

Joel B Dacks

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

7,540⁰
citations

47
h-index

85
g-index

153
ext. papers

8,715
ext. citations

7.2
avg, IF

5.87
L-index

#	Paper	IF	Citations
132	A Phosphoinositide-Binding Protein Acts in the Trafficking Pathway of Hemoglobin in the Malaria Parasite <i>Plasmodium falciparum</i> .. <i>MBio</i> , 2022 , e0323921	7.8	1
131	Distribution of Membrane Trafficking System Components Across Ciliate Diversity Highlights Heterogenous Organelle-Associated Machinery.. <i>Traffic</i> , 2022 ,	5.7	1
130	Molecular Evolutionary Analysis of the SM and SNARE Vesicle Fusion Machinery in Ciliates shows Concurrent Expansions in Late Secretory Machinery.. <i>Journal of Eukaryotic Microbiology</i> , 2022 , e12919	3.6	0
129	Proteomic analysis of <i>Trichomonas vaginalis</i> phagolysosome, lysosomal targeting, and unconventional secretion of cysteine peptidases. <i>Molecular and Cellular Proteomics</i> , 2021 , 100174	7.6	0
128	Genomics and transcriptomics yields a system-level view of the biology of the pathogen <i>Naegleria fowleri</i> . <i>BMC Biology</i> , 2021 , 19, 142	7.3	7
127	The <i>Mastigamoeba balamuthi</i> Genome and the Nature of the Free-Living Ancestor of <i>Entamoeba</i> . <i>Molecular Biology and Evolution</i> , 2021 , 38, 2240-2259	8.3	7
126	A Eukaryote-Wide Perspective on the Diversity and Evolution of the ARF GTPase Protein Family. <i>Genome Biology and Evolution</i> , 2021 , 13,	3.9	2
125	Unexpected organellar locations of ESCRT machinery in <i>Giardia intestinalis</i> and complex evolutionary dynamics spanning the transition to parasitism in the lineage Fornicata. <i>BMC Biology</i> , 2021 , 19, 167	7.3	3
124	The reduced ARF regulatory system in <i>Giardia intestinalis</i> pre-dates the transition to parasitism in the lineage Fornicata. <i>International Journal for Parasitology</i> , 2021 , 51, 825-839	4.3	1
123	Evolution and Natural History of Membrane Trafficking in Eukaryotes. <i>Current Biology</i> , 2020 , 30, R553-R564	15.4	14
122	Mechanism and evolution of the Zn-fingernail required for interaction of VARP with VPS29. <i>Nature Communications</i> , 2020 , 11, 5031	17.4	6
121	Phylogenetic and biochemical analysis of calsequestrin structure and association of its variants with cardiac disorders. <i>Scientific Reports</i> , 2020 , 10, 18115	4.9	2
120	Phylogenetic Estimation of Community Composition and Novel Eukaryotic Lineages in Base Mine Lake: An Oil Sands Tailings Reclamation Site in Northern Alberta. <i>Journal of Eukaryotic Microbiology</i> , 2020 , 67, 86-99	3.6	5
119	Evolution: Parallel Paths to Parasitism in the Apicomplexa. <i>Current Biology</i> , 2019 , 29, R836-R839	6.3	2
118	Microbial Eukaryotes in Oil Sands Environments: Heterotrophs in the Spotlight. <i>Microorganisms</i> , 2019 , 7,	4.9	1
117	Ancient complement and lineage-specific evolution of the Sec7 ARF GEF proteins in eukaryotes. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1846-1863	3.5	9
116	ARF GTPases and their GEFs and GAPs: concepts and challenges. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1249-1271	3.5	86

