

# Chisato Miyaura

## List of Publications by Year in descending order

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104  
papers

6,689  
citations

87888

38  
h-index

62596

80  
g-index

108  
all docs

108  
docs citations

108  
times ranked

5687  
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical roles for collagenase-3 (Mmp13) in development of growth plate cartilage and in endochondral ossification. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17192-17197.	7.1	502
2	1 $\alpha$ ,25-Dihydroxyvitamin D3 induces differentiation of human myeloid leukemia cells. Biochemical and Biophysical Research Communications, 1981, 102, 937-943.	2.1	479
3	The Role of Prostaglandin E Receptor Subtypes (EP1, EP2, EP3, and EP4) in Bone Resorption: An Analysis Using Specific Agonists for the Respective EPs. Endocrinology, 2000, 141, 1554-1559.	2.8	354
4	Regulation of Matrix Metalloproteinases (MMP-2, -3, -9, and -13) by Interleukin-1 and Interleukin-6 in Mouse Calvaria: Association of MMP Induction with Bone Resorption*. Endocrinology, 1998, 139, 1338-1345.	2.8	341
5	Expression of Estrogen Receptor $\beta$ in Rat Bone. Endocrinology, 1997, 138, 4509-4512.	2.8	281
6	Selective Effects of Genistein, a Soybean Isoflavone, on B-Lymphopoiesis and Bone Loss Caused by Estrogen Deficiency*. Endocrinology, 1999, 140, 1893-1900.	2.8	234
7	Connection Between B Lymphocyte and Osteoclast Differentiation Pathways. Journal of Immunology, 2001, 167, 2625-2631.	0.8	215
8	1 $\alpha$ ,25-Dihydroxyvitamin D3 induces differentiation of human promyelocytic leukemia cells (HL-60) into monocyte-macrophages, but not into granulocytes. Biochemical and Biophysical Research Communications, 1983, 117, 86-92.	2.1	213
9	Impaired Bone Resorption to Prostaglandin E2 in Prostaglandin E Receptor EP4-knockout Mice. Journal of Biological Chemistry, 2000, 275, 19819-19823.	3.4	193
10	Independent impairment of osteoblast and osteoclast differentiation in klotho mouse exhibiting low-turnover osteopenia. Journal of Clinical Investigation, 1999, 104, 229-237.	8.2	184
11	Potent estrogen agonists based on carborane as a hydrophobic skeletal structure. Chemistry and Biology, 2001, 8, 341-355.	6.0	172
12	The Role of Prostaglandin E Receptor Subtypes (EP1, EP2, EP3, and EP4) in Bone Resorption: An Analysis Using Specific Agonists for the Respective EPs. Endocrinology, 2000, 141, 1554-1559.	2.8	169
13	Difference in Effective Dosage of Genistein on Bone and Uterus in Ovariectomized Mice. Biochemical and Biophysical Research Communications, 2000, 274, 697-701.	2.1	164
14	An Essential Role of Cytosolic Phospholipase A2 $\beta$ in Prostaglandin E2-mediated Bone Resorption Associated with Inflammation. Journal of Experimental Medicine, 2003, 197, 1303-1310.	8.5	164
15	Recombinant human interleukin 6 (B-cell stimulatory factor 2) is a potent inducer of differentiation of mouse myeloid leukemia cells (M1). FEBS Letters, 1988, 234, 17-21.	2.8	158
16	Endogenous bone-resorbing factors in estrogen deficiency: Cooperative effects of IL-1 and IL-6. Journal of Bone and Mineral Research, 1995, 10, 1365-1373.	2.8	151
17	Synthetic analogues of vitamin D3 with an oxygen atom in the side chain skeleton A trial of the development of vitamin D compounds which exhibit potent differentiation-inducing activity without inducing hypercalcemia. FEBS Letters, 1987, 226, 58-62.	2.8	144
18	Transcriptional Induction of Cyclooxygenase-2 in Osteoblasts Is Involved in Interleukin-6-Induced Osteoclast Formation*. Endocrinology, 1997, 138, 2372-2379.	2.8	130

