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[3130].$**39.95**[563]. 3 ±1 [2026]. $4n - 6$ [1224]. $4 \pm 2$ [2054]. $>$ [2562]. $^{+}$ [92]. $^{-}$ [1131]. $^{1}$ [1504]. $^{15}$ [1594]. $^{2+}$ [1023, 3111, 1540]. $^{6}$ [1158]. $^{9}$ [1158]. $^{vp}$ [2587]. $_{1}$ [1818, 2235, 2415, 2105, 1250]. $_{2}$ [3008, 3415, 875]. $_{2\alpha}$ [1828]. $_{3}$ [2193, 3008, 3027]. $_{50}$ [1910]. OXA [3271]. P1 [3384]. TEM [3271]. $_{x}$ [3008]. $\alpha$ [784, 2373, 1816, 2040, 767, 116, 2302, 3293, 2391, 1729]. $\beta$ [1995, 2904, 2919, 2993, 3050, 1993, 291, 2340, 2259, 1769, 2729, 1211, 1806, 1388, 3122, 2079, 2608, 594, 1185, 249, 2812, 1021, 1317]. $\beta 1$ [2261, 2261]. $G_4$ [2551]. $\gamma$ [1851]. $\kappa$ [1816]. $l$ [3216]. $n - 3$ [934, 1117, 1241, 994, 1454, 1524]. $\omega$ [67]. $\Omega 3$ [46]. $p$ [2487]. $\times$ [1750, 1635, 574, 551, 2616, 2287, 3276, 2993, 1921, 2721, 2724, 1188, 2782, 2376, 852, 1636, 3215, 2735, 3175, 1453, 585, 3149, 1508, 3406, 1097, 3011, 2473, 1631, 1732, 2955, 1155, 246, 1751, 3024, 3026, 1404, 2082, 2815, 2668, 3411, 2027, 2278, 2896, 1561].

**-1** [2993, 3050, 1993, 2340, 1806, 1185, 1021]. **-3** [67]. **-ATPase** [134]. **-carnitine** [3216]. **-carotene** [2079]. **-Carotene-enriched** [1995]. **-coumaric** [2487]. **-estradiol** [291, 1211]. **-farmed** [2620]. **-gal** [249]. **-glucan** [2904, 2259, 2729, 1388]. **-glucan-enriched** [3122]. **-glucans** [1769]. **-hydroxy-** [594]. **-induced** [1250]. **-infected** [2099]. **-K** [134, 92]. **-ketoglutarate** [2040]. **-lipoic** [2302]. **-mannanase** [2608]. **-methyl** [3293]. **-methylbutyrate** [594]. **-sensitized** [2288]. **-tocopherol** [784, 767, 116]. **-tocopheryl** [767].

**/HIF** [1816]. **/HIF-1** [1816]. **/IHHNV** [3092]. **/keap1** [2718]. **/macro** [1465]. **/vacuum** [1576].

**0** [1008, 1975]. **0-632-06406-4** [554]. **0-643-06865-1** [565]. **0-85199-596-9** [553]. **0-85238-276-6** [564]. **0-group** [40]. **0D** [997].

**1** [3357, 3271, 1344, 2840, 2373, 678, 1556, 1154, 3200, 1287, 2812, 2451, 2454, 2551]. **1-56022-104-6** [563]. **1-57808-443-1** [678]. **1-84376-601-9** [552]. **1-chloro-7-methyl-2-propyl-1h-benzo** [2375]. **10** [2351]. **10th** [812]. **11-ketotesterone** [2204]. **13** [574]. **14-reductase** [3349]. **15** [3048, 2214]. **15-year** [2070]. **16S** [2792]. **17-3** [2633]. **17**$^{o}$ [1297]. **18-year** [1407]. **19** [2582, 3120, 2511]. **1A** [2605]. **1b** [2183]. **1h** [2375]. **1UB** [2802].

**2** [3041, 2991, 2288, 1556, 2691, 2416, 2277]. **2-methylisoborneol** [1492, 3344]. **2-phenoxyethanol** [578]. **20**$^{o}$ [1297]. **20th** [1518]. **222** [2541]. **24L** [997]. **2642** [2815]. **28** [3212]. **281** [574]. **28a** [3007]. **2nd** [231, 692, 716, 860, 862, 992, 1285, 680].

**3}** [3158, 2143, 2261, 2633, 3347, 3033]. **3-glucan** [1806, 1185, 1021]. **3-month** [1530]. **3/1** [1993, 2340]. **3102** [2151, 2082]. **35** [3007]. **3D** [2967, 1246]. **3rd** [736].

**4** [2143, 2681]. **4-3** [2143]. **4-endoglucanase** [896]. **4-octyl** [3225]. **48-h** [1472].

**5** [1374]. **5-HT** [1374]. **5.8S** [895]. **53** [2366]. **53-kDa** [2366]. **5M** [1975].

**6** [1592]. **6-glucan** [2340]. **6-glucans** [1993]. **6w** [165]. **6w-3** [165].

**8** [2826, 926, 3155]. **8-cineole** [2323].

**978** [1008, 1975]. **978-1-78918-048-0** [1975]. **978-1-84971-259-0** [1008]. **9th** [861].

**Îles** [138]. **Îles-de-la-Madeleine** [138].

**A.** [1826, 700, 957, 1283]. **aad** [3271]. **Aarset** [708]. **Abalone** [514, 2029, 1085, 1673, 2335, 2761, 792, 1670, 370, 1813, 1701, 1115, 459, 1589, 2628, 3314, 2858, 1681, 2236, 2413, 1131, 896, 3070, 710, 1034, 1504, 185, 1367, 2482, 2668, 1875, 1871, 1327, 851, 1545]. **abalones** [1172]. **abce1** [2539]. **abdominalis** [544, 556]. **abilities** [1680]. **ability** [1218, 2287, 1860, 1083, 2625, 2740, 355, 2751, 2546]. **abiotic** [3359, 1498]. **Abnormal** [104, 2793, 2564]. **Abnormalities** [519, 3276, 3275, 1642, 1651]. **Abramis** [489, 585]. **abrogate** [1639]. **absorption** [712, 773, 2082]. **Abundance** [2916, 271, 3044, 957]. **acai** [2552, 2714, 2106]. **Acanthocephala** [2600]. **Acanthopagrus** [2948, 3155, 2179]. **Acanthus** [2681]. **Acartia** [1240, 1310, 1472, 1624, 1771, 1632]. **accelerate** [1489]. **acceleration** [1544]. **Acceptance** [3088, 3238, 1571, 2883]. **access** [299]. **acclimated** [1118]. **Acclimation** [3071, 1635, 1315, 1794]. **according** [1037]. **accretion** [2651]. **Accumulation** [1120, 3361, 3407, 1913, 1784, 1629, 2751, 1035, 3079, 3189, 2094]. **accuracy** [3000]. **accurately** [3133]. **acei** [3069, 1077]. **acetate** [1356, 767, 2179]. **acetic** [2245]. **acetylcholinesterase** [2035]. **acetylcysteine** [3357]. **Acheta** [3242]. **achieve** [3246]. **achievement** [1407]. **achieving** [2513]. **Acid** [250, 2902, 671, 2164, 1907, 562, 2487, 2756, 1255, 1696, 1621, 2396, 1750, 1098, 2062, 3354, 1133, 3039, 444, 2909, 1121, 2193, 2911, 2831, 910, 1353, 266, 2765, 2651, 784, 2121, 899, 2995, 1173, 3333, 2923, 2839, 1860, 1028, 1784, 1813, 1141, 1188, 2007, 1109, 1841, 1552, 912, 994, 915, 1311, 821, 1643, 1014, 1224, 1263, 2732, 2531, 1803, 2148, 37, 2101, 2941, 1684, 2319, 1147, 3242, 2472, 428, 501, 2175, 165, 983, 2948, 767, 1886, 3154, 1773, 982, 373, 2955, 634, 464, 1767, 2694, 2877, 17, 1096, 1751, 1432, 331, 1296, 620, 2179, 1163]. **acid** [900, 2419, 202, 3127, 1505, 2609, 2302, 2570, 1653, 959, 1348, 930, 1316, 2389, 204, 2305, 1694, 164, 3411, 1029, 1662, 432, 914, 2085, 1425, 1106, 1581, 2245, 1405, 2163, 2823, 3188, 425, 1545]. **acid-binding** [2101]. **acid-fermented** [2472]. **acid-induced** [3333]. **acid-supplemented** [1886]. **acidic** [2576]. **acidification** [1913, 2211, 1633]. **acidifier** [2345, 1736, 2024]. **acidifiers** [1888]. **acidilactici** [2847]. **Acids** [239, 2983, 2548, 867, 934, 2462, 818, 1117, 1241, 824, 2345, 994, 1231, 2202, 1097, 3117, 2045, 46, 667, 1454, 2611, 100, 1524, 1900, 135, 669, 1128, 2245]. **Acinetobacter** [2780]. **Acipenser** [2677, 2616, 1227, 1328, 1903, 2008, 994, 1094, 1848, 1247, 2204, 875, 776, 1232, 2960, 750, 483, 1857, 2245, 2278]. **Acipenseriformes** [454]. **acoustic** [3245, 2606, 2182]. **Acromitus** [2634]. **across** [2651, 3166, 2564, 1279, 2359, 3370, 3079]. **Acrossocheilus** [2539]. **acting** [2925]. **Actinidia** [2381]. **Actinomycete** [2866]. **actinomycetes** [823]. **action** [2763, 3002]. **activated** [1319]. **activates** [2812]. **activating** [1223, 1444]. **activation** [869, 2911]. **active** [1087, 2973]. **activities** [2059, 1957, 1708, 2488, 2000, 410, 2680, 463, 3375, 2938, 1560, 2318, 361, 1267, 2631, 2533, 2045, 1063, 925, 913, 1145, 3405, 3257, 92, 2021, 1108, 1735, 3142, 2893, 905, 1649]. **Activity** [506, 484, 3203, 2191, 4, 255, 1696, 1619, 549, 2910, 2311, 160, 1626, 3333,

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[146, 2988, 1140, 1569, 1817, 3408, 1213, 2314, 2556, 1239, 1640, 2997, 2783, 29, 426, 1288, 2209, 797, 47, 473, 1717, 2537, 1258, 3252, 2106, 2815, 3377, 1105, 2894, 2979, 1922, 2824, 2617]. **Ag** [2905]. **against** [3085, 1957, 1033, 2900, 1638, 2189, 2755, 3203, 2191, 2089, 1801, 3219, 3201, 2827, 2581, 1619, 3039, 2616, 2914, 2095, 3276, 2835, 2993, 2769, 2836, 1498, 2920, 2434, 2618, 3103, 2463, 1676, 2590, 2842, 2722, 1474, 2465, 987, 1563, 2523, 2557, 2844, 1467, 2625, 915, 1169, 2847, 1417, 2234, 2375, 2441, 1469, 855, 794, 1914, 1925, 2350, 1757, 3065, 2294, 2942, 1388, 2324, 1872, 2446, 2689, 2473, 925, 2945, 2017, 2946, 1732, 3173, 1704, 2476, 465, 1315, 3254, 3259, 3278, 2605, 2805, 739, 2662, 2154, 2637, 3410, 1087, 2960, 2051, 2052, 2105, 1333, 3367, 2569, 2541, 3026, 2964]. **against** [2698, 1059, 2327, 2481, 1711, 3128, 1132, 3253, 1962, 82, 950, 1361, 1437, 1182, 2483, 1438, 1403, 3078, 2160, 2893, 3134, 1727, 1592, 2673, 2644, 1731]. **agalactiae** [2755, 2649, 1919, 3062, 2605, 2180, 1809, 1815, 2248, 1731]. **agar** [1673, 879]. **agar-bound** [1673]. **Agardh** [717]. **agarophyte** [2412]. **agarophytes** [3046]. **Agarophyton** [2300]. **Age** [248, 515, 126, 1439, 659, 462, 1002, 133, 1466]. **age-structured** [1002]. **agent** [3203, 2548, 1915, 1323, 2206, 2269, 1260]. **agent-based** [1915]. **agents** [1460, 3243, 2154, 407, 2887, 1161]. **ages** [1722]. **agglutinating** [85]. **aggregation** [3376]. **aggregative** [2105]. **aggression** [313]. **aggressiveness** [1948, 1947]. **agonistic** [1266, 65]. **agonists** [255]. **agri** [3269]. **agri-aquaculture** [3269]. **agricultural** [2368, 3004]. **Agriculture** [678, 2280, 2875]. **Agrimos(R)** [1687]. **agro** [2039, 1385, 1386]. **agro-ecological** [1385]. **agro-ecosystem** [2039]. **agro-industrial** [1386]. **Ah17** [2051, 2052, 2421]. **ahead** [1416]. **AHP** [2777]. **AHPND** [2581, 2914, 1510, 2147, 2206, 2560, 2860, 2947, 2020, 2161]. **AHPND-positive** [2147]. **AI** [2737, 2862]. **AI-driven** [2737]. **Ailian** [1102, 1272]. **aiming** [2554]. **air** [439, 279, 1576, 2795, 280, 177, 1112, 672, 2084]. **air-** [1576]. **air-/vacuum-packaged** [1576]. **air-breathing** [1112]. **akaara** [1364]. **Akazaki** [1503]. **AKG** [2040]. **Akvakultur** [708]. **alba** [1252]. **Albendazole** [2258]. **albiflora** [3236, 1350, 2138]. **albino** [3185, 2632]. **albumin** [1217]. **alburnus** [3411]. **albus** [1267]. **Alcalase** [1927]. **alcoholic** [2880]. **alevins** [2289, 2423]. **alexandri** [1884, 2553]. **alga** [1041, 2365, 2414]. **algae** [1356, 3094, 1913, 2492, 396, 2314, 652, 1676, 1501, 3303, 3109, 199, 2174, 1471, 1084, 2016, 718, 2611, 2216, 892]. **Algal** [232, 2647, 3295, 1310, 2168, 1347, 2877, 1798, 289, 2699, 1820, 327, 36]. **algal-based** [36]. **Algarve** [391]. **Algeria** [2140]. **Algerian** [1696]. **alginate** [3357, 2581, 1261, 2496, 2173, 209, 2695, 3131]. **alginate-chitosan** [2496]. **alginate-coated** [1261]. **Alginic** [1773]. **alginolyticus** [2028, 2755, 2985, 1479, 3271, 2993, 1757, 1429, 1732, 1704, 3200, 1493, 941]. **algorithm** [1915, 2926, 1349, 3233, 3133]. **alien** [714]. **alimentation** [1012]. **alkali** [2856]. **alkaline** [2470, 971]. **alkalinity** [1381, 2788]. **all-female** [455]. **all-trans-retinol** [3349]. **alleviate** [1250]. **alleviated** [2028, 3081].

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**HB** [564]. **hbk** [552, 554]. **hCG** [2339, 1160]. **head** [3228, 2038, 763, 1805, 1665, 1981]. **head-kidney** [1981]. **healing** [3069]. **Health** [1067, 3034, 2364, 3219, 3201, 2518, 945, 1319, 2428, 3043, 2652, 871, 2835, 2770, 3355, 2313, 3380, 2589, 1047, 2929, 3402, 3303, 3363, 3305, 365, 1436, 2499, 2686, 2935, 3147, 1765, 2734, 3260, 2941, 2861, 2737, 2862, 1073, 277, 3409, 2954, 3416, 2636, 586, 3220, 3206, 2694, 2662, 2807, 3306, 2050, 2666, 2134, 2811, 1185, 1595, 3421, 3293, 3210, 1543, 2896, 2577, 2578, 3170]. **healthcare** [1671]. **healthy** [2859, 892]. **heart** [2910, 2335]. **Heat** [1157, 3039, 1293, 2236, 2351, 1315, 1866, 3252, 1003, 2643, 1373]. **heat-inactivated** [1866]. **heat-killed** [2643]. **heat-resistant** [1373]. **heat-shock** [1293, 1003]. **Heat-shock-induced** [1157]. **heated** [799]. **heavily** [2226]. **Heavy** [2676, 3086, 3361, 3407, 2395, 3103, 3244, 2159, 2709]. **Heckel** [703]. **Hediste** [1870, 3192]. **hedonic** [1180]. **height** [2972]. **Held** [220, 2488, 2343]. **Helfman** [860]. **helgolandica** [1676]. **Heliocidaris** [2978]. **Hellenic** [1332]. **hellerii** [2003]. **help** [1400]. **helveticus** [3039]. **hemato** [2287, 3049, 3255, 2291, 2146, 3106, 3375, 3066, 1890, 1360]. **hemato-biochemical** [2287, 3049, 3255, 3106, 3066]. **hemato-immunological** [2291, 2146, 3375, 1890, 1360]. **hematobiochemical** [2738]. **hematologic** [1869]. **Hematological** [2522, 2132, 2059, 2705, 2060, 1645, 1763, 3234, 2905, 629, 2430, 2402, 3276, 1764, 2774, 3196, 2341, 2008, 2930, 2853, 2854, 2741, 1661, 1428, 1863, 1496, 2241, 2156, 2813, 593, 3100, 3144]. **hematology** [2826, 3232, 1750, 3182, 1328, 2438, 2376, 1852, 1914, 2958, 1372, 1751, 2179, 1719, 1900, 2330, 3078, 1931, 1731]. **hematopoietic** [2888, 2704]. **Hemicentrotus** [1633]. **Hemingway** [554]. **hemocyte** [1810, 1268]. **hemocytes** [2120, 2692]. **hemolymph** [2435]. **hemorrhagic** [987, 2783, 1301, 1806]. **Henderson** [955]. **Heniochus** [1375]. **heparin** [1869, 2341]. **hepatic** [1293, 1882, 2632, 2952, 3367, 2751, 3202, 2672]. **hepatic-renal** [3367]. **Hepato** [2632, 3003]. **hepato-renal** [3003]. **Hepatobacter** [2032]. **hepatointestinal** [3260]. **hepatopancreas** [2032, 2770, 1956, 2230, 3112, 2560, 2692, 2274, 1389, 2452, 2753, 2277, 2546, 2975]. **hepatopancreatic** [3349, 2587, 1956, 1510, 2202, 1441, 3064, 2939, 2860, 943, 931, 2020, 2107, 2974, 2161]. **hepatopenaei** [3124, 3085, 1904, 3173, 1909, 2545, 2897]. **Hepatoprotective** [1417, 3026]. **hepatotoxicity** [3357]. **hepatus** [1375]. **Herbal** [836, 3203, 3103, 1810, 739, 1087, 2357, 2888, 2644]. **herbicide** [3074, 3294]. **herbivore** [2481]. **herbivorous** [1307]. **herbs** [472, 2408, 2049, 1252, 735, 782]. **Heritability** [1903, 1341]. **Herklots** [2262]. **Hermetia** [2742]. **Herpesvirus** [2840, 2288, 1925, 2416, 1482]. **Herpesvirus-1** [2840]. **herpesvirus-2** [2288]. **herring** [211]. **Hertlein** [1118]. **hesperidin** [3227]. **Hesperozygis** [2405]. **heteroclada** [2628]. **heterogametic** [2204]. **heterogamety** [3373]. **heterogeneity** [313]. **heterogenic** [581]. **heterologous** [3246, 2700]. **Heterophyes** [2222]. **Heterophyid** [2149]. **Heteropneustes** [671, 1116, 1081, 817, 2263, 2384].

**heterosis** [3289, 2235]. **heterostomum** [2392]. **heterotrophic** [3395, 2764, 2924, 1052, 1970, 2172, 3416, 972]. **heterozygosity** [155]. **heterozygous** [189]. **HIB_D** [2682]. **Hibiscus** [1991]. **Hierarchical** [811]. **hierarchy** [2808]. **hif** [2373]. **HIF-1** [1816, 2373]. **High** [1986, 989, 1045, 3116, 1717, 1271, 2088, 1728, 788, 1870, 2678, 149, 3212, 1256, 2404, 2994, 2096, 2724, 1351, 1513, 1609, 3184, 3313, 3058, 1224, 1054, 2736, 3175, 37, 2941, 3146, 2955, 3416, 2130, 2875, 3220, 3206, 644, 547, 2021, 826, 2882, 967, 3265, 2884, 2970, 2484, 2889, 3210, 1330, 2893, 2163, 3081, 3261]. **high-** [2484]. **High-density** [1045, 967, 1330]. **high-fat** [2404, 2941, 3220, 3206, 2970, 3210, 3081]. **high-latitude** [2889]. **High-level** [2088]. **high-performance** [788]. **High-quality** [3116, 1870, 3058, 3261]. **High-resolution** [1717]. **high-salinity** [3313, 2021]. **high-tech** [3146]. **high-temperature** [1256, 2736, 644]. **high-throughput** [2678]. **higher** [1911, 1973, 1199]. **Highly** [3420, 1342, 934, 994, 2974]. **hilarii** [1098]. **Hills** [1027]. **Hilsa** [2780]. **Himalayan** [2630, 3425]. **hindering** [2198]. **Hippocampus** [1358, 2913, 2038, 544, 556]. **Hippoglossus** [743, 838, 976, 394, 1042, 425]. **Hippolytidae** [403]. **hispida** [3209]. **histamine** [1035]. **histo** [3106]. **histo-morphology** [3106]. **Histological** [1465, 233, 850, 3361, 3407, 2902, 1763, 2650, 2226, 3198, 3424, 3050, 1764, 3053, 2522, 2931, 1211, 3011, 983, 1233, 3413, 2512, 1050]. **histology** [3219, 3201, 3232, 3045, 2434, 2340, 2726, 2376, 2204, 2472, 2533, 2872, 2965, 2701, 2024, 1875]. **histomorphological** [2745]. **histomorphology** [3101, 2770, 3051, 3286, 1874, 1543]. **histomorphometric** [2952, 3122]. **histomorphometry** [2825]. **Histopathological** [3034, 2433, 400, 2330, 2059, 2983, 2222, 1353, 2769, 3334, 3003, 2011, 1940, 2470, 2149, 2942, 1073, 1065, 2873, 559, 2132, 2966, 2159, 2392]. **histopathologicalstudies** [1986]. **Histopathology** [2050, 2901, 2836, 2742, 2962, 2702]. **historical** [1574]. **histories** [1749, 1726]. **history** [723, 22, 1009]. **HMB** [594]. **HO-1** [3357]. **hoarding** [3060]. **Hoffmann** [2085]. **Hokkaido** [790]. **holding** [1066]. **holes** [2084]. **Holmberg** [1769]. **Holothuria** [713, 2829, 2309, 1193]. **Holothuroidea** [713]. **Holt** [991]. **holy** [2114]. **Homarus** [904, 1844, 1421]. **homeostasis** [1980, 3027]. **homestead** [1647]. **homogenate** [1213]. **Homologous** [2700, 3212]. **homologs** [2366, 2149]. **homologue** [2812]. **homoserine** [1780]. **homozygosity** [902]. **homozygous** [189]. **Honduras** [95]. **honey** [2852]. **honeycomb** [695]. **Hong** [176]. **Honshu** [1103]. **Horabagrus** [3258]. **horizontal** [1344, 1298]. **Horizontally** [706]. **Hormesis** [3074]. **Hormonal** [1679, 1160, 2897, 1229, 1934, 1508, 1661, 2804, 1159]. **hormonal-sex-reversed** [1508]. **hormone** [255, 2139, 2193, 2349, 875, 1296, 1338, 3297]. **Hormones** [220, 996, 3053, 1542, 3348, 770, 798, 136, 379, 1892, 1824]. **Hormozgan** [1380]. **hornemannii** [2699]. **horneri** [1650]. **hornorum** [2782, 1508, 3024]. **horrens** [2526, 2298, 2383]. **horse** [1144]. **Host** [2089, 3158, 1534, 1602, 2957, 2973, 3318, 1815]. **host-parasite** [2957]. **hosts**

[2747]. **hot** [2150, 670]. **household** [1787, 1746]. **households** [3310]. **housekeeping** [2328]. **Howell** [307]. **Hsp60** [2351]. **Hsp60/10** [2351]. **HSP70** [1860, 1299, 2960]. **hsp90** [1299]. **Hspa8b** [3174]. **HT** [1374]. **Huangguan** [1335]. **Huanghai** [1743]. **Huangyou** [1922]. **Huangyou-1** [1922]. **hub** [2274]. **Hubei** [2980]. **Hucho** [1739, 1617, 2514]. **HUFA** [430, 647, 67, 2512, 930]. **HUFA-enriched** [67]. **Huffmanela** [2676]. **Hufmanela** [2709]. **human** [2395, 1416, 1066, 1160, 1880]. **humans** [2006]. **humoral** [1309, 2556, 855]. **humpback** [866]. **Hungarian** [1220, 3004]. **Hungary** [658, 1575, 1207, 676]. **hunting** [918]. **husbandry** [1170, 1589, 2413]. **Huso** [1076, 1303, 2430, 2402, 1170, 1028, 1109, 2496, 2865, 1590, 1496]. **Hybrid** [574, 1269, 1750, 1635, 551, 2649, 2616, 3250, 2287, 3276, 3051, 3286, 660, 2724, 1188, 2098, 2376, 852, 2856, 2735, 3417, 2863, 3406, 1097, 269, 2473, 1631, 1732, 2151, 1751, 3026, 133, 1404, 3297, 2082, 2815, 2668, 2819, 1922, 2278, 2896, 1561]. **Hybridization** [483, 1908, 2956]. **Hybrids** [246, 1172, 290, 3415, 2235, 585, 1508, 1233, 1155, 1871, 2027]. **hydration** [1326, 1498]. **Hydration/** [1498]. **hydration/dehydration** [1326]. **hydraulic** [1249, 2047]. **hydrochloride** [1921, 395]. **hydrodomous** [3410]. **hydrodromous** [2375, 2637]. **Hydrodynamic** [2174]. **hydrodynamics** [5]. **Hydrogen** [1342, 16, 1259, 2293]. **hydrogeochemical** [1183]. **hydrolases** [2633]. **hydrolysate** [3232, 3391, 3274, 2344, 3106, 853, 2735, 3419, 2800, 3370, 1138, 3374, 1540]. **hydrolysates** [149, 2253]. **hydrolysed** [1440]. **hydrolysis** [344, 2554]. **hydrolyzed** [3375, 3117, 2954, 3306, 1824, 1316]. **hydrophila** [1033, 3035, 1638, 1790, 2487, 2756, 3350, 1835, 2907, 3389, 2832, 2337, 885, 2005, 2228, 1912, 1474, 987, 2007, 1137, 2595, 2789, 2350, 3113, 2793, 3225, 2044, 1388, 2688, 2866, 2473, 3162, 2017, 2209, 2151, 2265, 2958, 3381, 2051, 2052, 1333, 1805, 1010, 2810, 2964, 2327, 2481, 2815, 1437, 2421, 2750, 2243, 2516, 1922, 2066]. **Hydroponic** [627, 2257, 1849, 3008, 1677, 1462]. **hydrostatic** [2320]. **hydroxide** [1289, 1131]. **hydroxy** [594]. **Hypancistrus** [3159]. **hyperosmotic** [2180]. **hyperoxia** [779]. **hyperoxic** [294]. **Hyphaene** [2933]. **Hyphessobrycon** [2340]. **Hypnea** [1867]. **hypo** [1299]. **hypo-osmotic** [1299]. **Hypophthalmichthys** [2525, 1792, 3358, 2160]. **hypophthalmus** [1477, 1972, 2253, 1818, 1781, 2499, 2561, 3066, 2505, 1150, 2661, 1661, 3338, 1653, 2329, 2304, 1394, 2701, 2672]. **hyposaline** [560]. **hypothetical** [3007]. **hypoxia** [2287, 3274, 931, 2696, 3267, 2274, 3388, 2185, 3398, 2391, 3202]. **hypoxia-inducible** [2391]. **hypoxia-related** [2185]. **hypoxic** [3346, 2373, 2558, 734]. **Hyriopsis** [733, 1734, 1043, 1080, 754, 777, 1329, 733, 2183, 1195]. **hystrix** [3078].