115	A pan-apicomplexan phosphoinositide-binding protein acts in malarial microneme exocytosis. <i>EMBO Reports</i> , 2019 , 20,	6.5	10
114	Transcriptome, proteome and draft genome of <i>Euglena gracilis</i> . <i>BMC Biology</i> , 2019 , 17, 11	7.3	52
113	The Oxymonad Genome Displays Canonical Eukaryotic Complexity in the Absence of a Mitochondrion. <i>Molecular Biology and Evolution</i> , 2019 , 36, 2292-2312	8.3	18
112	Recent gene duplications dominate evolutionary dynamics of adaptor protein complex subunits in embryophytes. <i>Traffic</i> , 2019 , 20, 961-973	5.7	5
111	Remodeling the Specificity of an Endosomal CORVET Tether Underlies Formation of Regulated Secretory Vesicles in the Ciliate <i>Tetrahymena thermophila</i> . <i>Current Biology</i> , 2018 , 28, 697-710.e13	6.3	14
110	Regulation of early endosomes across eukaryotes: Evolution and functional homology of Vps9 proteins. <i>Traffic</i> , 2018 , 19, 546-563	5.7	9
109	Plastid Transcript Editing across Dinoflagellate Lineages Shows Lineage-Specific Application but Conserved Trends. <i>Genome Biology and Evolution</i> , 2018 , 10, 1019-1038	3.9	17
108	Identification and characterisation of a cryptic Golgi complex in. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	4
107	Seeing the endomembrane system for the trees: Evolutionary analysis highlights the importance of plants as models for eukaryotic membrane-trafficking. <i>Seminars in Cell and Developmental Biology</i> , 2018 , 80, 142-152	7.5	12
106	A sophisticated, differentiated Golgi in the ancestor of eukaryotes. <i>BMC Biology</i> , 2018 , 16, 27	7.3	21
105	Evolutionary cell biology traces the rise of the exomer complex in Fungi from an ancient eukaryotic component. <i>Scientific Reports</i> , 2018 , 8, 11154	4.9	3
104	Evolving eukaryotes: an interview with Joel Dacks. <i>BMC Biology</i> , 2018 , 16, 119	7.3	
103	Evolutionary origins and specialisation of membrane transport. <i>Current Opinion in Cell Biology</i> , 2018 , 53, 70-76	9	25
102	Outerwear through the ages: evolutionary cell biology of vesicle coats. <i>Current Opinion in Cell Biology</i> , 2017 , 47, 108-116	9	31
101	Evolution of the endomembrane systems of trypanosomatids - conservation and specialisation. <i>Journal of Cell Science</i> , 2017 , 130, 1421-1434	5.3	17
100	Membrane Trafficking Modulation during <i>Entamoeba</i> Encystation. <i>Scientific Reports</i> , 2017 , 7, 12854	4.9	9
99	Progressive and Biased Divergent Evolution Underpins the Origin and Diversification of Peridinin Dinoflagellate Plastids. <i>Molecular Biology and Evolution</i> , 2017 , 34, 361-379	8.3	12
98	Genetic analysis of ID1-DBL2X predicts its validity as a vaccine candidate in Colombia and supports at least two independently introduced <i>Plasmodium falciparum</i> populations in the region. <i>Infection, Genetics and Evolution</i> , 2017 , 55, 175-185	4.5	3