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19	A SYNTHETIC ANALOGUE OF VITAMIN D <sub>3</sub> , 22-OXA-1 $\alpha$ ,25-DIHYDROXYVITAMIN D <sub>3</sub> IS A POTENT MODULATOR OF IN VIVO IMMUNOREGULATING ACTIVITY WITHOUT INDUCING HYPERCALCEMIA IN MICE. <i>Endocrinology</i> , 1989, 124, 2645-2647.	2.8	119
20	Sex- and Age-Related Response to Aromatase Deficiency in Bone. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 1062-1068.	2.1	112
21	Membrane-Bound Prostaglandin E Synthase-1-Mediated Prostaglandin E <sub>2</sub> Production by Osteoblast Plays a Critical Role in Lipopolysaccharide-Induced Bone Loss Associated with Inflammation. <i>Journal of Immunology</i> , 2006, 177, 1879-1885.	0.8	110
22	Activation of Cytosolic Phospholipase A <sub>2</sub> by Platelet-derived Growth Factor Is Essential for Cyclooxygenase-2-dependent Prostaglandin E <sub>2</sub> Synthesis in Mouse Osteoblasts Cultured with Interleukin-1. <i>Journal of Biological Chemistry</i> , 1997, 272, 5952-5958.	3.4	106
23	Selective Effects of Genistein, a Soybean Isoflavone, on B-Lymphopoiesis and Bone Loss Caused by Estrogen Deficiency. <i>Endocrinology</i> , 1999, 140, 1893-1900.	2.8	98
24	Comparative Effects of Estrogen and Raloxifene on B Lymphopoiesis and Bone Loss Induced by Sex Steroid Deficiency in Mice. <i>Journal of Bone and Mineral Research</i> , 2010, 15, 541-549.	2.8	88
25	Intracellular Calcium and Protein Kinase C Mediate Expression of Receptor Activator of Nuclear Factor- $\kappa$ B Ligand and Osteoprotegerin in Osteoblasts. <i>Endocrinology</i> , 2000, 141, 4711-4719.	2.8	85
26	Expression of <i>reg/PSP</i> , a Pancreatic Exocrine Gene: Relationship to Changes in Islet $\beta$ -Cell Mass. <i>Molecular Endocrinology</i> , 1991, 5, 226-234.	3.7	84
27	Leukemia inhibitory factor/differentiation-stimulating factor (LIF/D-factor): Regulation of its production and possible roles in bone metabolism. <i>Journal of Cellular Physiology</i> , 1992, 152, 71-78.	4.1	64
28	Polymethoxy Flavonoids, Nobiletin and Tangeretin, Prevent Lipopolysaccharide-Induced Inflammatory Bone Loss in an Experimental Model for Periodontitis. <i>Journal of Pharmacological Sciences</i> , 2012, 119, 390-394.	2.5	58
29	Role of prostaglandin E produced by osteoblasts in osteolysis due to bone metastasis. <i>Biochemical and Biophysical Research Communications</i> , 2003, 300, 957-964.	2.1	57
30	Boron clusters for medicinal drug design: Selective estrogen receptor modulators bearing carborane. <i>Pure and Applied Chemistry</i> , 2003, 75, 1197-1205.	1.9	56
31	Hypergravity and microgravity exhibited reversal effects on the bone and muscle mass in mice. <i>Scientific Reports</i> , 2019, 9, 6614.	3.3	51
32	Nobiletin, a Polymethoxy Flavonoid, Suppresses Bone Resorption by Inhibiting NF $\kappa$ B-Dependent Prostaglandin E Synthesis in Osteoblasts and Prevents Bone Loss Due to Estrogen Deficiency. <i>Journal of Pharmacological Sciences</i> , 2011, 115, 89-93.	2.5	47
33	Prevention of aortic calcification by etidronate in the renal failure rat model. <i>European Journal of Pharmacology</i> , 2007, 558, 159-166.	3.5	46
34	Epigallocatechin gallate (EGCG) suppresses lipopolysaccharide-induced inflammatory bone resorption, and protects against alveolar bone loss in mice. <i>FEBS Open Bio</i> , 2015, 5, 522-527.	2.3	45
35	Estrogen and androgen play distinct roles in bone turnover in male mice before and after reaching sexual maturity. <i>Bone</i> , 2006, 38, 220-226.	2.9	44
36	1 $\alpha$ ,25-dihydroxyvitamin D <sub>3</sub> suppresses proliferation of murine granulocyte-macrophage progenitor cells (CFU-C). <i>Biochemical and Biophysical Research Communications</i> , 1982, 108, 1728-1733.	2.1	43

