, 9, 5367. | 5.8 | 30 |
| 11 | Botulinum Neurotoxin F Subtypes Cleaving the VAMP-2 Q58–K59 Peptide Bond Exhibit Unique Catalytic Properties and Substrate Specificities. Toxins, 2018, 10, 311. | 1.5 | 6 |
| 12 | A lipid-binding loop of botulinum neurotoxin serotypes B, DC and G is an essential feature to confer their exquisite potency. PLoS Pathogens, 2018, 14, e1007048. | 2.1 | 27 |
| 13 | BoNT/AB hybrid maintains similar duration of paresis as BoNT/A wild-type in murine running wheel assay. NeuroToxicology, 2017, 59, 1-8. | 1.4 | 10 |
| 14 | A camelid single-domain antibody neutralizes botulinum neurotoxin A by blocking host receptor binding. Scientific Reports, 2017, 7, 7438. | 1.6 | 16 |
| 15 | Historical Perspectives and Guidelines for Botulinum Neurotoxin Subtype Nomenclature. Toxins, 2017, 9, 38. | 1.5 | 232 |
| 16 | Botulinum neurotoxin C mutants reveal different effects of syntaxin or SNAP-25 proteolysis on neuromuscular transmission. PLoS Pathogens, 2017, 13, e1006567. | 2.1 | 27 |
| 17 | Crystal Structure of the Receptor-Binding Domain of Botulinum Neurotoxin Type HA, Also Known as Type FA or H. Toxins, 2017, 9, 93. | 1.5 | 24 |
| 18 | Botulinum Neurotoxin Serotype A Recognizes Its Protein Receptor SV2 by a Different Mechanism than Botulinum Neurotoxin B Synaptotagmin. Toxins, 2016, 8, 154. | 1.5 | 29 |

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|----|--|-----|-----------|
| 19 | Two Feet on the Membrane: Uptake of Clostridial Neurotoxins. <i>Current Topics in Microbiology and Immunology</i> , 2016, 406, 1-37. | 0.7 | 40 |
| 20 | Only the complex N559-glycan in the synaptic vesicle glycoprotein 2C mediates high affinity binding to botulinum neurotoxin serotype A1. <i>Biochemical Journal</i> , 2016, 473, 2645-2654. | 1.7 | 28 |
| 21 | N-linked glycosylation of SV2 is required for binding and uptake of botulinum neurotoxin A. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 656-662. | 3.6 | 95 |
| 22 | Biological toxins of potential bioterrorism risk: Current status of detection and identification technology. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 85, 89-102. | 5.8 | 27 |
| 23 | Detection, differentiation, and identification of botulinum neurotoxin serotypes C, CD, D, and DC by highly specific immunoassays and mass spectrometry. <i>Analyst, The</i> , 2016, 141, 5281-5297. | 1.7 | 20 |
| 24 | Qualitative and Quantitative Detection of Botulinum Neurotoxins from Complex Matrices: Results of the First International Proficiency Test. <i>Toxins</i> , 2015, 7, 4935-4966. | 1.5 | 22 |
| 25 | Botulinum Neurotoxins: Qualitative and Quantitative Analysis Using the Mouse Phrenic Nerve Hemidiaphragm Assay (MPN). <i>Toxins</i> , 2015, 7, 4895-4905. | 1.5 | 37 |
| 26 | Generation and Characterization of Six Recombinant Botulinum Neurotoxins as Reference Material to Serve in an International Proficiency Test. <i>Toxins</i> , 2015, 7, 5035-5054. | 1.5 | 38 |
| 27 | Preface Biological Toxins—Ancient Molecules Posing a Current Threat. <i>Toxins</i> , 2015, 7, 5320-5321. | 1.5 | 9 |
| 28 | Isolation and Functional Characterization of the Novel Clostridium botulinum Neurotoxin A8 Subtype. <i>PLoS ONE</i> , 2015, 10, e0116381. | 1.1 | 59 |
| 29 | Inhibiting oral intoxication of botulinum neurotoxin A complex by carbohydrate receptor mimics. <i>Toxicon</i> , 2015, 107, 43-49. | 0.8 | 10 |
| 30 | The long journey of botulinum neurotoxins into the synapse. <i>Toxicon</i> , 2015, 107, 9-24. | 0.8 | 82 |
| 31 | Clostridium difficile toxin B inhibits the secretory response of human mast cell line-1 (HMC-1) cells stimulated with high free-Ca ²⁺ and GTP γ S. <i>Toxicology</i> , 2015, 328, 48-56. | 2.0 | 3 |
| 32 | Draft Genome Sequence of Bivalent Clostridium botulinum Strain IBCA10-7060, Encoding Botulinum Neurotoxin B and a New FA Mosaic Type. <i>Genome Announcements</i> , 2014, 2, . | 0.8 | 39 |
| 33 | Structural Basis of the pH-Dependent Assembly of a Botulinum Neurotoxin Complex. <i>Journal of Molecular Biology</i> , 2014, 426, 3773-3782. | 2.0 | 28 |
| 34 | The Dual-Receptor Recognition of Botulinum Neurotoxins. , 2014, , 129-150. | | 0 |
| 35 | Identification of the synaptic vesicle glycoprotein 2 receptor binding site in botulinum neurotoxin A. <i>FEBS Letters</i> , 2014, 588, 1087-1093. | 1.3 | 40 |
| 36 | High-resolution crystal structure of HA33 of botulinum neurotoxin type B progenitor toxin complex. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 568-573. | 1.0 | 20 |