97	An evolutionary balance: conservation vs innovation in ciliate membrane trafficking. <i>Traffic</i> , 2017 , 18, 18-28	5.7	19
96	Extreme genome diversity in the hyper-prevalent parasitic eukaryote <i>Blastocystis</i> . <i>PLoS Biology</i> , 2017 , 15, e2003769	9.7	58
95	Phylogeny and Evolution 2016 , 383-408		3
94	Tracing the Archaeal Origins of Eukaryotic Membrane-Trafficking System Building Blocks. <i>Molecular Biology and Evolution</i> , 2016 , 33, 1528-41	8.3	55
93	Kinetoplastid Phylogenomics Reveals the Evolutionary Innovations Associated with the Origins of Parasitism. <i>Current Biology</i> , 2016 , 26, 161-172	6.3	98
92	Next-Generation Sequencing Assessment of Eukaryotic Diversity in Oil Sands Tailings Ponds Sediments and Surface Water. <i>Journal of Eukaryotic Microbiology</i> , 2016 , 63, 732-743	3.6	19
91	Exclusive expression of the Rab11 effector SH3TC2 in Schwann cells links integrin- β and myelin maintenance to Charcot-Marie-Tooth disease type 4C. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 1279-90	6.9	10
90	A Eukaryote without a Mitochondrial Organelle. <i>Current Biology</i> , 2016 , 26, 1274-84	6.3	213
89	The changing view of eukaryogenesis - fossils, cells, lineages and how they all come together. <i>Journal of Cell Science</i> , 2016 , 129, 3695-3703	5.3	58
88	Resolving the homology-function relationship through comparative genomics of membrane-trafficking machinery and parasite cell biology. <i>Molecular and Biochemical Parasitology</i> , 2016 , 209, 88-103	1.9	17
87	An ancestral role in peroxisome assembly is retained by the divisional peroxin Pex11 in the yeast <i>Yarrowia lipolytica</i> . <i>Journal of Cell Science</i> , 2015 , 128, 1327-40	5.3	12
86	Losses, Expansions, and Novel Subunit Discovery of Adaptor Protein Complexes in Haptophyte Algae. <i>Protist</i> , 2015 , 166, 585-97	2.5	9
85	Chromerid genomes reveal the evolutionary path from photosynthetic algae to obligate intracellular parasites. <i>ELife</i> , 2015 , 4, e06974	8.9	138
84	Ancient homology of the mitochondrial contact site and cristae organizing system points to an endosymbiotic origin of mitochondrial cristae. <i>Current Biology</i> , 2015 , 25, 1489-95	6.3	74
83	Unexpected ancient paralogs and an evolutionary model for the COPII coat complex. <i>Genome Biology and Evolution</i> , 2015 , 7, 1098-109	3.9	25
82	The evolution of MICOS: Ancestral and derived functions and interactions. <i>Communicative and Integrative Biology</i> , 2015 , 8, e1094593	1.7	22
81	Evolutionary cell biology: functional insight from "endless forms most beautiful". <i>Molecular Biology of the Cell</i> , 2015 , 26, 4532-8	3.5	13
80	A role for adaptor protein complex 1 in protein targeting to rhoptry organelles in <i>Plasmodium falciparum</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 699-710	4.9	20

79	A role for the ancient SNARE syntaxin 17 in regulating mitochondrial division. <i>Developmental Cell</i> , 2015 , 32, 304-17	10.2	98
78	A comparative analysis of trypanosomatid SNARE proteins. <i>Parasitology International</i> , 2014 , 63, 341-8	2.1	16
77	Complex patterns of gene fission in the eukaryotic folate biosynthesis pathway. <i>Genome Biology and Evolution</i> , 2014 , 6, 2709-20	3.9	9
76	Missing pieces of an ancient puzzle: evolution of the eukaryotic membrane-trafficking system. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6, a016048	10.2	49
75	The cell biology of the endocytic system from an evolutionary perspective. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6, a016998	10.2	29
74	Phylogenetic analysis of glycerol 3-phosphate acyltransferases in opisthokonts reveals unexpected ancestral complexity and novel modern biosynthetic components. <i>PLoS ONE</i> , 2014 , 9, e110684	3.7	6
73	From all to (nearly) none: Tracing adaptin evolution in Fungi. <i>Cellular Logistics</i> , 2014 , 4, e28114		20
72	The Ancient and Widespread Nature of the ER-Mitochondria Encounter Structure. <i>Molecular Biology and Evolution</i> , 2014 , 31, 251-251	8.3	1
71	Interaction with the effector dynamin-related protein 1 (Drp1) is an ancient function of Rab32 subfamily proteins. <i>Cellular Logistics</i> , 2014 , 4, e986399		20
70	Longin and GAF domains: structural evolution and adaptation to the subcellular trafficking machinery. <i>Traffic</i> , 2014 , 15, 104-21	5.7	33
69	Evolutionary mechanisms for establishing eukaryotic cellular complexity. <i>Trends in Cell Biology</i> , 2014 , 24, 435-42	18.3	20
68	Characterization of TSET, an ancient and widespread membrane trafficking complex. <i>ELife</i> , 2014 , 3, e02886	8.6	88
67	Molecular paleontology and complexity in the last eukaryotic common ancestor. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2013 , 48, 373-96	8.7	128
66	Pan genome of the phytoplankton <i>Emiliana</i> underpins its global distribution. <i>Nature</i> , 2013 , 499, 209-13	50.4	356
65	Cryptic organelle homology in apicomplexan parasites: insights from evolutionary cell biology. <i>Current Opinion in Microbiology</i> , 2013 , 16, 424-31	7.9	17
64	The mitochondrial genome and a 60-kb nuclear DNA segment from <i>Naegleria fowleri</i> , the causative agent of primary amoebic meningoencephalitis. <i>Journal of Eukaryotic Microbiology</i> , 2013 , 60, 179-91	3.6	31
63	The ancient and widespread nature of the ER-mitochondria encounter structure. <i>Molecular Biology and Evolution</i> , 2013 , 30, 2044-9	8.3	75
62	Evolution of Tre-2/Bub2/Cdc16 (TBC) Rab GTPase-activating proteins. <i>Molecular Biology of the Cell</i> , 2013 , 24, 1574-83	3.5	36