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37	Transcriptional Induction of Cyclooxygenase-2 in Osteoblasts Is Involved in Interleukin-6-Induced Osteoclast Formation. <i>Endocrinology</i> , 1997, 138, 2372-2379.	2.8	43
38	Indoxyl sulfate, a uremic toxin in chronic kidney disease, suppresses both bone formation and bone resorption. <i>FEBS Open Bio</i> , 2017, 7, 1178-1185.	2.3	41
39	Fusion and Activation of Human Alveolar Macrophages Induced by Recombinant Interferon- $\gamma$ and Their Suppression by Dexamethasone. <i>The American Review of Respiratory Disease</i> , 1987, 136, 916-921.	2.9	39
40	Production of interleukin 6 and its relation to the macrophage differentiation of mouse myeloid leukemia cells (M1) treated with differentiation-inducing factor and 1 $\alpha$ ,25-dihydroxyvitamin D3. <i>Biochemical and Biophysical Research Communications</i> , 1989, 158, 660-666.	2.1	39
41	Mechanism of action of amylin in bone. <i>Journal of Cellular Physiology</i> , 1992, 153, 6-14.	4.1	35
42	Direct Melanoma Cell Contact Induces Stromal Cell Autocrine Prostaglandin E2-EP4 Receptor Signaling That Drives Tumor Growth, Angiogenesis, and Metastasis. <i>Journal of Biological Chemistry</i> , 2015, 290, 29781-29793.	3.4	35
43	Dietary bisphenol A prevents ovarian degeneration and bone loss in female mice lacking the aromatase gene ( <i>Cyp19</i> ). <i>FEBS Journal</i> , 2002, 269, 2214-2222.	0.2	34
44	Toll-like receptor 2 heterodimers, TLR2/6 and TLR2/1 induce prostaglandin E production by osteoblasts, osteoclast formation and inflammatory periodontitis. <i>Biochemical and Biophysical Research Communications</i> , 2012, 428, 110-115.	2.1	34
45	A novel carborane analog, BE360, with a carbon-containing polyhedral boron-cluster is a new selective estrogen receptor modulator for bone. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 218-222.	2.1	33
46	Prostaglandin E receptor EP4 antagonist suppresses osteolysis due to bone metastasis of mouse malignant melanoma cells. <i>FEBS Letters</i> , 2007, 581, 565-571.	2.8	30
47	Pyroloquinoline quinone inhibits the fibrillation of amyloid proteins. <i>Prion</i> , 2010, 4, 26-31.	1.8	29
48	Intracellular Calcium and Protein Kinase C Mediate Expression of Receptor Activator of Nuclear Factor- $\kappa$ B Ligand and Osteoprotegerin in Osteoblasts. <i>Endocrinology</i> , 2000, 141, 4711-4719.	2.8	29
49	Beta-Cryptoxanthin Inhibits Lipopolysaccharide-Induced Osteoclast Differentiation and Bone Resorption via the Suppression of Inhibitor of NF- $\kappa$ B Kinase Activity. <i>Nutrients</i> , 2019, 11, 368.	4.1	28
50	The Correlation between Postmenopausal Osteoporosis and Inflammatory Periodontitis Regarding Bone Loss in Experimental Models. <i>Experimental Animals</i> , 2012, 61, 183-187.	1.1	27
51	Indoxyl sulfate exacerbates low bone turnover induced by parathyroidectomy in young adult rats. <i>Bone</i> , 2015, 79, 252-258.	2.9	27
52	Bombyx mori silk fibroin scaffolds for bone regeneration studied by bone differentiation experiment. <i>Journal of Bioscience and Bioengineering</i> , 2013, 115, 575-578.	2.2	26
53	Combined Effects of Soy Isoflavones and $\beta$ -Carotene on Osteoblast Differentiation. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 13750-13761.	2.6	26
54	Cooperative effect of 1 $\alpha$ ,25-dihydroxyvitamin D3 and dexamethasone in inducing differentiation of mouse myeloid leukemia cells. <i>Archives of Biochemistry and Biophysics</i> , 1983, 227, 379-385.	3.0	25