**I.** [691, 863]. **ibericus** [1798]. **Ichthyobodo** [3205]. **ichthyofauna** [2660]. **icing** [2026]. **ICSR** [812]. **ictaluri** [3338, 1922]. **Ictalurus** [1615, 1802, 1273, 1702, 1682, 1405, 1981]. **ide** [1213, 1228, 662, 1651]. **idella**

[1980, 2763, 849, 603, 1187, 1459, 2007, 1040, 1699, 3113, 451, 1030, 2184, 2307]. **idellus** [1238, 1293, 2040, 2734, 2162, 3319, 3218, 1451]. **Identification** [2615, 2118, 2478, 1092, 1937, 3392, 1185, 2081, 2276, 3373, 1986, 2547, 2222, 2676, 2709, 2251, 3040, 1375, 2584, 1669, 738, 897, 1079, 1197, 2295, 2808, 1987, 965, 1053, 2642, 2112, 2308, 1494, 2027]. **identify** [528, 2326]. **Identifying** [2450]. **idus** [1213, 1228, 662, 1651]. **IFN** [1851, 2973]. **IFN-** [1851].

**90, 1149].internal[1211, 715]IFN-[2936]and[2156,2641,2926,2580,3114,1209,1227,2571].2086,–[2518]56]IGF-I[3135]IGF-II[2209**

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**K. [374]. kaffir [3078]. kappa [1867]. Kappaphycus [3231, 2988, 3046, 2785, 2632, 893]. Karaman [1879]. kasignete [1842]. Kaup [1091, 1089]. KD [2857]. kDa [2366, 3007]. Keap1 [2507, 2718]. keep [405]. keeping [1166]. Kellogg [1795]. kelp [2397, 1611, 1103]. Kenya [1963, 977, 1984, 835, 1951]. Kenyi [1821, 1596]. kept [62, 509, 2022]. Kerala [2797]. keratin [2202]. kernel [1467]. kessleri [2748]. ketoglutarate [2040]. ketotesterone [2204]. key [2250, 3246, 2582, 3178, 2326, 2539, 2607, 1373]. Keyword [216, 263, 316, 376, 420, 476]. kidney [3232, 3389, 2632, 1805, 2081, 2967, 1981]. Killary [81]. killed [2556, 2643]. killing [794]. kinase [2671]. kinds [439]. kinetics [1045]. King [716, 282, 3159]. kingfish [1244, 794, 1312]. Kishinouye [686]. kisutch [2289, 2423]. Kjørsvik [564]. Klebsiella [2764, 3296]. knockout [1962]. knowledge [3166, 2843, 2730, 2857]. kob [1270]. koi [633, 3153, 1495, 2047, 2048, 2357, 2136, 1383, 3153, 2352, 1495, 2047]. Koidze [3065]. Komárek [2085]. komareki [3412]. Kong [176]. Konjac [1729, 1604]. Korea [2594, 3336, 2321]. Korean [1297]. Kottelat [3258]. Kraft [879]. Krøyer [3055]. KT29 [2483]. kuda [2038]. Kue [2863]. Kumar [1205, 1284]. Kurokura [488]. kuruma [1256, 3169, 2507, 3036, 3217]. Kutty [692, 1039]. kutum [1399, 2740, 964, 1399, 964]. Kützing [1334, 847].**

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**1690, 909, 1017, 2141, 3217, 2585, 2068, 1626, 780, 1226, 203, 196, 2724, 2726, 1552, 1609, 1629, 1364, 3060, 956, 975, 1897, 2292, 2293, 1699, 3214, 3260, 550, 1267, 1590, 1450, 165, 982, 373, 1713, 1478, 17, 312, 18, 3165, 1296, 1873, 1163, 1505, 431, 1653, 3074, 1858, 668, 3130, 1025, 3199, 1189, 2751, 789, 1618, 2083, 914, 1148, 2085, 1425, 3189, 1106, 1729, 1561, 2113, 1545]. lipid-enriched [1025]. lipid-related [1163]. lipid-rich [1897]. lipidcomposition [270]. Lipidomic [1665]. lipids [2065, 1490, 2414, 17, 1271, 2094]. lipoic [2909, 2302]. Lipolytic [463]. lipopeptide [1592]. lipoprotein [1189]. liposomal [3355]. liposomes [433]. lipped [615, 2488, 1281, 3097, 2004, 1480, 3207]. Lippia [2650]. liquid [2685, 2477]. liquor [908]. List [217, 264]. literature [1533]. lithium [1869]. Lithodes [1539]. Litopenaeus [1119, 1011, 522, 526, 2675, 2549, 2828, 3227, 2581, 1619, 1904, 1652, 2830, 3391, 1248, 1334, 2032, 764, 1463, 1817, 1384, 1678, 2428, 2992, 3212, 2835, 3198, 2770, 2434, 3393, 3334, 1173, 2921, 1567, 2096, 2719, 2435, 2313, 1396, 1992, 1393, 1289, 1259, 1381, 1379, 2259, 1860, 1555, 2143, 1676, 1784, 1052, 883, 1538, 2997, 2844, 2682, 1023, 944, 824, 1198, 3400, 3059, 2593, 2847, 2626, 1827, 1654, 1664, 1855, 2786, 2202, 2347, 3167, 1614, 1598, 2317, 2530, 2205, 2732, 894, 1268, 525, 1324, 1822, 2100, 2469, 2939, 1460, 2318, 3340, 3242, 2598, 2322, 2533, 3119, 2943]. Litopenaeus [2689, 524, 1886, 389, 2076, 1019, 3146, 2018, 2049, 3245, 2803, 3019, 1880, 1620, 1502, 331, 2239, 763, 3022, 2300, 1452, 2021, 2609, 2106, 2107, 2182, 1036, 1877, 2303, 1389, 1570, 1374, 1711, 3279, 1962, 2022, 1331, 2749, 1966, 2483, 2422, 2453, 2670, 2545, 3077, 2574, 3388, 2057, 2819, 3189, 735, 782, 2112, 1613, 1722, 1976, 1021, 3083, 1424, 2333, 1397, 1355]. litter [3143]. Little [354]. littoral [3230, 596]. littoralis [3087]. Liu [725]. Live [511, 628, 1033, 642, 2911, 3097, 2460, 867, 438, 458, 396, 2168, 435, 662, 1347, 1399, 1241, 1771, 2783, 2199, 1632, 696, 1614, 1560, 2597, 1583, 1982, 3118, 1872, 1554, 2948, 964, 1842, 18, 1007, 1866, 3356, 3279, 2613, 1355]. livebearing [729]. livelihood [2039]. livelihoods [2394, 2621, 417, 2961]. Liver [2584, 69, 2141, 2404, 1841, 2782, 1417, 821, 2376, 2935, 3147, 3113, 361, 359, 2793, 2472, 983, 473, 1287, 1296, 2512, 1163, 61, 2302, 3194, 2304, 2701, 2750, 1029, 1543, 1561]. lividus [1859, 1610, 923, 2231, 2043, 800, 1767, 1365]. living [1008, 104, 921]. Liza [3180, 2004, 3355, 720, 1425, 3207]. Lmk. [1838, 558]. loach [1157, 1156, 324, 724, 741, 814, 711, 831]. load [472, 3101, 1766, 3264, 2293, 289]. loaded [3357, 2291]. Loading [538, 2047, 2480]. loads [1861]. Lobatus [1892]. Lobelia [2579]. lobster [904, 1421, 1458, 426, 434, 2742, 82, 272]. lobsters [1844]. Local [1386, 910, 2353, 1203]. Localisation [2098]. locally [1740].**

**located [2555]. locating [2899]. location [1079, 2868]. locations [1915, 2542]. loci [1670, 675, 583, 852, 1848, 1201]. lockdown [2582]. locomotor [2080]. logarithmic [1609]. logic [3168, 834, 973]. logic-based [3168]. lombardoi [1821, 1596]. London [1008]. Long [218, 2785, 586, 1559, 968, 1795, 2825, 3401, 3231, 2988, 2651, 3333, 2925, 2292, 3417, 3409, 2508, 17, 669, 1021]. long-acting [2925]. long-chain [2651]. Long-distance [2785, 2988]. long-lasting [669]. long-spined [2508]. Long-term [586, 1559, 968, 1795, 2825, 3401, 3231, 3333, 3417, 3409, 17, 1021]. long-whisker [2292]. longitudinal [2070, 1073, 2360]. longline [2062, 984, 2275]. longlines [637]. longsnout [2913]. longtooth [2863]. look [2378]. loop [3228, 2145, 2881, 2158]. loop-mediated [3228, 2881, 2158]. Lophiosilurus [1884, 2553]. Loricariidae [3159]. Loss [552, 2249, 1271]. losses [1569, 632, 2663, 211]. Lota [1210, 1209, 1208, 1225]. lotus [3079]. lotus-fish [3079]. Low [942, 1253, 2166, 240, 1435, 2483, 2675, 2394, 2335, 541, 1566, 2096, 12, 2071, 1538, 1513, 2845, 1629, 1654, 163, 2788, 3009, 1324, 1796, 1675, 96, 1886, 2506, 2507, 1825, 2602, 210, 3209, 2610, 787, 44, 1489, 1702, 2484, 3373, 2574, 2819, 1752, 2679]. low- [2675]. low-cost [2394, 2602, 3209, 1489]. low-density [1825]. low-dose-rate [1629]. low-fish [1886]. low-hatch [210]. low-level [96]. low-oxygen [1702]. low-quality [3373]. low-salinity [2845, 1654, 1324, 2506, 2610, 2574]. Low-salt [2166]. low-temperature [3009]. low-virulence [2484]. Lowe [1830]. lower [2794, 2048]. lowland [271]. LPL [1189]. LPS [1640]. LpxD [1962]. Lucas [1071]. lucioperca [1932, 642, 749, 2257, 1229, 1782, 2339, 1588, 1944, 1169, 1230, 3005, 2855, 1160, 1499, 2529, 1927, 1934, 1940, 1941, 2042, 2945, 2566, 2211, 452, 1165, 1579, 1939, 3018, 1936, 1930, 630, 1933, 1935, 641, 2109, 480, 1159, 1931, 1161, 1942, 2456]. lucius [659, 2468]. lumpfish [1655, 1401, 1572, 1856, 1756, 1755, 2883]. lumpus [1655, 1572]. lupus [1826]. luscus [1265]. Luten [690]. luteus [3187]. lutheri [427]. Lutjanus [1353, 2834, 2694, 1503]. Lutra [457, 676]. lyase [2695]. lycidas [1918]. lycopersicum [2685]. lymphocystis [2126, 2478, 2797]. lyophilized [2106, 2552, 2714]. Lyropecten [323]. Lys [2677]. Lys-c [2677]. Lys6 [150]. lysine [1699, 798, 2701, 2574]. Lysmata [403, 1025]. lysolecithin [1791]. Lysozyme [2677, 1287, 1727]. Lytechinus [561].**

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**macro-morphological [1465]. macroalga [1772]. Macroalgae [514, 2549, 1859, 2775, 2203, 1547, 2275, 3129]. macroalgal [2164]. macrobenthic [3231]. macrobenthos [362]. macrobrachion [2262]. Macrobrachium [2089, 1801, 2580, 2366, 1971, 1839, 2989, 1627, 2583, 3096, 270, 2427, 3281, 512, 3047, 2290, 3255, 2554, 1724, 1563, 2524, 1896, 2557, 1792, 2623, 1776, 1257, 2439, 366, 1048, 1137, 2262, 1126, 1292, 1385, 3111, 3160, 1288, 1823, 1388, 1685, 1687, 845, 2688, 2866, 1777, 3200, 1082, 2152, 2692, 1252, 1371, 2326, 1785, 1010, 2448, 293, 2814, 3075, 2671, 2817, 2243, 1807, 2113, 2715, 2493]. macrocephala [3065]. macrocephalus [1623]. macrochirus [874]. macrocopa [1481]. Macrognathus [3402]. macroinvertebrates [1099]. macronutrient [742]. macrophages [1916, 2572, 1981]. macrophyte [144]. macrophytes [1891]. macropomum [3095, 3287, 2310, 2035, 2258, 2837, 2405, 2343, 2294, 2738, 2150, 2600, 2958, 2809, 2418, 2241, 1731, 2552, 2714, 3177, 2766, 2196, 2167]. Macrotidal [2944]. macrozoobenthos [1167]. maculata [1561]. maculatum [1614]. maculatus [1995, 1999, 3246, 3248, 2200, 2935, 3147, 3240, 3251, 2941, 3220, 3206, 2451, 2454, 3210]. madaka [1172]. made [435, 1382, 2202, 1050, 147]. Madeleine [138]. maenas [938]. maeotica [500]. magellancius [281]. magellanicus [383]. magna [2864, 3356]. magnesium [2708, 2435, 2278]. magnetite [3003, 2942]. Magnifera [1467]. mail [565]. Main [2950, 2629, 1280, 2949]. Maine [159]. maintained [2015]. Maintaining [3180]. Maintenance [1942, 3168, 378, 1365, 2456]. Maize [579, 192]. Maja [731, 1291]. Major [2115, 2547, 461, 953, 2192, 2648, 1242, 3151, 2075, 2797, 2266, 2956, 1476, 2356, 1667, 2215, 969, 562, 1481]. making [1079]. malabaricus [985]. maladaptive [3018]. Malaga [282]. Malaysia [2389, 2746]. Malaysian [1641, 1427]. malcolmsonii [1371]. MALDI [3040, 3138]. male [2616, 3276, 1229, 2721, 2724, 2439, 3215, 1908, 2735, 2411, 3175, 2502, 2863, 3406, 2413, 3011, 3348, 2955, 1092, 1924, 3026, 2183, 2668, 2671, 3411, 3373, 2278, 2896, 272]. male-sign [3276, 3215, 3175, 3406, 3011, 2955, 3026, 3411, 2896]. male-specific [3373]. males [3236, 2573, 1029, 1195]. malformation [2922]. Mali [1597]. Maliakos [1275]. mallow [2000]. Malmquist [1427]. Malva [2000]. mammalian [255, 1160]. man [1382, 147, 1839, 1724, 1792, 1048, 1137, 1126, 1292, 1388, 1010, 2814]. man-made [1382, 147]. manage [3068]. manageable [3193]. managed [1594]. Management [416, 661, 774, 868, 413, 2984, 3323, 2518, 2091, 2646, 2282, 198, 1826, 1740, 3309, 791, 3394, 2838, 1555, 2436, 598, 1862, 3403, 1588, 2009, 575, 1549, 2374, 633, 1008, 414, 1848, 2627, 1608, 2316, 926, 587, 1197, 75, 333, 576, 2353, 352, 3285, 1787, 2565, 3071, 3171, 534, 2636, 1113, 532, 20, 1378, 2356, 2807, 1880, 2607, 2272, 3025, 812,**

**1663, 1788, 2699, 2971, 1167, 2186, 2165, 2617, 716, 374]. managements [1565]. managing [2254]. Mandal [330]. mandarin [3380, 830, 2657, 3214, 1392]. mandibles [304]. manganese [1649]. Mangrove [552, 2944, 3379, 2834, 3143, 2378, 3321]. mangrove-shrimp [2378]. Manila [439, 871, 705, 177, 3300]. manipulate [2214]. manipulated [2850, 335]. manipulation [1826, 1229, 1588, 2237, 2422]. manipulations [124]. Manipur [2621]. mannan [1477, 1972, 2589, 2037, 917, 1254, 2802, 648]. mannan-oligosaccharides [2037, 2802]. mannanase [2608]. mannanoligosaccharides [1769]. Mantle [139, 907, 2868]. manual [466, 2103]. manure [1066, 1795]. many [1390]. map [874, 2899]. mapping [2550, 2777, 2359, 2162, 1352]. Mar [543]. marbled [2141, 1370, 2111]. marc [2761]. Marennes [416]. margaritifera [1281, 3309, 396, 1337, 1480, 1032, 469]. marginalis [3073]. marginatus [1830]. Mariculture [252, 2190, 815, 2406, 2010, 2792, 2353, 1693, 3280, 2820]. maricultured [1656]. marigold [3137]. Marine [564, 2492, 347, 861, 805, 446, 2396, 2365, 2615, 1628, 1887, 2252, 1490, 2254, 1954, 1899, 2067, 1865, 1241, 1564, 1629, 1008, 259, 305, 1897, 417, 1464, 1768, 624, 1073, 2688, 2866, 2690, 925, 1695, 1969, 209, 337, 1332, 3307, 2695, 1620, 107, 60, 289, 121, 1968, 3129, 436, 539, 3253, 2699, 1016, 1128, 2700, 1462, 2083, 3311, 3324, 2194, 605, 955]. marine-farmed [1073]. maritima [3307, 2389]. Maritime [416]. maritimum [693]. marker [738, 1728]. Markers [1346, 481, 1216, 1669, 849, 1506, 1964, 437, 2325, 1502, 2667, 1185, 1544, 1114, 874, 1060, 1707, 2362, 2642, 3373, 1392, 1509, 1761, 2980, 2137, 1644]. Market [502, 2490, 1557, 2034, 2199, 679, 1057, 1951]. marketable [548, 2716, 633, 1559]. Marketing [689, 3088, 1015, 499, 390]. markets [1967, 3370]. marmelos [2722]. marmorata [2141]. marmoratus [2815, 3149]. Maróz [1210]. Marphysa [949]. marron [3423, 1254]. marsh [2171]. Marsupenaeus [3036, 1256, 3169, 2507, 3081]. Mart. [1616]. Martens [865]. martensii [954, 1506, 2868, 1537]. Marthasterias [1024]. Martin [365]. MAS [3068]. Masculinization [645, 3297, 3293]. masculinized [195]. Mask [3110]. Masoten(R) [2310]. masou [3352]. Mass [561, 1586, 3040, 2252, 1377, 3292, 3056, 1461, 1429, 2534, 2210, 3278, 2663, 2135, 1260, 1761]. Master [1408]. Masu [3352]. mat [1302]. material [632, 1110, 1856, 2785]. materials [1440, 491]. maternal [1439, 2528, 1809]. Mathematical [2725, 3422]. mating [876]. matrices [3302]. matrinxã [392]. matrix [1715, 2247]. Matsushima [1103]. matter [1107, 670]. matters [1834, 1948, 1947]. Maturation [248, 270, 2863, 482, 504, 1103, 195, 3352, 1313, 1370, 3266, 525, 1553, 3342, 1357, 1825, 1092, 840, 1296, 19, 1365, 1029, 3189].**

**Mature [2536, 3236, 712]. matured [121]. Maturity [248, 695, 801, 462, 123, 758, 2662, 1035]. Mau [2378]. maxima [500, 1255, 947, 2365, 1122, 1186, 601, 1271, 242]. maximizing [2358]. maximum [919, 1111]. maximus [1129, 349, 470, 1770, 707, 1179, 1996, 2407, 677, 1977, 613, 1024, 2320, 356, 394, 1824, 1108, 407, 516, 580, 748, 2308, 2824]. may [3275, 1127, 829, 121]. maya [943, 922]. Maylandia [1821, 1596]. Mayotte [1906]. MC [3334]. MC-AuNPs [3334]. MC13 [987]. MC4R [2486]. McCoy [2905]. MCDA [2777]. McIntyre [957]. McLarney [1282]. McVey [446]. meagre [1017, 2532, 445, 2153]. Meal [222, 1907, 799, 1445, 71, 1839, 1018, 2761, 3096, 1463, 2283, 1678, 2428, 2992, 2918, 2770, 780, 1465, 291, 2927, 846, 1538, 1047, 1141, 2724, 1541, 1706, 1142, 114, 2786, 3399, 1473, 2376, 1040, 2732, 3153, 3175, 3242, 3117, 1691, 2475, 346, 2800, 1886, 3150, 83, 1019, 2955, 2873, 880, 1863, 3306, 30, 379, 1200, 1258, 961, 3304, 2742, 3374, 41, 2745, 1044, 1496, 1900, 1125, 1316, 2108, 2882, 1625, 762, 1733, 3142, 940, 1807, 920, 3080, 1752]. meal-based [1465, 3153, 346]. meals [410, 178, 200, 1047, 1776, 322, 1571, 524, 1824, 1016, 1128]. Mealworm [3253]. means [818, 647, 1092, 806]. measure [1101]. measured [3055, 2851, 1217]. Measurement [2778, 2710, 3176, 393, 1659, 744]. measurements [1634, 1257, 1583]. measures [1605, 1412]. measuring [758, 1236]. Meat [1125, 1018, 2337, 1541, 1257, 2800, 2304, 2748, 3202, 1592, 3031]. mechanical [778, 536]. mechanism [2763, 639, 2350, 3282, 3332, 3141, 2702, 3411, 3398, 2576, 2896, 3135]. mechanism-based [3332]. Mechanisms [2845, 3102, 2960, 1978, 1059, 436, 3132]. mechanistic [3025]. medaka [1224]. Media [288, 2708, 699, 1600, 1461, 1470, 2659, 2208, 1825, 3209, 1677, 3321, 2085]. media-based [2708]. median [1910]. mediated [3228, 2765, 3343, 2634, 3017, 3367, 594, 2881, 2158]. mediates [2574, 2244]. medication [3226]. Medicinal [2408, 1294, 2578, 2487, 2074, 2739, 1252, 1775, 2747, 735, 782, 2577]. medicines [1238, 2888]. Mediterranean [1336, 247, 1275, 386, 1772, 2396, 2062, 88, 541, 40, 2492, 495, 2532, 380, 105, 542]. Medium [488, 3395, 2995, 915, 2609, 972, 1876]. medium-chain [2995, 915, 2609]. Megalobrama [2793, 3411, 3372, 1530]. megalopa [1260]. megalopae [3379, 1983]. meiotic [902, 2204, 201, 2297, 1232, 581]. Mekong [2759, 952, 3256, 1246, 1394, 2971]. Melaleuca [3334, 2557, 3173]. melanin [2680]. melanization [104, 2103]. melanocortin [2486]. melanocortin-4 [2486]. Melanogrammus [430]. melanosis [639]. melanurus [3308, 3011, 3308]. melatonin [368]. melops [635]. membrane [1801, 3145, 1861, 3068, 2327]. Mendelian [675].**