61	An ER-directed transcriptional response to unfolded protein stress in the absence of conserved sensor-transducer proteins in <i>Giardia lamblia</i> . <i>Molecular Microbiology</i> , 2013 , 88, 754-71	4.1	10
60	Ancient complexity, opisthokont plasticity, and discovery of the 11th subfamily of Arf GAP proteins. <i>Traffic</i> , 2013 , 14, 636-49	5.7	29
59	A characterization of the <i>Manduca sexta</i> serotonin receptors in the context of olfactory neuromodulation. <i>PLoS ONE</i> , 2013 , 8, e69422	3.7	13
58	Comparative genomic analysis of multi-subunit tethering complexes demonstrates an ancient pan-eukaryotic complement and sculpting in Apicomplexa. <i>PLoS ONE</i> , 2013 , 8, e76278	3.7	39
57	Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. <i>Nature</i> , 2012 , 492, 59-65	50.4	304
56	ELMO domains, evolutionary and functional characterization of a novel GTPase-activating protein (GAP) domain for Arf protein family GTPases. <i>Journal of Biological Chemistry</i> , 2012 , 287, 39538-53	5.4	43
55	Cell biology of micro-organisms and the evolution of the eukaryotic cell. <i>Molecular Biology of the Cell</i> , 2012 , 23, 974-974	3.5	78
54	Sculpting the endomembrane system in deep time: high resolution phylogenetics of Rab GTPases. <i>Journal of Cell Science</i> , 2012 , 125, 2500-8	5.3	115
53	Emergent complexity in Myosin V-based organelle inheritance. <i>Molecular Biology and Evolution</i> , 2012 , 29, 975-84	8.3	10
52	Eukaryotic systematics: a user's guide for cell biologists and parasitologists. <i>Parasitology</i> , 2011 , 138, 1638-63	2.7	83
51	Evolution and diversity of the Golgi. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3, a007849	10.2	44
50	Evolution of the karyopherin- β family of nucleocytoplasmic transport factors; ancient origins and continued specialization. <i>PLoS ONE</i> , 2011 , 6, e19308	3.7	43
49	A novel Rho-like protein TbrHP is involved in spindle formation and mitosis in trypanosomes. <i>PLoS ONE</i> , 2011 , 6, e26890	3.7	8
48	Multivesicular bodies in the enigmatic amoeboid flagellate <i>Breviata anathema</i> and the evolution of ESCRT 0. <i>Journal of Cell Science</i> , 2011 , 124, 613-21	5.3	30
47	Evolutionary reconstruction of the retromer complex and its function in <i>Trypanosoma brucei</i> . <i>Journal of Cell Science</i> , 2011 , 124, 1496-509	5.3	85
46	The fifth adaptor protein complex. <i>PLoS Biology</i> , 2011 , 9, e1001170	9.7	205
45	Arf3 is activated uniquely at the trans-Golgi network by brefeldin A-inhibited guanine nucleotide exchange factors. <i>Molecular Biology of the Cell</i> , 2010 , 21, 1836-49	3.5	39
44	The genome of <i>Naegleria gruberi</i> illuminates early eukaryotic versatility. <i>Cell</i> , 2010 , 140, 631-42	56.2	346

