

Author Index

- Acredolo, L. P., 83, 84
Ainsworth, M. D., 332, 339
Ajuriaguerra, J. de, 245
Allen, R. M., 273
Alley, G., 279, 280
Allport, G. W., 190
Alpern, G. D., 94
Als, H., 359
Anastasi, A., 61
Anderson, W., 255
Angrist, B., 255
Annell, A., 245, 253
Anthony, J., 115, 116, 120, 169
Anton-Tay, F., 257
Arbit, J., 254
Arciszewski, R. A., 279, 280
Arnold, L. E., 248
Aug, R. G., 118

Baer, D. M., 295
Baker, R., 128
Balázs, R., 257
Ball, W., 78
Ban, T. A., 258
Bandura, A., 295
Bartholomews, B., 157
Bartoshuk, A. K., 77
Bateman, B., 282
Bateson, M. C., 146
Baumrind, D., 187, 193, 198, 205
Bayley, N., 100
Beery, K. E., 113

Bell, S. M., 147
Bellugi, U., 156
Bender, L., 117, 121, 125, 244, 245, 248, 252
Benedict, R., 195
Bennett, E. L., 35, 38
Bennett, R. M., 279
Benson, K., 81
Bergman, P., 115, 116, 117, 120
Berman, P. W., 82
Berry, J. W., 187
Bettelheim, B., 320, 355, 358
Bever, T., 154
Bijou, S. W., 60
Bizzi, E., 123, 127
Blakemore, C., 40
Bloom, L., 152
Borther, M., 276, 277, 281
Bosma, J., 69
Boullin, D. J., 255, 257, 260
Bower, T. G. R., 78
Bowerman, M., 153
Bowlby, J., 332, 339
Boyd, L., 273
Bracht, G. H., 283
Bradley, C., 248
Brambilla, F., 255
Brassell, W. R., 65, 72, 73
Bronson, W. C., 205
Brown, C. P., 38
Brown, J., 71

Brown, R., 152
Bruner, J. S., 78
Bryson, C. Q., 107, 321
Bucher, B., 298
Buckland, P., 279
Burk, H. W., 251
Butcher, L. L., 254
Byrne, D., 200

Campbell, J. D., 209, 245
Campbell, M., 247-252, 254-257, 260
Campos, J. J., 79
Cavior, N., 187
Cawley, J. F., 273
Cerletti, V., 245
Champlin, J., 324
Chandler, M. J., 169
Chittenden, G. E., 214
Churchill, D. W., 95, 98, 107, 362
Clark, E., 150, 155
Cleckley, H. M., 258
Colbert, E. G., 118, 122, 124
Coleman, J. S., 213
Coleman, M., 254, 260
Coleman, R. W., 119
Collins, W. E., 122, 123
Connors, C. K., 246
Cook, W. S., 125, 126
Cooley, C. H., 193
Cooper, B., 316
Coopersmith, S., 193, 195