**menhaden [944]. Menippe [2124]. Mentha [2985, 1677]. menthol [2127, 2885]. mercenaria [872, 490, 802, 872, 1454]. mercury [666, 3367]. mercury-mediated [3367]. Meretrix [1669, 3392, 1660]. Meristic [302, 155]. merluccius [1710]. Merlucius [842]. merra [695]. Merrifield [1436]. mesenteroides [1866]. mesh [370]. Mesocosm [505, 2221, 3055]. mesopotamicus [1912, 1541, 1769, 1747, 1828, 3116, 2741, 1760, 2509, 2130, 2079, 2878, 2301, 3312, 2679, 2165]. mesotrophic [1210]. Meta [2959, 2739, 1007]. Meta-analyses [2959]. meta-analysis [2739, 1007]. metabarcoding [2792]. Metabolic [387, 219, 1430, 1527, 3333, 3255, 701, 1090, 1827, 2785, 2441, 1681, 2604, 1432, 1824, 3335, 761, 2552, 2714]. metabolism [3349, 3097, 3274, 2765, 2993, 2837, 1779, 1239, 2724, 2726, 3060, 1054, 3215, 3260, 2411, 1093, 2793, 1478, 931, 2021, 3392, 2108, 3183, 1438, 1488, 2422, 2573, 1029, 3318, 2978, 1729, 3081, 2822, 2113, 425]. metabolism- [2021]. metabolite [1504, 2483]. Metabolites [220, 2647, 3045, 2740, 136, 1561]. metabolome [3094, 3112, 2411, 2148]. Metabolomics [2793, 2649, 2314, 2724, 2935, 3194]. metacercariae [2901, 2222]. metacercarial [2149]. Metagenomic [1564]. metagenomics [2260]. metal [3361, 3407, 3103, 2159]. metalloproteinase [2247]. metalloproteinase-9 [2247]. metalloproteinases [1715]. metals [3086, 2395, 3244, 2094]. metamorphosis [1418, 1859, 1612, 2848, 958, 1554, 108, 311, 2306, 2817, 2978]. metanauplii [3253, 2305, 341]. Metazoan [247]. methanol [2852]. methanol-based [2852]. methanolic [2832]. methanotroph [2428]. methionine [461, 1486, 770, 1752, 3100, 2892]. methionyl [2892]. method [2579, 2424, 16, 2520, 5, 1061, 59, 1249, 1651, 2732, 2658, 3332, 1553, 3396, 559, 2180, 2080, 1042, 1876, 2158, 2485, 3030, 1831]. methodological [1637]. methodology [2906, 2065, 1205, 740, 1287]. Methods [567, 2707, 743, 2618, 2927, 1634, 1347, 1298, 3303, 2233, 1048, 2733, 1576, 2354, 670, 3280, 857]. methyl [2375, 3293]. methylbutyrate [594]. methylene [1342]. methylisoborneol [1492, 3344]. methylmercury [666]. Methylococcus [2428]. metrics [2499, 2376, 2502, 2552, 2714]. metschnikovii [936]. Mexican [3034]. mexicanum [757]. Mexico [54, 169, 2622, 868, 2511, 522, 526, 787, 566]. Mg [3111]. mGnRHa [1623]. Miamiensis [1806]. MIC [1390]. mica [2114]. micelle [2686]. micro [1465, 1304, 718, 2639, 893, 2160]. micro- [1465, 2160]. micro-/macro-morphological [1465]. micro-algae [718]. micro-fouling [1304]. micro-particle [893]. micro-screen [2639]. Microalga [1841, 1954, 3333, 209, 3209, 2240, 3074, 2094]. Microalgae [235, 1885, 2403, 1178, 1075, 2829, 1628, 2033, 3051, 3286, 1629, 1391, 1897, 1014, 1614, 157, 1546, 2794, 1814, 1823, 2176, 389, 634,**

**2270, 2104, 289, 1858, 2305, 2748, 2700, 2896, 175]. Microalgal [1831, 1843, 699, 760, 1754, 2666, 1955]. Microarray [1026]. Microbacterium [757]. microbe [2170]. microbeads [1402]. microbes [2480]. Microbial [2199, 1546, 289, 2219, 1134, 3094, 1627, 2771, 2923, 3184, 1278, 1953, 1460, 2792, 429, 2237, 3012, 2801, 775, 2882, 2544, 1604, 1883, 678]. Microbially [121]. Microbiological [2212, 1577, 543, 885, 1150, 2026]. microbiology [3057, 887]. Microbiome [2803, 2494, 3009, 2024, 3318, 2246]. microbiomes [2652]. microbiota [1477, 2904, 3217, 2092, 2765, 3380, 2721, 1774, 2169, 2344, 2847, 3061, 1895, 1126, 2469, 2734, 2318, 3067, 1630, 2533, 1063, 1535, 2079, 1069, 2884, 1890, 2749, 3076, 2752, 2643, 2816, 2243, 3080, 2245, 3319, 3218, 2898]. microcapsules [2904, 2921]. Micrococcus [3187]. microcosm [602, 619]. microdiet [167]. microdiets [2512]. microecological [2409]. Microencapsulated [232, 1402, 1855, 2802, 3247, 1146]. Microencapsulation [2496, 1991]. Microeukaryote [1889]. microfeed [760]. microflora [2597, 2824]. microgreens [3177]. micromorphological [1616]. microorganism [2293]. microorganisms [2059, 1957, 1202, 3022, 2822]. microparticle [724]. microparticles [2173]. microparticulate [1673, 435, 464, 1807]. Microplastic [3329]. microplastics [3364, 2894]. microplate [1876]. micropropagation [2579]. Micropterus [2031, 2922, 1171, 2597, 2970, 3029, 2894, 1106]. microRNAs [3282]. Microsatellite [738, 583, 2956, 3047, 1187, 675, 852, 1848, 2235, 2325, 2667, 2055, 1060, 2362, 2642, 1392, 1509, 1761, 2980, 2137, 1728, 1644]. microsatellite-based [2235]. microsatellites [1854, 1692, 528, 1352]. microscopy [2370]. microspheres [1261]. microsporidian [1904, 1909]. microstructural [104]. microtiter [337]. micrura [68, 69, 724]. mid [2141]. mid-intestine [2141]. midae [1589, 2413, 1131, 3070, 1875]. middle [806]. midgut [3113, 2692]. Midnorth [2591]. Miedwie [1154]. MIG [3385, 3366]. MIG-seq [3385, 3366]. migration [1328, 3055]. Miichthys [745]. miiuy [745, 745]. milestones [2266]. milkfish [1253, 2961, 418, 1660]. Mill [3412, 2314]. millenium [276]. Miller [879]. millet [2505]. millet-based [2505]. Milne [2521, 753, 930, 982, 2601]. Milne-Edwards [2601]. milt [2528, 993]. miltiorrhiza [2616]. mimics [2763]. mimicus [2461]. mineral [3397, 346]. mineralization [2075, 1339, 969]. minerals [604, 2278]. Mini [3316, 2154, 1276]. mini-mussel [1276]. minimal [3401]. Minimally [776, 230, 1303]. minimum [693, 2716]. Mining [1669]. Minnow [479, 573, 2330, 2889, 2391]. minor [2285, 1826, 408, 2296, 3073, 2640]. mint [1677]. Minthostachys [2774]. miRNA [2230]. miRNA-mRNA [2230]. mirror [1362]. Mischke [1151]. Misgurnus [1157, 1156, 2235, 724, 741, 814, 831].**

**Mitchill [1233, 1158]. mitigate [2841, 2099, 3071]. mitigates [2781]. Mitigating [3103, 3413, 2142, 3294]. Mitigation [3357, 3237, 3087, 607]. Mitochondrial [481, 954, 2058]. mitotic [1359, 2297]. Mitten [2361, 1680, 1956, 2230, 1142, 3060, 929, 932, 2657, 2790, 2411, 931, 753, 930, 2388, 2390, 2573, 1799, 2975, 2516, 3378, 1649, 2644]. mix [2900, 1066, 2202]. Mixed [506, 2231, 1109, 2352, 1508, 1714]. mixed-diatom [2231]. mixed-sex [1508]. mixed-size [2352]. mixing [2697]. mixotrophic [2056]. mixotrophically [2216]. mixture [2548, 2919, 2993, 3050, 2609, 2888]. mixtures [718, 2877, 2108]. Mizuhopecten [1351, 2353, 790]. mobile [2500, 3171]. mobility [1409, 1412]. Mobilization [2114, 3189]. modal [3110]. mode [3002, 434]. model [2279, 1915, 577, 1668, 1851, 3346, 3250, 3042, 1004, 888, 886, 1345, 2778, 1549, 2010, 2857, 2100, 3417, 3146, 1797, 3418, 2696, 1965, 704, 2697, 1246, 2572, 2981, 1327, 1237]. model-based [577]. model-guided [3418]. modeled [1276]. Modeling [1906, 227, 1960, 1963, 1257, 1488, 1592, 1853, 3145, 2725, 1643, 1400]. Modelling [815, 31, 3422, 1533, 320, 2695]. models [54, 995, 947, 966, 404, 1550, 1973, 790, 2641]. moderate [2675]. moderate- [2675]. Modern [1700]. modes [788, 2999, 2411]. modification [304, 1581]. modifications [255]. modified [2085]. Modiolus [1144]. modulate [2771, 1640, 2206, 2750]. modulated [2434, 1774, 1701]. modulates [2169, 3106, 3061, 2936, 3273, 2516]. Modulating [2994, 1063, 1105]. Modulation [2012, 1556, 1603, 3363, 3305, 1684, 2079]. modulatory [1833]. module [1832]. Mohit [1205]. moieties [3092]. Moina [68, 69, 1481, 724]. moist [979, 694, 211]. moisture [437]. Moksness [564, 307]. mola [1647]. molasses [2347, 1685]. molds [1987]. Molecular [1075, 2366, 895, 2767, 849, 2370, 2006, 533, 2261, 554, 2595, 2440, 3007, 2015, 2295, 2566, 2152, 1987, 1114, 2454, 2391, 2027, 2517, 3219, 3201, 2986, 2905, 2222, 1375, 885, 2230, 2996, 1675, 3017, 1155, 1667, 2362, 2702, 3373, 2392, 2896, 2451]. molecules [2116]. Molina [1306, 1539]. molitorella [2657]. molitrix [2525, 1792, 3358, 2160]. mollis [2774]. mollusc [614]. Mollusca [636, 1892]. Molluscan [2656]. molluscs [143]. Molluses [474]. mollusk [1464]. molt [1539]. molting [932, 3111]. Monastir [1748]. Mong [2990]. monitored [1236]. Monitoring [2587, 1762, 3034, 2762, 863, 864, 3115, 2862, 3168, 3245, 3174]. mono [371]. mono- [371]. monoammonium [2205]. monocalcium [2205]. Monoclonal [1321, 1835, 1277]. monoculture [722, 1714, 586]. monodon [3349, 2518, 1134, 2759, 3395, 730, 1277, 2119, 2914, 2092, 472, 1011, 640, 2312, 1086, 2842, 2722, 3143, 569, 2726, 2147, 647, 1791, 511, 958, 1278, 2787, 1435, 352, 1741, 622, 1145, 1475, 1773, 1315, 2603,**

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**N [1351, 726, 692, 1039, 274, 3154, 2512, 3357, 1134, 1780, 2146, 3057, 720, 2347, 2794, 1685, 3119, 1594, 2538, 2713]. n-3 [3154, 2512]. N-acetylcysteine-loaded [3357]. N-acyl [1780]. N-CP [1792]. N4 [3208]. N4-like [3208]. NaCl [2945]. nacre [1734, 1281]. Nadu [713, 2947, 2953, 1183, 3368]. Nagabhushanam [688]. Nakazawa [1035]. Nannochloropsis [2189, 1814, 1798, 2270, 2104, 2163]. Nannochlorum [2874]. Nano [3326, 2769, 3219, 3201, 2756, 3355, 2627, 2942, 2299, 2887, 2160]. nano-conjugated [2887]. nano-emlusion [2299]. nano-emulsions [2627]. nano-liposomal [3355]. Nano-revolution [3326]. nano-scale [2160]. Nano-selenium [2769, 3219, 3201]. nanocolloids [2214]. nanocomposite [3273]. nanoemulsion [3095, 3287, 2121, 2357]. nanoemulsions [2476]. Nanofiltration [3145]. nanoflower [2698]. nanoformulations [2374]. nanogel [3003]. Nanomaterials [2805]. Nanomaterials-based [2805]. nanomicelle [2533]. nanoparticle [2905, 1619, 3202]. nanoparticles [1957, 3357, 3334, 2228, 2291, 3343, 2441, 3136, 2946, 2634, 3381, 2664, 2481]. nanosilver [1470]. nanosilver-coated [1470]. nanosized [2773]. nanotechnology [2903, 2264, 2272, 3025]. nanozeolite [2995]. NaOH [1131]. Narrow [1305, 3288]. narrow-barred [3288]. Nash [1009]. national [3114, 1055]. native [255, 3389, 1197, 126, 2082, 2165]. Natural [764, 9, 2887, 2066, 1995, 1578, 2220, 2279, 731, 2827, 903, 1358, 2920, 3380, 3103, 278, 1077, 321, 703, 2627, 2207, 2413, 1964, 2018, 400, 1594, 2271, 630, 844, 837, 2963, 1933, 292, 2081, 397, 3294, 2891]. naturally [1980, 885, 1065]. nauplii [1770, 687, 796, 39, 1498, 833, 781, 915, 1263, 1435, 1823, 78, 433, 770, 798, 465, 2480, 3279, 1132, 1466]. Nauru [418]. Navicula [1959]. navigation [2987, 3037, 3093, 3221, 3222, 3298, 3299, 3382, 3383, 3426]. ND [1154]. ND-1 [1154]. near [1720, 95]. near-future-predicted [1720]. nearshore [1067]. necator [3205]. necessary [1532, 2019]. necrosis [3349, 2116, 3389, 1377, 2587, 1956, 1510, 2202, 1441, 3064, 2939, 2560, 2860, 1974, 1065, 2020, 2107, 2081, 2135, 1868, 2888, 2974, 2161, 2704]. Need [572]. needed [74]. needs [1411]. neem [2861]. negative [2502, 1658, 1783, 1805, 3412, 1435]. negatively [2694]. negatives [2213]. neglected [3071]. nematocyst [2634]. Nematoda [2050]. nematode [1241, 921]. neo [3236]. neo-males [3236]. Neochinorhynchidae [2310]. Neoechinorhynchus [2310, 2258, 2600, 2418]. Neohelice [2563]. neomale [1320]. Neomysis [1035]. neon [2690]. Neoporphyra [2736]. Neostichopus [3070]. Neotropical [1999, 3246, 2660, 2553, 1894]. nepa [1839]. NER [2926]. nereid [3192]. nervous [1974, 2135, 1868]. nest [2339, 2502]. nest-spawning [2339]. nested [730, 1065]. nested-PCR [1065]. NEt [1158, 749, 3379, 1210, 384, 3191, 1304, 2624, 2348, 971, 120, 3000].**

**net-isolated [971]. netcages [550]. Netherlands [2252, 66]. Nets [500, 1634]. network [1980, 1407, 1413, 966, 2086, 3000]. neural [966]. neuro [3003]. neuro-ethological [3003]. Neutral [2223]. neutralizing [1587]. Nevada [621]. Newfoundland [2030]. newly [2758, 2033, 3047, 1903, 2296, 1694, 1618]. News [564]. next [276, 1544, 2161]. next-generation [1544, 2161]. NF [1816]. NF- [1816]. Ng [956]. NH [3008]. NHPB [2032]. niacin [953]. Niantic [278]. Nibea [3236, 1552, 1350, 2138]. Nigeria [2495, 2197, 2635]. nigricollaris [3258]. nigrofasciatum [645]. nigromaculatus [3032]. nigroviridis [2936]. nigrum [2826]. Nile [1812, 3087, 1957, 1033, 1448, 1888, 2900, 2705, 2901, 3357, 2755, 248, 3219, 3201, 1763, 3234, 1194, 2425, 2904, 2090, 2645, 3232, 2114, 799, 2064, 2118, 2909, 1319, 3158, 3339, 1000, 2285, 3281, 3043, 1709, 2095, 2433, 3182, 2919, 2769, 2717, 3049, 2005, 899, 2771, 301, 1764, 2718, 2370, 2461, 2588, 2995, 780, 178, 2773, 2838, 2839, 222, 291, 3315, 3053, 1889, 2144, 3191, 1515, 2169, 2344, 2930, 189, 3106, 2931, 2438, 1897, 3399, 2172, 3375, 2627, 2012, 855, 853, 1181, 48, 3225, 3068, 1508, 1675, 3197, 2046, 1447, 1893, 2951, 1714, 3150, 83]. Nile [3122, 3259, 2178, 2605, 2662, 2663, 3020, 3021, 3413, 3364, 1372, 3267, 442, 1200, 1762, 906, 2299, 3216, 1138, 1339, 2569, 2541, 3273, 3252, 3328, 2880, 2697, 1125, 1316, 3187, 3293, 1890, 1867, 1022, 2157, 3174, 2613, 3202, 1322, 3344, 1444, 1759, 2917, 2066, 3100, 2653, 2431, 3144]. niloticus [2219, 1812, 1986, 2059, 2983, 1957, 1033, 1448, 1888, 2705, 3357, 2902, 2985, 3219, 3201, 3089, 1763, 3234, 1194, 2425, 2645, 3232, 2114, 799, 2064, 1679, 2118, 2909, 1319, 3339, 2285, 3281, 3274, 2095, 2433, 1990, 3045, 2716, 2404, 3182, 2919, 2993, 2769, 2717, 3050, 2005, 899, 1764, 2920, 2994, 2370, 2461, 2588, 2995, 780, 1921, 3315, 2144, 2071, 2169, 1640, 1188, 1792, 2930, 3387, 3106, 1501, 2931, 2438, 3399, 2172, 3375, 2376, 2627, 1442, 2012, 3062, 855, 853, 1181, 1765, 1453, 3225, 3068, 1508, 3406, 1675, 3197, 2473, 2046, 1631, 1447, 1893, 2951, 3150]. niloticus [2295, 1478, 3259, 2605, 1287, 1562, 2662, 2663, 3364, 2212, 1372, 3267, 442, 1200, 1762, 2299, 1138, 1339, 1250, 2569, 2541, 2810, 3252, 2880, 2966, 787, 834, 973, 2697, 1125, 1316, 854, 971, 3187, 2135, 3293, 1867, 1189, 1718, 1022, 2157, 1443, 1657, 1840, 2159, 2613, 1322, 3344, 746, 1444, 2653, 2431]. nine [1385]. Ninh [2990]. nipon [2353]. nippona [1820]. nipponense [3255, 1776, 2439, 2671, 1807, 2113]. nisin [2054]. Nitrate [1808, 2900, 1356, 2762, 1379, 1103, 2016]. nitrate-induced [2900]. Nitric [1718, 3229]. nitrification [2764, 1970, 793, 3006]. nitrifying [2371, 2682, 1639]. nitrite [2762, 2313, 924, 2230, 1171, 935, 1816, 1536, 1493, 1095, 1022]. Nitrogen [1709, 640, 2436, 3268, 1020, 2064, 1690, 1913, 2764, 2367,**

**1120, 769, 2682, 3109, 1458, 2444, 1822, 2100, 2794, 2128, 2237, 2633, 2477, 1594, 306, 1130, 1493, 1199, 542, 1625, 940, 1424, 3170]. Nitrogenous [2788, 1668]. Nizimuddinia [2549]. NLRP3 [2812]. nm [218, 219]. NMR [2649, 1504]. No [1166, 3041, 2991, 1743, 1780, 1335, 3033, 3008]. noae [1144]. Noah [1144]. noatunensis [1762]. nobilis [2443, 1816, 1815]. Noble [1426]. Nocardia [1969, 1744, 3249]. noctiluca [1626]. NOD [2712]. NOD-like [2712]. nodavirus [1371, 1010]. nodifrons [2124]. Nodipecten [323]. nodosus [323]. Nodulisporium [2483]. nom1 [2539]. nomenclature [1811]. Non [1501, 393, 2251, 2225, 970, 632, 807, 1680, 134, 2589, 2098, 2232, 2439, 3185, 793, 2293, 3266, 3240, 1553, 1197, 1675, 74, 2505, 2355, 2151, 46, 559, 1892, 1834, 121, 292, 2420, 1758, 3297, 1868, 2747, 3075, 1192, 3373, 1403, 1794, 2817, 2546, 2160, 1540, 3188, 2898, 1503, 2333, 2653, 1511]. non-additive [2225]. non-anadromous [134]. non-chromosome-level [3373]. non-CpG [1511]. non-dietary [46]. non-disruptive [632]. non-eutrophic [1834]. non-hardened [2293]. non-indigenous [807]. non-industrialized [74]. non-integrated [292]. Non-invasive [393, 2251, 970, 1892, 2653]. non-lethal [1553, 559, 1868]. non-medicinal [2747]. non-native [1197]. non-nutritive [3075]. non-opportunistic [121]. non-penaeid [793]. non-permeable [1758]. non-reproductive [2439]. Non-specific [1501, 1680, 2589, 2232, 3185, 3266, 3240, 1675, 2505, 2355, 2151, 2420, 1192, 1403, 1794, 2817, 2546, 2160, 1540, 3188, 2898, 2333]. non-starch [1503]. non-steroid [3297]. non-vaccinated [2098]. noncoastal [3161]. Nondestructive [3176]. nonspecific [2657, 2735, 2049, 739]. normal [1320, 2819]. normality [631]. normalization [3110]. Normandy [558, 2540]. norsk [708]. Norte [3204]. north [1210, 2466, 92, 2495, 1844, 1521, 3300]. north-central [2466, 2495]. north-eastern [1210]. Northeast [2447, 3386, 610, 1964, 3204]. northeastern [596, 597]. northern [728, 1103, 1648, 1602, 889, 1749, 1726, 1378, 1243, 2360, 2142, 2295, 534, 284]. northwest [380, 2382, 522, 526]. northwestern [2519]. Norway [945, 1129, 349, 1985, 613, 1683]. Norwegian [1915, 1756, 1755]. notata [802, 872]. Note [1518]. Notes [314, 1782]. Notices [223, 244, 253, 21, 34, 43, 72, 117, 141, 152, 179, 194, 261, 98, 27, 51]. notochord [1507]. Nottinghamshire [489]. Novel [3098, 2580, 1529, 2625, 3337, 1073, 2264, 3254, 3381, 3257, 2667, 2698, 2812, 2639, 1707, 2702, 2576, 2976]. November [926]. NP5 [3052, 2802]. NPY [2332]. NRC [1055]. Nrf2 [3357, 2404, 2507, 2718]. Nrf2-Keap1 [2507]. Nuclear [481, 1212]. nucleotide [946, 2427, 1896, 1010, 2109]. nucleotides [1538, 2970, 3170]. nucleus [1119, 1337]. nudiventris [1232]. number**

[406, 633, 1127]. numerical [1246]. nurseries [2788]. Nursery [566, 1955, 2364, 2424, 3036, 2583, 198, 3099, 2521, 13, 1567, 2096, 1052, 281, 1526, 2348, 3006, 805, 602, 619, 2943, 469, 1712, 1452, 3328, 1483, 933, 2493]. nursing [662]. nutraceutical [3303, 2130]. Nutrient [1055, 2369, 1772, 1020, 2708, 1514, 2992, 3274, 1525, 1168, 384, 1784, 846, 2145, 1047, 1141, 1421, 1584, 3400, 1706, 1151, 3425, 1040, 1265, 2012, 984, 627, 1453, 606, 2211, 1713, 1104, 538, 3268, 1200, 3165, 211, 2608, 3129, 1246, 1625, 762, 2891, 1682, 2085, 3079, 2333, 2188, 353]. nutrient-enriched [1104]. nutrients [1989, 3397, 433, 1279, 1146]. nutrition [1671, 1436, 1523, 3270, 102, 309, 367, 844, 668, 650, 991]. Nutritional [1923, 157, 1823, 1200, 2549, 2761, 430, 2585, 1326, 3248, 1889, 2620, 2999, 2199, 22, 2292, 2501, 1796, 1880, 3304, 3253, 537, 2640]. nutritious [3337]. nutritive [1258, 3358, 3075]. nuttallii [2753]. NV [1371]. NW [103, 1305, 868]. nyassae [2127].