43	Rab protein evolution and the history of the eukaryotic endomembrane system. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 3449-65	10.3	69
42	Phylogenomic analyses support the monophyly of Excavata and resolve relationships among eukaryotic "supergroups". <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3859-64	11.5	401
41	Pex3 peroxisome biogenesis proteins function in peroxisome inheritance as class V myosin receptors. <i>Journal of Cell Biology</i> , 2009 , 187, 233-46	7.3	41
40	Comparative analysis of plant genomes allows the definition of the "Phytolongins": a novel non-SNARE longin domain protein family. <i>BMC Genomics</i> , 2009 , 10, 510	4.5	23
39	Evolution and diversity of the Golgi body. <i>FEBS Letters</i> , 2009 , 583, 3738-45	3.8	60
38	First and last ancestors: reconstructing evolution of the endomembrane system with ESCRTs, vesicle coat proteins, and nuclear pore complexes. <i>Current Opinion in Cell Biology</i> , 2009 , 21, 4-13	9	101
37	The single ENTH-domain protein of trypanosomes; endocytic functions and evolutionary relationship with epsin. <i>Traffic</i> , 2009 , 10, 894-911	5.7	36
36	Evolution of specificity in the eukaryotic endomembrane system. <i>International Journal of Biochemistry and Cell Biology</i> , 2009 , 41, 330-40	5.6	64
35	Repeated secondary loss of adaptin complex genes in the Apicomplexa. <i>Parasitology International</i> , 2009 , 58, 86-94	2.1	38
34	Evolution of the eukaryotic endomembrane system - first and last ancestors. <i>FASEB Journal</i> , 2009 , 23, 319.2	0.9	
33	Implications of the new eukaryotic systematics for parasitologists. <i>Parasitology International</i> , 2008 , 57, 97-104	2.1	47
32	Phylogeny of endocytic components yields insight into the process of nonendosymbiotic organelle evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 588-93	11.5	114
31	Evolution of the multivesicular body ESCRT machinery; retention across the eukaryotic lineage. <i>Traffic</i> , 2008 , 9, 1698-716	5.7	198
30	Phylogenetic and primary sequence characterization of cathepsin B cysteine proteases from the oxymonad flagellate <i>Monocercomonoides</i> . <i>Journal of Eukaryotic Microbiology</i> , 2008 , 55, 9-17	3.6	10
29	Control systems for membrane fusion in the ancestral eukaryote; evolution of tethering complexes and SM proteins. <i>BMC Evolutionary Biology</i> , 2007 , 7, 29	3	166
28	Reconstructing the evolution of the endocytic system: insights from genomics and molecular cell biology. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 607, 84-96	3.6	84
27	Draft genome sequence of the sexually transmitted pathogen <i>Trichomonas vaginalis</i> . <i>Science</i> , 2007 , 315, 207-12	33.3	622
26	Evolution of the eukaryotic membrane-trafficking system: origin, tempo and mode. <i>Journal of Cell Science</i> , 2007 , 120, 2977-85	5.3	216