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55	An improved procedure for isolation of high-quality RNA from nematode-infected Arabidopsis roots through laser capture microdissection. <i>Plant Methods</i> , 2016, 12, 25.	4.3	25
56	Capsaicin, a TRPV1 Ligand, Suppresses Bone Resorption by Inhibiting the Prostaglandin E Production of Osteoblasts, and Attenuates the Inflammatory Bone Loss Induced by Lipopolysaccharide. <i>ISRN Pharmacology</i> , 2012, 2012, 1-6.	1.6	23
57	Possible role of S-sequol on bone loss via amelioration of inflammatory indices in ovariectomized mice. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2013, 53, 41-48.	1.4	22
58	BA321, a novel carborane analog that binds to androgen and estrogen receptors, acts as a new selective androgen receptor modulator of bone in male mice. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 279-285.	2.1	22
59	The MET/Vascular Endothelial Growth Factor Receptor (VEGFR)-targeted Tyrosine Kinase Inhibitor Also Attenuates FMS-dependent Osteoclast Differentiation and Bone Destruction Induced by Prostate Cancer. <i>Journal of Biological Chemistry</i> , 2016, 291, 20891-20899.	3.4	22
60	Syntheses and differentiating action of vitamin D endoperoxides. Singlet oxygen adducts of vitamin D derivatives in human myeloid leukemia cells (HL-60). <i>Journal of Medicinal Chemistry</i> , 1985, 28, 1148-1153.	6.4	21
61	Naringin Suppresses Osteoclast Formation and Enhances Bone Mass in Mice. <i>Journal of Health Science</i> , 2009, 55, 463-467.	0.9	20
62	1 $\alpha$ ,25-Dihydroxyvitamin D <sub>3</sub> directly induces fusion of alveolar macrophages by a mechanism involving RNA and protein synthesis, but not DNA synthesis. <i>FEBS Letters</i> , 1984, 174, 61-65.	2.8	19
63	The Protective Effects of $\beta$ -Cryptoxanthin on Inflammatory Bone Resorption in a Mouse Experimental Model of Periodontitis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 860-862.	1.3	19
64	Effects of O-methylated (6-O-methylated) epigallocatechin gallate (EGCG) on LPS-induced osteoclastogenesis, bone resorption, and alveolar bone loss in mice. <i>FEBS Open Bio</i> , 2017, 7, 1972-1981.	2.3	19
65	Mechanism of the differentiating action of 25-hydroxyvitamin D <sub>3</sub> endoperoxides in human myeloid leukemia cells (HL-60). <i>Journal of Medicinal Chemistry</i> , 1985, 28, 1153-1158.	6.4	18
66	Gram-positive bacteria cell wall-derived lipoteichoic acid induces inflammatory alveolar bone loss through prostaglandin E production in osteoblasts. <i>Scientific Reports</i> , 2021, 11, 13353.	3.3	18
67	Hyaluronan inhibits bone resorption by suppressing prostaglandin E synthesis in osteoblasts treated with interleukin-1. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 139-143.	2.1	17
68	Lutein, a carotenoid, suppresses osteoclastic bone resorption and stimulates bone formation in cultures. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 302-306.	1.3	16
69	Fusion of mouse alveolar macrophages induced by 1,25-dihydroxyvitamin D <sub>3</sub> involves extracellular, but not intracellular, calcium. <i>Journal of Cellular Physiology</i> , 1990, 142, 434-439.	4.1	15
70	The Optimal Duration of PTH(1-34) Infusion Is One Hour per Day to Increase Bone Mass in Rats. <i>Biological and Pharmaceutical Bulletin</i> , 2016, 39, 625-630.	1.4	15
71	Extracellular Calcium Is Involved in the Mechanism of Differentiation of Mouse Myeloid Leukemia Cells (M1) Induced by 1,25-Dihydroxyvitamin D <sub>3</sub> . <i>Endocrinology</i> , 1984, 115, 1891-1896.	2.8	14
72	Dietary Bisphenol A Suppresses the Growth of Newborn Pups by Insufficient Supply of Maternal Milk in Mice. <i>Journal of Health Science</i> , 2004, 50, 315-318.	0.9	14