O. [1679, 2993, 1188, 2782, 691, 2376, 1453, 2473, 3024]. O.-I. [691]. oat [2904, 2536]. Oaxaca [787]. object [3233, 3074]. objective [3186]. obliquus [2094]. O'Bryan [709]. O'Bryen [700]. Obscure [496]. obscurus [496]. Observation [218, 1550]. Observations [2252]. obtained [948, 1934, 140]. occluded [2879]. occurrence [2457, 2555, 2843, 918, 1435, 2103, 1507]. ocean [1720, 1838, 1913, 805, 2737, 1717, 1906]. oceanica [2163]. oceans [957]. ocellaris [2437, 1124, 1536]. ocellatum [2843]. ocellatus [1446, 1906, 675]. Ocimum [2114, 2837, 3062, 2814, 3144]. O'Connor [859, 1285]. octacosanol [2986]. Octopus [515, 1004, 903, 816, 842, 2067, 924, 907, 1004, 404, 515, 1291, 943, 922, 900, 2195]. octyl [3225]. oculata [1798, 2270, 2104]. Odisha [3263, 1400]. odor [1319]. odorants [3135]. odorous [1802, 823]. OE [2960]. Oedogonium [2832]. Oehlenschläger [690]. OER [1911]. Off [486, 2062, 2002, 535, 1548, 1615, 356, 1390, 665]. off-bottom [2002]. off-flavor [1615, 665]. Off-Season [486]. off-shore [535]. offer [737]. offers [2612]. officinale [2722, 2962, 2963, 3224]. officinalis [350, 391, 438, 458, 568, 712, 773, 832, 3137, 1882, 1920, 468, 628]. offshore [1067, 1521]. offspring [2913, 270, 423, 456, 1439, 3272, 1809]. ohnoi [3126]. Oil [513, 2825, 69, 1255, 1295, 3354, 444, 3095, 3287, 2650, 2367, 2765, 2651, 2095, 3237, 2121, 2994, 2773, 2837, 2774, 2405, 2291, 1047, 1188, 1109, 944, 821, 956, 1855, 1791, 157, 37, 1833, 606, 2795, 3242, 166, 2869, 983, 2476, 1208, 1601, 1599, 1478, 2958, 2694, 2877, 2357, 547, 2299, 1163, 844, 837, 2570, 2962, 436, 2814, 3075, 1890, 789, 1543, 2138, 36]. oil-based [2367, 2138]. oil-coated [1601]. oil-mediated [2765]. oiled [2358]. oils

[2465, 1047, 1109, 2627, 2631, 925, 367, 3072, 2877, 3195, 1029]. oilseed [200, 1047, 1447, 1258]. Oithona [1614]. Olafsen [408]. old [455]. oleaginous [1858]. oleifera [2005, 3053, 1307, 3106, 2011]. oleracea [2106, 2552, 2714]. Oléron [416]. oligo [2572]. oligo-porphyran [2572]. oligochitosan [3026]. oligodeoxynucleotides [1511, 2692]. oligosaccharide [1477, 1972, 1254, 648, 3131]. oligosaccharides [2919, 2589, 2037, 601, 917, 2802]. olivacea [3104]. olivaceus [3317, 996, 2783, 1301, 2686, 1806, 748, 920]. Olive [844, 3317, 2121, 2783, 1301, 2173, 2686, 1806, 837, 3412]. Olsen [564]. olseni [2564]. omega [2651]. omega-3 [2651]. omics [3172, 3132]. Ompok [2283, 2447]. OMPs [3068]. on-growing [3315, 1522]. Onchorynchus [837]. Oncorhynchus [2826, 2706, 1295, 1133, 444, 574, 551, 2336, 1603, 3408, 1997, 2765, 1568, 2289, 2291, 1047, 1141, 2929, 2776, 3352, 1311, 1470, 2233, 3061, 3137, 3185, 2315, 1852, 604, 1469, 409, 1920, 3065, 2148, 2351, 2630, 606, 1982, 1065, 2476, 482, 1713, 1846, 1658, 1783, 1476, 1096, 343, 1432, 1873, 3304, 1163, 1847, 820, 2743, 1978, 2745, 1044, 1719, 648, 387, 1758, 3347, 1656, 762, 2888, 1662, 1387, 2242, 2423, 940, 1360, 2026, 2893, 2218, 1139, 2704]. one [1269, 730, 123]. one-sea-winter [123]. one-step [730]. ongrowing [1004, 888, 886, 1579, 1942, 2456]. ongrown [13]. Onion [2588, 2929]. only [628]. onset [833]. Onsite [2188]. onto [696]. ontogenesis [741]. ontogenetic [1943]. Ontogenic [2467, 3107]. ontogeny [1228, 1399, 696, 3425, 28, 2431]. Oocystis [2100, 2534]. oocyte [2223, 993]. oocytes [61]. oomycetes [1987]. Oosterschelde [2252]. Open [1911, 1973, 1245, 1838, 3044, 1712, 2056]. open-sea [1245]. operated [1968]. Operating [2237, 868]. operation [652, 756]. operations [2697]. opinions [2535]. Oplegnathus [1757, 1369, 1363]. opportunistic [121, 3187]. Opportunities [2466, 2757, 706, 1410, 2619, 2720, 3004, 1911, 2746]. opportunity [836]. optical [1634, 3244]. Optimal [1915, 492, 2031, 2460, 545, 2262, 1300, 2892, 1121, 1490, 811, 2596, 1079, 880, 1225]. Optimisation [828, 2233, 1349]. optimising [1347]. Optimization [2906, 2716, 2554, 1606, 1247, 2320, 2874, 1287, 2695, 2697, 3186, 869, 3384, 5, 2687, 3417, 2534, 3356, 2087, 1689]. optimize [1915]. Optimized [2065, 1944, 1345, 3007]. Optimizing [1859, 2693, 3394]. Optimum [546, 817, 1123, 1653, 384, 964, 1831]. option [2622]. Opuntia [3087]. Oral [2722, 2169, 855, 2568, 1105, 2189, 2756, 2581, 1261, 42, 2498, 2173, 2796, 941, 1387]. orally [1723]. orange [2676, 2709, 2200, 2631, 2015, 1455]. orange-spotted [2676, 2709, 2015, 1455]. Oratosquilla [1839]. Orbetello [538]. orbital [166]. orders [565]. ordinaria [2912]. oregano [2765, 1833, 2631, 2795]. orellana [3237]. Oreochromis [2219, 1812, 1986, 2059, 2983, 1957, 1033, 1448, 1888, 2705, 3357,

2902, 2985, 3219, 3201, 3089, 1763, 3234, 1194, 2425, 2645, 3232, 2114, 799, 2064, 1679, 2118, 2909, 1319, 2649, 3339, 2285, 3281, 3274, 2095, 2433, 1990, 3045, 2716, 2404, 3182, 2919, 2993, 2769, 2717, 3050, 2005, 899, 1764, 2920, 2994, 2370, 2461, 2588, 2995, 780, 1921, 3315, 2144, 1440, 2071, 2169, 1640, 1188, 1792, 2098, 2930, 3387, 3313, 3106, 1501, 2931, 2438, 1919, 3399, 2172, 3375, 2376, 2627, 1442, 2012, 3062, 855, 853, 1181, 1765, 1453, 3225, 3068, 1508, 2472, 3406, 1675, 1556, 3197]. Oreochromis [2473, 2046, 3348, 1631, 1447, 1893, 2951, 3150, 2295, 1478, 3259, 1760, 2605, 1287, 1562, 2662, 2663, 3364, 2212, 1372, 3267, 442, 379, 1200, 1762, 2299, 1138, 1339, 1250, 2273, 2569, 2541, 2810, 3252, 2880, 2966, 787, 834, 973, 2697, 1125, 1316, 854, 971, 3187, 2135, 3293, 1867, 1189, 1718, 1022, 2157, 1443, 1657, 1840, 2159, 2613, 1322, 1815, 3344, 746, 1444, 2653, 2431]. organ [2825, 3219, 3201, 3101, 3122]. Organic [1006, 2983, 1041, 2091, 2030, 2284, 3295, 3360, 1393, 384, 1110, 3397, 1593, 2943, 1104, 1376, 2179, 1107, 2420, 653, 539]. organically [2648]. organics [1494]. organics-degrading [1494]. organised [1325]. organism [545, 2267]. organisms [1701, 2199, 2737, 1686, 688]. organization [2388]. Organochlorine [506]. organoleptic [3317]. organs [1211]. oriental [3255, 2439, 2671, 1807]. orientalis [1121, 2489, 1602, 1762, 1111]. oriented [2559]. Origanum [1833, 2795]. origin [2834, 771, 829]. originating [204]. Orissa [523, 1027]. ornamental [1342, 1894, 2340, 729, 2690, 2048, 2325, 2382, 3159, 2271, 3290]. ornata [2637]. ornatus [696, 1458, 2742]. orthogonal [2668]. orthologues [2440]. Oryzias [1224]. OsHV [1344, 2840]. OsHV-1 [1344, 2840]. osmolality [454, 1299]. Osmoregulation [2573, 1635]. osmosis [2021]. osmosis- [2021]. Osmotic [485, 136, 92, 1299]. Osphronemus [2279, 2498, 2081]. Ostariophysi [2841, 2885]. Osteichthyes [537]. Osteoglossum [3196]. Ostrea [1245, 1402, 1643]. ostreatus [1846]. Ostreid [2840, 1482]. other [1358, 106, 974, 305, 2564, 107, 1834, 2450]. otter [457]. otters [676]. Out-of-Season [480, 1159]. Outbreak [2581, 2048, 2921, 2743, 2081]. outbreaks [2461, 395]. outcomes [1788]. Outdoor [1534, 470, 199, 1814]. outer [1801, 3068, 2327]. outlook [3090, 2131]. Output [1110]. outputs [1906, 1693]. Ovalipes [2380]. Ovaprim [993]. ovarian [1262, 3266, 525, 19, 3190, 3189]. Ovary [1710, 1357, 101]. ovatus [1854, 1841, 3009, 3260, 508, 3318, 2083]. Overall [2770, 2939]. overfeeding [590]. overfished [284]. overlapping [2485]. overview [3208, 2728, 1408, 1533, 2041, 3114, 3072, 1663, 2403]. overwintering [802]. ovigerous [1844]. Ovopel [1213]. Ovulated [230]. Ovulation [496, 1160, 1542, 1623, 2878, 1158]. Oxford [564, 554]. oxidant [2900, 2942, 2423]. oxidant/antioxidant [2900, 2942]. Oxidase [506].

**oxidation [1308]. oxidative [3357, 2905, 2287, 2918, 2723, 3181, 2007, 2930, 2853, 2854, 2441, 2379, 2318, 2236, 3067, 2795, 2509, 3267, 2638, 3252, 2573, 2894, 1561, 2673]. oxide [2441, 193, 1718, 3229]. oxidised [436]. Oxidized [2694, 1729, 1604]. oxidizing [1970]. oxolinic [620]. Oxygen [495, 49, 1448, 2911, 3250, 31, 2371, 1351, 1816, 1101, 156, 2607, 704, 1702, 443, 592, 745]. oxygen-carrying [1816]. Oxygenated [2674]. oxygenation [1960]. oxysporum [3050]. oxytetracycline [2902, 2433, 395, 891]. Oyster [235, 236, 566, 808, 1245, 760, 1281, 2678, 88, 2225, 3041, 2991, 2711, 2492, 1402, 3309, 1186, 396, 560, 786, 2772, 807, 1703, 2840, 2123, 1491, 1118, 954, 719, 1513, 1298, 1102, 1643, 1786, 1337, 1480, 199, 3327, 1032, 984, 2013, 2937, 2733, 1692, 401, 1778, 809, 1197, 1506, 3241, 1952, 469, 427, 806, 2540, 1482, 1505, 3377, 1537, 1707, 1820, 2025, 2186, 2703, 1761, 1352, 2432]. Oysters [250, 460, 2002, 2916, 1513, 2848, 1197, 2210, 1712, 672, 3183, 3033]. ozonated [618]. ozone [1916].**

**P [574, 129, 354, 449, 700, 709, 859, 955, 1071, 1285, 1283, 2785, 446, 625, 720, 2553]. P. [1750, 2912, 1011, 2287, 679, 709, 1056, 1751, 2082]. P.E.P [2430, 2402]. p53 [2277]. p53-BAX [2277]. p53-BAX/ [2277]. Pabda [2334, 2447, 2283]. Pacifastacus [638, 833, 752]. Pacific [2295, 2675, 1907, 760, 1290, 1904, 238, 1121, 460, 1248, 1119, 1375, 1384, 2428, 3041, 2991, 2711, 2992, 2916, 2835, 2836, 3198, 786, 2921, 2313, 2772, 169, 807, 1865, 1396, 1379, 2840, 1860, 2997, 1901, 1487, 824, 1198, 1298, 2847, 1102, 1654, 2786, 2316, 2500, 199, 2317, 2937, 2858, 1681, 1324, 1692, 2469, 1778, 2860, 2318, 2598, 2533, 2076, 1019, 373, 2953, 2018, 2049, 2802, 427, 3257, 1502, 806, 1111, 3126, 2300, 1482, 2021, 2609, 2106, 2107, 1302, 672, 1036, 1389, 3183, 2544, 2022, 2483, 1707, 2670, 3077, 2890, 2574, 2025, 2819, 3080, 1761, 1976, 1352, 1397, 3170, 2432]. pacifica [2460]. packaged [1576]. packaging [3194]. packed [1920, 1808]. pacu [2226, 1541, 1769, 3116, 2741, 1760, 2509, 2130, 2878, 2301, 3312, 2679, 2165, 2079]. paddies [2781]. Paddlefish [230, 661, 454]. paddy [2999, 3398]. Padhi [330]. Padina [2549]. PAGE [160, 344]. Pagellus [503, 504]. pages [552, 554, 553]. Pagrus [562, 1018, 975, 1481, 1054, 494, 246, 1053]. pairing [2485]. Pakistan [2956, 2661, 2640]. Palaemon [732]. Palaemonetes [732, 628]. Palaemonid [374]. Palaemonidae [512, 732]. Pallas [479, 573, 1473, 1617]. pallipes [345, 369]. palm [1791, 2570]. Palmaria [1471]. palmata [1471]. PAMK [3065]. Pampean [2841]. Pampus [2247]. Panagrellus [921]. Panagrolaimus [1241]. pancalus [3402]. pancreatic [1065]. pandemic [3120, 2511]. Pandora [504, 338, 503]. panel [2055]. panels [3047]. Pangas [3066].**

**Pangasianodon [1477, 1972, 1781, 2499, 3066, 2505, 1150, 1661, 3338, 1653, 2329, 2304, 1394, 2701, 2672]. pangasius [2395, 2253, 1818, 988, 2561, 2661, 1394]. paniculata [472]. Panopea [1958]. Pantoea [897]. Panulirus [696, 1458, 426, 2742]. papaya [2662]. Paperback [1008]. Papers [231]. Paracanthurus [1375]. Paracentrotus [1859, 1610, 923, 2231, 2043, 800, 1767, 1365]. Parachlorella [2748]. Paracoccus [1970]. paradigm [2565]. paraffin [559]. parahaemolyticus [3089, 2581, 2587, 2836, 3198, 2463, 2522, 2143, 1676, 2842, 2844, 2147, 915, 2786, 1441, 2206, 3340, 2947, 2802, 3254, 1962, 2749, 1182, 1966, 2161, 2821]. paralarvae [924, 1291, 900, 2195]. Paralarval [515]. Paralichthys [3317, 996, 2783, 1301, 2686, 1806, 432, 748, 920]. parallelus [1317]. paramagnetic [2441]. paramamosain [2759, 423, 1983, 1646, 3291, 933]. Parambassis [2478]. parameter [1459, 2687]. Parameters [218, 2705, 1196, 2826, 671, 2060, 1907, 1645, 1763, 3232, 1734, 2908, 1119, 535, 2065, 2711, 1213, 2287, 1242, 336, 2918, 3276, 1764, 2435, 3255, 3205, 3292, 2097, 1622, 2774, 3196, 2291, 2146, 1090, 1552, 8, 3371, 2933, 1224, 1217, 1442, 1449, 1736, 2731, 1725, 3327, 1468, 1914, 2938, 3215, 1681, 2444, 1977, 2470, 2412, 2738, 3225, 2044, 2320, 3353, 2237, 2263, 1687, 2324, 1484, 2505, 1400, 2741, 3122, 1658, 1783, 2509, 2804, 1252, 3364, 1221, 1222, 820, 2241, 2303, 3283, 3377, 2330, 2452, 2572, 2157, 1657, 1840, 2643, 2546, 1360, 735, 2672, 2245, 1722, 1988, 1731, 3100, 3144]. parameters [97]. Paramisgurnus [2235, 711]. Paraneetroplus [1636]. Paraprobiotic [2907, 3134]. pararoseus [3153]. Parasite [1656, 2398, 1904, 38, 2009, 2957, 1909, 3351, 2747]. Parasites [247, 1056, 794, 1982, 2564, 2662]. Parasitic [2382, 2009, 2728, 2684, 3136, 2949, 2950, 2663, 2159]. parasitica [1980, 2588, 2381, 2276]. parasitizing [3054]. Parastacidae [822, 865]. Paratelphusa [2375, 2637, 3410]. parauberis [3098, 2173]. Parentage [1392, 1509, 1644, 1187, 2235, 1667, 1060, 2642]. Parental [246, 3125, 1922]. parenteral [855]. Parke [1609]. parr [313, 779]. parrot [1636, 1757]. parrotfish [3011]. parsley [1760]. part [1782, 737, 718]. parthenogenetic [1696]. Partial [291, 1142, 943, 2611, 396, 1047, 3400, 696, 1473, 2442, 1154, 983, 3306, 2239, 920]. partially [2879]. participates [2821]. participation [3163, 3191, 3015]. Particle [125, 127, 1061, 3167, 3063, 1349, 3141, 893]. particle-associated [1061]. particular [3027]. parts [2462]. Passing [1164]. Passive [1277, 3245, 2606, 1053, 1469, 1387]. past [1523]. paste [3360, 1831]. Patagonian [2380, 2419]. Patella [2912]. paternal [2528]. Path [2858, 3263]. pathobiology [1056]. pathogen [2758, 3092, 2914, 2698, 3187, 2967, 1132, 2421, 2276, 3083]. pathogenesis [3349, 3158]. pathogenesity [647]. Pathogenic**

[3296, 1957, 2116, 3101, 2842, 2073, 3336, 1429, 2381, 465, 3254, 1639, 2545, 2112]. Pathogenicity [2273, 1986, 2487, 140, 2265, 2743, 2613]. pathogens [3040, 2006, 1061, 915, 2408, 2446, 1605, 2663, 1697, 1937, 2214, 3253]. pathological [2630, 1796, 3020, 3021]. pathology [1072]. pathway [3357, 1816, 2422, 2277]. Pathways [2394, 2404, 3026]. Patinopecten [2010, 1318]. Patos [1804]. pattern [562, 3230, 845, 2947, 136, 537, 1799]. patterns [62, 1838, 2251, 106, 3205, 3055, 1209, 2788, 976, 2410, 2566, 2956, 1965, 654]. paulensis [1804, 981, 2103]. Paulownia [2771]. Pavlidis [974]. Pavlova [427]. Pawpaw [2662]. pay [3166]. Paz [566]. Pb [3273, 2702]. PB45 [1668]. Pbk [565, 563]. PBLs [2288]. PCC6803 [3212]. PCR [1479, 1269, 730, 2677, 3047, 1655, 1187, 569, 889, 1435, 1197, 2797, 1065, 1476, 1697, 2213, 2328, 2055]. PCR-based [1269]. PCR-negative [1435]. Pdp11 [1089]. pear [3087]. Pearl [235, 566, 1734, 1281, 2225, 2915, 3309, 1186, 396, 1043, 2721, 954, 719, 1080, 754, 1337, 1480, 1032, 777, 1329, 2013, 401, 1506, 2868, 2955, 139, 469, 1505, 733, 1537, 1195, 3175]. pearlscale [2727]. pearlspot [3389]. Pecten [1129, 349, 707, 613, 1024, 356, 407, 516, 580]. Pectinidae [283]. pectoralis [1800, 2055]. pedigree [1743, 1692]. Pediococcus [2995, 2847, 2243]. pediveliger [2221]. peel [3260, 1274, 2631, 2026]. peelii [2965]. Pelagia [1626]. pelagic [3233, 1003]. pelagicus [935, 1618]. pellet [694]. Pelleted [227, 2719, 388, 1453, 2182, 1682]. pelletization [1858]. pellets [2530]. Pelodiscus [2938, 1012, 1700, 1752]. Pelophylax [3032]. Pelteobagrus [2287, 881, 1488, 1665, 1509]. pen [2624, 1074]. penaei [2032]. penaeid [2115, 793, 26, 140, 2103, 2805, 1114, 2403]. Penaeus [2239, 3085, 2364, 2548, 1907, 3349, 2518, 3092, 1134, 3036, 2759, 3395, 2063, 730, 1290, 3359, 1277, 1119, 2119, 3217, 2914, 2092, 472, 1011, 3099, 2311, 2521, 640, 2312, 1086, 381, 2842, 2722, 3143, 569, 1467, 2726, 2147, 647, 2683, 2232, 1706, 3371, 1791, 511, 958, 3139, 1278, 2731, 2787, 2316, 2500, 3006, 2788, 3112, 3064, 2560, 2860, 2207, 1435, 352, 1741, 2475, 622, 1145, 1475, 3154, 1773, 2506, 373, 2953, 3017, 1994, 2567, 2601, 2802, 1315, 2603, 3152, 1639, 3307, 3257, 559, 3124, 2537, 2511, 1130, 2051, 2052, 2666, 3370, 2610, 2611, 2963, 513]. Penaeus [1302, 952, 2134, 522, 526, 971, 2449, 847, 3368, 891, 2890, 1146, 2818, 1430, 892, 2821, 1644, 3170]. Penang [2389]. Pennisetum [1307]. pens [1804, 1401]. penstyldensovirus [3092]. pentosaceus [2243]. pepo [1989]. pepper [2826]. peptidase [2431]. Peptide [2344, 2189, 3229]. peptides [2615, 3410, 2977]. peptidoglycan [2975]. per2 [2889]. peracetic [1147]. Perca [1166, 2282, 1929, 1171, 486, 1928, 1943, 1937, 1221, 1222, 1938, 363, 443]. Perceived [229, 2316]. perception [2883, 646]. perceptions