- Corah, N. L., 273
 Corso, J. F., 51
 Corson, S. A., 248
 Costin, A., 129
 Cowles, J. D., 279
 Cragg, B. G., 34
 Crandall, V. C., 213
 Crane, G. E., 247
 Crawley, J. F., 280
 Creak, M., 119, 244, 347, 361
 Cromer, R., 158
 Cummins, R. A., 38
- Danziger, L., 256
 Davids, A., 211
 Dayton, G. O., Jr., 77
 DeHirsch, K., 277, 278
 Demott, R. M., 157
 DeMyer, M. K., 94, 95, 98, 99, 106, 107, 113
 Dennenberg, V. H., 54
 Deregowski, J. B., 88
 Dews, P. B., 40
 Diamond, M. C., 34, 37
 Dichgans, J., 129
 Diete-Spiff, K., 126
 Dijkgraaf, S., 125
 DiMascio, A., 247
 Dix, M. R., 122, 123
 Dore, J., 151
 Dostal, T., 253
 Doxiadis, S., 332
 Dunn, L. M., 100
 Durell, J., 255-257
 Dutton, G., 247
 Dyson, W. L., 253
- Eagles, F. L., 77
 Eayrs, J. T., 257
 Ebel, R. L., 285
 Eberhardy, F., 349
 Ebihara, T., 86
 Effron, A. S., 247
 Eiduson, S., 23, 28
 Eimas, P. O., 61
 Eisenberg, L., 244, 246, 247, 359
 Ekstein, R., 312, 314, 315, 317
- Elkind, D., 173, 178
 Engelhardt, D. M., 250, 251
 Erikson, E. H., 192, 311, 312
 Ervin-Tripp, S., 153
 Everett, G. M., 254
- Falik, L. H., 280
 Fantz, R. L., 77
 Fassler, J., 321
 Faustman, M. N., 280, 281
 Feldmesser-Reiss, E. E., 256
 Ferchmin, P., 39
 Ferster, C. B., 292, 294, 295, 358
 Feshbach, S., 195
 Finley, G. F., 213
 Fish, B., 246-248, 250, 251, 253
 Fitzgerald, H. E., 68
 Flavell, J., 169
 Fleischman, E. A., 272
 Forgays, D. G., 34
 Forgone, C., 279
 Fortenberry, W. D., 279
 Fox, W., 250
 Frankenburg, W. K., 100
 Freedman, A. M., 252, 253
 Freedman, D. G., 358
 Freeman, R. D., 42, 247
 Freeman, W., 245
 Freer, F. J., 282
 Freud, A., 175, 314
 Freud, S., 175, 192, 312, 314
 Frith, U., 116, 121, 321, 322
 Frommer, E., 245, 249, 253
 Frostig, M., 272, 278, 279
 Furth, H., 157
- Gallagher, J., 320
 Gallant, D. M., 250, 251
 Ganz, L., 40
 Gardner, E. D., 126
 Garrison, E. B., 280
 Gershon, S., 249
 Geschwind, N., 149
 Gesell, A. L., 100
- Getman, G. N., 278, 280, 281
 Geyer, M., 25
 Gibson, J. J., 81, 85
 Gilhool, T., 328
 Gjessing, R., 255, 256
 Globus, A., 37
 Gold, H. A., 209
 Goldfarb, W., 115-117, 119, 120, 244
 Goodman, L., 272, 275, 277, 280, 281, 285
 Goodwin, F. K., 254
 Gorman, J. J., 77
 Gottesman, M. A., 157
 Graham, F. K., 78
 Gram, L. F., 253
 Green, A. H., 118
 Greenbaum, G. H., 258
 Greenfield, P. M., 150, 152
 Gurewitz, S., 245
- Halliwell, J. W., 280-281
 Hamburg, D. A., 206
 Hamnull, D., 272, 273, 276, 279, 281
 Harlow, H. F., 203, 206
 Harris, D. B., 60
 Harris, F. R., 214
 Harris, J. G., 195
 Hartlage, L. C., 247
 Hartshorne, H., 195
 Hartung, A., 324
 Hartup, W. W., 197, 205, 206, 208, 211-213
 Hatwell, Y., 86
 Heathers, G., 204
 Hebb, D. O., 34
 Heine, E., 313
 Helper, M., 247
 Hendrey, B. C., 281
 Hermelin, B., 116, 119, 121, 160, 321, 322
 Herzog, E., 177
 Hetherington, M., 206
 Heuyer, G., 245
 Hewett, J. M., 294, 301
 Hewitt, F., 324
 Hicks, D. J., 208
 Hiers, M. H., 280
 Himwich, H. E., 259