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73	Soybean isoflavones preserve bone mass in hindlimb-unloaded mice. <i>Journal of Bone and Mineral Metabolism</i> , 2006, 24, 439-446.	2.7	14
74	Lutein Enhances Bone Mass by Stimulating Bone Formation and Suppressing Bone Resorption in Growing Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2017, 40, 716-721.	1.4	14
75	Effects of Polymethoxyflavonoids on Bone Loss Induced by Estrogen Deficiency and by LPS-Dependent Inflammation in Mice. <i>Pharmaceuticals</i> , 2018, 11, 7.	3.8	14
76	Low Molecular-Weight Curdlan, (1 $\alpha$ '3)- $\beta$ -2-Glucan Suppresses TLR2-Induced RANKL-Dependent Bone Resorption. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1282-1285.	1.4	13
77	Novel vitamin D3 analogs, 1 $\alpha$ , 25(OH)2D3-26, 23-lactam (DLAMs), antagonize bone resorption via suppressing RANKL expression in osteoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2008, 372, 434-439.	2.1	12
78	The Relationship between Fusion and Proliferation in Mouse Alveolar Macrophages*. <i>Endocrinology</i> , 1987, 121, 271-277.	2.8	11
79	Spermidine-dependent proteins are involved in the fusion of mouse alveolar macrophages induced by 1 $\alpha$ ,25-dihydroxyvitamin D3 and interleukin 4. <i>Experimental Cell Research</i> , 1989, 180, 72-83.	2.6	11
80	Effects of retinoic acid on the activation and fusion of mouse alveolar macrophages induced by 1 $\alpha$ ,25-dihydroxyvitamin D3. <i>Journal of Bone and Mineral Research</i> , 1986, 1, 359-368.	2.8	11
81	Failure to demonstrate the stimulative effect of calcitonin on cyclic AMP accumulation in avian bone in vitro.. <i>Endocrinologia Japonica</i> , 1981, 28, 403-408.	0.5	10
82	Heptamethoxyflavone, a citrus flavonoid, suppresses inflammatory osteoclastogenesis and alveolar bone resorption. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015, 79, 155-158.	1.3	10
83	An ultrastructural study on the multinucleation process of mouse alveolar macrophages induced by 1 $\alpha$ ,25-dihydroxyvitamin D3. <i>Journal of Bone and Mineral Research</i> , 1987, 2, 547-557.	2.8	9
84	Synthesis of vitamin D3 derivatives with nitrogen-linked substituents at A-ring C-2 and evaluation of their vitamin D receptor-mediated transcriptional activity. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7826.	2.8	8
85	The Combination of Soy Isoflavones and Resveratrol Preserve Bone Mineral Density in Hindlimb-Unloaded Mice. <i>Nutrients</i> , 2020, 12, 2043.	4.1	8
86	Phagocytic cells metabolize 25-hydroxyvitamin D3 to 10-oxo-19-nor-25-hydroxyvitamin D3 and a new metabolite, 8 $\alpha$ ,25-dihydroxy-9, 10-seco-4,6,10(19)-cholestatrien-3-one. <i>FEBS Letters</i> , 1987, 218, 200-204.	2.8	7
87	Calcium is essential in the fusion of mouse alveolar macrophages induced by 1 $\alpha$ , 25-dihydroxyvitamin D3. <i>Journal of Cellular Physiology</i> , 1988, 137, 110-116.	4.1	7
88	Abrogation of prostaglandin E-EP4 signaling in osteoblasts prevents the bone destruction induced by human prostate cancer metastases. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 154-161.	2.1	6
89	Raloxifene reduces the risk of local alveolar bone destruction in a mouse model of periodontitis combined with systemic postmenopausal osteoporosis. <i>Archives of Oral Biology</i> , 2018, 85, 98-103.	1.8	6
90	Molecular evidence of IGFBP-3 dependent and independent VD3 action and its nonlinear response on IGFBP-3 induction in prostate cancer cells. <i>BMC Cancer</i> , 2020, 20, 802.	2.6	6