**[3166, 414, 747, 2535]. Perch [486, 300, 1166, 2282, 2401, 2462, 3176, 1230, 1929, 1171, 493, 2945, 1928, 1943, 3165, 1937, 1221, 1222, 630, 61, 1933, 1948, 1947, 1466, 1744, 363, 443, 2332]. percid [1946, 1945]. percula [2126]. perenurus [479, 573]. Performance [470, 1001, 1567, 222, 2205, 1953, 494, 509, 3321, 2639, 2825, 1033, 1448, 2028, 2705, 2985, 1578, 1772, 1907, 2708, 3219, 3201, 1446, 1194, 1255, 2614, 788, 3036, 799, 3161, 1049, 3039, 1445, 2710, 2000, 3095, 2830, 3391, 1067, 1358, 2002, 2831, 270, 827, 909, 2833, 2428, 3236, 1960, 2914, 2285, 2992, 340, 1997, 2311, 867, 3043, 2651, 2401, 2430, 2402, 3045, 423, 3276, 2919, 2993, 2769, 2836, 3101, 899, 2434, 3393, 2995, 981, 1202, 1173, 3052, 2921, 1923, 2096, 2339, 3248, 1226, 1396, 3315, 3053, 2775, 1676, 3369, 2291, 1328]. performance [1474, 1849, 2371, 1818, 2071, 1456, 1538, 1563, 1047, 1077, 1141, 2437, 2929, 2524, 1188, 2007, 2844, 3145, 2008, 1841, 2726, 1769, 2623, 824, 1135, 768, 2847, 2931, 1364, 8, 50, 29, 975, 1596, 1422, 3061, 305, 3137, 2786, 3172, 2933, 3399, 2172, 1473, 3375, 2686, 1486, 1481, 3264, 3005, 1442, 1278, 1736, 2731, 409, 2317, 1308, 2657, 2790, 2040, 1757, 2469, 2734, 3065, 550, 1312, 2236, 2561, 2597, 1684, 3340, 3242, 1508, 1796, 2503, 3406, 1675, 1433, 1685, 2322, 1368, 1687, 2324, 3119, 2943, 845, 2075, 1590, 1145, 983, 1886, 1773, 2076, 2506, 1714, 2954, 710, 2741, 1478, 3122]. performance [1661, 1428, 2508, 427, 718, 1378, 1559, 2806, 2694, 2662, 3257, 1372, 1376, 3272, 822, 3370, 3022, 1930, 1339, 630, 1426, 820, 2384, 3073, 2745, 2570, 2106, 2963, 121, 2182, 2880, 1723, 1496, 648, 753, 930, 1374, 2108, 3027, 641, 1646, 2882, 3195, 1025, 1795, 3075, 2970, 3199, 2483, 2701, 2887, 1625, 2361, 1537, 2514, 2390, 2453, 2751, 2752, 3190, 1543, 3078, 208, 685, 1840, 1350, 1607, 914, 1148, 2243, 920, 2754, 2160, 2893, 3202, 2245, 1405, 2246, 3319, 3378, 3218, 1649, 939, 831, 1500, 2113, 1731, 3170, 2094, 2493, 246]. performances [2438]. performing [1288]. Pericaridea [358]. period [1216, 2928, 662, 186, 2322, 2538, 1092, 67]. periodicity [2482]. periods [1703, 426, 905]. Perionyx [2283, 3043]. peripheral [2288]. periphery [523]. periphytic [2207]. periphyton [1134, 2488]. Perkinsus [2564]. permeabilizer [2548]. permeable [1758]. permeate [3145]. Perna [1178, 615, 3395, 2281, 1251, 3097, 986, 2102, 2564, 2266, 2638, 2275, 1051]. Pernambuco [1620]. peroxidation [1626, 2293, 1106]. peroxide [16, 1342, 1259, 2293]. Persian [2677, 1227, 1903, 1094, 875, 776]. Persicaria [2920]. persicus [2677, 1227, 1903, 994, 1094, 875, 776]. persistence [1236]. persistent [2798, 343]. perspective [2582, 74, 2799, 1605, 2949, 2950, 1095]. Perspectives [541, 2807, 1180, 53, 2286, 1519, 3012, 737, 1911, 1683, 563]. pertusa [1819]. Peru [2490, 2050]. Peruvian [2465, 3054]. Pesca [3300]. pesticide [2035]. pests [3105, 3316]. pET [3007]. pET-28a [3007].**

**Pethiyagoda [3258]. Petrie [1283]. PGF [1828]. PGRs [2891]. pH [897, 1958, 325, 1131, 1367, 360, 2640, 870]. Ph.D. [1409]. Phaeodactylum [2585]. Phaeophyceae [1501]. phage [3208, 2605, 2807]. phage-1A [2605]. phagocytic [1912]. phagocytosis [2120, 1981]. Phalacrocorax [656, 2457, 918, 1050]. pharaoh [825]. pharaonis [825, 357, 2575]. pharmacokinetic [620]. Pharmacokinetics [1921, 2837, 891]. Pharmacological [1059]. phase [1628, 2712, 2521, 2096, 203, 1609, 3006, 409, 2529, 2738, 2943, 2610, 2389, 2429, 1759]. phase-dependent [2712]. phased [845]. Phaseolus [3232]. phases [754]. phenol [2479]. phenolic [2487]. Phenoloxidases [2603]. Phenotypic [937, 1743, 2338, 3336, 2799, 3364, 2968, 1341]. phenoxyethanol [578]. Philipose [1284]. philippinarum [439, 871, 705, 536, 829, 951, 3300]. Philippines [417, 805, 2656, 3314]. Philipsson [2365]. philoxeroides [1616, 2753]. phlorotannins [3303]. Phorcus [3230]. phosphate [897, 321, 2205, 826]. phosphate-solubilizing [897]. phosphates [2205]. phosphatidylcholine [166, 2512, 959, 3028]. phospholipids [270, 2922, 433]. phosphoric [2345]. phosphorous [2367]. phosphorus [71, 1672, 827, 2992, 769, 2443, 881, 2598, 1832, 2798, 1586, 3268, 1130, 1339, 969, 1125, 1666, 1625, 1488, 1739, 940]. phosphorus-related [3268]. phosphoryl [1980]. Photo [1588, 2251]. photo-identification [2251]. Photo-thermal [1588]. Photoautotrophic [1858]. Photobacterium [3208, 2406, 2107]. photodynamic [3350, 2176]. photolabile [1092]. Photoperiod [1826, 1313, 220, 2455, 2460, 254, 260, 3352, 408, 1014, 3409, 3024, 997]. Photoperiods [237, 1566, 462, 2349]. photosynthesis [1236, 2240]. Photosynthetic [2850, 2876, 3268]. phototrophic [1902]. Phoxinus [2330, 2889, 2391]. Phragmites [654]. pHs [2814]. Phycidae [629]. phycobiliprotein [2543]. Phylichthyid [2527]. phyllanthin [1417]. Phyllanthus [2842]. phyllosoma [426, 434]. phyllosomata [696]. Phylogenetic [889, 2797, 2966, 3351, 3084]. Physical [227, 1738, 61, 1395, 1053, 2820]. physicochemical [1961]. Physiological [2557, 2729, 1485, 837, 2707, 2986, 3180, 639, 1568, 3393, 779, 3255, 3380, 1314, 1818, 883, 2626, 2933, 1046, 2731, 1244, 3112, 1941, 2042, 2475, 371, 1234, 2804, 931, 3267, 3073, 1723, 2134, 2108, 2813, 2573, 120, 1607, 2391, 2893, 3207, 2278, 1021]. physiology [3095, 3287, 3423, 681, 1118, 1093, 3125, 3265, 3076, 3188]. phytase [1627, 942, 1672, 2992, 2598, 1258, 2882, 762]. phytase-producing [1258]. phytase-sprayed [762]. phytobiotic [2835]. phytobiotics [3002, 3062]. phytochemical [2549]. phytochemicals [2408]. phytoene [2700]. phytogenic [2548, 2430, 2402]. phytoplankton [1334, 1748, 719, 2779, 1006, 1460, 1236, 733, 823]. phytoremediated [2047]. Phytotherapy [2374, 2870]. Piaractus**

[2226, 1912, 2465, 1541, 1769, 1747, 1828, 3116, 2741, 1760, 2509, 2130, 2079, 2878, 2301, 3312, 2679, 2165]. pica [1955]. Piccolo [543]. piceus [2137]. Picochlorum [1614]. picolinate [604, 820]. Pierce [411, 625]. pig [398]. pigeons [2149]. pigment [2680, 1515, 1107, 1991]. pigmentation [1995, 196, 1077, 3241, 18, 327, 208, 1139, 1352]. pigmented [3185, 3301]. pigments [1490, 784, 703, 2510]. pigra [3142]. Pike [493, 659, 1230, 2468, 2945, 630, 1933]. Pike-perch [493, 1230, 1933]. Pikeperch [1782, 3018, 480, 1932, 642, 749, 2257, 1229, 2339, 1588, 1944, 3005, 2855, 1160, 1499, 2529, 1927, 1934, 1940, 1941, 2042, 2566, 2211, 452, 1165, 1579, 1939, 1936, 1930, 1935, 641, 2109, 1159, 1931, 1161, 1942, 2456]. pili [2265]. pillars [2629]. Pillay [692]. Pilot [207, 977, 2176, 710, 2744]. pilot- [710]. Pilot-scale [207]. Pimelodidae [1097]. Pimelodus [1999, 3246]. pin [1847]. Pinctada [1281, 2225, 3309, 1186, 396, 954, 719, 1337, 1480, 1032, 401, 1506, 2868, 469, 1505, 1537]. pink [981, 1202, 305]. pinnatifida [1103]. pintado [3149]. Piper [2826, 2842, 2017]. piperita [2985]. PirA [2587, 2206]. PirAB [2683]. Pirarucu [643]. PirB [2587, 2974]. Pisces [629, 508]. piscicida [2802, 2244]. PISCIVAC$^{TM}$ [3128]. PIT [1273, 1053, 544, 1931]. PIT-tag-assisted [1273]. PIT-tagging [544]. pituitary [2139, 588, 1213, 1338, 1444]. Pixelar [2043]. pkmyt1 [2539]. Placopecten [281, 383]. plague [723]. plankton [3395, 3006, 854, 971, 1666, 653, 2713, 863, 864]. planktonic [1738]. planning [3292]. Plant [2068, 222, 241, 2220, 2579, 2487, 3232, 410, 301, 3365, 1862, 1383, 3061, 1040, 1497, 2045, 1026, 2018, 3405, 3072, 1432, 2608, 1616, 1125, 2882, 1294, 2891, 2892]. plant-based [1497, 1026, 3405]. plant-ingredients [3365]. plant-protein [2892]. plant-protein-based [1125]. plantarum [2706, 2914, 2169, 1484, 1428, 1723, 1705, 2136]. planted [3321]. planting [2785]. plantings [967]. plants [2590, 2074, 2739, 2017, 1631, 2963, 1775, 2577, 2578, 1071]. Plasma [484, 1216, 161, 996, 3101, 291, 1996, 2315, 1828, 1542, 92, 379, 1432, 3283, 1857, 2643, 1931, 2766]. Plasmid [249]. platensis [1041, 2280, 1690, 681, 2071, 2437, 3181, 1311, 1473, 2864, 2510, 3374, 1978, 242]. plates [337]. Platichthys [1265, 1542]. platyfish [1995]. Platyhelminthes [2009]. Platymonas [1676]. play [2539]. players [2250]. plays [2973]. PLCFishMOT [3141]. Pleco [3159]. plecoglossicida [1949]. pleopodal [406, 876]. Pleurotus [1846]. plicatilis [430, 1923, 1944, 621, 429, 1814, 2270]. ploidy [1096]. plot [1569]. plus [2900, 724, 36]. pluvialis [3051, 3286, 2721, 2850, 2208, 3209, 3247, 2453, 2056, 2917]. pneumoniae [3296]. pod [1437]. Poecilia [663, 2872]. point [3246, 3110, 277, 2485]. Poland [1210, 596, 1154, 597]. policies [1520, 415, 3270, 2886, 1746]. Policy

[2730, 2224, 3394, 2622, 414, 2635]. Pollution [554, 3014, 972]. Poly [1301, 1363]. polyactis [1908]. polyandry [1480]. polycaprolactone [1953, 1808]. polycaprolactone-packed [1808]. polychaete [1870, 540, 1336, 3192]. Polychaetes [539]. Polyculture [2759, 383, 2424, 1789, 2488, 3281, 2654, 398, 2657, 2562, 722, 845, 1495, 1714, 371, 2661, 1594, 2356, 1834, 971, 826, 1660]. polycultured [1888]. polycytidylic [2148]. Polydora [287]. Polydorid [560, 2540]. polyethylene [1825]. polygyny [1480]. polyherbal [2232]. polyhydroxyalkanoate [1953]. Polyinosinic [2148]. polylactic [2756]. polylactic-co-glycolic [2756]. polymerase [3098, 2840, 2416, 2213]. polymers [2887]. polymorphic [86]. polymorphisms [1896, 2109]. Polynesia [1032]. Polyodon [454]. polypeptide [293, 1444]. Polyphenols [3243, 3260]. Polyprion [509]. polyrhiza [451]. Polysaccharide [1403, 1878, 2856, 3147, 3240, 3251, 3065, 896, 2664, 985, 1517, 870, 1343, 1503]. polysaccharide-based [2664]. polysaccharide-degrading [896, 1503]. polysaccharides [1887, 2616, 2120, 1680, 2234, 2154, 2452]. Pomacanthus [1375]. pomace [3067]. pomegranate [3260]. Pompano [508, 1854, 3009, 3260, 3118, 2083]. Pond [176, 1378, 1099, 1578, 2220, 2457, 3186, 3395, 3161, 658, 1932, 2399, 3379, 3281, 2655, 3223, 1157, 660, 1168, 1575, 258, 94, 191, 598, 1792, 1587, 1584, 659, 56, 1151, 1580, 1002, 918, 754, 2939, 1941, 2042, 1585, 1802, 657, 2635, 1165, 1939, 2356, 2606, 1961, 19, 2961, 668, 854, 971, 3321, 826, 1167, 1424, 1451, 1530, 3399]. pond-based [3379, 3281, 2635]. pond-cultured [1941, 2042, 1165, 1939]. pond-raised [1802]. pond-reared [659, 19]. ponderosa [1485]. Ponds [250, 510, 1888, 457, 2457, 2759, 62, 2091, 1290, 3339, 795, 1960, 3288, 3044, 640, 1891, 191, 384, 1345, 1235, 830, 575, 1970, 321, 1382, 633, 2171, 1002, 756, 2787, 676, 1423, 2174, 2100, 1460, 666, 576, 602, 619, 95, 1279, 3146, 3017, 2601, 1104, 1594, 306, 654, 1130, 362, 292, 1199, 453, 653, 665, 2056, 1203, 823, 3079, 3280, 1494, 2713]. poor [2394]. Population [490, 1382, 554, 1755, 621, 2352, 1113, 1119, 155, 1743, 804, 2036, 1622, 1854, 455, 583, 1742, 845, 1154, 2480, 2025, 1761, 1756]. populational [1948, 1947]. populations [3246, 1826, 1136, 1565, 278, 1854, 723, 1382, 1753, 777, 1737, 596, 1506, 1177, 1964, 1933, 597, 397, 1938, 2184, 1922, 2137, 147, 2165]. Porgy [494, 220, 975, 1054, 334, 342, 1053]. pork [983]. porosity [1825]. Porous [3322, 3357]. Porphyra [895, 3316, 2928, 3147, 3240]. porphyran [2572]. Porphyridium [2691]. portable [2602]. Portieria [2699]. portoamides [3410]. Portugal [391, 2062, 92]. Portuguese [3327, 3377]. portunid [927]. Portunidae [934]. Portunus [1457, 935, 1704, 2108, 936, 1060, 1618, 2455, 1260]. Positioning [1410]. positions [255]. Positive [2752, 2147]. possibilities [2].

**Possible**
**[143, 2615, 2712, 2097, 1064, 872, 1385, 634, 1987, 2419, 2699]. Possjet [126]. Post [2249, 707, 1179, 1939, 858, 1129, 1673, 472, 867, 2521, 31, 49, 1314, 1766, 3143, 2098, 1313, 975, 2852, 2202, 3264, 1499, 1929, 1614, 1435, 3200, 3071, 3152, 2537, 210, 3370, 3126, 2611, 1877, 1389, 1570, 1483, 1219, 3083, 1759, 2715, 557]. post-challenge [2098, 3200]. Post-harvest [2249, 3370]. post-larvae [1673, 1766, 3143, 1499, 1929, 1614, 1435, 3200, 3152, 2537, 210, 3126, 1877, 1389, 1570, 1759]. post-larval [1129, 867, 3083]. Post-mortem [1179, 975]. post-nursery [1483]. post-smolt [31, 49, 1313]. post-smolts [1314]. Post-spawning [1939]. post-thaw [2852, 1219]. Post-transport [707, 3071]. Post-tsunami [858]. post-weaning [3264]. postbiotics [2749]. postlarvae [69, 1085, 760, 106, 2092, 3099, 1567, 2096, 1421, 2524, 647, 524, 1145, 331, 1302, 1367]. postlarval [792, 981, 311]. postmetamorphic [79]. postmortal [3138]. postprandial [1447, 1432]. pot [3137]. potassium [2435, 1733]. potato [2026]. potency [2496, 2869]. potent [2016, 2105]. Potential**
**[3232, 1603, 2618, 1168, 1068, 236, 683, 1024, 3154, 3206, 2356, 1276, 2271, 2902, 2190, 2706, 1801, 1075, 1295, 276, 1611, 1375, 638, 2832, 1490, 1529, 2460, 2490, 2521, 3295, 1894, 632, 1829, 2168, 1323, 872, 3181, 2407, 1241, 2497, 2199, 1521, 2932, 1080, 3, 3397, 1308, 2531, 1560, 3243, 2739, 55, 2414, 3162, 3014, 1145, 2176, 1386, 2601, 800, 1332, 2296, 1144, 1797, 2605, 3211, 2154, 2808, 1842, 3306, 210, 2050, 3304, 2020, 2240, 2964, 1125, 1705, 1938, 2450, 2700, 893, 1718, 2184, 2671, 1051, 3280, 2393, 1530, 3220]. potentialities [1899]. potentially [1870, 94, 1429]. potentials [3103, 1551]. potentiating [1501]. poultry [1018, 2202, 3399, 2529, 961]. poultry-based [2529]. poverty [683]. Povidone [2516]. Povidone-iodine [2516]. powder [2985, 2826, 2933, 1795, 2701, 3078, 2083, 1727]. powered [3138]. Powersim [2449]. Powersim-simulated [2449]. pp**
**[564, 565, 563, 678, 1008, 1975]. PPAR [1729]. Practical**
**[2560, 1839, 1340, 1008, 1473, 1181, 1420, 555, 1267, 1832, 3154, 1019, 1036, 2158]. Practice [320, 3071]. Practices [774, 2518, 2912, 3331, 2372, 2316, 333, 3072, 2155, 2356, 1788, 1051, 692]. Pradesh [3187, 2654]. Prawn [366, 511, 848, 2089, 69, 2366, 1971, 1839, 2989, 1627, 3096, 2831, 2427, 3281, 1709, 3255, 1724, 1345, 1563, 2524, 1792, 2623, 1257, 2439, 1048, 1137, 2262, 1126, 1278, 1292, 1385, 2100, 3160, 2101, 1823, 78, 1388, 1685, 845, 2688, 2866, 1777, 1082, 2692, 1252, 963, 1898, 210, 1376, 1236, 1785, 19, 2963, 952, 293, 847, 2814, 2817, 2243, 1430, 1807, 2715, 466]. prawn-carp-rice [963]. Prawns [466, 374, 249, 1039, 67, 2448, 2671]. Praziquantel [2294, 2258]. Pre**
**[3097, 226, 3145, 1313, 2788, 1934, 3200, 355, 532, 685, 3300]. pre-**

**[1313, 3200]. pre-fattening [3300]. Pre-feeding [226, 355]. pre-gelatinized [685]. pre-grow-out [2788]. pre-seasonally [1934]. pre-slaughter [532]. pre-treatment [3145]. Pre-treatments [3097]. Prebiotic [1759, 1901, 2752]. prebiotics [2061, 3198, 1465, 2729, 2041, 601, 2329, 1436]. Precision [1998, 3168]. precocious [2925, 195]. precocity [929, 932, 2790]. Predation [128, 2353, 457, 1024, 469, 612]. predator [3309, 269]. predators [303]. predicted [1720]. Predicting [1984]. Prediction [966, 3250, 998, 2851, 3417, 2653]. Predictive [1643]. predictors [123]. predominant [2305]. Preface [651, 478, 530, 582, 1206, 1573, 1153, 1088, 422, 1926]. preference [4, 3096, 3279, 2482, 2195]. preferences [3151, 437, 2078, 1062]. pregrowing [1712]. prejudice [1980]. Preliminary [109, 1323, 2524, 2346, 794, 2415, 177, 246, 445, 1454, 508, 2218, 1262, 1529, 113, 2497, 917, 342, 1357, 800, 3410, 1051]. premium [1985]. premix [2549, 3122]. prenanti [1729, 1604]. Preparation [2946, 3097, 1934, 2493]. preparations [1215, 2409, 1809]. prepared [731, 2397, 3209]. presence [1240, 1304, 2683, 1791, 1602, 3268]. present [2061, 723, 1523, 1802, 2295, 599]. presentation [434]. presented [803]. Preservation [335, 1212]. preserved [427]. Press [565, 563]. Pressure [1950, 960, 2320, 136]. pressures [1746]. presumptive [2560]. pretreatment [762]. Prevalence [730, 1904, 2338, 3124, 1909, 519, 3089, 2090]. prevent [2498, 2802, 2576]. Preventing [2142, 1809]. Prevention [700, 2299, 3090, 2757, 2011, 2627, 1796, 2018, 400, 3418, 2568, 395, 2544]. preventive [1974]. previous [2798]. Prey [511, 1166, 438, 458, 842, 924, 1399, 1771, 1312, 2597, 3118, 434, 1455, 2195]. Price [564, 552, 565, 554, 563, 553, 3193, 23, 1513, 1985, 1057]. prices [3178]. prickly [3087, 1595]. primarily [1640]. Primary [2162, 649, 384, 1810, 1107, 653]. primers [965]. Principles [692, 1087, 1204]. print [1600]. private [32]. Pro [1158]. proactive [3302]. Proales [1798]. probiont [1621]. probionts [647, 775]. Probiotic [1652, 507, 1048, 1484, 1705, 2059, 2706, 2089, 2029, 2914, 3408, 1894, 3049, 3052, 1821, 987, 2037, 2929, 1901, 2008, 1878, 2496, 2625, 2317, 1757, 1822, 1560, 1814, 465, 1873, 2105, 1866, 2419, 2964, 1069, 2329, 3347, 3290, 1089, 2112, 3134, 892, 2245, 2393, 1759]. probiotic-pathogen [2914]. probiotics [3361, 3407, 2425, 2061, 1708, 2459, 2337, 3384, 1122, 1377, 1829, 3198, 1068, 1436, 2784, 2012, 1263, 2531, 2041, 1460, 2380, 3117, 1879, 2689, 1145, 3200, 2954, 2959, 1646, 2813, 2361, 2643, 2898, 2824, 1988, 1731]. problem [2050]. problems [40]. Probopyrus [2557]. Procamallanus [2050]. Procambarus [842, 2996, 1370, 1468, 2596, 2379, 2966, 3213, 3028, 1625, 2642, 2752, 3190, 2753, 2892, 1148, 1540, 2980]. Procedure**

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**Salt [1180, 2708, 2166]. salting [1180]. salts [2179]. saltwater [25]. saltwort [3307]. Salvelinus [481, 1882, 1233, 667, 2156, 1158, 1581]. Salvia [2616]. Sambucus [2381]. same [843]. samphire [1836]. Sample [755, 1273]. samples [1655, 3226]. sampling [2336, 11]. Sanacore [2835]. sand [2946]. Sander [1932, 642, 749, 2257, 1229, 1782, 2339, 1588, 1944, 1169, 1230, 3005, 2855, 1160, 1499, 2529, 1927, 1934, 1940, 1941, 2042, 2945, 2566, 2211, 1165, 1579, 1939, 3018, 1936, 1930, 630, 1933, 1935, 641, 2109, 480, 1159, 1931, 1161, 1942, 2456]. sandwich [33]. sandy [3036]. Sanggou [2123, 1176]. sanguinea [949]. sanitary [1485]. sanitizer [2576]. santolla [1539]. Saponin [233, 2934, 1704, 2801]. Saprolegnia [3203, 3219, 3201, 1980, 2588, 2931, 2381, 2276]. Saprolegniasis [2476, 3203, 2588, 2576]. sarba [3342, 1660]. sarcoplasmic [168]. Sarcotaces [2527]. sardine [2344]. Sargassum [2549, 2526, 1501, 2234, 3127, 1650]. sargus [505, 505]. Sathirathai [552]. satiation [882]. sativa [2257, 1849, 3397, 3269, 3177]. sativum [2929, 2884, 950, 1727]. sativus [2438]. Saudi [2527, 133, 2217]. Saussurea [3014]. Sauvage [1972, 988, 3066, 2329, 711]. Savusavu [3309]. saxatilis [2097, 852, 3130]. Say [802]. SBSBR [793]. scabra [2309]. scalare [1894, 767, 2325, 2328]. scale [1917, 1129, 3401, 2906, 1673, 1001, 2368, 207, 640, 1923, 2495, 31, 2198, 1771, 1647, 756, 1864, 2352, 2412, 1325, 74, 710, 1378, 835, 2213, 2215, 3269, 2697, 2387, 1788, 847, 711, 2160, 3177, 1512]. Scaled [3156, 371]. Scaled-up [3156]. scales [2678, 2834, 1811, 3311]. scallion [1760]. Scallop [277, 516, 285, 286, 605, 109, 349, 276, 282, 106, 279, 707, 138, 260, 1136, 323, 278, 281, 1176, 1351, 2010, 259, 348, 104, 2687, 158, 613, 2445, 280, 102, 287, 332, 108, 101, 283, 105, 790, 111, 311, 103, 112, 100, 284, 967, 407, 580, 1438, 873, 1318, 680]. Scallops [234, 1129, 159, 310, 169, 113, 402, 1024, 2353, 356, 383, 126, 626, 127, 397, 612]. scaly [1219]. scanning [2370]. SCAR [849]. scarce [1906]. Scarfe [700]. SCB [2832]. scenarios [1549]. Scenedesmus [3154, 2094]. scenes [2976]. schedule [701, 10]. schedules [442, 2511]. scheme [788]. scherzeri [1392]. Schinz [3091]. Schizochytrium [2365, 1545]. Schizothorax [3425, 2979, 1729, 1604]. Schlegel [759]. schlegeli [1135, 1297, 742]. schlegelii [2620, 2522, 3336]. schmitti [1393, 1355]. school [2520]. schrenckii [2616, 1857, 2278]. Schultze [1894]. Sciaena [2532]. Sciaenops [1906, 675]. Science [447, 678, 2400, 2886, 1283]. sciences [1413, 1414, 1412]. Scienti.c [554]. scientific [859, 1285, 646]. scientometric [3090, 2359]. scleractinian [781]. scolymus [3252]. Scomberomorus [3288]. scope [402, 1118]. Scophthalmus [470, 1770, 1179, 1996, 1090, 2407, 677, 1977, 2320, 394, 1824, 1108, 748, 2308, 2824]. score [2412]. scores [2769]. Scoring [1050, 2560, 1073]. Scortum [2462, 1466, 1744].**

