

Stephen G Matthews

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128
papers

7,405
citations

48
h-index

83
g-index

134
ext. papers

8,284
ext. citations

5
avg, IF

6.3
L-index

#	Paper	IF	Citations
128	Nurturing care: promoting early childhood development. <i>Lancet, The</i> , 2017 , 389, 91-102	40	605
127	Fetal programming of hypothalamo-pituitary-adrenal function: prenatal stress and glucocorticoids. <i>Journal of Physiology</i> , 2006 , 572, 31-44	3.9	405
126	Early programming of the hypothalamo-pituitary-adrenal axis. <i>Trends in Endocrinology and Metabolism</i> , 2002 , 13, 373-80	8.8	405
125	Glucocorticoids and fetal programming part 1: Outcomes. <i>Nature Reviews Endocrinology</i> , 2014 , 10, 391-402	15.2	322
124	Antenatal glucocorticoids and programming of the developing CNS. <i>Pediatric Research</i> , 2000 , 47, 291-300	9.2	292
123	Multiple courses of antenatal corticosteroids for preterm birth (MACS): a randomised controlled trial. <i>Lancet, The</i> , 2008 , 372, 2143-51	40	266
122	Glucocorticoids and fetal programming part 2: Mechanisms. <i>Nature Reviews Endocrinology</i> , 2014 , 10, 403-11	15.2	258
121	Fetal programming of hypothalamic-pituitary-adrenal (HPA) axis function and behavior by synthetic glucocorticoids. <i>Brain Research Reviews</i> , 2008 , 57, 586-95		190
120	Short periods of prenatal stress affect growth, behaviour and hypothalamo-pituitary-adrenal axis activity in male guinea pig offspring. <i>Journal of Physiology</i> , 2005 , 566, 967-77	3.9	154
119	Glucocorticoids and sex-dependent development of brain glucocorticoid and mineralocorticoid receptors. <i>Endocrinology</i> , 2003 , 144, 2775-84	4.8	137
118	Transgenerational effects of prenatal nutrient restriction on cardiovascular and hypothalamic-pituitary-adrenal function. <i>Journal of Physiology</i> , 2008 , 586, 2217-29	3.9	121
117	Prenatal synthetic glucocorticoid treatment changes DNA methylation states in male organ systems: multigenerational effects. <i>Endocrinology</i> , 2012 , 153, 3269-83	4.8	120
116	Maternal dexamethasone treatment in late gestation alters glucocorticoid and mineralocorticoid receptor mRNA in the fetal guinea pig brain. <i>Brain Research</i> , 1999 , 846, 253-9	3.7	114
115	Prenatal Stress, Glucocorticoids, and Developmental Programming of the Stress Response. <i>Endocrinology</i> , 2018 , 159, 69-82	4.8	111
114	Early detection of health and welfare compromises through automated detection of behavioural changes in pigs. <i>Veterinary Journal</i> , 2016 , 217, 43-51	2.5	111
113	Minireview: transgenerational inheritance of the stress response: a new frontier in stress research. <i>Endocrinology</i> , 2010 , 151, 7-13	4.8	99
112	The effects of prenatal stress on learning in adult offspring is dependent on the timing of the stressor. <i>Behavioural Brain Research</i> , 2009 , 197, 144-9	3.4	92

