

CURRICULUM VITAE

Alexander Francis ROCHE

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DATE OF BIRTH: October 17, 1921

MARITAL STATUS: Married to Eileen M. Roche (French), three children

CITIZENSHIP: United States, 1985

PRESENT POSITION: Fels Professor of Community Health and Fels Professor of Pediatrics
Wright State University School of Medicine

DETAILS OF EDUCATION

1938: Matriculated, University of Melbourne

1939: Leaving honours in English, French, Latin and European History
University College Scholarship (Newman College)

1940: Completed first year B.A. (Hons.), University of Melbourne

1941-1946: Medical course, University of Melbourne

1950-1954: Ph.D. student

1952-1953: Postgraduate Fellowship, Western Reserve University, Cleveland, Ohio.
Fulbright Scholar. Grants-in-aid from the Smith-Mundt Fund and the
Rockefeller Foundation. Leave of absence from Ph.D. studies.

DEGREES AND FELLOWSHIP

- 1946: M.B., B.S. (Melb.) - Medicine
- 1954: Ph.D. (Melb.) - Anatomy
- 1966: D.Sc. (Melb.) - Child Growth
- 1968: M.D. (Melb.) - Internal Medicine
- 1978: F.R.A.C.P. (Fellow of the Royal Australasian College of Physicians;
Division of Pediatrics)

Alexander F. Roche, M.D., Ph.D., D.Se., FRACP, FACMG

EDUCATION

University of Melbourne (Australia), M.B., B.S., 1946, Medicine
University of Melbourne (Australia), Ph.D., 1954, Anatomy
University of Melbourne (Australia), D.Sc., 1966, Child Growth
University of Melbourne (Australia), M.D., 1968, Internal Medicine

PROFESSIONAL POSITIONS

1949-1957 Senior Demonstrator, Department of Anatomy, University of Melbourne
1950-1951 Lecturer, Department of Anatomy, University of Melbourne
1952-1953 Fulbright Scholar, Postgraduate Fellowship, Western Reserve University, Cleveland, OH.
Grants-in-aid from the Smith-Mundt Fund and the Rockefeller Foundation
1952-1961 Various Faculty Posts, Department of Anatomy, University of Melbourne
1954-1968 Director, Melbourne University Child Growth Study
1968-1984 Chief, Section of Growth and Genetics; Chief, Section of Fe Is Longitudinal Study and

Families; Chief, Section for the Measurement of Growth and Maturity; Senior Scientist, Fels
Research Institute, Yellow Springs, Ohio

1977-1990 Fels Professor of Pediatrics and Fels Professor of Obstetrics and Gynecology, Wright

State University School of Medicine, Yellow Springs, Ohio

1984-1992 Head, Div. of Human Biology, Depart. of Community Health, Wright State University

1990- Fels Professor of Community Health and of Pediatrics, Wright State University School of
Medicine, Yellow Springs, Ohio

1990-1995 University Professor, Wright State University

1993- Editor-in-Chief, Journal of Human Ecology

HONORS

Fellow, Royal Australasian College of Physicians

Honorary Life Member, Sociedad Argentina de Pediatria, Australian Society of Orthodontics and
Sociedad Mexicana de Anatomia

President, Human Biology Council (1980-82), American Dermatoglyphics Association (1982-84)

Outstanding Scientist Award, Affiliated Societies Council, Dayton, Ohio (1978)

Outstanding Achievement Award, Academy of Medicine, Wright State University (1986)

Presidential Award for Excellence in Research, Wright State University (1988)

2004 Boas Award, Human Biology Association, Tampa, Florida (2004)

PUBLISHED WORKS

A. (i) THESES

1. Roche, A. F. Thesis in part requirement for Ph.D. (University of Melbourne), 1954. An Investigation of Axon-Myelin Relationships with Special Reference to Peripheral Neuromuscular Mechanisms Age Changes in the Skeleton of the Australian Aborigine.
2. Roche, A. F. Thesis in part requirement for D.Sc. (University of Melbourne). Collected Papers on Physical Aspects of Child Growth, 1966.
3. Roche, A. F. Thesis in part requirement for M.D. (University of Melbourne). Collected Papers on Child Growth, 1968.

(iii) BOOKS

4. Roche, A. F. Manual of Anthropometric Studies for Latin America and the Caribbean. PanAmerican Health Organization, Washington, DC., pp. 97, 1973.
5. Roche, A. F. and F. Falkner (eds.). Nutrition and Malnutrition - Identification and Measurement. Advances in Experimental Medicine and Biology, Vol. 49. Plenum Publishing Corporation, New York, 367 pp., 1974.
6. Roche, A. F., Wainer, H. and D. Thissen. Predicting Adult Stature for Individuals. Monographs in Pediatrics, Vol. 3. Karger, Basel, 115 pp., 1975.
7. Roche, A. F., Wainer, H. and D. Thissen. Skeletal Maturity: The Knee Joint as a Biological Indicator. Plenum Publishing Corporation, New York, pp. 374, 1975. (Reprinted, 1995).
8. Johnston, F. E., Roche, A. F. and C. Susanne (eds.). Human Physical Growth and Maturation: Methodologies and Factors. North Atlantic Treaty Organization Advanced Study Institute, Sogesta, Italy. Plenum Publishing Corporation. New York, pp. xii + 364, 1980.
9. Roche, A. F. and R. M. Malina. Manual of Physical Status and Performance in Childhood. Vol. 1. Physical Status. Plenum Publishing Corporation, New York, NY. Bound in two parts, pp. 1440, 1983.
10. Malina, R. M. and A. F. Roche. Manual of Physical Status and Performance in Childhood. Vol. n. Physical Performance. Plenum Publishing Corporation, New York, NY. pp. 803, 1983.
11. Roche, A. F. (ed.) Body-Composition Assessments in Youth and Adults, Proc. of Sixth Ross Conference on Medical Research, Williamsburg, Virginia, December 1984, Ross Laboratories, Columbus, OH, pp. 109, 1985.
12. Roche, A. F. (ed.) The Gastrointestinal Response to Injury, Starvation and Enteral Nutrition Eighth Ross Conference on Medical Research, Phoenix, Arizona, pp. 82, November, 1987.
13. Lohman, T. G., Roche A. F. and R. Martorell (eds.) Anthropometric Standardization Reference