**Scotland [791]. screen [1810, 2639]. Screening [2727, 1361, 1494, 2823, 1621, 2464, 1897, 2049, 2158]. SCRV [3082]. scutellaria [2580]. Scylla [2759, 3379, 934, 1377, 545, 546, 423, 3104, 571, 1325, 1368, 1983, 937, 928, 1646, 3291, 933]. SDDV [2213]. SDS [160, 344]. SDS-page [344]. SE [88, 1838]. Sea [88, 507, 307, 1336, 1304, 247, 2624, 1102, 471, 126, 510, 1656, 2886, 2028, 519, 1245, 562, 3271, 2827, 788, 93, 2397, 62, 713, 901, 1708, 2829, 192, 882, 2309, 16, 561, 2911, 3390, 1611, 38, 161, 39, 1906, 1610, 138, 340, 970, 81, 1780, 160, 3164, 2463, 1419, 1622, 390, 2589, 1565, 919, 1004, 888, 886, 405, 1083, 2371, 2231, 281, 1774, 184, 1345, 2345, 3184, 912, 1401, 974, 1606, 123, 2201, 399, 1486, 167, 2935, 3109, 1481, 58, 1864, 984, 839, 889, 1308, 1423, 1681, 3147, 3240, 3282, 3251, 1274, 2941, 1193, 1024, 2043, 578, 3067, 606]. sea [2015, 186, 2353, 165, 983, 380, 309, 3070, 3409, 1332, 339, 367, 383, 136, 1428, 2508, 294, 1767, 2153, 1559, 2806, 1547, 1243, 3220, 3206, 156, 898, 1092, 1712, 2019, 1881, 844, 968, 3335, 1062, 557, 2968, 204, 3265, 3421, 2054, 3277, 386, 1366, 2972, 1003, 1192, 1299, 2451, 2454, 3210, 1403, 2891, 612, 697, 1483, 1607, 1517, 1660, 2978, 1633, 1280, 1318, 1373, 1494, 1650, 3188, 870, 1149, 1341, 3376, 2674, 2396, 500, 2519, 1612, 1782, 807, 1521, 1602, 3230, 1737, 2532, 1113, 806, 2058, 2754, 2820]. sea-based [1681]. sea-bass [2345]. Sea-lice [2886]. Seabass [1193, 2825, 1645, 2655, 3223, 3393, 3248, 1766, 3264, 2440, 2348, 2324, 2797, 1691, 2949, 2950, 2877, 1881, 2667, 3283, 1868, 3128, 1175, 1543, 2024, 914, 2816]. seabirds [637]. Seabream [506, 2758, 815, 1286, 2122, 302, 1465, 3275, 372, 1422, 2851, 1349, 528, 3342, 770, 798, 2948, 1363, 2949, 2950, 464, 2512, 2179, 3127, 1089, 1175, 789, 1029, 685]. seafood [1950, 2594, 690]. seafood-exporting [1950]. seahorse [1358, 2913, 2038, 2444, 544]. seahorses [556]. searching [407]. Seas [815]. Season [486, 480, 150, 281, 2439, 1337, 840, 1159, 1530]. Seasonal [286, 2501, 1593, 55, 657, 1943, 3351, 504, 2186, 873, 62, 381, 1850, 105]. seasonal-like [381]. seasonally [1934]. seasons [25, 113, 2564, 952]. seawater [618, 470, 2830, 548, 1013, 134, 2623, 3058, 1461, 1827, 29, 631, 108, 2176, 1777, 311, 2744, 3130, 2022, 914, 1633]. Seaweed [567, 2628, 2154, 2240, 1683, 699, 2759, 3231, 2988, 1248, 1463, 1253, 3163, 1176, 1878, 3400, 3058, 2592, 2685, 3310, 2177, 2803, 3259, 2269, 3413, 2664, 1272, 2300, 3127, 1719, 847, 990, 3362, 3325, 2969]. Seaweed-based [2240]. seaweeds [1001, 2412, 2181]. sebago [2528]. Sebastes [2620, 2522, 1135, 3336, 1297, 742]. second [852]. secondary [2525, 3004, 1107]. secreted [2587]. sectional [2316]. sections [559]. sector [2582, 1416, 1456, 2730, 3004, 1408, 2640, 2969]. sectors [1411]. securis [1305, 636]. security [2655, 3223, 2495, 2039, 2559]. sedation [2405]. Sedative [785]. sedatives [3287]. sedentary [2210]. sediment [1534, 1587, 56, 2626, 2410, 1749, 1726, 1741, 1279, 2134,**

**3079, 1494, 1424]. Sedimentation [227]. sediments [1099, 2688, 2798, 1272, 1961, 386]. seed [1907, 1557, 1377, 2095, 178, 927, 3106, 1596, 1864, 3348, 2662, 442, 1200, 2273, 133, 1437, 1807, 1260]. seeded [2353]. seeding [1569, 356, 2638]. seedling [2497, 3321]. seedlings [2377]. seeds [1595]. Seeking [1938]. segment [1140, 3007]. Segmentation [3000, 2485, 2778, 3110, 2976, 2982]. segments [3027]. Segregation [852, 1269, 675, 3415]. Selected [1421, 730, 1708, 1216, 1896, 3289, 1742, 666, 2739, 1087, 766, 2480, 2329, 911]. Selection [2424, 3048, 1263, 2736, 1288, 3129, 1119, 2140, 2286, 1670, 1346, 2772, 1210, 2372, 709, 1127, 1034, 79, 790, 2078, 127, 121, 2543, 865, 3377, 1003, 1761]. Selective [595, 1249, 1557, 1487]. selectivity [1312]. selenium [3219, 3201, 2289, 2769, 3264, 1244, 1254, 2698, 3213]. Selenka [1239, 839, 1003, 1299, 1483, 1607, 1373, 870, 1343]. Self [1136, 2343, 334, 1400, 1591, 2553]. self-feeding [2343, 334, 1591, 2553]. self-help [1400]. Self-thinning [1136]. Semantic [3000]. semen [743, 2477]. Semi [245, 93, 795, 2843, 1580, 1941, 2042, 1585, 352, 2599, 2239, 2511, 1968]. semi-arid [2599]. semi-artificial [1941, 2042]. semi-automated [1968]. semi-intensive [93, 1290, 795, 2843, 1580, 1585, 352, 2239, 2511]. semicircle [1375]. semicirculatus [1375]. semilaevis [1320]. Seminal [484, 1216, 1996, 2315, 454, 2740]. semisulcatus [2063, 513]. Semisulcospira [880]. Semper [2829]. Senegal [572]. senegalensis [867, 501, 1091, 1089]. Senegalese [721, 501, 1091, 1089]. sensed [2990, 790]. sensitive [3228, 3010, 2974]. Sensitivity [778, 2557, 2213, 1003]. sensitized [2288]. sensor [57, 3023]. sensor-based [3023]. sensors [3115]. Sensory [372, 1180, 3317, 1880, 2026]. sensu [3316]. sentiment [3042]. Sepia [825, 350, 391, 438, 458, 568, 712, 773, 832, 357, 1918, 468, 628, 2575]. Sepiella [3229]. septicaemia [1663]. septicemia [987, 2783, 1301, 1806, 3338, 2299, 2011, 3068]. seq [3385, 3366]. sequence [2366, 2261, 777, 1544, 2242]. sequences [1154]. sequencing [2721, 2046, 2326, 1544, 2545, 2161]. Serbia [1979]. serial [1131]. serial-use [1131]. series [1117]. Seriola [2398, 495, 1244, 794, 1312, 1084, 694, 2884]. seriolae [2398, 794, 1969, 1744, 3249]. serious [2663]. serotyping [3098]. Serovar [343]. serpulid [3314]. Serrasalmidae [2310, 2226, 2035]. serrata [3379, 934, 1377, 545, 546, 571, 1325, 1368, 937, 928]. Serum [220, 85, 1321, 2291, 755, 2438, 2201, 604, 794, 3009, 2075, 136, 400, 820, 1496, 2452, 3076, 1840, 1360, 2977, 735, 1561]. service [2542]. services [1853, 1525]. sesame [1258]. sesamin [1163]. sessilis [1252]. set [124, 1390]. seticornis [2646]. sets [1187]. settlement [615, 795, 106, 2991, 1612, 640, 103, 2306]. settlements [105]. settler**

[2436]. settling [804, 3307]. seven [1938]. Several [218]. severe [2675, 2663]. severe-intensity [2675]. severum [703]. sewage [2833, 3235]. Sex [2776, 822, 695, 1679, 2519, 404, 1214, 1320, 2204, 1508, 1714, 2326, 2539, 379, 1232, 1892, 3024, 133, 750, 2156, 3077, 711, 3032, 1759]. sex-related [3032]. sex-reversed [1214]. sexual [801, 161, 3352, 2439, 1941, 2042, 1553, 758, 2662, 2809, 1092, 1365, 2671, 1035]. SFE [2592]. sGnRH [150]. sGnRHa [1747, 2740, 1158]. SGSY [1027]. shad [2780]. shade [1196]. shading [2298, 2383]. shallow [769, 104, 154, 1318]. Shandong [3285]. Shanghai [926]. shape [721, 1979, 2886]. Sharma [1205]. sharp [888, 886, 983]. Sharpsnout [506, 302, 1465, 919, 372, 1422]. Sharptooth [801]. Sheffield [1975]. shelf [1920, 1576, 394, 2054]. shelf-life [394]. shell [1843, 1734, 1745, 1080, 631, 104, 3327, 1329, 2858, 1630, 3241, 14, 1144, 2540, 3392, 2879, 891, 1955, 2025, 2981, 1352]. shelled [2938, 3195, 1012, 1700, 1752]. Shellfish [416, 1479, 144, 1525, 1064, 1120, 1345, 3016, 1528, 1272, 803, 812, 297]. shellfisheries [2491]. shells [3244, 2540]. shelter [370, 1368, 369]. Shenzhen [792]. Shewanella [1089, 892]. shi [1020]. shifts [2092]. shiitake [1192]. ship [1232]. shock [1293, 1086, 1157, 778, 2351, 1359, 1300, 2297, 1003, 674]. shore [1569, 535, 938]. Short [212, 1309, 161, 178, 200, 1259, 1174, 1774, 2038, 151, 140, 193, 186, 177, 3420, 2880, 2082, 2548, 1998, 1173, 1239, 1472, 2845, 3167, 17, 3239, 1221, 1504, 2609, 593]. short- [17]. short-chain [2548, 1774, 2609]. Short-term [1309, 2880, 1173, 1239, 1472, 2845, 3167, 1221, 1504, 593]. shovelnose [201]. show [2691]. shows [1564]. Shrimp [232, 2228, 569, 622, 2272, 628, 1355, 2675, 2548, 1479, 2549, 1907, 1721, 68, 673, 2518, 3092, 3036, 2759, 3395, 3228, 2063, 730, 1619, 2426, 523, 3238, 1290, 1904, 1652, 3359, 3193, 1248, 1358, 2990, 1277, 2032, 1119, 1887, 1463, 1836, 2253, 2119, 1754, 1384, 1678, 2428, 2764, 3217, 2914, 1005, 2092, 2992, 1899, 1780, 2521, 13, 207, 358, 1256, 1950, 2227, 1829, 2835, 2836, 3198, 2770, 2494, 3393, 3334, 981, 1202, 640, 2921, 966, 2554, 2312, 2313, 2924, 1396, 1992, 1393, 1289, 1259, 1379, 1860, 381, 2070, 1784, 2590, 2842, 2722, 3143, 1538, 2997, 1901, 2998]. shrimp [1487, 2726, 998, 2099, 824, 1198, 1810, 3400, 3059, 647, 915, 575, 1549, 2232, 1970, 2592, 2593, 2847, 2626, 1654, 1055, 3371, 2786, 2202, 1791, 3139, 3109, 1441, 1614, 2731, 2316, 2500, 980, 2378, 1725, 1598, 853, 2317, 2442, 2205, 2732, 889, 1268, 1737, 3063, 3010, 1324, 2469, 3064, 2560, 2860, 26, 140, 1460, 2792, 2318, 1768, 2861, 2207, 2631, 1485, 3340, 2598, 1796, 3169, 80, 576, 2322, 2533, 1741, 2689, 95, 3012, 3285, 3178, 524, 868, 2175, 2947, 2800, 3120, 1145, 1773, 2076, 1902, 2507, 1019, 982, 3146, 373, 2953, 2018, 2049, 2954,

1994, 2567, 2601, 2802, 1315, 2803]. shrimp [3254, 2602, 2603, 1104, 1717, 3019, 2805, 3307, 3257, 559, 2696, 306, 1880, 1620, 2606, 1183, 1502, 2239, 2511, 1961, 1130, 1138, 3126, 2300, 2105, 1493, 941, 1909, 2021, 2609, 362, 2106, 3204, 403, 2611, 2107, 1302, 2134, 1036, 522, 526, 1348, 1185, 1389, 971, 3321, 1788, 1711, 2449, 1705, 3256, 1962, 1025, 891, 2544, 2022, 1114, 1361, 2483, 2641, 2670, 3077, 734, 2890, 2574, 1146, 2818, 2058, 2819, 3080, 735, 782, 1592, 3030, 2897, 1689, 2899, 1644, 1397, 3170, 2429, 2194, 2403, 679, 552]. Shrimps [233, 2115, 2338, 2354, 1660, 1976]. sHsp [2351]. Si [3128]. siamensis [3136, 2612]. Siamese [168, 2502, 1601, 1599, 1924]. sib [1480]. Siberian [1247, 208, 2245]. sibling [1457]. side [3192]. sides [843]. sidoides [2650]. Siganus [702, 990]. sign [2616, 3276, 2721, 2724, 3215, 1908, 2735, 3175, 3406, 3011, 2955, 3026, 2815, 2668, 3411, 2278, 2896]. signal [638, 271, 998, 2277]. signaling [2404, 2507]. significant [3148, 2663]. significantly [1628, 2959]. silage [1839, 3242, 2472]. silica [2946]. silicate [2779]. silico [2946, 3410]. Siluriformes [1097, 3159]. Silurus [1226, 1164, 2853, 2854, 1211, 1988]. Silva [2785]. Silver [251, 237, 1619, 300, 3196, 2525, 1792, 3136, 325, 2297, 3358, 360, 1660, 2160]. silymarin [2686]. similar [2536]. similis [2001, 1798]. Simple [569, 50, 1544, 1835, 56, 1651, 777, 389]. simulate [1915]. simulated [2405, 321, 778, 1101, 528, 2449]. Simulation [2678, 2123, 2010, 2581, 851]. simulations [602, 619]. simultaneous [3098, 1476, 1697]. simultaneously [1013]. Sinaloa [54]. since [1519]. sinensis [656, 2457, 2120, 1680, 1956, 2230, 1142, 3060, 918, 3343, 929, 932, 2657, 2790, 2938, 2411, 2633, 1279, 931, 1050, 753, 930, 2388, 2361, 985, 2390, 2573, 2702, 1012, 1799, 2975, 2516, 1700, 3378, 1649, 1752, 2644]. Singhi [221]. Single [1896, 2231, 2531, 395, 2329, 2109, 3280]. single-factor [3280]. Single-nucleotide [1896, 2109]. singly [1358]. singularly [946]. Siniperca [856, 3380, 2657, 3214, 1392, 2332, 3082]. sink [1593]. sinks [1586]. Sinotaia [3142]. Sinuolinea [2118]. Siraitia [3340]. Site [2140, 790]. sites [1578, 2030, 1067, 2808]. situ [3055, 793, 2887, 1668]. Six [250, 289, 3377]. Size [313, 248, 1448, 4, 300, 548, 2915, 1670, 281, 273, 2778, 841, 3176, 659, 768, 720, 125, 754, 2468, 3005, 1929, 3063, 2352, 1368, 2353, 758, 1034, 1943, 445, 1165, 79, 126, 1547, 434, 702, 2182, 672, 1273, 172, 1876, 697, 1149]. sized [536, 1466]. sizes [1619, 2031, 2716, 113, 575, 3167, 1749, 1726, 576, 644]. sizing [2899]. skeletal [3276, 2922, 302, 1231, 2965]. skeleton [1642]. Skeletonema [250, 2033]. skill [1337]. skills [1411]. Skin [3366, 2704, 1995, 1446, 2652, 2727, 1124, 975, 1596, 3353, 1800, 3024, 3296, 1050, 2420, 2514, 2552, 2714, 3385]. skirt [2687]. slag [2254]. Slaughter [228, 171, 532]. slaughtered [1583]. slaughtering

[456, 405]. SLE [2685]. slip [2479]. SLP1 [1814]. sludge [2284, 2257, 2211]. Small [977, 1917, 3164, 640, 2495, 2198, 1066, 1647, 2348, 1738, 1325, 74, 1378, 3418, 835, 1371, 3269, 1010, 2697, 2387, 1788, 2977, 1871, 2218, 3177, 1512]. small-scale [1917, 640, 2495, 1647, 1325, 74, 1378, 835, 3269, 2697, 2387, 1788, 3177, 1512]. smallholder [1984]. smallscale [1989]. smart [2534, 2744]. Smith [2124]. smoked [1180, 547, 670]. smolt [635, 1013, 31, 49, 1313]. smoltification [92]. smolting [63]. smolts [81, 12, 1314]. smooth [1320]. SN1 [2743]. snail [880, 2484]. snakehead [176, 2051, 2052, 3351, 1437, 2421, 2977, 1561]. snakeskin [1800, 2055]. snapper [1018, 1353, 2834, 2694, 1503]. snook [1317]. snout [888, 886, 2045, 983, 3411]. snow [3425]. SNP [1669, 3385, 3366, 1707, 3032]. SNPs [1692, 3155, 1352]. Sobaity [3127]. Social [819, 1724, 1325, 2086, 768, 50, 3270, 3263]. Socio [2360, 911, 1027, 1400, 2961, 3256]. socio-cultural [3256]. Socio-demographic [2360]. Socio-economic [911, 1027, 1400]. socio-economics [2961]. sociodemographic [3285]. socking [632]. socks [1251]. sod [1299]. Sodium [2523, 2945, 2024, 1356, 1763, 1764, 2469, 2503, 1131, 2179, 1022]. Soft [2981, 12, 1745, 2938, 2879, 3195, 1012, 1700, 1752]. Soft-shell [2981, 1745, 2879]. soft-shelled [2938, 3195, 1012, 1700, 1752]. soil [1005, 2377, 2479]. soil-grown [2377]. soils [95]. Soják [3061]. solani [2835, 2997, 2847, 2631, 2689]. Solanum [472, 2685]. Solar [1611, 2602]. Solar-dried [1611]. soldier [2786, 2742]. Sole [572, 721, 687, 122, 698, 841, 1320, 501, 1091, 1089]. Solea [867, 501, 1091, 1089]. solid [3321]. solids [1555, 2741]. Solieria [3362, 3325]. Solieriaceae [3362, 3325]. Solomon [2125]. solubility [1706]. solubilizing [897, 321]. soluble [433]. solubles [3080]. Solution [488, 869, 1342, 176, 3294]. solutions [1817, 2852, 1522, 1223, 175, 2369]. solvent [2420]. somatic [968, 1280]. somatostatin [1469]. somatostatin-14 [1469]. Some [885, 1637, 247, 579, 484, 610, 2033, 336, 2069, 183, 2627, 585, 2044, 1484, 173, 2476, 820, 2112]. sonderianus [2958]. Sophora [3175]. sorting [1929]. sorubim [1750, 1751, 2132]. Souahlia [2140]. Sound [1853, 529]. Sounds [416]. Source [628, 192, 1870, 2283, 2428, 3043, 2257, 350, 2554, 1393, 196, 1077, 115, 1953, 2237, 2414, 1091, 1376, 1524, 1125, 2083, 3319, 3218, 1545]. sourced [3017]. sources [2614, 2139, 1490, 64, 1740, 996, 3101, 1307, 2407, 1102, 956, 3002, 2315, 2172, 2347, 1040, 2529, 2444, 555, 1593, 2504, 3154, 2177, 880, 1586, 2538, 1987, 2271, 1452, 1106, 1752]. South [2831, 391, 2062, 1782, 2412, 283, 3034, 2457, 1789, 1853, 1670, 545, 546, 1612, 1589, 2594, 3336, 2126, 3116, 2413, 2321, 3178, 2268, 185]. south-eastern [2412]. Southeast [3178, 751, 3310, 2321].