111	Fetal mechanisms in neurodevelopmental disorders. <i>Pediatric Neurology</i> , 2008 , 38, 163-76	2.9	87
110	A short period of maternal nutrient restriction in late gestation modifies pituitary-adrenal function in adult guinea pig offspring. <i>Neuroendocrinology</i> , 2001 , 73, 302-11	5.6	86
109	Antenatal glucocorticoids and the developing brain: mechanisms of action. <i>Seminars in Fetal and Neonatal Medicine</i> , 2001 , 6, 309-17		85
108	Dynamic changes in glucocorticoid and mineralocorticoid receptor mRNA in the developing guinea pig brain. <i>Developmental Brain Research</i> , 1998 , 107, 123-32		84
107	Multidrug resistance phosphoglycoprotein (ABCB1) in the mouse placenta: fetal protection. <i>Biology of Reproduction</i> , 2005 , 73, 591-7	3.9	82
106	Maternal nutrient restriction (48 h) modifies brain corticosteroid receptor expression and endocrine function in the fetal guinea pig. <i>Brain Research</i> , 1999 , 846, 236-42	3.7	82
105	Prenatal Glucocorticoid Exposure Modifies Endocrine Function and Behaviour for 3 Generations Following Maternal and Paternal Transmission. <i>Scientific Reports</i> , 2017 , 7, 11814	4.9	79
104	Glucocorticoid programming of the fetal male hippocampal epigenome. <i>Endocrinology</i> , 2013 , 154, 1168-80	4.0	77
103	Prenatal stress modifies behavior and hypothalamic-pituitary-adrenal function in female guinea pig offspring: effects of timing of prenatal stress and stage of reproductive cycle. <i>Endocrinology</i> , 2008 , 149, 6406-15	4.8	77
102	Programming of the hypothalamo-pituitary-adrenal axis: serotonergic involvement. <i>Stress</i> , 2004 , 7, 15-23	3.3	77
101	Multiple courses of antenatal corticosteroids for preterm birth study: outcomes in children at 5 years of age (MACS-5). <i>JAMA Pediatrics</i> , 2013 , 167, 1102-10	8.3	74
100	Genome wide association identifies common variants at the SERPINA6/SERPINA1 locus influencing plasma cortisol and corticosteroid binding globulin. <i>PLoS Genetics</i> , 2014 , 10, e1004474	6	71
99	Chronic maternal stress affects growth, behaviour and hypothalamo-pituitary-adrenal function in juvenile offspring. <i>Hormones and Behavior</i> , 2008 , 54, 514-20	3.7	69
98	Diabetes impairs hypothalamo-pituitary-adrenal (HPA) responses to hypoglycemia, and insulin treatment normalizes HPA but not epinephrine responses. <i>Diabetes</i> , 2002 , 51, 1681-9	0.9	65
97	Regulation of the hypothalamo-pituitary-adrenocortical axis in fetal sheep. <i>Trends in Endocrinology and Metabolism</i> , 1996 , 7, 239-46	8.8	65
96	Transgenerational effects of prenatal synthetic glucocorticoids on hypothalamic-pituitary-adrenal function. <i>Endocrinology</i> , 2012 , 153, 3295-307	4.8	64
95	Prenatal glucocorticoid modifies hypothalamo-pituitary-adrenal regulation in prepubertal guinea pigs. <i>Neuroendocrinology</i> , 2001 , 73, 194-202	5.6	64
94	Transgenerational inheritance of stress pathology. <i>Experimental Neurology</i> , 2012 , 233, 95-101	5.7	62