- Manual. Human Kinetics Publishers, Inc., Champaign, Illinois, pp. vi + 177, 1988.
14. Roche, A. F., Chumlea, W. C. and D. Thissen. Assessing the Skeletal Maturity of the Hand-Wrist: FELS Method. Charles C Thomas, Springfield, Illinois, pp. viii + 339, 1988.
 15. Roche, A. F. (ed.) Prevention of Adult Atherosclerosis During Childhood. Ninety-fifth Ross Conference on Pediatric Research, North River Yacht Club, Tuscaloosa, Alabama September 1987, Ross Laboratories, Columbus, Ohio, pp. 127, 1988.
 16. Roche, A. F. (ed). The Role of Nutrients in Cancer Treatment. Ninth Ross Conference on 17. Medical Research, Tempe, Arizona, pp. 117, 1991.
 17. Lohman, T.G., Roche, AF. and R. Martorell (eds). Anthropometric Standardization Reference Manual (Abridged Edition). Human Kinetics Publishers, Inc., Champaign, IL., pp. 96, 1991.
 18. Roche, A. F. Growth, Maturation and Body Composition: The Fels Longitudinal Study 1929-1991, Cambridge University Press, Cambridge, United Kingdom, pp., 345, 1992.
 19. Roche, A. F. (ed). Short-Chain Fatty Acids: Metabolism and Clinical Importance. Report of the Tenth Ross Conference on Medical Research, Sanibel Island, Florida, pp. 106, 1991.
 20. Lohman, T. G., Roche, A F. and R. Martorell (eds.). Manuale Di Riferimento per la Standardizzazione Anthropometrica. EDRA, Milano, pp. 192, 1992.
 21. Roche, A F. (ed.) Cytokines in critical illness. Report of the Eleventh Ross Conference on Medical Research. Ponte Vedre, Florida pp. 78, 1992.
 22. Roche, A F. (ed.). Nutritional Essentiality: A Changing Paradigm. Report of the Twelfth Ross Conference on Medical Research, Ross Products Division, Abbott Laboratories, Columbus, OH, pp. 84, 1993.
 23. Roche, A F., Heymsfield, S. B. and T. G. Lohman (eds.). Human Body Composition. Human Kinetics Publishers, Inc., Champaign, IL. pp. x + 336, 1996.
 24. Roche, AF. (ed.). Oxidative Processes and Antioxidants: Their Relation to Nutrition and Health Outcomes. Report of the Thirteenth Ross Conference on Medical Research, Ross Products Division, Abbott Laboratories, Columbus, OH, pp. 87, 1994.
 25. Roche, A.F., Chumlea, W.C. and D. Thissen. Valvatazione Della Maturita Scheletrica Di Mano E Polso: II Metodo Fels. Translated by G. Aicardi, C. G. Edizioni. Medico Scientifiche Torino, Italy. pp. 323, 1996.
 26. Roche, A F., Heymsfield, S. B. and T. G. Lohman (eds.). Human Body Composition. Human Kinetics Publishers, Inc., Champaign, IL. pp. x + 336, 1996. (Japanese translation, Tokyo Taishukan (in press), 2002.
 27. Roche, AF. and S. Sun. Human Growth: Assessment and Interpretation, Cambridge University Press, (in press), 2002.

(iii) MONOGRAPHS

28. Roche, A. F. (ed). Symposium on Assessment of Skeletal Maturity. Am. J. Phys. Anthrop.35:315469, 1971.
29. Roche, A. F. (ed.). Report on the Feasibility of Internationally Comparable Growth Studies in Colombia, Chile, Argentina, Uruguay, Paraguay, Venezuela, Guatemala, and Mexico. 118 pp. Pan American Health Association, Regional Office of the World Health Organization, 1971.
30. Roche, A. F., Roberts, J. and P. V. V. Hamill. Skeletal Maturity of Children 6-11 Years: United States. Vital and Health Statistics, National Center for Health Statistics, Series 11, No. 140, pg. 62, 1974.
31. Roche, A. F. Physical Growth. Report to National Bureau of Standards, Washington, DC., pp. 65, 1974.
32. Roche, A. F., Roberts, J. and P. V. V. Hamill. Skeletal Maturity of Children 6-11 Years: Racial, Geographic Area, and Socioeconomic Differentials, United States. Vital and Health Statistics, National Center for Health Statistics, Series 11, No. 149, pp. 82, 1975
33. Roche, A. F., Roberts, J. and P. V. V. Hamill. Skeletal Maturity of Youths 12-17 Years, United States. Vital and Health Statistics, National Center for Health Statistics, Series 11, No. 160, pp. 60, 1976.
34. Hamill, P., Drizd, T., Johnson, C., Reed, R. and A. F. Roche. NCHS Growth Charts, 1976. Monthly Vital Statistics Report, 25:1-22, 1976.
35. Hamill, P. V. V., Drizd, T. A., Johnson, C. L., Reed, R. B. and A. F. Roche. NCHS Growth Curves for Children. Birth-18 Years, United States. Vital and Health Statistics, National Center for Health Statistics, Series 11, No. 165, pp. 74, 1977.
36. Roche, A. F., Siervogel, R. M., Himes, J. H. and D. L. Johnson. Longitudinal Study of Human Hearing: Its Relationship to Noise and Other Factors. I. Design of Five Year Study; Data from First Year. AMRL-TR-76-110. Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, pp. 158, 1977.
37. Roche, A. F., Roberts, J. and P. V. V. Hamill. Skeletal Maturity of Youths 12-17 Years: Racial, Geographic Area, and Socioeconomic Differentials, United States. Vital and Health Statistics, National Center for Health Statistics, Series 11, No. 167, pp. 98, 1978.
38. Roche, A. F., Eichorn, D., McCammon, R. W., Reed, R. B., Valadian, I., Himes, J. H., Kent, R. L. Jr. and R. M. Siervogel. The Natural History of Blood Pressure. Final report on Contract NOI-HV42985. pp. 1400, 1978.
39. Roche, A. F. (ed.) Secular Trends in Human Growth, Maturation and Development. Monographs of the Society for Research in Child Development, 44, pp. 120, 1979.
40. Roche, A. F., Himes, J. H., Siervogel, R. M. and D. L. Johnson. Longitudinal Study of Human Hearing: Its Relationship to Noise and Other Factors. II. Results from the first three years. AMRLTR-79-102. Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio. pp. 221,

1979.