25	Evolution of filamentous plant pathogens: gene exchange across eukaryotic kingdoms. <i>Current Biology</i> , 2006 , 16, 1857-64	6.3	154
24	Evolutionary origins of the eukaryotic shikimate pathway: gene fusions, horizontal gene transfer, and endosymbiotic replacements. <i>Eukaryotic Cell</i> , 2006 , 5, 1517-31		155
23	Reconstructing the mosaic glycolytic pathway of the anaerobic eukaryote <i>Monocercomonoides</i> . <i>Eukaryotic Cell</i> , 2006 , 5, 2138-46		35
22	Hydrogenosomal succinyl-CoA synthetase from the rumen-dwelling fungus <i>Neocallimastix patriciarum</i> ; an energy-producing enzyme of mitochondrial origin. <i>Gene</i> , 2006 , 373, 75-82	3.8	18
21	The cloning of one putative octopamine receptor and two putative serotonin receptors from the tobacco hawkmoth, <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2006 , 36, 741-7	4.5	32
20	Atypical phenotypes from flatworm Kv3 channels. <i>Journal of Neurophysiology</i> , 2006 , 95, 3035-46	3.2	7
19	Ultrastructural description of <i>Breviata anathema</i> , n. gen., n. sp., the organism previously studied as " <i>Mastigamoeba invertens</i> ". <i>Journal of Eukaryotic Microbiology</i> , 2006 , 53, 65-78	3.6	59
18	Massive differential expansion of the <i>Trichomonas vaginalis</i> adaptin genomic complement. <i>Journal of Eukaryotic Microbiology</i> , 2005 , 52, 75-275	3.6	1
17	Phylogenetic artifacts can be caused by leucine, serine, and arginine codon usage heterogeneity: dinoflagellate plastid origins as a case study. <i>Systematic Biology</i> , 2004 , 53, 582-93	8.4	54
16	Molecular and phylogenetic characterization of syntaxin genes from parasitic protozoa. <i>Molecular and Biochemical Parasitology</i> , 2004 , 136, 123-36	1.9	42
15	Molecular phylogeny of three oxymonad genera: <i>Pyrsonympha</i> , <i>Dinenympha</i> and <i>Oxymonas</i> . <i>Journal of Eukaryotic Microbiology</i> , 2003 , 50, 190-7	3.6	44
14	Evidence for Golgi bodies in proposed Golgi-lacking lineages. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270 Suppl 2, S168-71	4.4	52
13	How oxymonads lost their groove: an ultrastructural comparison of <i>Monocercomonoides</i> and excavate taxa. <i>Journal of Eukaryotic Microbiology</i> , 2002 , 49, 239-48	3.6	28
12	Analyses of RNA Polymerase II genes from free-living protists: phylogeny, long branch attraction, and the eukaryotic big bang. <i>Molecular Biology and Evolution</i> , 2002 , 19, 830-40	8.3	74
11	Novel syntaxin gene sequences from <i>Giardia</i> , <i>Trypanosoma</i> and algae: implications for the ancient evolution of the eukaryotic endomembrane system. <i>Journal of Cell Science</i> , 2002 , 115, 1635-1642	5.3	49
10	Novel syntaxin gene sequences from <i>Giardia</i> , <i>Trypanosoma</i> and algae: implications for the ancient evolution of the eukaryotic endomembrane system. <i>Journal of Cell Science</i> , 2002 , 115, 1635-42	5.3	53
9	Oxymonads are closely related to the excavate taxon <i>Trimastix</i> . <i>Molecular Biology and Evolution</i> , 2001 , 18, 1034-44	8.3	62
8	Origin of H1 linker histones. <i>FASEB Journal</i> , 2001 , 15, 34-42	0.9	164

7	Reconstructing/deconstructing the earliest eukaryotes: how comparative genomics can help. <i>Cell</i> , 2001 , 107, 419-25	56.2	108
6	Evolutionary relationship between dinoflagellates bearing obligate diatom endosymbionts: insight into tertiary endosymbiosis. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2000 , 50 Pt 6, 2075-2081	2.2	54
5	The first sexual lineage and the relevance of facultative sex. <i>Journal of Molecular Evolution</i> , 1999 , 48, 779-83	3.1	108
4	Nuclear condensation in protozoan gametes and the evolution of anisogamy. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 1999 , 124, 287-295	2.6	14
3	Phylogenetic placement of Trichonympha. <i>Journal of Eukaryotic Microbiology</i> , 1998 , 45, 445-7	3.6	38
2	A comparative genomics approach to candidate pathogenicity factor discovery in the brain-eating amoeba <i>Naegleria fowleri</i>		8
1	Unlocking the biological potential of <i>Euglena gracilis</i> : evolution, cell biology and significance to parasitism		2