

Kirsten R Wolthers

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Steady-state and pre-steady state kinetic analysis of ornithine 4,5-aminomutase. <i>Methods in Enzymology</i> , 2022, , 173-195. | 0.4 | 0 |
| 2 | Sequence Divergence in the Arginase Domain of Ornithine Decarboxylase/Arginase in <i>Fusobacteriaceae</i> Leads to Loss of Function in Oral Associated Species. <i>Biochemistry</i> , 2022, 61, 1378-1391. | 1.2 | 2 |
| 3 | A Fold Type II PLP-Dependent Enzyme from <i>Fusobacterium nucleatum</i> Functions as a Serine Synthase and Cysteine Synthase. <i>Biochemistry</i> , 2021, 60, 524-536. | 1.2 | 5 |
| 4 | S224 Presents a Catalytic Trade-off in PLP-Dependent L-Lanthionine Synthase from <i>Fusobacterium nucleatum</i> . <i>Biochemistry</i> , 2020, 59, 4250-4261. | 1.2 | 2 |
| 5 | Structural and Kinetic Insight into the Biosynthesis of H ₂ S and L-Lanthionine from Cysteine by a Pyridoxal-Phosphate-Dependent Enzyme from <i>Fusobacterium nucleatum</i> . <i>Biochemistry</i> , 2019, 58, 3592-3603. | 1.2 | 11 |
| 6 | Structural insight into the high reduction potentials observed for <i>Fusobacterium nucleatum</i> flavodoxin. <i>Protein Science</i> , 2019, 28, 1460-1472. | 3.1 | 3 |
| 7 | Kinetic characterization of acetone monooxygenase from <i>Gordonia</i> sp. strain TY-5. <i>AMB Express</i> , 2018, 8, 181. | 1.4 | 13 |
| 8 | Active site arginine controls the stereochemistry of hydride transfer in cyclohexanone monooxygenase. <i>Archives of Biochemistry and Biophysics</i> , 2018, 659, 47-56. | 1.4 | 6 |
| 9 | Active site variants provide insight into the nature of conformational changes that accompany the cyclohexanone monooxygenase catalytic cycle. <i>Archives of Biochemistry and Biophysics</i> , 2018, 654, 85-96. | 1.4 | 4 |
| 10 | Optimal electrostatic interactions between substrate and protein are essential for radical chemistry in ornithine 4,5-aminomutase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1077-1084. | 1.1 | 4 |
| 11 | Role of active site loop in coenzyme binding and flavin reduction in cytochrome P450 reductase. <i>Archives of Biochemistry and Biophysics</i> , 2016, 606, 111-119. | 1.4 | 3 |
| 12 | Microfluidics Integrated Biosensors: A Leading Technology towards Lab-on-a-Chip and Sensing Applications. <i>Sensors</i> , 2015, 15, 30011-30031. | 2.1 | 385 |
| 13 | Kinetic analysis of electron flux in cytochrome P450 reductases reveals differences in rate-determining steps in plant and mammalian enzymes. <i>Archives of Biochemistry and Biophysics</i> , 2015, 584, 107-115. | 1.4 | 12 |
| 14 | Proximal FAD histidine residue influences interflavin electron transfer in cytochrome P450 reductase and methionine synthase reductase. <i>Archives of Biochemistry and Biophysics</i> , 2014, 547, 18-26. | 1.4 | 3 |
| 15 | Isotope Effects for Deuterium Transfer and Mutagenesis of Tyr187 Provide Insight into Controlled Radical Chemistry in Adenosylcobalamin-Dependent Ornithine 4,5-Aminomutase. <i>Biochemistry</i> , 2014, 53, 5432-5443. | 1.2 | 4 |
| 16 | Mitochondrial transcription factor A (Tfam) is a pro-inflammatory extracellular signaling molecule recognized by brain microglia. <i>Molecular and Cellular Neurosciences</i> , 2014, 60, 88-96. | 1.0 | 57 |
| 17 | Kinetic analysis of cytochrome P450 reductase from <i>Artemisia annua</i> reveals accelerated rates of NADPH-dependent flavin reduction. <i>FEBS Journal</i> , 2013, 280, 6627-6642. | 2.2 | 14 |
| 18 | Mutagenesis of a Conserved Glutamate Reveals the Contribution of Electrostatic Energy to Adenosylcobalamin Co ²⁺ C Bond Homolysis in Ornithine 4,5-Aminomutase and Methylmalonyl-CoA Mutase. <i>Biochemistry</i> , 2013, 52, 878-888. | 1.2 | 18 |

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|----|--|-----|-----------|
| 19 | Aromatic substitution of the FAD- ϵ -shielding tryptophan reveals its differential role in regulating electron flux in methionine synthase reductase and cytochrome P450 reductase. FEBS Journal, 2013, 280, 1460-1474. | 2.2 | 7 |
| 20 | Role of histidine 225 in adenosylcobalamin-dependent ornithine 4,5-aminomutase. Bioorganic Chemistry, 2012, 40, 39-47. | 2.0 | 12 |
| 21 | Tryptophan 697 Modulates Hydride and Interflavin Electron Transfer in Human Methionine Synthase Reductase. Biochemistry, 2011, 50, 11131-11142. | 1.2 | 13 |
| 22 | ELDOR Spectroscopy Reveals that Energy Landscapes in Human Methionine Synthase Reductase are Extensively Remodelled Following Ligand and Partner Protein Binding. ChemBioChem, 2011, 12, 863-867. | 1.3 | 13 |
| 23 | Large-scale Domain Dynamics and Adenosylcobalamin Reorientation Orchestrate Radical Catalysis in Ornithine 4,5-Aminomutase. Journal of Biological Chemistry, 2010, 285, 13942-13950. | 1.6 | 48 |
| 24 | Cobalamin uptake and reactivation occurs through specific protein interactions in the methionine synthase-methionine synthase reductase complex. FEBS Journal, 2009, 276, 1942-1951. | 2.2 | 34 |
| 25 | Mechanism of Radical-based Catalysis in the Reaction Catalyzed by Adenosylcobalamin-dependent Ornithine 4,5-Aminomutase. Journal of Biological Chemistry, 2008, 283, 34615-34625. | 1.6 | 33 |
| 26 | Mechanism of Coenzyme Binding to Human Methionine Synthase Reductase Revealed through the Crystal Structure of the FNR-like Module and Isothermal Titration Calorimetry. Biochemistry, 2007, 46, 11833-11844. | 1.2 | 39 |
| 27 | Protein Interactions in the Human Methionine Synthase-Methionine Synthase Reductase Complex and Implications for the Mechanism of Enzyme Reactivation. Biochemistry, 2007, 46, 6696-6709. | 1.2 | 41 |
| 28 | Crystal structure and solution characterization of the activation domain of human methionine synthase. FEBS Journal, 2007, 274, 738-750. | 2.2 | 16 |
| 29 | Electron Transfer in Human Methionine Synthase Reductase Studied by Stopped-Flow Spectrophotometry. Biochemistry, 2004, 43, 490-500. | 1.2 | 31 |
| 30 | Molecular Dissection of Human Methionine Synthase Reductase: Determination of the Flavin Redox Potentials in Full-Length Enzyme and Isolated Flavin-Binding Domains. Biochemistry, 2003, 42, 3911-3920. | 1.2 | 54 |
| 31 | Identification and in Vitro Biological Activities of Hop Proanthocyanidins: Inhibition of nNOS Activity and Scavenging of Reactive Nitrogen Species. Journal of Agricultural and Food Chemistry, 2002, 50, 3435-3443. | 2.4 | 87 |