93	Prenatal glucocorticoid exposure alters hypothalamic-pituitary-adrenal function and blood pressure in mature male guinea pigs. <i>Journal of Physiology</i> , 2004 , 558, 305-18	3.9	61
92	Effect of antenatal corticosteroids on fetal growth and gestational age at birth. <i>Obstetrics and Gynecology</i> , 2012 , 119, 917-23	4.9	60
91	Automated tracking to measure behavioural changes in pigs for health and welfare monitoring. <i>Scientific Reports</i> , 2017 , 7, 17582	4.9	58
90	The ontogeny of P-glycoprotein in the developing human blood-brain barrier: implication for opioid toxicity in neonates. <i>Pediatric Research</i> , 2015 , 78, 417-21	3.2	57
89	Attenuation of type 2 diabetes mellitus in the male Zucker diabetic fatty rat: the effects of stress and non-volitional exercise. <i>Metabolism: Clinical and Experimental</i> , 2007 , 56, 732-44	12.7	56
88	The maternal adversity, vulnerability and neurodevelopment project: theory and methodology. <i>Canadian Journal of Psychiatry</i> , 2014 , 59, 497-508	4.8	55
87	Effects of antenatal synthetic glucocorticoid on glucocorticoid receptor binding, DNA methylation, and genome-wide mRNA levels in the fetal male hippocampus. <i>Endocrinology</i> , 2013 , 154, 4170-81	4.8	54
86	Prenatal synthetic glucocorticoid exposure alters hypothalamic-pituitary-adrenal regulation and pregnancy outcomes in mature female guinea pigs. <i>Journal of Physiology</i> , 2010 , 588, 887-99	3.9	53
85	Programming of stress pathways: A transgenerational perspective. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016 , 160, 175-80	5.1	52
84	Multiple courses of antenatal corticosteroids for preterm birth study: 2-year outcomes. <i>Pediatrics</i> , 2010 , 126, e1045-55	7.4	50
83	Proximal cerebral arteries develop myogenic responsiveness in heart failure via tumor necrosis factor- α -dependent activation of sphingosine-1-phosphate signaling. <i>Circulation</i> , 2012 , 126, 196-206	16.7	50
82	Adult glucocorticoid exposure leads to transcriptional and DNA methylation changes in nuclear steroid receptors in the hippocampus and kidney of mouse male offspring. <i>Biology of Reproduction</i> , 2014 , 90, 43	3.9	49
81	Insulin alone increases hypothalamo-pituitary-adrenal activity, and diabetes lowers peak stress responses. <i>Endocrinology</i> , 2005 , 146, 1382-90	4.8	48
80	Changes in basal hypothalamo-pituitary-adrenal activity during exercise training are centrally mediated. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 289, R1360-71	3.2	47
79	Swim training prevents hyperglycemia in ZDF rats: mechanisms involved in the partial maintenance of beta-cell function. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 294, E271-83 ⁶		46
78	Impact of bacterial and viral challenge on multidrug resistance in first- and third-trimester human placenta. <i>American Journal of Pathology</i> , 2015 , 185, 1666-75	5.8	45
77	Psychological stressors as a model of maternal adversity: diurnal modulation of corticosterone responses and changes in maternal behavior. <i>Hormones and Behavior</i> , 2007 , 51, 77-88	3.7	43
76	Molecular regulation of the hypothalamic-pituitary-adrenal axis in adult male guinea pigs after prenatal stress at different stages of gestation. <i>Journal of Physiology</i> , 2008 , 586, 4317-26	3.9	42

75	Antenatal dexamethasone treatment in midgestation reduces system A-mediated transport in the late-gestation murine placenta. <i>Endocrinology</i> , 2011 , 152, 3561-70	4.8	41
74	Functional changes of mouse placental multidrug resistance phosphoglycoprotein (ABCB1) with advancing gestation and regulation by progesterone. <i>Reproductive Sciences</i> , 2007 , 14, 321-8	3	41
73	Repeated maternal glucocorticoid treatment affects activity and hippocampal NMDA receptor expression in juvenile guinea pigs. <i>Journal of Physiology</i> , 2007 , 578, 249-57	3.9	40
72	Pro-inflammatory cytokine regulation of P-glycoprotein in the developing blood-brain barrier. <i>PLoS ONE</i> , 2012 , 7, e43022	3.7	36
71	Effects of repeated prenatal glucocorticoid exposure on long-term potentiation in the juvenile guinea-pig hippocampus. <i>Journal of Physiology</i> , 2007 , 581, 1033-42	3.9	35
70	Testosterone is involved in mediating the effects of prenatal stress in male guinea pig offspring. <i>Journal of Physiology</i> , 2011 , 589, 755-66	3.9	33
69	Developmental expression of multidrug resistance phosphoglycoprotein (P-gp) in the mouse fetal brain and glucocorticoid regulation. <i>Brain Research</i> , 2010 , 1357, 9-18	3.7	32
68	Effects of maternal dexamethasone treatment in early pregnancy on pituitary-adrenal axis in fetal sheep. <i>Endocrinology</i> , 2009 , 150, 5466-77	4.8	31
67	Expression of glucocorticoid receptor, mineralocorticoid receptor, and 11beta-hydroxysteroid dehydrogenase 1 and 2 in the fetal and postnatal ovine hippocampus: ontogeny and effects of prenatal glucocorticoid exposure. <i>Journal of Endocrinology</i> , 2008 , 197, 213-20	4.7	31
66	Prenatal endotoxemia and placental drug transport in the mouse: placental size-specific effects. <i>PLoS ONE</i> , 2013 , 8, e65728	3.7	30
65	Corticosteroid regulation of P-glycoprotein in the developing blood-brain barrier. <i>Endocrinology</i> , 2011 , 152, 1067-79	4.8	30
64	Hyperglycemia does not increase basal hypothalamo-pituitary-adrenal activity in diabetes but it does impair the HPA response to insulin-induced hypoglycemia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 289, R235-46	3.2	30
63	Characterization and novel analyses of acute stress response patterns in a population-based cohort of young adults: influence of gender, smoking, and BMI. <i>Stress</i> , 2016 , 19, 139-50	3	29
62	Exercise maintains euglycemia in association with decreased activation of c-Jun NH2-terminal kinase and serine phosphorylation of IRS-1 in the liver of ZDF rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E671-82	6	29
61	Regulation of glucocorticoid receptor mRNA and heat shock protein 70 mRNA in the developing sheep brain. <i>Brain Research</i> , 2000 , 878, 174-82	3.7	29
60	Web usage mining with evolutionary extraction of temporal fuzzy association rules. <i>Knowledge-Based Systems</i> , 2013 , 54, 66-72	7.3	28
59	Effects of sertraline and fluoxetine on p-glycoprotein at barrier sites: in vivo and in vitro approaches. <i>PLoS ONE</i> , 2013 , 8, e56525	3.7	27
58	Effects of chronic maternal stress on hypothalamo-pituitary-adrenal (HPA) function and behavior: no reversal by environmental enrichment. <i>Hormones and Behavior</i> , 2011 , 60, 589-98	3.7	27