41. Himes, J. H., Roche, A. F. and D. Thissen. Parent-specific Adjustments for Assessment of Recumbent Length and Stature. Monographs in Paediatrics. Vol. 13, Karger, Basel, pp. 88, 1981.
42. Moore, W. M. and A. F. Roche. Pediatric Anthropometry. Ross Laboratories, Columbus, Ohio, pp. 29, 1982.
43. Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Longitudinal Study of Human Hearing: Its Relationship to Noise and Other Factors. III. Results From the First Five Years. AMRL-TR-82-68. Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, pp. 216, 1982.
44. Roche, A. F., Siervogel, R. M., Chumlea, W. C., Reed, R. B., Valadian, I., Eichorn, D. and R. W. McCammon. Serial Changes in Subcutaneous Fat Thicknesses of Children and Adults. Monographs in Pediatrics. Vol. 17, Karger, Basel, pp.110, 1982.
45. Roche, A. F., Chumlea, W. c., Siervogel, R. M. and D. Mukherjee. Longitudinal Study of Human Hearing: Its Relationship to Noise and Other Factors. N. Data from 1976 to 1982. Final Report. AMRL-TR-83-057 Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio. pp. 62, 1983.
46. Moore, W. M. and A. F. Roche. Pediatric Anthropometry, 2nd Ed. Ross Laboratories, Columbus, Ohio, pp. 26, 1983.
47. Chumlea, W. C., Roche, A.F. and D. Mukherjee. Nutritional Assessment of the Elderly Through Anthropometry. Ross Laboratories, Columbus, Ohio, pp. 44, 1984.
48. Roche, A. F., Chumlea, W. C. and S. Guo. Identification/Validation of New Anthropometric Techniques for Quantifying Body Composition. U.S. Army Natick Research and Development Center, Natick, Massachusetts. pp. xxiii + 209, TR-86/058, 1986.
49. Moore, W. M. and A. F. Roche. Pediatric Anthropometry, 3rd Ed. Ross Laboratories, Columbus, Ohio, pp. 29, 1987.
50. Roche, A. F. and S. Guo. Estimation of body composition from anthropometry in the elderly. Report on Contract No. 263-SDN-23647, National Institute on Aging, 1987.
51. Chumlea, W. C., A. F. Roche and D. Mukherjee. Nutritional Assessment of the Elderly through Anthropometry, 2nd Ed. Ross Laboratories, Columbus, Ohio, pp. 46, 1987.
52. Guo, S., Roche, A. F. and W. C. Chumlea. Optimum Anthropometric Grade Rules. Final Report on Phase I of U.S. Army Contract No. DAAK 60-87-C-0060. Natick Research and Development Center, Natick, Massachusetts, pp. vi + 142, 1988.
53. Guo, S. and A. F. Roche. Mathematical Modeling for Growth from Birth to 3 Years. Report on Professional Service Contract Extension (#89CO 72675701D) National Center for Health Statistics, Washington, D.C., September, 1989.
54. Ryan, A. S. and A. F. Roche (eds.). Growth of Mexican-American children: Data from Hispanic Health and Nutrition Examination Survey (1982-1984). Am. J. Clin. Nutr., 51 :897 -952S, 1990.
55. Roche, A. F. Executive Summary National Center for Health Statistics Workshop on Revision of Growth Charts. Personal Services Contract (#0990-015),82 pp. National Ctr for Health Statistics, Washington, DC, June, 1993. (Available on the web at www.cdc.gov/growthcharts)

56. Khamis, H. J. and A. F. Roche. Growth Outcome of "Normal" Short Children who are Retarded in Skeletal Maturation. Report to Genentech, Inc., July, 1993.
57. Roche, AF. Executive Summary of Workshop to Consider Low Birth Weight in Relation to the Revision of the NCHS Growth Charts for Infancy (Birth-3 Years), pp. 76. Personal Services Contract #0009430587, National Center for Health Statistics, Washington DC, Oct., 1994.
58. (Available on the web at www.cdc.gov/growthcharts)
59. Roche, A F. Executive Summary of Workshop to Consider Secular Trends and Possible Pooling of Data in Relation to the Revision of the NCHS Growth Charts. November, 1995, pp. 81. Personal Service Contract #0009530411, National Center for Health Statistics, Washington, DC, 1997. (Available on the web at www.cdc.gov/growthcharts)
60. Roche, A F. The Effects of Varying Sample Sizes and Changing from Weight-for-Length to BMI at 2-3 Years in the Revised NCHS/CDC Growth Charts. pp. 31. Professional Service Contract #0009530096, National Center for Health Statistics, Washington, DC, 1995. (Available on the web at www.cdc.gov/growthcharts)
61. Roche, A F. Guidelines to the Revised NCHS/CDC Growth Charts. pp. 457. Professional Services Contract #0009430592, National Ctr for Health Statistics, Washington, DC. 1997.
62. Roche, A F. and S.S. Guo. Analysis of secondary sexual characteristics, Third National Health and Nutrition Examination Survey (NHANES III). Report on Personal services contract No. 0009630288. 1998.
63. Kuzmarski, R. J., Ogden, C. L., Guo, S.S., Grommer-Strawn, L. M., Flegal, K.M., Mei, Z., Wei, R., Curtin, L.R., Roche, AF. and C. L. Johnson. 2000 CDC Growth Charts for the United States: Methods and Development. National Center for Health Statistics, Vital and Health Stat. 11 (246): 1-190,2002.

(ii) METHODOLOGY

64. Roche, A F. and S. Sunderland. Melbourne University Child Growth Study. Med. J. Austr., i:559562, 1959.
65. Roche, A F. and J. W. G. Wignall. The cytophometer: A new instrument for recording contours. Am. J. Phys. Anthrop., 20:521-525, 1962.
66. Roche, A F., Towns, J. W. and E. D. Smith. Body positioning for clinical assessment of kyphosis or lordosis. Austr. Paed. J., 2:199-206, 1966.
67. A. F. and J. M. Johnson. A comparison between methods of calculating skeletal age (GreulichPyle). Am. J. Phys. Anthrop., 30:221-229, 1969.
68. Roche, A. F., Rohmann, C. G., French, N. Y. and G. H. Davila. Effect of training on replicability of assessments of skeletal maturity (Greulich-Pyle). Am. J. Roentgenol., 108:511-515, 1970.
69. Roche, A F., Davila, G. H., Pasternack, B. A and M. J. Walton. Some factors influencing the replicability of assessments of skeletal maturity (Greulich-Pyle). Am. J. Roentgenol., 109:299-306,

1970.