- Hingtgen, J. N., 95, 113
 Hirsch, H. V. B., 40
 Hochberg, J., 88
 Hoffer, A., 258
 Hoffman, M. L., 188, 195, 198
 Holden, R., 44
 Hoskins, R. G., 255, 256
 Hubel, D. H., 40
 Hudson, W., 88
 Hutt, C., 117, 119, 322
 Hutt, S. J., 67
 Hruska, K., 80
 Hymovitch, B., 34
- Irwin, D. M., 209
 Irwin, O. C., 148
- Jack, L. M., 214
 Jackson, R., 283
 Jacobs, J. N., 279, 280
 Jakobson, R., 149
 Janssen, D. R., 282
 Jay, P., 206, 208
 Johnson, M. S., 283
- Kaas, J. H., 42
 Kagan, J., 57, 148, 176, 195
 Kalil, R., 42
 Kandel, D., 211
 Kanner, L., 93, 244, 320, 349, 353, 359
 Kaplan, E. L., 146, 148
 Karp, E. J., 73
 Katz, H. A., 195
 Kaye, H., 65, 69-71
 Kaye, K., 358
 Keasey, C. B., 209
 Keim, R. P., 280
 Keogh, B. K., 277, 278
 Kephart, N. C., 272, 278, 279
 Kety, S. S., 260
 Kilbride, P. C., 88
 Kibler, R. T., 283
 King, R. D., 340
 Kinsey, A. C., 207
 Klaus, R. A., 210
 Klein, D., 249
 Klein, G. S., 176
 Knapp, S., 22, 26-28
- Kobasigawa, A., 208
 Koegel, R. L., 299, 305, 307
 Koegler, R. R., 351
 Kohlberg, L., 169, 191, 209
 Kolvin, I., 119
 Kornhuber, H. H., 126
 Kraft, I. A., 252
 Krantz, J. C., 245
 Krech, D., 39
 Krievall, T. E., 283
 Kuczenski, R., 26
 Kurtis, L. B., 249
 Kyser, J., 349
- Lackner, J. R., 159
 Lapin, I. P., 259
 Lasky, R. E., 80
 La Torre, J. C., 37
 La Veck, G. D., 252
 Lawrence, D. H., 306
 Lenneberg, E., 61, 158
 Lenzi, G. L., 126
 Le Vann, L. J., 251, 252
 Lewin, K., 214
 Lewis, J. N., 279
 Lewis, M., 148
 Lidz, T., 355
 Lilly, S. M., 282
 Lindzey, G., 207
 Linn, S. H., 279
 Lipman, R. S., 247, 250
 Lipsitt, L. P., 65, 70
 Lipton, E. D., 280
 Lipton, M. A., 259
 Little, A. H., 65
 Llinás, R., 128
 Lohoda, G., 88
 Loranger, A. W., 254
 Lovaas, O. I., 115, 295, 298-302, 304, 321
 Lovibond, S., 355
 Lundin, R. W., 194
 Luria, A., 320
 Lurie, L. A., 212
 Lynn, D. B., 208
- Mc Andrew, J. B., 247
 McBeath, P. M., 279, 280
 McCandless, B. R., 187, 192, 198, 212, 213
 McCann, S., 257
- Maccoby, E. E., 204
 McGrath, S. D., 258
 McKinney, J. P., 87
 McLuhan, M., 348
 MacNamara, J., 162
 McNeill, D., 152
 McRaney, K. A., 280
 Madsen, M. C., 186
 Mahler, M., 312
 Mann, L., 272
 Marchiafava, P. L., 127
 Markham, C. H., 127, 129
 Martini, L., 247
 May, J., 349
 Mead, G. H., 193
 Megirian, D., 126
 Menninger, K., 350
 Menyuk, P., 149, 154, 160
 Metz, J. R., 295
 Miller, A., 324
 Mischel, W., 195
 Mize, R. R., 41
 Mollgaard, K., 37
 Moniz, E., 244
 Moore, O. K., 325
 Moreno, J. L., 196
 Morrison, A. R., 127
 Morse, P., 146, 162
 Mosher, L. R., 258, 367
 Mould, R. E., 279, 280
 Muir, D. W., 41
 Mundy-Castle, A. C., 88
 Murphy, D. L., 254, 260
 Myers, D. I., 355
- Nakamura, C. Y., 195
 Nakazima, S., 148
 Nelson, K., 149-151
 Newcomer, P. L., 282
 Ng, K. Y., 254
 Nordquist, V., 325
- O'Brien, C. P., 254
 O'Connor, C., 279, 280
 O'Connor, N., 115
 Oettinger, L., 251
 Ohnmacht, F., 273
 Okada, D. M., 280, 281
 Ora, J., 325, 366
 Ornitz, E. M., 115, 116, 118-121, 123, 124, 322, 355, 359