57	Multidrug resistance phosphoglycoprotein (ABCB1) expression in the guinea pig placenta: developmental changes and regulation by betamethasone. <i>Canadian Journal of Physiology and Pharmacology</i> , 2009 , 87, 973-8	2.4	27
56	Effects of recurrent hyperinsulinemia with and without hypoglycemia on counterregulation in diabetic rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 282, E1369-79	6	26
55	Prenatal programming of stress responsiveness and behaviours: Progress and perspectives. <i>Journal of Neuroendocrinology</i> , 2019 , 31, e12674	3.8	25
54	Developmental regulation of the 5-HT7 serotonin receptor and transcription factor NGFI-A in the fetal guinea-pig limbic system: influence of GCs. <i>Journal of Physiology</i> , 2004 , 555, 659-70	3.9	24
53	Repeated antenatal glucocorticoid exposure and the developing brain. <i>Pediatric Research</i> , 2001 , 50, 563-42	4.2	23
52	Acute Effects of Viral Exposure on P-Glycoprotein Function in the Mouse Fetal Blood-Brain Barrier. <i>Cellular Physiology and Biochemistry</i> , 2017 , 41, 1044-1050	3.9	22
51	TGF- β regulation of multidrug resistance P-glycoprotein in the developing male blood-brain barrier. <i>Endocrinology</i> , 2014 , 155, 475-84	4.8	22
50	Association between the seven-repeat allele of the dopamine-4 receptor gene (DRD4) and spontaneous food intake in pre-school children. <i>Appetite</i> , 2014 , 73, 15-22	4.5	22
49	CRH and AVP-induced changes in synthesis and release of ACTH from the ovine fetal pituitary in vitro: negative influences of cortisol. <i>Endocrine</i> , 1997 , 6, 293-300	4	22
48	Molecular Regulation of the Hypothalamo-Pituitary-Adrenal Axis in Streptozotocin-Induced Diabetes: Effects of Insulin Treatment		22
47	Hyperactivation of the Hypothalamo-Pituitary-Adrenocortical Axis in Streptozotocin-Diabetes Is Associated with Reduced Stress Responsiveness and Decreased Pituitary and Adrenal Sensitivity		22
46	Low maternal sensitivity at 6 months of age predicts higher BMI in 48 month old girls but not boys. <i>Appetite</i> , 2014 , 82, 97-102	4.5	20
45	Synthetic glucocorticoid reduces human placental system a transport in women treated with antenatal therapy. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014 , 99, E2226-33	5.6	20
44	Recurrent intermittent restraint delays fed and fasting hyperglycemia and improves glucose return to baseline levels during glucose tolerance tests in the Zucker diabetic fatty rat--role of food intake and corticosterone. <i>Metabolism: Clinical and Experimental</i> , 2007 , 56, 1065-75	12.7	20
43	Adaptation to mild, intermittent stress delays development of hyperglycemia in the Zucker diabetic Fatty rat independent of food intake: role of habituation of the hypothalamic-pituitary-adrenal axis. <i>Endocrinology</i> , 2008 , 149, 2990-3001	4.8	19
42	Effects of diabetes and recurrent hypoglycemia on the regulation of the sympathoadrenal system and hypothalamo-pituitary-adrenal axis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E422-9	6	19
41	Glucocorticoids modulate multidrug resistance transporters in the first trimester human placenta. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 3652-3660	5.6	18
40	The multidrug resistance 1 gene Abcb1 in brain and placenta: comparative analysis in human and guinea pig. <i>PLoS ONE</i> , 2014 , 9, e111135	3.7	18