70. Murray, J. R., Bock, R. D. and A. F. Roche The measurement of skeletal maturity *Am J. Phys. Anthropol.*, 35:327-330, 1971.
71. Roche, A. F. New statistical techniques that assist the interpretation of serial growth data. *Proc. XIII International Congress of Pediatrics, Vienna. Growth & Development*, 11-16, 1971.
72. Falkner, F., Buzina, R., Chopra, J., Gyorgy, P., Jelliffe, D. B., Jelliffe, P., Read, M. S. and A. F. Roche. The creation of growth standards: A committee report. *Am. J. Clin. Nutr.*, 25:218-220, 1972.
73. Bock, R. D., Wainer, H. C., Peterson A., Thissen, D., Murray, J. and A. F. Roche A parameterization for individual human growth curves *Hum. Biol.*, 45:63-80, 1973.
74. Roche, A. F. and G. H. Davila Differences between recumbent length and stature within individuals. *Growth*, 38:313-320, 1974.
75. Roche, A. F. The design of studies for monitoring growth *Proc. XIV International Congress of Pediatrics, Buenos Aires*, 5:320-331, 1974.
76. Roche, A. F. and F. Falkner. Physical growth charts, pp. 63-73. In: *Pediatric Screening Tests and Procedures* W. K. Frankenburg and B. W. Camp (eds.) Charles C Thomas, Springfield, IL, 1975
77. Roche, A. F. and J. I. McKigney. Physical growth of ethnic groups comprising the United States population *Am. J. Clin. Nutr.*, 28:1071-1074, 1975.
78. United States population *Am. J. Dis. Child.*, 130:62-64, 1976.
79. Roche, A. F. Problems of methods of checking ontogenetic development and changes in population structure In *Metody Kontroli Rozwoju Czlowieka Izmian Struktury Populacji Ludzkich W Zwiazku Z Przemianami Srodowiska* N. Wolanski (ed.). Wydawnictwo Polskiej Akademii Nauk, Warszawa, pp 287-307, 1977.
80. Roche, A. F. Guidelines for prospective studies of growth-related effects of stimulant medication in hyperactive children. Food and Drug Administration, (for internal circulation), pp. 1-39, 1977
81. Roche, A. F. Growth charts old and new. In *Proc., Nutrition Assessment of Children and Youth Workshop*. Michigan Department of Public Health, Lansing, Michigan, 1977.
82. Roche, A. F. Guidelines for prospective studies of growth-related effects of stimulant medication in hyperactive children. Food and Drug Administration, (for internal circulation), pp. 1-39, 1977.
83. Roche, A. F. Growth assessment in abnormal children. *Kidney Intl*, 14:369-377, 1978.
84. Roche, A. F. Parametros de crecimiento. *Archivos Argentinos de Pediatria*, 76:8-14 plus 52, 1978.
85. Roche, A. F. and P. V. V. Hamill. United States Growth Charts. pp 143-148 In: *Proc. of the First International Congress of Auxology*. Rome, April, 1977. Centro Auxologica Italiano di Piancavallo, Milan, 1978.
86. Potter, D. E., Broyer, M., Chantler, C., Gruskin, A., Holliday, M. A., Roche, A. F., Scharer, K. and D. Thissen. The measurement of growth in children with renal insufficiency. *Kidney International*, 14:378-382, 1978.

87. Roche, A. F. Introduction pp. 1-2, In: Secular Trends in Human Growth, Maturation and Development. Roche, A. F. (ed.) Monographs of the Society for Research in Child Development, 44, 1979.
88. Roche, A. F. Growth assessment of handicapped children. Public Health Currents, and A. W. Root (eds.). Academic Press; New York, 1980.
89. Roche, A. F. Prediction. pp. 177-191 In: Human Physical Growth and Maturation: Methodologies and Factors Johnston, F. E., Roche, A. F. and C. Susanne (eds.) North Atlantic Treaty Organization Advanced Study Institute, Sogesta, Italy, Plenum Publishing Corporation, New York, 1980.
90. Roche, A. F. The measurement of skeletal maturation pp. 61-82 In: Human Physical Growth and Maturation: Methodologies and Factors. Johnston, F. E., Roche, A. F. and C. Susanne (eds.). North Atlantic Treaty Organization Advanced Study Institute, Sogesta, Italy, Plenum Publishing Corporation, New York, 1980.
91. Roche, A. F. Anthropometric variables: Effectiveness and limitations. pp. 22-28, In: Assessing the Nutritional Status of the Elderly--State of the Art. Calloway, C. W. and G. Harrison, (eds.) Report of the Third Ross Roundtable on Medical Issues Washington, DC June 21-22, 1981. Columbus, Ohio: Ross Laboratories, 1982.
92. Himes, J. H. and A. F. Roche. Reported versus measured adult statures. Am. J. Phys. Anthropol. 58:335-342, 1982.
93. Roche, A. F., Tyleshevski, F. and E. Rogers. Non-invasive measurement of physical maturity in children. Res. Quart. Exercise and Sport, 54:364-371, 1983.
94. Roche, A. F. Anthropometric methods: New and old. What they tell us. Internat. J. Obesity, 8: 509-524, 1984.
95. Chumlea, W. C., Mukherjee, D. and A. F. Roche. A comparison of methods for measuring cortical bone thickness Am. J. Phys. Anthropol. 65:83-86, 1984.
96. Chumlea, W. C. and A. F. Roche. Ultrasonic and skinfold caliper measures of subcutaneous fat thickness in elderly men and women. Am. J. Phys. Anthropol. 71:351-358, 1986.
97. Roche, A. F. Progress in the analysis of serial data during the century since Bowditch and future expectations. Fourth Raymond Pearl Memorial Lecture Hum. Biol., 58:831-850, 1986.
98. Roche, A. F., Cassoda, F. G., Falkner, F., Johnston, F. and R. Skalak. Physical Growth. pp.43-73, In: An Evaluation and Assessment of the State of Science Report of the Study Group on Developmental Endocrinology and Physical Growth Grave, G. D.(ed.) National Institute of Child Health and Human Development, U.S. Department of Health and Human Services, 1986.
99. Gordon, C.C., Chumlea, W.e. and A.F. Roche. Stature, recumbent length, weight pp. 3-8, In: Anthropometric Standardization Reference Manual. Lohman, T.G., Roche, A.F. and R. Martorell (eds.), Human Kinetics Publishers Inc., Champaign, Illinois, 1988.
100. Callaway, W. e., Chumlea, W. e., Bouchard, C., Himes, J. H., Lohman, T. G., Martin, A. D., Mueller, W. H., Roche, A. F. and V. D. Seefeldt. Circumferences. pp. 39-54, In: Anthropometric Standardization Reference Manual. Lohman, T. G., Roche, A. F. and R. Martorell (eds.), Human Kinetics Publishers Inc., Champaign, Illinois, 1988.
101. Harrison, G. G., Buskirk, E. R., Carter, J. E. L., Johnston, F. E., Lohman, T. G., Pollock, M. L.,

- Roche, A. F. and J. Wilmore. Skinfold thicknesses and measurement technique pp. 55-70, In: Anthropometric Standardization Reference Manual. Lohman, T. G., Roche, A. F. and R. Martorell (eds.), Human Kinetics Publishing Inc., Champaign, Illinois, 1988.
102. Roche, A. F., Guo, S., Woteki C. and F. L. Trowbridge. Methods for the revision of the NCHS/CDC growth charts: Birth to 36 months Proc. 1989 Annual Meeting, American Statistical Association, 333-335, 1989.
103. Roche, A. F. and S. S. Guo. The development of reference data for increments in variables related to growth. *Am. J. Hum. BioI.*, 4:365-371, 1992.
104. Roche, A. F., Guo, S. S. and B. Towne. Opportunities and difficulties in long-term studies of growth. *Int. J. Sports Med.* 18:S151-S161, 1997.
105. Roche, A. F., Guo, S. S., Johnson, e. L., Kuczmarski, R. J. and R. R. Briefel. Revision of the US National Center for Health Statistics Growth Charts. pp. 105-112. In: *Studies in Human Biology*. B. E. Bodzsar, and C. Susanne (Eds.). Budapest, E6tv6s Univ. Press, 1996.
106. Roche, A. F., Guo, S. and B. Towne. The establishment and maintenance of longitudinal growth studies: Experiences from Melbourne and Fels. In: *Human Growth in Context*. F.E. Johnston, B. Zemel, P.B. Eveleth (eds). London, Smith-Gordon, pp. 101-120, 1999.
107. Roche, A.F. Post-natal physical growth assessment. *Clinical Pediatric Endocrinology* 8: (Supp. 12) 1-12, 1999.
108. Roche, A.F. Lessons from the Establishment and Maintenance of Long-Term Growth Studies. *Japanese Journal of Physical Education*. 44: 133-151, 1999.
109. Guo, S.S., Roche, A. F., Chumlea, W. e., Johnson, C., Kuczmarski, R.J. and RCurtin. The statistical effects of varying sample sizes on the precision of percentile estimates. *Am. J. Hum. BioI.* 12:64-74, 2000.
110. Roche, A.F. and B. Towne. Secular trends and longterm growth studies. 147-157 in *Human Growth, Development and Maturation*. S.R. Das Commemorative Volume. P. Dasgupta and R. Hauspie (eds.), Boston, Kluwer Academic Publishers, 2001.
111. Bellisari, A. W. and A.F. Roche. Anthropometry and Ultrasound. In *Human Body Composition* 2nd Ed. Heymsfield, S.B. and Lohman, T.G. (Eds.). Human Kinetics Publishers Inc., Champaign, IL. (in press), 2002.