- Osmond, H., 258
 Osofsky, J. D., 359
 Ottinger, D. R., 116
- Page, M. L., 214
 Papaioannou, J. N., 129
 Papousek, H., 68
 Park, C., 349
 Parke, R. E., 359
 Parten, M. B., 212
 Patterson, G. R., 206, 214
 Pauling, L., 257
 Peel, E. A., 173
 Peller, L., 313
 Persky, H., 255
 Pettigrew, J. D., 41
 Piaget, J., 60, 149, 158, 167, 168, 171, 174, 176, 209, 213
 Pick, A. D., 77, 88
 Pick, H. L. Jr., 77
 Piggott, L. R., 244
 Pilkington, T. L., 252
 Pittfield, M., 355
 Pollack, M., 122, 249
 Pollack, R. H., 79
 Polizos, P., 247
 Pompeiano, O., 128
 Popham, W. T., 283
 Porteus, B. D., 209
 Prange, A. J., 255, 256
 Premack, D., 160
 Pribram, K., 320
 Proger, B. B., 284
 Provence, S., 119
 Pryzwanski, W. E., 280
- Quigley, S. P., 156
- Ramsey, R. A., 258
 Rapaport, D., 176
 Rardin, D. R., 213
 Reese, H. W., 63
 Reichler, R. J., 347, 349, 355, 356, 359, 361, 362, 364, 368
 Reiss, M., 255, 256
 Reschly, D. J., 195
 Riege, W. H., 37, 39
 Rimland, B., 244, 258, 320, 351, 355
 Risley, T., 298, 302, 324
- Ritvo, E. R., 122, 254, 255, 257, 260
 Ritvo, S., 116
 Roff, M., 198, 208, 210, 212
 Rollins, H. H., 188, 195, 199
 Rolo, A., 252
 Rosen, C. L., 279
 Rosenzweig, M. R., 34, 38, 45
 Rosman, B., 355
 Rosner, B. S., 45
 Rothbart, M. K., 208
 Rotter, J. B., 190, 193, 195
 Rubin, K. H., 213
 Ruttenberg, B. A., 244
 Rutter, M., 160, 231, 244, 326, 332, 334, 342, 343, 350, 359
- Sabatino, D. A., 282
 Sachar, E. J., 255
 Safer, D. J., 247
 Sakel, M., 245
 Sala, O., 127, 128
 Sameroff, A. J., 73
 Sayegh, Y., 340
 Scarr, S., 205
 Schaffer, H. R., 340
 Schaie, K. W., 62
 Schain, R. J., 254, 257
 Schapiro, S., 257
 Schaub, C. L., 247
 Sheard, M. H., 253
 Scheibel, A., 128
 Schilder, P., 125
 Schildkraut, J. J., 260
 Schlesinger, I. M., 152
 Schmitt, P., 156
 Schon, M., 253
 Schopler, E., 115, 121, 322, 325, 347, 352, 355, 356, 359, 361, 362, 364
 Schreibman, L., 305, 306
 Schulman, J. L., 356
 Schwartz, A. N., 79
 Schwartz, S., 43, 45
 Segal, D. S., 27, 28
 Segall, M. H., 87
 Semmel, M. I., 159
 Shelton, J., 211
 Sherif, M., 211, 214
- Sherk, J. K., 279
 Sherman, L., 247
 Sherman, S. M., 42
 Sherrington, C. S., 66
 Sherwin, A. C., 256
 Shlager, N., 178
 Shore, M. F., 197, 199
 Silver, A. A., 247
 Simeon, J., 251
 Simmons, J. Q., 252
 Simon, G. B., 247
 Simpkins, J. K., 279
 Simpson, G. M., 251, 256
 Singer, M., 355
 Siqueland, E. R., 68
 Skinner, B. F., 187, 189, 193, 199
 Skynner, A. C., 252
 Slobin, D. I., 145
 Snyder, S. H., 248
 Sokoloff, L., 257
 Sorosky, A. D., 117-119
 Spiegel, E. A., 129
 Spinelli, D. N., 41
 Spitz, R., 28
 Sprague, R. L., 246, 247
 Staats, A. W., 60
 Steinschneider, A., 77
 Stengel, E., 350
 Stern, D., 358
 Strain, P. S., 326
 Strauss, J. S., 350
 Stroh, G., 115
 Stutsman, R., 108
 Sugerman, A. A., 251
 Sullivan, H. S., 169, 192
 Sullivan, J. L., 28
 Suomi, S. J., 215
 Swazey, J. P., 66
 Swets, J. A., 51
- Taft, L. T., 66
 Tate, B. G., 298
 Taylor, K. N., 248
 Telford, C. W., 157, 162
 Terman, L. M., 100, 212
 Thoenen, H., 27
 Tizard, B., 336, 337
 Tizard, J., 333, 334, 336
 Tjernström, O., 128

- Tonkova-Yampolskaya, R. V., 148
148
Tower, D. B., 45
Tronick, E., 358
Tupin, J. P., 253
Turkewitz, G., 67
Turner, R. V., 280
- Van den Munckhof, H. C. P., 212
Von Holst, E., 125
Vygotsky, L. S., 169
- Wahler, R. G., 214
Waizer, J., 251
Walsh, R. N., 37
Ward, A. A., Jr., 45
Warren, D., 86
Watson, C. W., 45
- Waugh, R. P., 282
Wechsler, D., 100, 108
Weir, M. W., 173
Weischer, M. L., 253
Wells, A. M., 45
Wender, P., 364
Wendt, G. R., 122
Werner, H., 155
Werry, J. S., 247
West, R. W., 37
Weymouth, F. W., 77
Whitehead, P. L., 253
Wiederholt, J. L., 279, 280
Wild, C., 355
Wiley, W. R., 27
Willems, E. P., 198
Williams, J. M., 245
Wilson, I. C., 256
Wilson, L., 349
Wilson, M. B., 256
- Wimsatt, W. R., 280
Wing, L., 160, 322, 368
Witkin, H. A., 85, 176
Wittenborn, J. R., 258
Wohlwill, J. F., 60
Wolf, M. M., 294
Wolfe, J. W., 128
Wolfensberger, W., 356
Wolff, P. H., 65
Worchel, P., 86
Wycis, H. T., 128
Wylie, R., 192
- Yarrow, L. J., 337
Yoder, D. E., 159
Yonas, A., 78
Ysseldyke, J., 282, 283
- Zeigler, H. P., 77