**southeastern [2164, 1251, 3231]. Southern [282, 251, 1786, 2198, 2171, 303, 158, 1144, 434, 1190, 2117, 2739, 3263, 1788]. Southgate [1071]. southwest [848, 1721, 673, 2197, 2635]. Sow [489]. Sowerby [2445]. Sox17 [256]. Sox9 [256]. soy [2063, 942, 1678, 1486, 1895, 3148, 1036]. soya [1295, 71, 166, 1875]. Soybean [1776, 880, 1133, 799, 1445, 1018, 3096, 2770, 1465, 944, 1706, 1142, 114, 3399, 1040, 2732, 3175, 606, 2955, 547, 1824, 959, 1900, 753, 1316, 1625, 762, 940, 1807, 920, 3080, 2138, 2333]. soybean-meal-based [799]. sp [2189, 2089, 2114, 2033, 1375, 1859, 1490, 3212, 350, 1240, 1396, 1901, 2682, 2098, 757, 1241, 2526, 2683, 1919, 1959, 703, 3343, 715, 1814, 287, 3348, 2534, 1450, 2151, 3069, 2295, 1760, 2874, 3159, 379, 1866, 2743, 3321, 2483, 3134, 1815, 1545, 3154]. spacecraft [2153]. spaced [322]. spacer [895]. Spain [88, 103, 945, 282, 1305, 2171, 2387]. spallanzanii [1336]. Spanish [3288, 1565]. Sparidae [424, 974, 537]. Sparidentex [3127]. sparids [305]. sparing [1271, 2301]. Sparus [2827, 2758, 882, 3390, 535, 2122, 1626, 364, 1622, 390, 1565, 405, 2371, 2201, 2851, 1486, 1349, 770, 798, 1332, 339, 246, 464, 1535, 898, 510, 2512, 844, 557, 1089, 3277, 789, 1029, 685]. spat [728, 279, 707, 1344, 986, 287, 2275]. spatfall [605]. spathula [454]. spatial [2030, 2140, 2520]. spatio [106]. spatio-temporal [106]. spawners [1869]. Spawning [486, 480, 150, 255, 286, 3180, 1817, 786, 2339, 923, 314, 1534, 698, 948, 1828, 771, 269, 3342, 1939, 103, 19, 1161, 2766]. SPC [2333]. special [203, 2070, 2319, 1519, 2016, 2175, 46, 1866]. specialized [2828]. Species [1479, 238, 183, 503, 621, 246, 284, 483, 2060, 2164, 2579, 3231, 424, 2911, 1859, 1342, 106, 1913, 290, 2368, 1558, 398, 791, 84, 2067, 3049, 2168, 2921, 636, 2465, 3054, 2037, 752, 719, 2372, 698, 86, 1848, 715, 1420, 2857, 1803, 140, 3113, 2739, 1197, 2689, 517, 518, 105, 2268, 3396, 393, 2540, 2743, 127, 2386, 733, 670, 1710, 2305, 1016, 1128, 2482, 1488, 3411, 2974, 2158, 2392, 2093, 709, 974]. Species-characteristic [183]. Species-specific [1479, 1848, 1197]. Specific [2410, 3420, 1479, 1603, 871, 1655, 1680, 2840, 2589, 1501, 2232, 3185, 1848, 3266, 3240, 1197, 1675, 2505, 2355, 2151, 1930, 965, 2420, 2881, 1705, 1192, 2670, 3373, 1403, 1794, 2817, 2546, 2160, 1540, 3188, 2898, 2333]. spectra [3040, 2349]. spectrograms [3387]. spectrophotometric [744]. spectroscopic [2414]. speed [1856, 1111]. Speight [955]. spent [2831]. Sperm [869, 1817, 1216, 715, 1464, 483, 744, 2282, 588, 1215, 266, 783, 1996, 1117, 1127, 1217, 1247, 1156, 584, 2740, 581, 674, 748, 2111, 1219]. spermatogenesis [161, 2388]. spermatophore [2103]. Spermatozoa [485, 488, 1218, 2740, 1221, 1222]. Spezia [1482]. spheroid [2967].**

**Sphoeroides [435]. spider [731]. spinach [2708, 1383, 1495]. spined [2508]. spinifera [713]. spiny [2229, 3402, 1458]. spiny-bellied [2229]. Spionidae [2540]. Spirocamallanus [2050]. Spirodela [451]. Spirulina [2437, 2581, 3374, 1041, 1690, 2071, 1077, 3181, 1311, 1596, 1473, 2510, 1978, 1302, 242]. spleen [3389, 2649, 1805, 2081]. spleen-NMR-metabolomics [2649]. splendens [3237, 2502, 1601, 1599, 1924, 2080]. splendidus [635, 1403]. splenic [2248]. splicing [3313]. Spondylus [1885]. sponge [1031]. spontaneous [97]. Spore [567]. Sporidiobolus [3153]. sporophytes [1103]. Spot [569, 730, 1277, 1887, 3212, 2590, 2722, 1467, 2099, 1664, 1855, 2375, 2202, 1473, 3139, 894, 2939, 2014, 2471, 2563, 2946, 1773, 2805, 2154, 2637, 3410, 559, 1961, 1185, 1059, 1711, 2022, 1331, 1361, 2483]. spotted [2676, 2709, 3246, 548, 827, 910, 909, 946, 979, 1001, 1353, 783, 351, 902, 1364, 408, 2935, 631, 756, 2936, 3147, 3240, 3251, 2941, 2015, 3220, 3206, 2694, 3351, 2451, 2454, 3210, 1455, 3032, 1503]. spp [490, 2649, 410, 2003, 3045, 2625, 2175, 2799, 2176, 850, 2957, 2132, 2112, 2393, 3154]. sprayed [762]. spring [97]. SPUM [1970]. Squalius [2220]. squamosa [1196]. square [2833]. squid [2680, 2954]. squilla [1839]. squirt [984]. SRAP [849]. Sri [147]. ssp. [1484]. SSR [1502]. SSRs [1544]. stability [2189, 3180, 2480]. Stable [2834, 3275, 1570, 542, 2713]. Stackhouse [2191]. stage [519, 1418, 1119, 3250, 1954, 981, 3315, 2522, 369, 1539, 2448, 468, 2429, 2493]. stage-2 [369]. Stages [226, 1108, 504, 2398, 2063, 2092, 1227, 205, 314, 1640, 351, 2262, 3063, 1639, 1712, 1830, 403, 407, 580, 3377, 1003, 2242, 1799, 3207, 1976, 447]. staining [2223, 1897]. stains [3424]. stakeholder [2582, 706, 2254, 2949, 2950]. stand [1212]. standard [1548]. Standardization [2282]. stands [654]. Staphylococcus [1956, 2160, 1592]. starch [3357, 1954, 1030, 2699, 685, 1503]. starry [1542]. stars [1024, 2353]. start [1874, 2538]. start-feeding [1874]. start-up [2538]. starter [9]. Starvation [405, 761, 2675, 907, 2790, 1504, 1618]. starved [426, 591, 1694]. State [54, 1950, 3362, 3325, 2549, 2707, 2458, 1620]. States [617]. static [207, 358, 2167]. station [598]. Statistical [1400, 576]. Statistics [1283]. Status [138, 2400, 571, 2217, 2703, 2825, 2900, 3323, 2827, 1319, 1748, 2141, 2428, 871, 2835, 3101, 2770, 2771, 2619, 2720, 2773, 883, 2929, 2007, 1745, 1765, 2734, 3175, 359, 193, 1941, 2042, 2737, 2862, 810, 3067, 2354, 2599, 1275, 3409, 2662, 3306, 1502, 2665, 2666, 2302, 1551, 648, 3253, 3075, 599, 2751, 2977, 686, 2159, 2672, 3207, 3170]. Staurogyne [2579]. steelmaking [2254]. steep [908]. Steindachner [1353, 314, 2694]. stellatus [1542, 2960, 1503]. Stenorhynchus [2646]. step [730, 2607]. steps [1285, 859]. Stepwise [976]. sterlet**

[1328, 2204]. sterna [566]. steroid [1828, 1542, 379, 3297, 2766]. steroids [161, 750]. Sterol [2164]. stewartii [897, 897]. Stichopus [2526, 1391, 2298, 2383]. Stickney [296, 862, 446]. stickwater [2865]. still [191]. Stimpson [381, 2124]. stimulant [2631]. stimulate [1261, 167, 1981]. stimulated [1357]. stimulation [2116, 1213, 2692, 1159]. stimulations [2595]. stimuli [890, 3118]. stinging [2334, 1081]. Stizostedion [452]. Stochastic [2504, 1058, 2511]. stock [2220, 595, 2841, 927, 1320, 918, 1197, 3125, 284, 2058, 307]. Stocking [721, 833, 1090, 11, 2445, 493, 566, 825, 299, 2551, 3379, 2002, 70, 2458, 684, 548, 878, 1100, 3099, 2916, 2401, 3386, 1186, 2716, 1310, 2994, 2096, 811, 3315, 281, 1792, 2999, 988, 408, 65, 2853, 2854, 2855, 2731, 1054, 839, 2596, 3063, 1977, 2237, 1368, 2943, 352, 2505, 2874, 759, 1165, 2130, 1559, 1547, 1712, 3022, 702, 2384, 133, 968, 1539, 641, 3283, 3421, 2972, 1820, 2390, 1840, 1360, 1660, 2893, 2672, 3300, 999, 1698, 2429, 2432, 2196]. Stocks [481, 954, 1002, 948, 1385, 91, 1965, 1728]. stomach [1943, 2301]. stomachs [1655]. Ston [1597]. storage [2911, 345, 2528, 1576, 1936, 1221, 557, 3138, 669, 2674]. stored [1472, 1920, 3279, 2054, 2026]. Strain [507, 2551, 3041, 2991, 1997, 155, 2166, 3048, 2772, 738, 2625, 1970, 2126, 2736, 48, 87, 107, 2813, 1702, 2362, 2545, 2025, 3132, 1373]. Strains [482, 1194, 1696, 693, 1445, 1652, 2225, 2914, 3045, 3289, 3399, 3336, 2858, 298, 2046, 906, 1258, 1390, 522, 526, 3347, 2968, 2484, 3378]. stranded [1705]. strategic [2984]. Strategies [1999, 278, 2358, 349, 2716, 2339, 2464, 2230, 1688, 2009, 868, 1787, 913, 2957, 1378, 2239, 1834, 2747, 3311, 2493]. strategy [3042, 786, 2371, 2622, 859, 1285, 3419, 1974, 2861, 3119, 1078, 1034, 2665, 2133, 2612, 893, 2422, 1581]. stratification [55, 326]. stratified [1042]. streaked [2477]. streams [1979, 3192]. Strengthening [3050]. Streptococcosis [1990, 1919, 2627, 1809, 3128]. Streptococcus [2755, 2649, 2616, 3098, 2919, 2098, 1919, 2173, 3336, 3062, 2324, 2473, 1969, 2295, 3155, 2605, 1562, 2180, 1809, 1815, 2248, 1731]. Streptomyces [1652]. Stress [228, 1170, 234, 2617, 1812, 2983, 2901, 1907, 2905, 3039, 3401, 153, 2909, 3359, 2989, 2910, 2335, 3346, 1309, 392, 535, 2287, 3274, 3164, 3237, 981, 2096, 1227, 1229, 2313, 49, 2230, 2723, 2146, 3181, 2624, 2373, 2558, 1135, 1642, 1827, 3061, 2853, 2854, 2627, 2441, 1054, 2856, 2938, 3009, 3112, 1977, 2379, 2318, 2236, 2351, 2942, 536, 3302, 96, 2322, 173, 2016, 2633, 1800, 2948, 767, 3071, 3017, 371, 1315, 2509, 3413, 3267, 2638, 2960, 395, 1112, 1805, 2569, 2541, 3252, 750, 3265, 85, 2815, 2361, 2451, 2454, 2670, 2573, 2702, 3388, 2277, 3174, 1871, 3202, 2894, 870]. stress [1343, 1561, 2673, 3170, 2679, 2196, 448]. stress-associated [2901].

**stress-induced [2856]. stress-related [2624]. stressed [3273]. stresses [3184, 1299]. stressful [1568]. stressors [1498, 1170, 3310, 3018]. striata [3397, 2051, 2052, 3374, 2421]. striatus [3107]. strigata [2944]. string [1298]. Stringed [793]. strip [2766]. Striped [2971, 1888, 1477, 1972, 1730, 618, 2253, 2097, 660, 1781, 778, 3107, 2346, 2499, 852, 2561, 440, 2505, 90, 355, 2804, 3338, 3374, 2329, 2304, 3130, 1246, 1025, 2701]. Stripping [489]. Strombus [1720, 2221]. strong [2673]. Strongylocentrotus [2397, 1419, 1864, 1274, 3409, 1559, 968, 1280, 1650, 1149, 1341]. Structural [2377, 255]. Structure [490, 621, 901, 2519, 3050, 811, 1345, 1854, 1214, 1382, 1756, 1755, 1231, 3109, 1786, 1211, 1460, 845, 2046, 1154, 1275, 2660, 655, 293, 2304, 1948, 1947, 669, 386, 1761, 1451, 2165]. structured [1002]. structures [1701, 2564, 591, 2546]. Struthers [863]. Student [1412]. Studies [2758, 16, 571, 2527, 584, 2105, 549, 1793, 2342, 206, 623, 50, 26, 2946, 1233, 534, 1798, 1616, 803, 2966, 664, 85, 831, 3312]. Study [340, 1345, 962, 1362, 1737, 2100, 105, 473, 1104, 1232, 3311, 1976, 2673, 3034, 457, 2457, 953, 1015, 2061, 2139, 2990, 2458, 1262, 2833, 1529, 3041, 3331, 2492, 1242, 1740, 2718, 183, 3380, 113, 2197, 2142, 278, 1307, 1298, 1985, 1827, 977, 3185, 3399, 1651, 2316, 2788, 176, 2350, 2733, 2101, 1571, 917, 1073, 2103, 3173, 3120, 2176, 1065, 452, 963, 1087, 1620, 620, 1930, 1505, 3204, 594, 2965, 2241, 3356, 1979, 436, 537, 542, 1949, 2183, 1875, 3235, 2084, 1660, 1922, 3083]. stunted [1262]. sturgeon [1076, 2677, 2616, 2430, 2402, 1170, 1227, 1328, 1028, 1903, 1109, 2496, 994, 1094, 1848, 1247, 201, 1590, 875, 776, 1232, 750, 1857, 208, 2245, 2278]. stutzeri [1883]. Styela [1391, 1606, 1546]. styles [3302]. stylirostris [3092, 381]. Sub [683, 627, 2309, 809, 2265, 2679]. sub-adult [2309]. sub-inhibitory [2265]. Sub-systems [627]. sub-tidal [809]. sub-tropical [2679]. subjected [629, 1170, 2636, 312, 1723]. Sublethal [12, 1661, 3152, 2422]. submerged [904, 2687, 2754]. submersion [1174]. submitted [1138]. subsequent [280, 1012]. subsidized [1844]. subsp [3208, 2105, 2816]. subsp. [2406, 897, 1560, 1762, 2107, 1132]. subspecies [183]. subspecies-characteristic [183]. substance [3419]. substances [1490, 614, 259, 1959]. substantially [2479]. Substitute [1678, 3242]. substituted [3365]. Substituting [2570]. substitution [396, 1047, 1109, 1142]. Substrate [241, 865, 1134, 2488, 2367, 595, 830, 2076, 1243, 160]. Substrate-SDS-PAGE [160]. substrates [1532, 1401, 1856, 2207, 2536, 2267, 1104, 865, 2453]. subtidal [772]. subtilis [2037, 2904, 2169, 3060, 1048, 1137, 1449, 1757, 2470, 2598, 2322, 2689, 1063, 2151, 1873, 2105, 2964, 3290, 2082, 1966, 1883, 1731, 2167]. subtropical [2368, 3328]. subtype [2973]. Success [662, 2394, 286, 1472, 1624, 771, 1165, 1219, 1159]. Successful**

[345, 2852, 3416, 483, 2492, 1828]. Succession [2575, 1902]. successive [2103, 1761]. suckers [146, 145, 153]. suecica [818, 1461, 1823, 209, 2691]. sugar [2026]. Sugarcane [2626, 2488]. suggestions [2458]. Suitability [2257, 1380, 2777, 682, 1614, 85]. Suitable [743, 2168, 1973, 2424, 3048, 1401, 2268, 2450]. sul [3271]. Sulawesi [2126]. sulfate [2708, 473, 2213]. sulfated [1887, 2234]. sulfide [2398, 2228]. sulphur [1970, 306]. sulphur-oxidizing [1970]. Sumatra [2251]. Sumich [861]. summer [2916, 398, 1681, 432, 1650]. sunfish [874]. supended [401]. super [2441, 1902, 2303, 3321, 1689]. super-intensive [1902, 2303, 3321, 1689]. super-paramagnetic [2441]. superfamily [2116]. supernatant [2257]. superoxide [1649]. superzist [2008]. supplement [3232, 796, 266, 833, 3106, 2232, 3397, 2567, 3220, 3206, 2019, 2609]. supplemental [2526, 2045, 669]. Supplementary [1584, 579, 908, 1235, 1580, 2817, 1280, 1649]. Supplementation [2964, 2138, 1812, 2059, 2825, 1477, 1972, 2986, 1645, 3234, 1255, 2029, 3227, 2581, 1049, 2907, 2000, 1627, 1319, 1887, 827, 946, 2427, 2992, 1256, 3237, 3198, 1173, 3255, 2923, 1052, 2723, 2724, 2726, 824, 2345, 2073, 1217, 604, 1126, 1278, 1449, 1736, 2040, 1757, 2469, 3251, 2470, 3175, 2941, 1687, 2943, 3348, 346, 1254, 2955, 3122, 2806, 1432, 2079, 2608, 2302, 1719, 1199, 1316, 2304, 2815, 1437, 3199, 2701, 2751, 3210, 1662, 2892, 1517, 2893, 3202, 3134, 3081, 2898, 2824, 2644, 2167]. supplementations [2317, 820]. supplemented [1635, 3334, 2774, 1766, 1563, 1231, 1882, 3062, 1814, 1886, 2151, 1713, 47, 1200, 2179, 2880, 1374, 1966, 1486]. supplementing [3153]. supplements [2253, 3103, 2954, 204]. supplied [1991]. Supply [495, 1076, 687, 2591, 1083, 369]. Supplying [1733]. support [2907, 2951, 3146, 1414]. supporting [3171]. suppressed [2480]. suppressing [3026, 3229]. suppression [2900, 7]. suratensis [2228, 1516]. Suratthani [1786]. Suresh [1284, 1205]. Surface [60, 137, 3094, 2906, 2990, 2065, 370, 1287, 2082, 2243, 2754]. surfacing [2696]. surgery [2357]. Surgical [230, 1303, 776]. surmuletus [1730]. Surubim [2082, 1779]. surveillance [2233, 2737, 3171]. survey [499, 1557, 871, 1575, 2316]. survey-based [2316]. Survival [232, 1635, 500, 568, 235, 2838, 240, 426, 325, 1433, 493, 566, 233, 324, 237, 510, 516, 360, 2749, 2985, 1196, 2549, 731, 2614, 2139, 2646, 1354, 2063, 728, 2989, 3287, 749, 439, 460, 1119, 9, 70, 684, 946, 1100, 3041, 279, 472, 1122, 934, 2521, 3309, 1186, 1612, 350, 438, 458, 832, 816, 1256, 3052, 531, 1874, 257, 1703, 1043, 949, 2143, 1766, 2231, 1340, 3143, 1701, 1439, 1351, 752, 1266, 1487, 841, 757, 1958, 1642, 647, 2592, 2783, 2626, 633, 3289, 988, 65, 1162, 2786, 2852, 2202, 1473, 958, 2262, 2468, 2855, 631]. survival [1211, 1499, 1929, 3327, 805, 2628, 839, 2937, 935, 2444, 401, 2939, 1288, 1742, 1084, 722, 1630, 1796, 1823, 280, 501, 2867, 524, 1554,

**517, 518, 913, 1983, 2210, 181, 982, 3200, 373, 1928, 1601, 2636, 469, 464, 1559, 1842, 18, 921, 2298, 2383, 1200, 434, 1712, 331, 369, 2480, 2666, 1830, 702, 431, 968, 2611, 2963, 172, 641, 453, 1367, 3290, 580, 3253, 2305, 1795, 865, 1867, 3377, 724, 814, 1105, 1617, 1820, 208, 1190, 1618, 1794, 2455, 1035, 782, 1280, 1722, 831, 3033, 2432, 2196]. Survivorship [399]. Susceptibility [635, 2200, 2563, 1022, 3089, 3158, 2370, 2931, 1171, 2947, 2810]. susceptible [2248]. Suspended [1778, 1251, 282, 2916, 681, 370, 1703, 793, 383, 2741, 637, 873]. Sustainability [2665, 3090, 819, 2197, 2629, 740, 2264]. Sustainable [2984, 467, 2407, 3058, 2534, 2394, 2757, 2280, 3156, 3238, 3326, 1520, 3390, 2655, 3223, 529, 415, 1549, 709, 1204, 3397, 2862, 3285, 1031, 2510, 2568, 2077, 1111, 3374, 2272, 2961, 2513, 3256, 2640, 3294, 2669, 1051, 2186, 563, 274]. sustainably [1985]. sustained [3193, 195]. sustained-release [195]. sustaining [2746]. Suthers [864]. Svasand [307]. SVC [97]. Svennevig [274]. swamp [1468, 2596, 722, 3213, 3028, 1625, 2752, 3190, 2892, 1148, 1540, 2980]. swarm [1349]. swarms [1626]. Sweden [1382, 1264]. sweet [1989, 2026]. sweetness [1341]. sweetpotato [2479]. Swim [1932, 1084, 1208, 1928]. Swimbladder [1190, 960]. swimmer [1618]. Swimming [355, 1770, 3056, 1127, 935, 2380, 96, 1704, 1111, 2108, 1060, 2455, 1260]. switched [677]. SWOT [2250]. Syda [1284]. sylvestris [2000]. Symphodus [635]. Symphysodon [410, 2799, 850]. symposium [926]. symptoms [1377]. Synbiotic [2904, 3099, 2921, 1901, 3371, 3375, 3006, 2788, 2506, 2610, 2544, 2361, 2893, 3170, 1759, 2493]. synbiotics [2061, 2802, 3022, 2749]. Synchronization [1158, 2750]. Syndrome [569, 2645, 730, 1277, 1887, 3212, 2590, 2722, 1467, 2099, 2375, 2202, 3139, 894, 3010, 2939, 2014, 2471, 2563, 2946, 1773, 2953, 2018, 2805, 2154, 2637, 3410, 559, 1961, 1185, 1059, 1711, 2022, 1331, 1361, 2483]. Synechocystis [3212]. Synechogobius [2556]. Synergistic [3375, 2503, 2954]. synergistically [1952, 2970]. synergy [3208, 2663]. synspilus [1636]. synthase [2700]. Synthesis [812, 2319, 624, 2634, 3074, 611]. synthesized [3334, 3136]. synthetase [980]. Synthetic [570, 2827, 824, 703, 875, 2296]. System [627, 494, 2219, 2364, 54, 2903, 2424, 577, 3036, 1129, 2114, 3186, 3395, 947, 2426, 3401, 2907, 192, 2281, 2830, 1248, 1334, 1286, 2001, 1463, 1836, 1514, 827, 1001, 1529, 1960, 2285, 3099, 3281, 2521, 1558, 2401, 2654, 207, 358, 2717, 3101, 3179, 1532, 2838, 2839, 2464, 3315, 652, 2620, 1555, 2436, 1862, 1989, 1052, 2843, 2146, 2779, 2260, 3176, 3400, 1383, 3059, 2438, 709, 1391, 1606, 3371, 2172, 2377, 3109, 2855, 631, 3006, 2788, 1725, 1598, 2501, 2530, 520, 521, 3215, 1546, 2040, 3153, 1822, 1940, 1953, 2560, 1808, 613, 1593, 2352, 341]. system [1101, 2207, 1497, 3169, 602, 619, 2128, 3119, 2943, 1270, 15,**

**2505, 3168, 1495, 1893, 2076, 2506, 2567, 371, 2741, 2803, 2636, 1760, 3019, 790, 963, 1898, 1087, 2538, 3268, 2417, 1232, 3126, 2181, 2300, 626, 1365, 3023, 41, 1452, 3247, 3367, 2744, 1677, 3073, 2610, 1302, 2811, 834, 973, 2303, 3356, 1968, 44, 154, 1389, 2967, 2639, 2513, 1462, 2887, 2390, 2084, 2515, 892, 592, 3207, 1318, 2898, 3261, 3170, 2429, 2194, 1355, 2917, 2432, 2196, 2167, 2768]. systematic [2903, 2550, 2710, 1899, 2739, 3171, 2417]. systemic [2473]. Systems [516, 1746, 2394, 1015, 2708, 285, 77, 2334, 2064, 523, 470, 439, 2583, 2762, 548, 1709, 681, 2290, 3355, 3394, 2924, 390, 811, 1061, 1393, 660, 1259, 1168, 1889, 2555, 258, 1849, 2145, 2371, 2342, 3403, 3145, 1198, 1564, 3057, 1861, 388, 1526, 2784, 3399, 2468, 793, 2039, 2378, 627, 1308, 2410, 3066, 722, 2015, 1814, 3353, 333, 1368, 740, 2945, 74, 1983, 1825, 1811, 710, 1639, 3267, 2238, 1937, 763, 3370, 1426, 1107, 3328, 292, 1877, 1053, 1935, 3277, 2453, 1807, 1689, 3135, 1988, 3312, 3177, 1512, 2586, 1152]. Syzygium [2963].