39	Sertraline alters multidrug resistance phosphoglycoprotein activity in the mouse placenta and fetal blood-brain barrier. <i>Reproductive Sciences</i> , 2012 , 19, 407-15	3	18
38	Effects of insulin treatment without and with recurrent hypoglycemia on hypoglycemic counterregulation and adrenal catecholamine-synthesizing enzymes in diabetic rats. <i>Endocrinology</i> , 2006 , 147, 1860-70	4.8	17
37	Partial leptin restoration increases hypothalamic-pituitary-adrenal activity while diminishing weight loss and hyperphagia in streptozotocin diabetic rats. <i>Metabolism: Clinical and Experimental</i> , 2004 , 53, 1558-64	12.7	16
36	Glucocorticoids do not alter developmental expression of hippocampal or pituitary steroid receptor coactivator-1 and -2 in the late gestation fetal guinea pig. <i>Endocrinology</i> , 2004 , 145, 3796-803	4.8	15
35	Regulation of N-methyl-D-aspartate receptor subunit expression in the fetal guinea pig brain. <i>Biology of Reproduction</i> , 2004 , 71, 676-83	3.9	15
34	Decreased CRH mRNA expression in the fetal guinea pig hypothalamus following maternal nutrient restriction. <i>Brain Research</i> , 2001 , 896, 179-82	3.7	15
33	Temporal fuzzy association rule mining with 2-tuple linguistic representation 2012 ,		14
32	Glucocorticoid regulation of placental breast cancer resistance protein (Bcrp1) in the mouse. <i>Reproductive Sciences</i> , 2011 , 18, 631-9	3	14
31	Developmental regulation of 5-HT1A receptor mRNA in the fetal limbic system: response to antenatal glucocorticoid. <i>Developmental Brain Research</i> , 2004 , 149, 39-44		14
30	Adrenocortical Response Profiles to Corticotrophin-Releasing Hormone and Adrenocorticotrophin Challenge in the Chronically Catheterized Adult Guinea-Pig. <i>Experimental Physiology</i> , 1999 , 84, 971-977	2.4	14
29	Hypothalamic-pituitary-adrenal axis activity under resting conditions and cardiovascular risk factors in adolescents. <i>Psychoneuroendocrinology</i> , 2016 , 66, 118-24	5	13
28	The Ontario Birth Study: A prospective pregnancy cohort study integrating perinatal research into clinical care. <i>Paediatric and Perinatal Epidemiology</i> , 2018 , 32, 290-301	2.7	13
27	Maternal nutrient deprivation induces sex-specific changes in thyroid hormone receptor and deiodinase expression in the fetal guinea pig brain. <i>Journal of Physiology</i> , 2005 , 566, 467-80	3.9	13
26	Adaptation to intermittent stress promotes maintenance of beta-cell compensation: comparison with food restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E947-58 ⁶		12
25	Breast cancer-resistance protein (BCRP1) in the fetal mouse brain: development and glucocorticoid regulation. <i>Biology of Reproduction</i> , 2011 , 84, 783-9	3.9	11
24	Developmental regulation of preproenkephalin mRNA in the ovine paraventricular nucleus: effects of stress and glucocorticoids. <i>Developmental Brain Research</i> , 1995 , 86, 259-67		11
23	Astrocyte-mediated regulation of multidrug resistance p-glycoprotein in fetal and neonatal brain endothelial cells: age-dependent effects. <i>Physiological Reports</i> , 2016 , 4, e12853	2.6	10
22	Is perinatal neuroendocrine programming involved in the developmental origins of metabolic disorders?. <i>World Journal of Diabetes</i> , 2011 , 2, 211-6	4.7	10