Subject Index

- Acetylcholinesterase (*See* Brain enzymes)
- Adaptation, 2-3, 55-56, 64-65, 136-137
- Adoption, 331-332
- Adrenergic system (*See* Catecholamine system)
- Aggression and socialization, 206-207, 237 (*See also* Symptoms of psychosis)
- Amblyopia ex anopsia (*See* Sensory experience)
- Amphetamine (*See* Drug treatment, stimulants)
- Animal models, 33, 37, 41
- Anxiety and social involvement, 210-211 (*See also* Symptoms of psychosis)
- Aphasia (*See* Language deviance)
- Assumptive reality (*See* Egocentrism)
- Auditory defects (*See* Autism, sensory and perceptual processes)
- Autism
- characteristics, 106-113, 121, 160, 219-220, 231-233, 243, 249, 291-292, 305-307, 314, 319, 321, 354, 374-377
 - compared to aphasia, Down's Syndrome, blind-deaf, and normal, 160
 - compared to retardation, 98, 99
 - diagnostic criteria, 96-98
 - early behaviorist studies of, 292-293
 - educational programs for, 219, 357
 - etiology, 243, 291-292, 296, 314, 319-321, 347, 355, 358, 359, 361, 362
 - home programs for, 358, 365
 - intelligence and mental abilities, 93-95, 99-100
 - lack of services for, 347-353
- Autism (*cont'd*)
- language development in, 95, 100-103, 160
 - parental and professional social roles, 352-353
 - and parents, 95-98 (*See also* Parents of psychotic children)
 - and performance profile, 107-111
 - sensory and perceptual processes, 95, 115, 116, 117, 121, 122, 124, 125, 139, 160, 272-284, 321, 322
 - in Soviet Union, 319
 - symptoms and age, 239, 307
 - treatment of (*See* Behavior therapy; Biological treatments; Developmental therapy; Drug treatment; Educational treatment; Learning therapy and treatment of autism; Psychoanalytic play therapy; Psychoeducational treatment)
- Aveyron, savage boy of, 10, 12
- Axoplasmic flow, 28
- Behaviorism, 188-189, 193-194, 236
- Behavior therapy or treatment and behavioral modification, 314, 317, 376-377
- fading, 305-306
 - free play, 302-304
 - home management, 354-356
 - imitation techniques, 232, 295, 302, 305
 - language training, 301-302
 - maintenance, 304
 - reinforcement of nonverbal behavior, 295

- Behavior theory of treatment and (*cont'd*)
 reinforcement of self destructive behavior, 296-298
 research, 304-306
 teaching appropriate behaviors, 300-301, 376 (*See also* Serotonergic system)
- Biological structures, 373, 380
 Biological treatments, 244-245, 373-374
 Blindness, 157
 (*See* Autism, sensory and perceptual processes; Language deviance; Perceptual processes; Sensory experience, vision)
- Brain enzymes
 acetylcholinesterase, 37, 39, 136, 137
 cholinesterase, 37, 38, 39, 136, 137
 effects of differential experience, 34, 35, 37, 38, 136, 137
 (*See also* Tryptophan hydroxylase)
- Brain stem, vestibular influence (*See* Vestibular system)
- Brain structure
 and behavioral disturbances, 135
 and cell number, 37
 and dendritic spines, 37, 136
 and environmental stimulation, 25, 26, 27, 34, 136, 137
 and normal development, 135
- Caretakers (*See* Staff, of residential institutions)
- Catecholamine system
 and alpha-methyltyrosine, 25
 alterations in receptor function, 24, 25
 alterations in enzyme activity, 27, 28
 functions of, 21, 22, 136
 and monamine oxidase inhibitors, 27
 and norepinephrine, 21, 25
 and peripheral sympathetic system, 27
 and psychopathology, 136
 and reserpine, depletion of, 27
 synthesis, 25, 26
- Central nervous system (*See* Vestibular system)
- Cerebellum (*See* Vestibular system)
- Child psychiatry, history of, 13-15
 Cholinesterase (*See* Brain enzymes)
- Classification
 of child disorders, 351
 of developmental disorders, 351
 issues in, 361-363
- Classification (*cont'd*)
 labeling, 353
 of mental illness, 11
 and nosology, 348-352, 378
- Cognitive development, 3, 189, 191
 and affective development, 230-233
 and child rearing, 236-237
 and conceptual development, 230
 effect of drugs on, 246-247
 and peer relations, 213
 (*See also* Egocentrism and age)
- Cortical lesions, 43
 Cortical transmitter systems, 26-30, 136-138
- Critical periods
 and cortical effects of experience, 37-42
 in neuronal transmission, 22-23, 28-30, 136-137
 and perception, 139
 and sensory modality, 40-42, 137
- Crying, infant (*See* Language development)
- Cultural experience, 139
- Deafness (*See* Autism, sensory and perceptual processes; Language deviance; Perceptual processes)
- Defense mechanisms, 191, 192
 Denervation, 24, 25
 Deprivation (*See* Sensory experience, Environmental stimulation)
- Developmental continuity, 57-62
 Developmental norms (*See* Normal development)
- Developmental psychology
 definition of, 51
 and individual differences, 57
 summary of major issues, 63, 64
- Developmental therapy, 377-378
- Diagnosis
 of autism as transitory stage, 314
 of behavior disorder, 232-233
 definitions and issues of, 349-352
 of developmental handicaps, 349-352
 and late detection of handicap, 232
 and symbiotic children, 313
- DNA, 37
- Drug treatment
 hallucinogens, 252-253
 hormones, 255-257
 hypnotics, anticonvulsants, and antihistaminics, 247-248