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|----|--|-----|-----------|
| 37 | Molecular basis for disruption of E-cadherin adhesion by botulinum neurotoxin A complex. <i>Science</i> , 2014, 344, 1405-1410. | 6.0 | 95 |
| 38 | Neutralisation of specific surface carboxylates speeds up translocation of botulinum neurotoxin type B enzymatic domain. <i>FEBS Letters</i> , 2013, 587, 3831-3836. | 1.3 | 33 |
| 39 | Exchanging the minimal cell binding fragments of tetanus neurotoxin in botulinum neurotoxin A and B impacts their toxicity at the neuromuscular junction and central neurons. <i>Toxicon</i> , 2013, 75, 108-121. | 0.8 | 8 |
| 40 | Human mast cell line-1 (HMC-1) cells exhibit a membrane capacitance increase when dialysed with high free-Ca ²⁺ and GTP ^γ S containing intracellular solution. <i>European Journal of Pharmacology</i> , 2013, 720, 227-236. | 1.7 | 12 |
| 41 | Botulinum Neurotoxin G Binds Synaptotagmin-II in a Mode Similar to That of Serotype B: Tyrosine 1186 and Lysine 1191 Cause Its Lower Affinity. <i>Biochemistry</i> , 2013, 52, 3930-3938. | 1.2 | 21 |
| 42 | Identification of the SV2 protein receptor-binding site of botulinum neurotoxin type A. <i>Biochemical Journal</i> , 2013, 453, 37-47. | 1.7 | 43 |
| 43 | Structure of a Bimodular Botulinum Neurotoxin Complex Provides Insights into Its Oral Toxicity. <i>PLoS Pathogens</i> , 2013, 9, e1003690. | 2.1 | 102 |
| 44 | Botulinum Neurotoxin Is Shielded by NTNHA in an Interlocked Complex. <i>Science</i> , 2012, 335, 977-981. | 6.0 | 197 |
| 45 | Human synaptotagmin II is not a high affinity receptor for botulinum neurotoxin B and G: Increased therapeutic dosage and immunogenicity. <i>FEBS Letters</i> , 2012, 586, 310-313. | 1.3 | 72 |
| 46 | Double Receptor Anchorage of Botulinum Neurotoxins Accounts for their Exquisite Neurospecificity. <i>Current Topics in Microbiology and Immunology</i> , 2012, 364, 61-90. | 0.7 | 99 |
| 47 | The biological activity of botulinum neurotoxin type C is dependent upon novel types of ganglioside binding sites. <i>Molecular Microbiology</i> , 2011, 81, 143-156. | 1.2 | 64 |
| 48 | Exchange of the H _{CC} domain mediating double receptor recognition improves the pharmacodynamic properties of botulinum neurotoxin. <i>FEBS Journal</i> , 2011, 278, 4506-4515. | 2.2 | 32 |
| 49 | Botulinum neurotoxin serotype D attacks neurons via two carbohydrate-binding sites in a ganglioside-dependent manner. <i>Biochemical Journal</i> , 2010, 431, 207-216. | 1.7 | 71 |
| 50 | Cell entry strategy of clostridial neurotoxins. <i>Journal of Neurochemistry</i> , 2009, 109, 1584-1595. | 2.1 | 175 |
| 51 | Botulinum neurotoxins C, E and F bind gangliosides via a conserved binding site prior to stimulation-independent uptake with botulinum neurotoxin F utilising the three isoforms of SV2 as second receptor. <i>Journal of Neurochemistry</i> , 2009, 110, 1942-1954. | 2.1 | 146 |
| 52 | Receptor and substrate interactions of clostridial neurotoxins. <i>Toxicon</i> , 2009, 54, 550-560. | 0.8 | 92 |
| 53 | Identification of the protein receptor binding site of botulinum neurotoxins B and G proves the double-receptor concept. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 359-364. | 3.3 | 169 |
| 54 | The synaptic vesicle protein 2C mediates the uptake of botulinum neurotoxin A into phrenic nerves. <i>FEBS Letters</i> , 2006, 580, 2011-2014. | 1.3 | 285 |

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|----|---|------|-----------|
| 55 | Botulinum neurotoxin B recognizes its protein receptor with high affinity and specificity. <i>Nature</i> , 2006, 444, 1092-1095. | 13.7 | 219 |
| 56 | Medical aspects of toxin weapons. <i>Toxicology</i> , 2005, 214, 210-220. | 2.0 | 102 |
| 57 | Synaptotagmins I and II Act as Nerve Cell Receptors for Botulinum Neurotoxin G. <i>Journal of Biological Chemistry</i> , 2004, 279, 30865-30870. | 1.6 | 220 |
| 58 | Botulinum neurotoxin type D enables cytosolic delivery of enzymatically active cargo proteins to neurones via unfolded translocation intermediates. <i>Journal of Neurochemistry</i> , 2004, 91, 1461-1472. | 2.1 | 95 |
| 59 | The HCC-domain of botulinum neurotoxins A and B exhibits a singular ganglioside binding site displaying serotype specific carbohydrate interaction. <i>Molecular Microbiology</i> , 2003, 51, 631-643. | 1.2 | 205 |
| 60 | Two Carbohydrate Binding Sites in the HCC-domain of Tetanus Neurotoxin are Required for Toxicity. <i>Journal of Molecular Biology</i> , 2003, 326, 835-847. | 2.0 | 127 |
| 61 | Arg362 and Tyr365 of the Botulinum Neurotoxin Type A Light Chain Are Involved in Transition State Stabilization. <i>Biochemistry</i> , 2002, 41, 1717-1723. | 1.2 | 104 |