**T [307, 449, 992, 1056, 1905, 2857, 1450, 2133, 164]. T-ISO [164, 1450]. T-KD [2857]. T. [692, 720]. T3SS [2244]. T4 [2782]. tabaci [2695]. tablet [2314]. Tachykinin [3291]. Tachysurus [1733]. tackling [2730, 1946, 1945]. tadpoles [2229]. tag [3278, 1273]. tagging [1053, 1931, 544]. tags [528]. Taguchi [3186]. Taguchi-based [3186]. tail [1358, 1077]. taimen [1739, 1617, 2514, 1739, 1617, 2514]. Taiwan [2254, 1513, 1298, 765, 1660]. Takifugu [2791, 3262, 496, 939]. Tama [2863]. Tamarindus [2273]. tambaqui [3095, 3287, 45, 2258, 2837, 2405, 2343, 2294, 2738, 2600, 2958, 2809, 2713, 1731, 2552, 2714, 3177, 2196, 2167, 2586, 2768]. tambatinga [2591]. tambroides [2424]. Tamil [713, 2947, 2953, 1183, 3368]. Tampa [158]. Tandem [3278]. tangs [1375]. tank [2833, 254, 1422, 3160, 1800, 3070, 1928, 61, 1617, 3235]. tank-reared [61]. tanks [2488, 5, 1567, 1110, 1066, 633, 1738, 199, 1508, 1881, 133]. tannin [2934, 2748]. tannin-based [2748]. tanninc [2923]. Tanzania [2046, 2599, 2961, 911]. Tapes [439, 541, 536, 951]. tapetis [635]. Taranto [1336, 543]. tarda [3182, 1548, 3278, 2273, 3078]. target [2763, 3176, 2940]. targeting [1402, 2840, 2684, 2158]. Taura [3010]. taurine [2019, 1350]. tauvina [739]. Taxonomy [374]. TCM [1238]. TCTP [2152]. TDA [3418]. TDA-GLM [3418]. tea [1135, 1662, 1405]. teaching [1414]. tech [3146]. Technical [1058, 1659, 1782, 1115, 1427, 1522, 3177]. technique [2708, 1303, 1514, 627, 339, 2477, 776, 1892, 121]. technique-type [1514]. Techniques [785, 2710, 1375, 970, 2006, 923, 938, 2777, 998, 830, 56, 3303, 1630, 686]. Techno [2348]. Techno-economic [2348]. technologies [1212, 1984, 2161, 725]. Technology [505, 2384, 1671, 2710, 2908, 2400, 1740, 3424, 981, 1202, 2435, 1289,**

**1259, 1381, 1379, 2347, 3108, 2500, 2596, 3330, 1768, 2794, 2562, 2237, 3285, 2636, 2178, 1946, 1945, 1620, 3125, 3272, 2301, 911, 2363, 2194]. tehuelche [332]. tehuelchus [332]. telemetry [53]. Teleost [484, 856, 1556, 2083, 990]. Teleostei [392, 1828]. Temminck [759]. TEMp [3208]. TEMp-D1 [3208]. temperate [1891, 453]. Temperature [471, 2206, 226, 2810, 219, 3144, 788, 2646, 1354, 2192, 825, 2989, 2990, 1690, 38, 2991, 3423, 340, 2916, 3164, 391, 1256, 784, 63, 1874, 2229, 12, 919, 404, 402, 883, 1118, 1472, 705, 351, 1351, 752, 897, 1609, 3184, 3352, 677, 1313, 2848, 1162, 720, 163, 2262, 976, 839, 1268, 3009, 3063, 3417, 2736, 771, 190, 3406, 186, 2103, 1952, 1359, 177, 181, 2048, 1928, 28, 76, 90, 1661, 2604, 2876, 644, 2809, 156, 311, 822, 672, 24, 3183, 453, 3138, 2054, 3192, 2025, 2546, 3174, 2978, 1698, 2163, 3319, 3218, 3083, 745, 3033, 2679]. temperature-control [788]. Temperature-induced [3144]. Temperatures [242, 519, 3091, 1720, 1566, 1164, 148, 1312, 1297, 2509, 172]. Temporal [2030, 106, 2261]. temporally [322]. ten [1693]. Tenacibaculum [693]. Tench [687, 600, 487, 598, 488, 599, 588, 684, 796, 595, 1340, 590, 583, 948, 587, 584, 596, 585, 1143, 1359, 591, 586, 594, 597, 668, 581, 593, 589, 592]. tension [57]. tension-recording [57]. tensions [1101]. Tenth [803]. Tenualosa [2780]. tenuiflorum [2114]. tenuistipitata [2759]. tenuistipitatum [2300]. Teod. [2707]. Term [218, 2825, 3401, 3231, 1309, 1173, 3333, 1239, 1472, 2845, 3167, 3417, 3409, 586, 1559, 17, 1221, 1504, 968, 2880, 1795, 593, 1021]. Terminalia [2844, 2502, 2150]. terms [2199]. Terrestrial [688]. terrestris [645, 2776, 3293]. Test [627, 4, 455, 583, 3007, 1263, 520, 521, 1548, 1832, 2153, 2157]. tested [586]. Testing [487, 2921, 1480]. testosterone [195, 3293]. Tests [675, 2464]. testudineus [2401, 3165]. tet [3271]. tetra [3246, 2340]. tetrachloride [1417]. tetrachloride-induced [1417]. tetrahele [2874]. Tetrahymena [2330]. tetrameric [2642]. Tetraodon [2936]. Tetraploid [1086, 2991, 1157, 2848, 1156, 2937, 2733, 324, 831, 3033]. tetraploidy [2320]. Tetraselmis [2033, 396, 818, 1461, 1823, 209, 2691, 2874, 175]. tetrasomic [1848]. tetrazona [2251, 2078]. Tex [2960]. text [3418, 862]. Textual [3420]. textural [557, 1657]. Texture [95, 3248, 1840]. tg [3174]. Thaibinh [1787]. Thaila [3224]. Thailand [3044, 640, 1786, 139, 1113, 19, 858, 491, 552]. thailandensis [1754]. Thalassiosira [958, 965]. thalli [3094]. Thau [144]. thaw [2852, 1219]. thebaica [2933]. Their [251, 1033, 1172, 1269, 2645, 1696, 500, 2140, 3163, 2067, 3182, 183, 1064, 203, 3244, 1844, 1996, 3313, 1066, 2932, 863, 864, 1127, 2627,**

**2731, 2316, 3136, 984, 2349, 2657, 3310, 2351, 2352, 585, 3243, 1741, 2946, 1994, 1332, 1661, 1639, 2877, 2078, 1987, 1112, 2540, 2419, 2134, 1809, 1544, 1788, 2109, 85, 1114, 1707, 2184, 1203, 2245, 2823]. thelycum [2103]. them [2224]. thematic [1407]. therapeutic [2090, 2605, 2154, 2612]. therapies [3102]. therapy [3350, 1916, 2565, 2176, 1078, 2807]. thermal [901, 773, 1588, 1827, 326, 2960, 1805, 2748, 1003, 1299, 1161]. thermally [1584]. thermodynamics [1045]. thermotolerant [1045]. thiamine [1328, 2890]. thickness [1856]. thin [2166, 2004, 2736, 3207]. thin-blade [2166]. thin-lipped [2004, 3207]. thinning [1136]. Third [785, 1283]. thraustochytrid [1545]. threat [2663]. Three [627, 482, 2164, 2579, 1085, 947, 2829, 2678, 439, 2225, 410, 1558, 84, 816, 113, 2927, 1565, 2465, 3054, 719, 1164, 3289, 1473, 1385, 2733, 2411, 3113, 359, 2504, 524, 1250, 2419, 127, 2967, 2057, 1752, 1728]. three-dimensional [2967]. three-spot [1473]. threonine [671, 1322]. throat [2084]. throughout [350, 1941, 2042, 1830]. throughput [2678]. Thunberg [460, 3241, 806]. Thunnus [1121, 1111, 1190]. Thymallus [2319]. thyme [3095, 3287, 1855, 2299, 1890]. thymol [2350]. Thymus [3095, 3287]. Thyroid [220, 996, 2782, 136]. thyroxine [2782]. tidal [2491, 802, 809]. Tidwell [1039, 1152, 1975]. tier [2857]. Tiger [245, 511, 2791, 233, 3159, 2078, 249, 866, 2759, 3395, 2063, 730, 1358, 1277, 2119, 2914, 2092, 13, 2312, 2842, 3143, 2726, 182, 1791, 1278, 1145, 1773, 2954, 1315, 2603, 559, 19, 952, 847, 1644]. tight [3274]. Tilapia [248, 2652, 222, 1556, 269, 2295, 2212, 241, 2244, 3034, 1812, 3087, 1957, 1033, 1448, 1888, 2900, 2705, 2901, 3357, 2755, 1015, 2395, 3219, 3201, 1058, 1763, 3234, 1194, 2425, 2904, 2090, 2645, 3232, 1531, 2114, 799, 2064, 145, 1679, 2118, 2909, 1319, 2649, 2001, 3158, 3339, 1000, 2285, 290, 3281, 2034, 3043, 1709, 1558, 3044, 2095, 2433, 84, 2716, 1829, 2404, 2918, 3182, 2919, 2993, 2769, 2717, 3049, 3101, 2005, 899, 2771, 301, 1764, 2718, 3051, 3286, 2370, 2461, 2588, 2995, 780, 1921, 178, 2773, 2838, 2839, 2464, 291, 3315, 3053, 1889]. tilapia [2144, 3191, 1440, 1515, 2071, 2169, 1640, 2344, 1188, 1792, 2125, 2098, 1641, 2930, 2622, 682, 3387, 3313, 189, 3106, 2728, 2782, 1501, 2931, 2438, 3399, 2172, 3375, 2376, 2627, 1442, 2074, 2012, 3007, 855, 853, 1181, 1765, 1453, 48, 3225, 3068, 1508, 2472, 3406, 1675, 333, 3197, 2473, 2046, 3348, 1631, 1447, 1893, 2951, 1714, 3150, 83, 371, 1478, 3122, 3259, 1760, 2178, 1300, 2605, 1287, 1562, 2662, 2663, 3020, 3021, 3413, 3364, 1372, 3267, 378, 442, 379, 1200, 1762, 906, 2959, 2299, 3125, 3272, 3216, 1138, 2180, 1339, 3024, 2569, 2541, 3273, 3252, 3329, 133, 3328]. tilapia [2880, 787, 834, 973, 2697, 1809, 1125, 1316, 854, 971, 3187, 3297,**

**2135, 3293, 1890, 1867, 2887, 1189, 1105, 1718, 1022, 2157, 1443, 1657, 1840, 3174, 2217, 2392, 2613, 3202, 1674, 1322, 1815, 3344, 746, 1728, 2248, 1444, 1237, 1759, 2917, 2066, 3100, 2653, 147, 2431, 3144, 3086, 1307, 650, 1833, 3259]. tilapias [48]. tilapiine [183]. TiLV [3259, 3007]. Time [2860, 1591, 1479, 605, 2677, 439, 3346, 2002, 546, 1655, 2928, 2343, 876, 2783, 3060, 1590, 1554, 964, 30, 2878, 2962, 3138, 3133]. Time-restricted [1591, 2343]. times [1164, 414, 538, 137]. timing [771, 2320, 1359, 814]. Tinca [588, 684, 687, 796, 600, 487, 595, 598, 1340, 590, 948, 587, 584, 596, 585, 1143, 591, 586, 488, 594, 597, 668, 581, 593, 589, 592]. Tiostrea [560]. Tisbe [122]. Tissue [1402, 2279, 3354, 2676, 2709, 901, 2336, 1000, 2651, 2433, 899, 2718, 3051, 3286, 1179, 196, 2624, 912, 3106, 2377, 2075, 2564, 2694, 2326, 898, 1978, 930, 2670, 2889, 2818, 1035, 1106, 1139, 3319, 3218, 1649, 2486]. tissue-specific [2670]. tissues [2828, 856, 3045, 1329, 2319, 2473, 797, 2603, 1711, 2242, 2307]. titer [1301]. Tithonia [2017]. tlh [3271]. TLR [2404, 2595]. TLR1 [2595]. TLR2 [2595]. TMT [3278]. TNET [1416, 1407, 1413, 1408, 2133, 1412]. TNF [2826]. TNF-$\alpha$[2826].Tocher[956].tocopherol[784, 767, 331, 116].tocopheryl[767].TOF[3040, 3138].together[292

**ubiquitin [2440]. UDFishNet [3262]. UISS [3000]. UISS-Net [3000]. UK [489, 552, 565, 553, 2224, 3166, 20]. ulcer [3296]. ulceration [2038]. ulcerative [2645]. ultra [2477, 674]. ultra-freezer [2477]. ultra-violet [674]. ultrasonographic [2653]. Ultrasound [1214]. ultrastructural [2676, 2709]. ultrastructure [901]. Ultraviolet [218, 219]. Ultraviolet-A [218, 219]. Ulva [1356, 1248, 1913, 780, 3105, 1141, 2497, 3109, 2501, 1819, 3419, 2803, 2876, 1535, 3126, 514]. ulvan [1819]. Ulvella [1347]. umbra [2532]. Umbrina [1020]. Uncertainties [414]. uncertainty [2504, 2239]. Unchanged [2983]. uncontrolled [906]. Undaria [1103]. undatum [517, 518]. under-sized [536]. undergoing [1119, 674]. underlying [3132]. Understanding [2372, 747, 1746, 1905]. Underwater [3056, 2982, 2520, 3000, 2857, 3262, 2976, 3000]. undesirable [1693]. unequals [768]. Uneven [2125]. unexercised [29]. unexplained [1969]. Unio [2365]. Union [2203]. Unique [447, 2260]. United [617]. unlocking [3295]. Unraveling [3012]. unravels [3132]. unsaturated [934, 994]. unsuccessful [1828]. unsustainable [2873]. unveil [2721, 3412]. Unveiling [3120]. update [188]. updated [3270, 3025, 2760]. UPLC [2845]. upon [2828, 1626, 1895, 918, 1167]. upregulates [2473]. Uptake [1594, 2100, 1984]. upwelling [1703]. Urban [2690, 158, 625]. urchin [2397, 561, 1611, 1610, 1419, 2231, 184, 1864, 1274, 2043, 3409, 2508, 1767, 1559, 968, 1366, 2972, 697, 1633, 1280, 1318, 1149, 1341].**

**urchins [192, 399, 2978, 1650]. urea [400]. urine [1066]. urmiana [1063]. urolepis [2782, 1508, 3024]. Urophycis [629]. Uroteuthis [2680]. US$ [553]. USA [159, 1853, 278, 809, 2321, 808]. Usage [2018, 3243]. Use [69, 344, 1303, 192, 1673, 3095, 3287, 3040, 2253, 13, 196, 757, 853, 87, 829, 1777, 2877, 2608, 3022, 1452, 1036, 1089, 1366, 3301, 2653, 1545, 1915, 947, 16, 1603, 1672, 2368, 2654, 2655, 3223, 350, 842, 2145, 1307, 1521, 1002, 1725, 1598, 3114, 917, 96, 2016, 1131, 2870, 2871, 1386, 83, 1332, 494, 634, 2477, 1623, 1528, 400, 2267, 20, 835, 3307, 1892, 1414, 2275, 2329, 3279, 1466]. used [1075, 1068, 1084, 1902, 1825, 2536, 1717, 2883, 491]. useful [1197, 2360]. Using [2990, 1568, 531, 3106, 2627, 2175, 1107, 628, 483, 1203, 3133, 2713, 3357, 1479, 2707, 4, 3232, 3186, 2906, 2251, 3246, 2677, 1281, 2830, 890, 2762, 3346, 2001, 942, 1859, 796, 2140, 2065, 2337, 3042, 1743, 1402, 1740, 3047, 3050, 301, 966, 2314, 1086, 2556, 94, 833, 2776, 2777, 2778, 998, 2623, 1810, 56, 515, 1291, 388, 168, 1160, 199, 2529, 1819, 2732, 1156, 2596, 1349, 1953, 2792, 2235, 3115, 2794, 1585, 3148, 3117, 576, 1506, 433, 2046, 2946, 389, 2047, 3016, 337, 2296, 371, 2178, 2416, 1594, 1287, 790, 559, 2695, 1502, 1712, 961, 1232, 2299, 3022, 3209]. using [2879, 2697, 2241, 3356, 185, 2881, 1570, 1158, 1246, 581, 874, 893, 2453, 1146, 2085, 2982, 1352, 2194, 1831]. ussuriensis [1716]. Utilisation [226, 846, 1580, 312, 766, 1942, 2456]. Utilising [2216]. Utility [967]. Utilization [1907, 64, 540, 221, 3358, 1020, 2986, 2827, 2614, 799, 882, 1716, 909, 780, 1766, 1340, 1563, 1047, 1141, 2344, 1552, 1706, 2847, 1364, 2686, 1040, 3264, 1265, 2012, 3008, 1699, 3419, 550, 606, 342, 1687, 268, 1026, 1208, 90, 2358, 1200, 3165, 837, 2611, 2542, 3130, 2970, 3199, 685, 914, 940]. Utilizing [1375, 3068, 3014, 2254, 2733, 3141, 3280]. UV [3181, 1861, 1156]. UV-A-induced [3181]. UV-irradiated [1156].**

**V [2232, 692, 374, 2105]. V. [3271, 3276, 2461, 915]. vaccinate [87]. vaccinated [2098, 2180, 1333]. Vaccination [39, 1638, 2189, 1140, 2556, 2498, 2173, 359, 1974, 1872, 2568]. vaccine [2756, 1993, 2846, 2783, 2684, 1919, 894, 3068, 2796, 1872, 2473, 3162, 1732, 3381, 3338, 1809, 3128, 3029]. vaccines [2755, 855, 2324, 2446, 2613, 2895]. vachelli [2287]. vachellii [3076]. vacuum [1920]. vacuum-packaged [1576]. vacuum-packed [1920]. Valenciennes [1792, 697, 1698]. Valenti [366, 1039]. validate [3302]. Validation [1848, 2471, 2140, 2328]. Valle [3300, 2036]. valorise [1203]. valorization [2280]. valuable [2414, 3385, 3366, 1579, 2510, 1524]. valuation [1985]. Value [3368, 2249, 2549, 1531, 430, 1529, 1923, 1081, 456, 1066, 3397, 1791, 809, 2102, 1258, 1390, 1191]. values [1869, 2341, 2199, 414, 2853, 2854, 1548, 1390]. valve [1305].**

**vannamei [1555, 2593, 891, 3085, 2364, 2675, 2548, 2549, 1907, 2828, 3227, 2581, 1619, 1290, 1904, 1652, 3359, 2830, 3391, 1248, 1334, 2032, 1119, 764, 1463, 1817, 1384, 1678, 2428, 2992, 1011, 3099, 2311, 3212, 2835, 3198, 2770, 2434, 3393, 3334, 1173, 2921, 1567, 2096, 2719, 2435, 2313, 1396, 1992, 1289, 1259, 1381, 1379, 2259, 1860, 2143, 1676, 1784, 1052, 883, 1538, 2997, 2844, 2682, 1023, 944, 824, 1198, 3400, 3059, 2683, 2232, 2593, 1706, 2847, 2626, 1827, 1654, 1664, 1855, 2786, 2202, 2347, 3139, 3167, 1614, 2731, 2316, 2500, 3006, 2788, 1598, 2317, 2530, 2205, 2732]. vannamei [894, 1268, 3112, 525, 1324, 1822, 2100, 2469, 3064, 2939, 2560, 2860, 1460, 2318, 2207, 3340, 3242, 2598, 2322, 2533, 3119, 2943, 2689, 524, 2475, 1886, 3154, 389, 2076, 2506, 1019, 3146, 373, 2953, 2018, 2049, 3017, 1994, 2802, 3245, 2803, 3019, 3307, 3257, 2537, 1880, 1620, 1502, 331, 2239, 2511, 763, 2666, 3022, 2300, 1452, 2021, 2609, 2106, 2610, 2107, 2182, 1302, 1036, 1877, 522, 526, 2303, 1389, 1570, 971, 1374, 1711, 2449, 3279, 1962, 3368, 891, 2022, 1331, 2749, 1966, 2483, 2422, 2453, 2670, 2545, 3077, 2890, 2574, 3388, 2057, 2819, 3189, 735, 782, 2112, 1613]. vannamei [1722, 1976, 2821, 1021, 3083, 1424, 2333, 1397, 3170]. var [1595, 3132]. var. [2257, 1383, 2592, 3153, 2352, 1495, 2047, 3398]. varia [1597]. variabilis [2240]. variability [106, 2097, 583, 1737, 1943, 1107, 2667, 787]. variable [2707, 436]. variables [2091, 779, 1723]. variance [155, 617]. varians [732, 628]. Variation [81, 46, 1273, 300, 460, 84, 818, 954, 2528, 168, 2501, 1244, 1681, 2939, 884, 702, 2055, 2980, 147]. Variations [3353, 2147, 2876, 92, 3335, 873]. varied [2993, 3165]. variegatus [561, 902]. varieties [2522, 168, 2799, 1760]. variety [1269, 1335, 2819]. Various [243, 513, 64, 885, 3334, 178, 200, 2339, 3053, 2346, 3005, 1741, 1639]. Varunidae [2563]. varying [3096, 801, 1340, 623, 1312, 2601, 1200, 630]. vB_Vp_PvVp04 [3254]. VBE [3348]. vector [3007]. Vegetable [789, 1109, 3006, 2877, 3209, 1366, 1029]. vegetable-based [3209]. vegetables [1951]. vegetal [2536]. Vegetative [567]. vehicle [3381]. veined [1698]. velifera [2872, 2872]. veliger [1178, 2467]. veligers [2221]. velocity [3248, 986, 1127]. velvet [3348]. Veneridae [2093]. Venerupis [772]. Venezuela [323, 401]. Venice [951]. venom [2634]. venom-mediated [2634]. venosa [1698]. ventilatory [2962]. ventricosus [2445]. venturi [2084, 2515]. Venus [1279]. vera [1638]. Verasper [902]. Verbenaceae [2650]. vermicompost [1795]. veronii [1986, 2547, 2645, 2584, 2994, 2073, 3029, 2613, 2644]. verrucosa [1772]. versatile [2174]. versus [1532, 3172, 520, 521, 2597, 524, 1880, 1007, 646, 2167]. vertebra [1566]. vertical [3055, 2076, 2639]. verticillioides [3059]. vesicle**

[1328]. vesiculosus [1715, 1882]. vessel [639]. vessels [2912, 2542]. veterinary [1283]. VGG16 [3387]. VHSV [33, 2783, 1301, 2691]. vi [1975, 544]. VI-alpha [544]. via [2911, 2763, 2404, 2935, 2936, 2265, 3418, 3026, 1809, 1544, 2750, 2113]. Viability [209, 1961, 2223, 1817, 266, 3386, 1004, 888, 886, 2528, 916, 2785, 2293, 771, 382, 3150, 1620, 1876, 1981, 3177, 1355]. viability/profitability [1004, 888, 886]. viable [1156, 1623]. vibration [2153, 3174]. vibrio [259, 2028, 2755, 2985, 1479, 2089, 3089, 2758, 2828, 3395, 2581, 1619, 635, 42, 2763, 1384, 2916, 1780, 2587, 2993, 2836, 3198, 2434, 2461, 2463, 2522, 2556, 2143, 1676, 2842, 1563, 2844, 2147, 2625, 915, 2683, 2038, 2786, 1441, 3343, 1806, 2442, 1548, 1757, 2735, 2206, 1833, 3340, 1429, 2324, 1872, 2947, 1732, 1704, 2176, 3200, 1184, 2049, 2802, 465, 3254, 739, 1087, 2480, 1493, 941, 3026, 1132, 1962, 950, 2749, 1182, 1966, 2483, 936, 1438, 2484, 2974, 1403, 2057, 2161, 2112, 2308, 2895, 1260, 2821]. Vibrionaceae [3038]. vibriophage [3254]. vibrios [1639]. Vibriosis [2461, 2189, 1801, 2827, 2426, 946, 2618, 2998, 1872, 2214]. Vicia [1496]. vicious [787]. Video [2233]. VIE [1053]. Vieja [3011]. Vietnam [2759, 2990, 751, 1648, 2378, 1787, 3120, 1378, 952, 1788, 1246, 1394, 2971, 2669]. Vietnamese [1950, 2227, 1150]. view [277]. vigor [2785]. vigour [935]. village [2197]. villages [911]. violet [674]. Viral [2119, 2354, 2115, 2459, 2840, 2783, 2375, 1301, 1974, 2946, 1605, 1797, 2967, 2135, 1868, 2571, 1705]. viremia [97]. virginalis [1370]. virginica [809, 1433, 808]. viridis [3395, 2266]. Virulence [2613, 3035, 1790, 3089, 3271, 2487, 1780, 2003, 2338, 2370, 2147, 2206, 2947, 2484]. virulent [2158]. Virus [569, 3259, 3228, 730, 3389, 1277, 3158, 1887, 3212, 1993, 2590, 2722, 1467, 2099, 2783, 1664, 1855, 2375, 2202, 1301, 3139, 3007, 2126, 1806, 894, 3010, 2939, 140, 2014, 2563, 2797, 2946, 1773, 2048, 2805, 2154, 2478, 2637, 3410, 559, 2212, 1371, 2131, 2213, 1961, 1010, 1185, 1059, 2081, 1711, 2022, 1331, 1361, 2483, 2888, 2704, 3084, 1397, 2471]. virus-infected [1664, 1855]. viruses [1476]. viscera [2554, 846, 3142]. viscosa [1993]. Visible [1053, 2251, 1624]. vision [2915, 2928, 3056]. vision-based [2915]. Visual [167, 3118, 2158, 2030]. vital [2223]. vitality [113]. Vitamin [2795, 112, 1443, 2705, 3219, 3201, 3355, 406, 1642, 2438, 3264, 2441, 1244, 525, 359, 78, 982, 3122, 3273, 3027, 436, 2668, 1657, 2760]. Vitamins [239, 3276, 359]. Vitexin [2681]. vitrification [1817, 2852]. vitro [3203, 1621, 174, 1851, 2282, 2763, 266, 2067, 301, 2463, 1821, 2465, 2528, 2631, 2381, 1936, 1866, 1616, 733, 1223, 746, 2350, 2946, 594, 2967]. vivax [2901]. vivo [3203, 255, 2763, 2914, 2463, 2840, 1821, 1263, 855, 2148, 2631, 2270, 1866, 1361, 2873, 3410, 594, 3249]. vlkianum [784]. VNN [1974]. voice [3387]. vol [887]. volatile [1615, 1802]. volatility [3193].

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