(i) MATURATION

112. Roche, A. F. and S. Sunderland. Multiple ossification centres in the epiphyses of long bones of the human hand and foot. *J. Bone and Jt. Surg.*, 41-B:375-383, 1959.
113. Roche, A. F. Lateral comparisons of the skeletal maturity of the human hand and wrist. *Am. J. Roentgenol.*, 89:1272-1280, 1962.
114. Roche, A. F., Barkla, D. H. and J. S. Maritz. Deciduous eruption in Melbourne children. *Austr. Dent. J.*, 9:106-108, 1964.

115. Roche, A. F. Clinical applications of skeletal age assessments. *Austr. Ped. J.*, 1:6-11, 1965.
116. Roche, A. F. An early study of dental eruption. *Austr. Dent. J.*, 11 :371-373, 1966.
117. Roche, A. F., Towns, J. W. and J. M. Johnson The age of menarche in Melbourne schoolgirls. *Austr. Paed. J.*, 2:67-69, 1966.
118. Roche, A. F. A study of skeletal maturation in a group of Melbourne children *Austr. Paed. J.*, 3:123-127, 1967.
119. Roche, A. F. Sex-associated differences in skeletal maturity. *Acta Anat. (Basel)*, 71:321-340,1968.
120. Roche, A. F. and N. Y. French. Differences in skeletal maturity levels between the knee and hand. *Am. J. Roentgenol.*, 109:307-312, 1970.
121. Roche, A. F. Associations between the rates of maturation of the bones of the hand-wrist. *Am. J. Phys. Anthrop.*, 33:341-348, 1970.
122. Roche, A. F. and G. H. Davila. Associations between the rates of maturation and growth in the short bones of the hand. *Am. J. Phys Anthrop.*, 33:349-356, 1970.
123. Roche, A. F. Summary of Discussion. Symposium on Assessment of Skeletal Maturation. *Am. J. Phys. Anthrop.*, 35:467-470, 1971.
124. Roche, A. F., French, N. Y. and G. H. Davila. Areolar size during pubescence. *Hum. Biol.*, 43:210-223, 1971.
125. Roche, A. F., Davila, G. H. and S. L. Eyman. A comparison between Greulich-Pyle and Tanner-Whitehouse assessments of skeletal maturity. *Radiology*, 98:273-280, 1971.
126. Johnson, G. F., Dorst, J. P., Kuhn, J. P., Roche, A. F. and G. H. Davila. Reliability of skeletal age assessments. *Am. J. Roentgenol.*, 118:320-327, 1973.
127. Roche, A. F. The timing and sequence of some adolescent events. pp 1-40, In: Report on Workshop on Trauma in Adolescents in Sports and Recreation. Committee on Prosthetics Research and Development, National Academy of Sciences, Washington, DC., 1973.
128. Yarbrough, c., Habicht, J.-P., Klein, R. E. and A. F. Roche. Determining the biological age of the preschool child from a hand-wrist radiograph. *Investig. Radiol.*, 8:233-243, 1973.
129. Johnston, F. E., Roche, A. F., Schell, L. M. and H. N. B. Wettenhall. Critical weight at menarche. Critique of a hypothesis. *Am. J. Dis. Child.*, 129:19-23, 1975.
130. Roche, A F. and G. H. Davila. The reliability of assessments of the maturity of individual handwrist bones. *Hum. Biol.*, 48:585-597, 1976.
131. Himes, J.H., Roche, AF. and Greulich-Pyle and Tanner-Whitehouse. Skeletal ages: associations with pubertal events. (unpublished mss).
132. Chumlea, W. C., Roche, A F. and D. Thissen. The FELS Method of assessing the skeletal maturity of the hand-wrist. *Am. J. Hum. Biol.*, 1:175-184, 1989
133. Roche, A F. The relative utility of carpal skeletal ages. *Am. J. Hum Biol.* 1:479-482, 1989.
134. Xi, H., Roche, A F. and S. S. Guo. Sibling correlations for skeletal age assessments

135. by the FELS method. *Am. J. Hum. Biol.*, 1:613-619, 1989.
136. Xi, H. and A F. Roche. Differences between the hand-wrist and knee in assigned skeletal ages. *Am.J.Phys.Anthrop.* 83:95-102,1990.
137. Kemp, S. and A F. Roche. Skeletal Maturation: An update of NCGS VII. Proc. National Collaborative Growth Study Investigator's Meeting, 33-35, 1993.
138. Roche, A F., Wellens, R., Attie, K. M. and R. M. Siervogel. The timing of sexual maturation in a group of U.S. white youths. *J. Ped. Endocrin. & Metab.*, 8:11-18, 1995.
139. Ilich, T. Z., Skugor, M., Hangartner, T.N., Roche, AF., Goel, P.K., Subraman, Ali, R. and V. Matkovic. Skeletal ages as a determinant of bone mass in preadolescent females. *Skeletal Radiol.* 25:431-439,1996.
140. Roche, A F., Wellens, R., and S.S. Guo. Relationship of skeletal age to limb composition during pubescence. *Am. J. Hum. Biol.* 8:673-680, 1996.
141. Roche A F. and S. S. Guo. Analysis of secondary sexual characteristics in the Third National Health and Nutrition Examination Survey (NHANES III). Report to the National Center for Health Statistics, Hyattsville, Maryland, March 1998.
142. Roche, AF. Skeletal age and disease. *Acta Medica Auxologica* 32:11-12, 2000.
143. Towne, B., Blangero, J., Parks, T.S., Brown, M.R., Roche, AF., and R.M. Siervogel. Analytic approaches to the study of genetic influences on normal skeletal maturation. Proc. IXth International Congress of Auxology, London, Smith-Gordon (in press), 2002.
144. Guo, S.S., Schubert, e., Chumlea, W.e., Roche, A.R. and A.S. Ryan. National estimates of the timing of sexual maturation and racial differences among U.S. children. *Pediatrics*, (in press), 2002.
145. Chumlea, W.e., Schubert, C., Roche, AF., Kulin, H., Lee, P.A, Himes, J.H., S. S. Guo. Age at menarche & racial comparisons in U.S.girls. *Pediatrics* (under review).
146. Guo, S.S., Schubert, C.M., Chumlea, W.e., Liang, R., Roche, AF., Kulin, H.E., Lee, P.A, and J.R. Himes. Is sexual maturation early in U.S. children. (under review).