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91	Cell Shape and Matrix Production of Fibroblasts Cultured on Fibroin-organized Silk Scaffold with Type-II .BETA.-turn Structured (Ala-Gly-Ala-Gly-Ser-Gly) <sub>n</sub> Sequences. Journal of Health Science, 2010, 56, 738-744.	0.9	5
92	Factors Regulating Islet Regeneration in the Post-Insulinoma NEDH Rat. Advances in Experimental Medicine and Biology, 1992, 321, 71-84.	1.6	5
93	Endosomal TLR3 signaling in stromal osteoblasts induces prostaglandin E <sub>2</sub> -mediated inflammatory periodontal bone resorption. Journal of Biological Chemistry, 2022, 298, 101603.	3.4	5
94	Alteration of Lipid Metabolism Associated with the Activation of Mouse Alveolar Macrophages Induced by 1,25-Dihydroxyvitamin D <sub>3</sub> *. Endocrinology, 1987, 120, 1813-1820.	2.8	4
95	Bi-Phasic Effect of Equol on Adipocyte Differentiation of MC3T3-L1 Cells. Bioscience, Biotechnology and Biochemistry, 2013, 77, 201-204.	1.3	3
96	Mechanism of bone resorption induced by estrogen deficiency. Journal of Bone and Mineral Metabolism, 1994, 12, S3-S7.	2.7	2
97	B-Lymphocytes are Elevated in Mouse Bone Marrow by Estrogen Deficiency, and Induce Receptor Activator of Nuclear Factor .KAPPA.B Ligand (RANKL) Expression in Osteoblasts via Cell Adhesion. Journal of Health Science, 2004, 50, 309-314.	0.9	1
98	Capsaicin, A Ligand for Vanilloid Receptor-1, Transduces Suppressive Signal for Osteoclast Differentiation in Bone. Journal of Health Science, 2007, 53, 240-244.	0.9	1
99	1.ALPHA.,25-Dihydroxyvitamin D <sub>3</sub> -26,23-lactam, a Novel Vitamin D <sub>3</sub> Analog, Acts as a Vitamin D <sub>3</sub> Antagonist in Human Prostate Cancer Cells. Journal of Health Science, 2008, 54, 497-502.	0.9	1
100	Role of Prostaglandin E in Receptor Activator of Nuclear Factor-.KAPPA.B Ligand (RANKL) Expression in Osteoblasts Induced by Cell Adhesion to Bone Marrow B-lymphocytes. Journal of Health Science, 2009, 55, 832-837.	0.9	1
101	Development of Human Resources in Science and Technology. Trends in the Sciences, 2018, 23, 11_63-11_66.	0.0	1
102	Structure-Activity Relationship of Anthocyanidins as an Inhibitory Effect on Osteoclast Differentiation. BPB Reports, 2019, 2, 1-6.	0.3	1
103	Prostaglandin E Receptor EP4 Antagonist Suppresses Lipopolysaccharide-Induced Osteoclast Formation and Inflammatory Bone Loss. Journal of Health Science, 2007, 53, 234-239.	0.9	0
104	Strengthening of Female Researchers' Activities: The Support System in TUAT. Trends in the Sciences, 2017, 22, 8_80-8_86.	0.0	0