Drug treatment (*cont'd*)

- L-dopa, 254-255
- lithium, 22, 27, 253-254
- orthomolecular psychiatry, 257-259
- stimulants and anti-depressants, 248-249
- tranquilizers, major, 249-252
- tranquilizers, minor, 252

Education

- grouping criteria, 224
- history of, 11-12

Educational treatment

- aims, 326, 328
- alternatives to perceptual training, 283
- aptitude-treatment interaction, 282, 283
- for autistic children, 320-328, 356, 374, 375
- basic understandings, 328-329
- criterion reference curriculum, 278-284
- developmental therapy, 354-359
- diagnostic-prescriptive teaching, 271
- eclectic techniques, 325
- general principles, 326-327
- goals of League School, 224
- intervention studies, 278-283
- permissive vs. structured, 220
- reading achievement, 276-277, 279, 280, 281
- reading techniques, 325-326
- TEACCH, 356-358, 367, 369
- teaching stimuli, 326, 327
- visual motor training (*See* Perceptual training)
- (*See also* Psychoeducational treatment)

Egocentrism

- and age, 171-180, 238
- and clinical implications, 180
- and developmental changes, 169-170
- and peer interaction, 213
- perceptual, 83-85

Electrophysiological activity, single cell recording, 40**Emotional development (*See* Developmental psychology; Institutional treatment)**

- Environmental stimulation and brain chemistry, 34-37
- cortical enzymes, 29, 30, 137
- cross species comparison, 37
- experience, 39

Environmental stimulation and (*cont'd*)

- handling, 39
 - locomotor activity, 39
 - malnutrition, 44, 45, 137
 - methamphetamine, 45
 - neurological abnormality in children, 43, 44
 - range of, 1
 - stability of effects, 37, 38
 - stress, 39
 - subcortical enzymes, 30, 137
 - vision, 39
 - (*See also* Brain enzymes. Brain structure; and Sensory experience)
- Enzymes (*See* Brain enzymes)

Formal operations (*See* Egocentrism, and age)**Foster Care, 331, 332**

- Freud, Sigmund and psychodynamics, 191-192
- separation, 312
- stages, 236

Humanism

- Apollonian and Dionysian, 195, 197
- prosocial man, 190
- psychodynamics, 192
- and socialization, 189, 190-191

Individual differences, 9-11**Individualized treatment, 376****Infantile psychosis (*See* Autism)****Institutionalization of children**

- causes, 333
- nursery organization, 337-338, 340
- (*See also* Staff, training)

Institutional treatment

- and cognitive development, 340
- and deviant children, 12, 342-343
- and emotional development, 337
- and environmental effects, 339, 342
- and individual needs, 342, 377
- long term effects of, 332

Intervention (*See* Behavior therapy; Biological treatments; Developmental therapy; Drug treatment; Educational treatment; Institutional treatment; Psychoanalytic play therapy; Psychoeducational treatment)