(ii) SKELETAL ELONGATION

147. Roche, A F. and S. Sunderland. Observations on the developing fifth toe in normal children. *Acta Anat. (Basel)*, 41:261-272, 1960.
148. Roche, A. F. Clinodactyly and brachymesophalangia of the fifth finger. *Acta Paediat. (Uppsala)*, 50:387-391, 1961.
149. Roche, A. F. Incomplete distal phalanges in the foot during childhood. *Acta Anat. (Basel)*, 51:369-376, 1962.
150. Roche, A. F. Epiphyseal ossification and shaft elongation in human metatarsal bones. *Anat. Rec.*, 149:449-452, 1964.

151. Roche, A. F. The sites of elongation of human metacarpals and metatarsals. *Acta Anat. (Basel)*, 61:193-202,1965.
152. Roche, A. F. Absence of the lunate. *Am. J. Roentgenol.*, 100:523-525, 1967. Roche, A. F. The elongation of the mandible. *Am. J. Orthod.*, 53:79-94, 1967.
153. Roche, A. F. and R. F. Hermann. Associations between the rates of elongation of the short bones of the hand. *Am. J. Phys. Anthrop.*, 32:83-88, 1970.
154. Roche, A. F., Hermann, R. F. and G. H. Davila. Correlations between the rates of epiphyseal and diaphyseal elongation in the short bones of the hand. *Am. J. Phys. Anthrop.*, 33:31-35, 1970.
155. Roche, A. F. and R. F. Hermann. Rates of change in width and length-width ratios of the diaphyses of the hand. *Am. J. Phys. Anthrop.*, 32:89-96, 1970
156. Roche, A. F. The elongation of the human cervical vertebral column. *Am. J. Phys. Anthrop.*, 36:221-228, 1972.
157. Roche, A. F. and G. H. Davila. Late adolescent growth in stature. *Pediatrics*, 50:874-880, 1972.
158. Roche, A. F. Differential timing of maximum length increments between bones within individuals. *Hum. Biol.*, 46:145-157, 1974.
159. Roche, A. F. Growth after puberty. *Proc. XV Intemat. Congo Pediatrics, Buenos Aires, Argentina*, 5:138-152,1974.
160. Roche, A. F. and G. H. Davila. Pre- and post-pubertal growth. pp.409-414. In: *Fetal and Postnatal Cellular Growth: Hormones and Nutrition*. Cheek, D. B. (ed.), John Wiley and Sons, Inc., New York, 1975.
161. Thissen, D., Bock, R. D., Wainer, H. and A. F. Roche. Individual growth in stature: A comparison of four growth studies in the U.S. *Ann.Hum.Biol.*, 3:529-542, 1976.
162. Roche, A. F. Bone growth and maturation. pp.317-355. In: *Human Growth: 2. Postnatal Growth*. Falkner, F. and J. M. Tanner (eds.). Plenum Publishing Corp., New York, 1978.
163. Roche, A. F. Secular trends in stature, weight and maturation, pp. 3-27. In: *Secular Trends in Human Growth, Maturation and Development*. Roche, A. F. (ed.). *Monographs of the Society for Research in Child Development*, 44, 1979.
164. Friedmann, N., Thomas, J., Carr, R., Elders, J., Ringald, I. and A. F. Roche. Effect on growth in Cylert-treated children with attentional deficit disorder. *Am. J. Dis. Child.*, 135 :329-332, 1981.
165. Roche, A. F., Lipman, R. S., Overall, J. E. and W. Hung. The effects of stimulant medication on the growth of hyperkinetic children. *Pediatrics*, 63: 847-850, 1979.
166. Holm, V. A., Kronmall, R. A., Williamson, M. and A. F. Roche. Physical growth in phenylketonuria, II: Growth of children in the PKU Collaborative Study from birth to four years of age. *Pediatrics*, 63:700-707, 1979.
167. Roche, A. F., Lipman, R. S., Overall, I. E. and W. Hung. The effects of stimulant medication on the growth of hyperkinetic children. *Psychopharmacology Bull.*, 16: 13-18, 1980.
168. Engstrom, F., Roche, A. F. and D. Mukherjee. Differences between arm span and stature in white

- children. *J. Adolescent Health Care*, 2: 19-22, 1981.
169. Friedmann, N., Thomas, J., Carr, R., Elders, J., Ringald, I. and A. F. Roche. Effect on growth in Pemoline-treated children with attentional deficit disorder. *Am. J. Dis. Child.*, 135:329-332, 1981.
 170. Byard, P. J., Siervogel, R. M. and A. F. Roche. Familial correlations for serial measurements of recumbent length and stature. *Ann. Hum. Biol.*, 10:281-293, 1983
 171. Byard, P. J. and A. F. Roche. Secular trend for recumbent length and stature. pp. 209-214, In: *Human Growth and Development*. Borms, J., Hauspie, R., Sand, A., Susanne, C. and M. Hebbelinck (eds.). Plenum Publishing Co., NY, 1984.
 172. Kouchi, M., Roche, A. F. and D. Mukherjee. Growth in recumbent length during infancy with relationships to adult status and familial associations of the estimated parameters. *Hum. Biol.*, 57:449-472, 1985.
 173. Himes, J. H., Roche, A. F., Thissen, D. and W. H. Moore. Parent-specific adjustments for evaluation of recumbent length and stature. *Pediatrics*, 75:304-313, 1985.
 174. Roche, A. F. Bone growth and maturation. pp. 25-60, In: *Human Growth II. Postnatal Growth*, 2nd Ed. Falkner, F. and J. M. Tanner (eds.) Plenum Press, New York, 1986.
 175. Falkner, F. and A. F. Roche. Fetal growth and outcome: Relationship of femur length to recumbent length and stature in neonatal and early childhood growth. *Hum. Biol.* 59:769-773, 1987.
 176. Byard, P. J., Siervogel, R. M. and A. F. Roche. Age trends in transmissible and non-transmissible components of family resemblance for stature. *Ann. Hum. Biol.* 15: 111-118, 1988
 177. Roche, A. F. Normal human growth and development. pp, 10-13, In: *Muscle Development: Nutritional Alternatives to Anabolic Steroids*. Garrett, W. E, Jr. and T. R. Malone (eds.) Ross Research Conference. Wild Dunes Resort, Charleston, South Carolina, 1988.
 178. Roche, A. F. The final phase of growth in stature. *Growth, Genetics and Hormones*, 5:4-6, 1989.
 179. Byard, P. J., Guo, S. and A. F. Roche. Model fitting to early childhood length and weight data from the Fels Longitudinal Study of growth. *Am. J. Hum. Biol.* 3:33-40, 1991.
 180. Roche, A. F. and R. Wellens. Secular trends in stature: A limited review. Report to Genentech, Inc. Unpublished, 1991.
 181. Guo, S., Siervogel, R. M., Roche, A. F. and W. C. Chumlea. Mathematical modeling of human growth: A comparative study. *Am. J. Hum. Biol.*, 4:93-104, 1992.
 182. Byard, P. J., Guo, S. S. and A. F. Roche. Family resemblance for Preece Baines growth curve parameters in the Fels Longitudinal Growth Study. *Am. J. Hum. Biol.*, 5:151-157,1993.
 183. Towne, B., Guo, S. S., Siervogel, R. M. and A. F. Roche. Genetic analysis of patterns of growth in infant recumbent length. *Hum. Biol.* 65:977-989, 1993.
 184. Hintz, R. L., Attie, K. M., Johanson, A., Baptista, J., Kuntze, J., Blizzard, R., Cara, J., Chermausek, S., Geffner, M., Gertner, J., Hopwood, N., Kaplan, S., Lippe, B., Plotnick, L., Rogoła, A., Rosenfield, R., Saenger, P., Lebeouf, G. and A. F. Roche. Growth hormone treatment of idiopathic short stature increases near final height. *New Engl. J. Med.* 340:502-507, 1999.