21	Evolving temporal fuzzy itemsets from quantitative data with a multi-objective evolutionary algorithm 2011 ,		9
20	Overexposure to antenatal corticosteroids: a global concern. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2007 , 29, 879	1.3	9
19	Hypothalamic oxytocin in the developing ovine fetus: interaction with pituitary-adrenocortical function. <i>Brain Research</i> , 1999 , 820, 92-100	3.7	9
18	Freedom to lie: How farrowing environment affects sow lying behaviour assessment using inertial sensors. <i>Computers and Electronics in Agriculture</i> , 2019 , 157, 549-557	6.5	8
17	Foetal experience: lifelong consequences. <i>Journal of Neuroendocrinology</i> , 2007 , 19, 73-4	3.8	8
16	Evolutionary algorithms and fuzzy sets for discovering temporal rules. <i>International Journal of Applied Mathematics and Computer Science</i> , 2013 , 23, 855-868	1.7	7
15	Immunoreactive parathyroid hormone-related protein: its association with preterm labor. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 1995 , 63, 21-6	2.4	7
14	Evolving Temporal Fuzzy Association Rules from Quantitative Data with a Multi-Objective Evolutionary Algorithm. <i>Lecture Notes in Computer Science</i> , 2011 , 198-205	0.9	7
13	High reactivity of the cortisol awakening response predicts positive treatment outcome in heterogeneous depressed patients completing an alternate milieu inpatient program. <i>General Hospital Psychiatry</i> , 2015 , 37, 601-5	5.6	6
12	Glucocorticoids modify effects of TGF- β on multidrug resistance in the fetal blood-brain barrier. <i>Growth Factors</i> , 2016 , 34, 33-41	1.6	6
11	Investigation of genetic variants, birthweight and hypothalamic-pituitary-adrenal axis function suggests a genetic variant in the SERPINA6 gene is associated with corticosteroid binding globulin in the western Australia pregnancy cohort (Raine) study. <i>PLoS ONE</i> , 2014 , 9, e92957	3.7	6
10	The effect of long-term insulin treatment with and without antecedent hypoglycemia on neuropeptide and corticosteroid receptor expression in the brains of diabetic rats. <i>Brain Research Bulletin</i> , 2008 , 77, 149-57	3.9	6
9	P-glycoprotein expression and localization in the rat uterus throughout gestation and labor. <i>Reproduction</i> , 2016 , 152, 195-204	3.8	5
8	The DNA methylation landscape of enhancers in the guinea pig hippocampus. <i>Epigenomics</i> , 2018 , 10, 349-365	4.4	4
7	The effects of estradiol-17 beta infusion into fetal sheep in late gestation. <i>Endocrine</i> , 1997 , 6, 271-8	4	4
6	A Single Course of Synthetic Glucocorticoids in Pregnant Guinea Pigs Programs Behavior and Stress Response in Two Generations of Offspring. <i>Endocrinology</i> , 2018 , 159, 4065-4076	4.8	4
5	Evolving Temporal Association Rules with Genetic Algorithms 2011 , 107-120		2
4	Possibilistic projected categorical clustering via cluster cores 2014 ,		1

- 3 Reply to Commentary Letter by Dr. Melvin Khee Shing Leow. *Journal of Steroid Biochemistry and Molecular Biology*, **2016**, 163, 213 5.1
- 2 More evidence that unnecessary antenatal treatments cause harm--reply. *JAMA Pediatrics*, **2014**, 168, 389-90 8.3
- 1 What it Means to Be a Young CI Researcher in the 21st Century [Society Briefs]. *IEEE Computational Intelligence Magazine*, **2011**, 6, 6-7 5.6