- Landmark behaviors (*See* Normal development)
- Language development
 components of, 149-151
 expression of logical relationships, 154
 and physiological development, 161, 163
 in residential nurseries, 337-338
 and social and self-help skills, 302
 stages and patterns, 146-152
 structure, 153-154
- Language deviance, 155-160, 303, 304
 eye contact, 222, 226
 sign language, 156
 talking and listening skills, 222
- League School, The, 219-227
- Learning theory and treatment of autism, 293-295
- Magical thinking (*See* Egocentrism)
- Measurement and assessment
 of autistics, high level, 376
 of behavior therapy, 302-304
 Child Management Scale, 340
 and classification of autism, 94, 95
 96-97
 cognitive vs. clinical developmental data, 238-239
 of developmental functioning, 362
 Group for Advancement of Psychiatry, 350
 inventory of basic school skills, 284, 285
 IQ test indicators, 158, 212, 304
 Pathology scale, 362
 of perceptual behavior, 272-275
 and policy formulation, 333-334
 and predictive value in outcome, 93, 94
 Psychoeducational Profile (PEP) 362, 364
 Psychosis Rating Scale, 364
 sociometrics, 197-198
 standard tests, 195, 272-273, 278, 336, 341-342
- Milestones of development (*See* Normal development)
- Moral development
 of judgement, 191, 235
 and social participation, 209-211, 215
- Mother
 and child bonds and peer relations, 204
 deprivation of, 331-332, 336-339
 figure in institutions, 337
- Motivation, intrinsic, 200
- Motor development
 age related patterns, 51
 in autism, 107, 117, 118, 121, 122
 biological vs. experiential factors, 52
 effect of theoretical framework, 52
 and problems of measurement, 52, 53
 and species characteristics, 51
 (*see also* Developmental norms)
- National Committee for Mental Hygiene, 13
- National Society for Autistic Children (NSAC), 366
- Neural plasticity, 40, 41
- Neurological defects, 230-231
- Neuronal adaptive processes, 136
 function and regulation of, 21, 22
 interneuronal communication, 27
 responses to disturbances, 135, 257
 (*See also* Catecholamine system; Serotonergic system)
- Neurotransmitter regulation (*See* Catecholamine system; Serotonergic system)
- Norepinephrine (*See* Catecholamine system)
- Normal development
 and abnormal, 230-234, 239
 and biological structure, 53, 54
 and individual differences, 239
 landmarks, 1, 53, 54, 55, 59
 researchers, 235
 studies, 380
 theories, 235
- Nosology (*See* Classification)
- Nystagmus, 122, 123, 124, 128
- Orthomolecular psychiatry, 257
- Paranoia (*See* Egocentrism, clinical implications)
- Parents and Professionals for Handicapped Children (PPHC), 367
- Parents of psychotic children
 and behavior modification, 325
 child rearing practices, 95, 98
 and confidentiality, 363
 as co-therapists, 325, 355, 365
 as evaluators of child's functioning, 356
 and follow-up therapy, 307
 and impaired thinking, 355
 parentectomy, 358
 pathological family interactions, 239

- Parents of psychotic children (*cont'd*)
 and professional authority, 352, 353, 355, 369
 role of, 187, 220
 training of, 221-222, 325-326
- Peer
 bonds, 203-206, 237
 interaction and emotional growth, 213, 221
 and judgment, 196
 modifying peer relations, 214
 moral development, 210
 separation reaction, 204
- Perceptual processes
 and cognition, 79, 86, 138-139
 and competency training, 213
 and cross modal transfer, 81, 82
 and cultural experience, 83, 87-88
 definition, 272
 and depth, 79
 functions of, 39-42, 81, 82, 85, 88, 275-277
 and investigational strategies, 82
 (*See* Autism, sensory and perceptual processes)
- Personality and socialization, 195
- Phenomenalistic causality, 238
- Physical defect scales, 230-231
- Physical therapy, 244-245
- Play
 adult and child, 204
 of autistic children, 312-313
 and autonomy, 313-314
 and mother function, 312-313
 and normal children, 311-312
 parallel, 212
 and schizophrenic children
 (*See also* Psychoanalytic play therapy)
- Pre-natal effects on neuronal transmission
 (*See* Critical periods)
- Preoperational stage (*See* Egocentrism, and age)
- Professional roles
 commitment and attitudes, 360-361
 needs of child vs. specialist, 354
 overspecialization of, 348-349, 369
 paraprofessionals, 366
 therapist as educator, 348
- Projection (*See* Egocentrism, and age; Egocentrism, clinical implications)
- Psychoanalytic orientation, 236
- Psychoanalytic play therapy, 312-318, 376
- Psychoeducational treatment, 226, 359-361, 364
- Psychopathology, 1, 2, 12, 232-233
 (*See also* Egocentrism, clinical implications)
- Psychopharmacology (*See* Drug treatment)
- Psychosexual stages of development, 236
- Psychosis (*See* Autism)
- Rationalization (*See* Egocentrism and age)
- Receptor function (*See* catecholamine system)
- Reflexes, early infant, 66, 68
- Reinforcers, 188, 193, 195, 198, 199
- Rejection (*See* Egocentrism and age)
- REM sleep (*See* Vestibular system)
- Research
 cross cultural studies, 333-335
 and the investigator, 373, 379
 limitations, 379
 methodology of drug studies, 246-247, 250, 259-260
 subjects, 139, 235, 236
- Reserpine (*See* Catecholamine system)
- Residential care and treatment (*See* Institutionalization of children)
- RNA, 37
- Rooting response (*See* Reflexes, early infant)
- ✱Schizophrenia, childhood (*See* Autism)
- Self
 actualizers, 190
 care, 222-223
 concept, 192
 destruction, 249, 296-298, 299, 376-377
 esteem, 193
 motivation, 200
 stimulation, 291, 299-300, 303-304
 theory of, 189, 192-193, 236
- Sensorimotor function (*See* Autism, sensory and perceptual processes; Sensory stimulation)
- Sensory developmental disorders (*See* Autism, sensory and perceptual processes; Blindness, Language deviance; Sensory experience)
- Sensory experience
 and axoplasmic flow, 28