185. Guo, S.S., Roche, A. F. and W.M. Moore. The Revised US National Growth Charts. Nutrition & the MD, July: 1-4, 2000.
186. Roche A. F. and S. S. Guo. The New Growth Charts. Pediatric Basics 94:2-13, 2001.

(iii) SENESCENCE

187. Roche, A. F. Aging in man. Med. J. Austr., ii:11-13, 1964. Roche, A. F. Aging in man. Sci. Rev., 19:16-19, 1964.
188. Roche, A. F. Aging in man. Food Nutr. Notes Rev., 21:113-117, 1964. Roche, A. F. Aging in the human skeleton. Med. J. Austr., ii:943-946, 1966.
189. Roche, A. F., Garn, S. M., Reynolds, E. L., Robinow, M. and L. W. Sontag. The first seriatim study of human growth middle aging. Am.J.Phys.Anthrop 54:23-24, 1981.
190. Chumlea, W. c., Roche, A. F. and E. Rogers. Replicability for anthropometry in the elderly. Hum. Biol., 56:329-337, 1984.
191. Chumlea, W. C., Steinbaugh, M. L., Roche, A. F., Mukherjee, D. and N. Gopaldaswamy. Nutritional anthropometric assessment in elderly persons 65 to 90 years of age. J. Nutr. Elderly, 4:39-51, 1985.
192. Chumlea, W. C., Roche, A. F. and M. L. Steinbaugh. Estimating stature from knee height for persons 65 to 90 years of age. J. Am. Geriatric. Soc. 33: 116-120, 1985.
193. Chumlea, W. C., Roche, A. F., Steinbaugh, M. L. and N. Gopaldaswamy. Nutritional assessment of the elderly by recumbent anthropometric methods, pp. 53-61. In: Nutrition, Immunity and Illness in the Elderly. Chandra, R. K. (ed.), Pergamon Press, NY, 1985.
194. Chumlea, W. C., Roche, A. F., Mukherjee, D. and M. L. Steinbaugh. Errors of measurement for methods of recumbent nutritional anthropometry in the elderly. J. Nutr. Elderly, 5:3-11, 1985.
195. Chumlea, W. c., Roche, A. F. and D. Mukherjee. Some anthropometric indices of body composition for elderly adults. J. Geront., 41:36-39, 1986.
196. Chumlea, W. C., Guo, S. S. and A. F. Roche. Prediction of body weight for the nonambulatory elderly from anthropometry. J. Am. Diet. Assoc.88:564-568, 1988.
197. Chumlea, W. C., Roche, A. F. and M. L. Steinbaugh. Anthropometric approaches to the nutritional assessment of the elderly. pp. 335-362, In: Human Nutrition: Nutrition, Aging, and the Elderly. Munro H. N. and D. E. Danford, (eds.). Plenum Publishing Corporation, New York, 1989.
198. A. F. Anthropometric data. In: Food Habits in Later Life: A Cross Cultural Study, M. L. Wahlqvist, L. Davies, B. H. H. Hsu-Hage, A. Kouris-Blazos, H. S. Scrimshaw, B. Steen and W. van Staveren, eds. United Nations University Press and Asia Pacific Journal of Clinical Nutrition. On CD rom and disk, 1996.

(iv) CRANIOFACIAL GROWTH

199. Roche, A. F. Increase in cranial thickness during growth. *Hum.Biol.*, 25:81-92, 1953.
200. Roche, A. F., Manuel, K. and F. S. Seward. Unusual patterns of growth in the frontal and parietal bones. *Anat. Rec.*, 152:459-464, 1965
201. Lewis, A. B. and A. F. Roche. Elongation of the cranial base in girls during pubescence. *Angle Orthodont.*, 42:358-367, 1972.
202. Robinow, M. and A. F. Roche. Low-set ears. Invited Editorial Essay. *Am. J. Dis. Child.*, 125:482-483, 1973.
203. Lewis, A. B. and A. F. Roche. Cranial base elongation in boys during pubescence. *Angle Orthodont.*, 44:83-93, 1974.
204. Roche, A. F. and A. B. Lewis. Sex differences in the elongation of the cranial base during pubescence. *Angle Orthodont.*, 44:279-294, 1974.
205. Roche, A. F. and A. B. Lewis. Late growth changes in the cranial base. pp. 221-236, In: *The Basicranium*. J. Bosma (ed.), Department of Health, Education, and Welfare, Pub. No. NIH 76-989, U.S. Dept. Health, Education, and Welfare, Bethesda, Maryland, 1976.
206. Roche, A. F., Lewis, A. B., Wainer, H. and R. McCartin. Late elongation of the cranial base. *J. Dent. Res.*, 56:802-807, 1977.
207. Lewis, A. B. and A. F. Roche. The saddle angle: Constancy or change? *Angle Orthodont.*, 47:465-474, 1977.
208. Ohtsuki, F., Mukherjee, D., Lewis, A. B. and A. F. Roche. Growth of cranial base and vault dimensions in children. *J. Anthrop. Soc. Nippon.*, 90:239-258, 1982.
209. Lewis, A. B., Roche, A. F. and B. Wagner. Growth of the mandible during pubescence. *Angle Orthodont.*, 52:325-342, 1982.
210. Ohtsuki, F., Mukherjee, D., Lewis, A. B. and A. F. Roche. A factor analysis of cranial base and vault dimensions in children. *Am. J. Phys. Anthrop.*, 58: 271-280, 1982.
211. McCall, R. B., Meyers, E. D., Jr., Hartman, J. and A. F. Roche. Developmental changes in head circumference and mental performance growth rates: A test of
212. Epstein's phrenoblysis hypothesis. *Develop. Psychobiol.*, 16:457-468, 1983.
213. Byard, P. J., Lewis, A. B., Ohtsuki, F., Siervogel, R. M. and A. F. Roche. Sibling correlations for cranial measurements from serial radiographs. *J. Craniofacial Genet. and Developmental Biology* 4:265-269, 1984.
- (iv) THE CRANIUM IN DOWN SYNDROME
214. Lewis, A. B., Roche, A. F. and B. Wagner. Pubertal spurts in cranial base and mandible: Comparisons between individuals. *Angle Orthodont.*, 55: 17-30, 1985.