- Sensory experience (*cont'd*)
 and concept of neural confirmation, 40, 41, 42
 and infant psychopathology, 28, 29, 30
 isolation and biochemistry, 27, 28
 and subcortical enzyme changes, 28, 29, 30
 vision, 39-42
 (*See also* Autism, sensory and perceptual processes; Perceptual processes)
- Sensory input
 deprivations, 119
 tactile and visual cues, 304-306
 (*See also* Autism, sensory and perceptual processes)
- Sensory stimulation, 122, 123, 124
 (*See also* Nystagmus)
- Serotonergic system
 affects of cocaine, 27
 in autism, 257
 critical periods in, 22, 23
 developmental differences in adaptation, 23, 24
 and 5-hydroxy-tryptophan, 23
 functions of, 136
 and long latency alterations, 27
 and serotonin metabolism, 22, 26, 27
 (*See also* Tryptophan hydroxylase)
- Sex (*See* Socialization)
- Socialization
 of aggression, 206-207, 215, 237
 and antisocial antecedents, 334
 and body type, 187
 and community activities, 225
 competence and friendship/intimacy, 196, 197-198, 212-213
 and culture, 186-187
 definition of, 185, 188
 of disturbed children, 219-227, 238
 and drug effect (T_3), 256, 257
 early experience and biological factors, 237
 and family structure, 186-187
 goals, 186
 measurement of, 194-198
 and peer interaction, 203, 204-213
 as processes, 188, 191, 194
 as products, 185, 186, 187
 and psychopathology, 212
 and role expectations, 185-186
 role-playing as aid to, 226
- Socialization (*cont'd*)
 of sex, 207-209
 and sex roles, 237
 theories of, 189-194
 and use of cameras and tape recorders, 226
- Special education (*See* Educational treatment)
- Staff
 involvement with children, 304, 305, 359-361
 and parents, 325, 359-361
 of residential institutions, 335, 337-341, 344
 selection, 360
 training, 338-339, 341-342
- Stimulation, 231, 377
 (*See also* Sensory experience; Environmental stimulation)
- Stress, vulnerability to, 1
- Substrate uptake (*See* Serotonergic system)
- Sucking behavior, 74, 138, 379 (*See also* Reflexes, early infant)
 conditioning of, 69, 70-73
- Sympathetic system, peripheral (*See* Catecholamine system)
- Symptoms of psychosis
 age effects, 79
 aggressivity, 248, 249, 250, 251, 260
 anxiety, 249, 252
 cognitive behavior, Drug effects, 246-247
 drug treatment, 260 (*See also* treatment)
 hyperactivity, 248-254, 260
 hypoactivity, 249, 251, 255
 illusions, 87-88
 implications of, 323, 327
 insomnia, 260
 irritability, 245, 260
 memory deficit, 320, 321
 and peer interaction, 212
 thought disorder, 260
 (*See also* Autism, characteristics; Autism, sensory and perceptual processes; Sensory experience)
- Synaptic function (*See* Brain structure)
- Treatment theoretical systems, 189, 191-192, 244, 247, 306, 376-380
 (*See also* Behavior therapy; Biological treatments; Developmental therapy; Drug treatment; Educational treat-

Treatment theoretical systems (*cont'd*)
 ment; Learning theory and treatment
 of autism; Physical therapy; Psycho-
 analytic play therapy; Psycho-
 educational treatment)
Tryptophan (*See* Serotonergic system)
Tryptophan hydroxylase, 22, 24-28

Vestibular dysfunction, 139-140
Vestibular system, 125, 126, 127
Visual dominance in autism (*See also*
 Autism, sensory and perceptual pro-
 cesses)
Visual perception (*See* sensory experience)
Vocational training, 227