215. Lestrel, P. E. and A. F. Roche. Cranial base shape variation with age: A longitudinal study of shape using Fourier analysis. *Hum. Biol.* 58:527-540, 1986.
216. Roche, A. F., Mukherjee, D. and S. S. Guo. Head circumference growth patterns: Birth to 18 years. *Hum. Biol.*, 58:893-906, 1986.
217. Lewis, A. B. and A. F. Roche. Pubertal spurts in cranial base and mandible: Comparisons within individuals. *Year Book of Dentistry*, 13-14, 1986.
218. Lewis, A. B. and A. F. Roche. Late growth changes in the craniofacial skeleton. *Angle Orthodont.* 58:127-135, 1988.
219. Roche, A. F. and S. Sunderland. Post-mortem observations on mongoloid crania. *J. Neuropath. Exp. Neurol.*, 19:554-558, 1960.
220. Roche, A. F., Seward, F. S. and S. Sunderland. The lateral cranial silhouette in mongolism. *Am. J. Roentgenol.*, 85:653-658, 1961.
221. Roche, A. F., Seward, F. S. and S. Sunderland. Nonmetrical observations on cranial roentgenograms in mongolism. *Am. J. Roentgenol.*, 85:659-662, 1961.
222. Roche, A. F., Seward, F. S. and S. Sunderland. Growth changes in the mongoloid head. *Acta Paediat. (Uppsala)*, 50:133-140, 1961.
223. Roche, A. F. The cranium in mongolism. Critical review. *Acta NeuroScand.*, 42:62-78, 1966.
224. Roche, A. F., Roche, P. J. and A. B. Lewis. The cranial base in trisomy 21. *J. Ment. Defic. Res.*, 16:7-20, 1972.
225. Lestrel, P. E. and A. F. Roche. Fourier analysis of the cranium in trisomy 21. *Growth*, 40:385-398, 1976.
226. Lestrel, P. E. and A. F. Roche. Cranial thickness in Down's syndrome: Fourier Analysis. pp. 109-118 In: *Proc. of the First International Congress of Auxology*. Rome, April, 1977. Centro Auxologica Italiano di Piancavallo, Milan. 1978.

(vi) OTHER ASPECTS OF DOWN SYNDROME

227. Roche, A. F. Skeletal maturation rates in mongolism. *Am. J. Roentgenol.*, 91:979-987, 1964.
228. Roche, A. F. and D. H. Barkla. The eruption of deciduous teeth in mongols. *J. Ment. Defic. Res.*, 8:54-64, 1964.
229. Roche, A. F. The stature of mongols. *J. Ment. Defic. Res.*, 9:131-145, 1965.
230. Roche, A. F. Bone elongation in mongoloid children. *Arch. Mex. Anat.*, 6:3-15, 1965.
231. Roche, A. F. Skeletal elongation and maturation in Down's disease (mongolism). *Eugenics Rev.*, 59:11-21, 1967.
232. Roche, A. F. and D. H. Barkla. The development of the dentition in mongols. *Australian Dental J.*,

12:12-16,1967.

233. Cronk, C. E., Chumlea, W. C. and A. F. Roche. Assessment of overweight in children with Trisomy 21. *Am. J. Ment. Defic.*, 89:433-436, 1985.

(vii) OTOLARYNGOLOGY AND HEARING

234. Roche, A. F. Aural exostoses in Australian aboriginal skulls. *Ann.Otol.* (St. Louis), 73:82-91, 1964.
235. Roche, A. F. and D. H. Barkla. The level of the larynx during childhood. *Ann. Otol.*, 74:645-654, 1965.
236. Roche, A. F., Siervogel, R. M., Himes, J. H. and D. L. Johnson. Longitudinal Study of Hearing in Children: Baseline data from first year concerning auditory thresholds, noise exposure and biological factors. *J. Acoust. Soc. Am.*, 64:1593-1601,1978.
237. Siervogel, R. M., Roche, A. F., Johnson, D. L. and T. Fairman. Longitudinal Study of Hearing in Children. II. Cross-sectional studies of noise exposure as measured by dosimetry. *J. Acoust. Soc. Am.*, 71:372-377,1982.
238. Roche, A. F., Chumlea, Wm. C., Siervogel, R. M. and D. Mukherjee. Iris pigmentation and AC thresholds. *J. Speech Hearing Res.* 26:151-154, 1983.
239. Roche, A. F., Mukherjee, D., Chumlea, W. C. and T. F. Champney. Examination effects in audiometric testing of children. *Scand. Audio1.* 12:251-256, 1983.
240. Roche, A. F., Mukherjee, D., Siervogel, R. M. and W. C. Chumlea. Serial changes in auditory thresholds from 8 to 18 years in relation to environmental noise exposure. *Proc. Fourth International Congress on Noise as a Public Health Problem, Turin, Italy, June, 1983. Vol 1,285296. G. Rossi (ed.). Edizioni Techniche a cura del Centro Ricerche e Studi Amplifon, Milano, Italy, 1983.*
241. Roche, A. F., Siervogel, R. M., Himes, J. H. and D. L. Johnson. Longitudinal Study of Hearing in Children. Auditory threshold levels and 6-month increments. *Studies in Human Ecology*, 7: 135156, 1986.
242. Roche, A. F., Siervogel, R. M., Himes, J. H. and D. L. Johnson. Longitudinal Study of Hearing in Children. Relationships with noise exposure and with blood pressure. *Studies in Human Ecology*, 7:157-176,1986.

(vii) NUTRITION AND BODY COMPOSITION

243. Cahn, A., and A. F. Roche. Influence of illness and calcium intake on rate of skeletal maturation in children. *Brit. J. Nutr.*, 15:411-417, 1961.
244. Roche, A. F. and A. Cahn. Subcutaneous fat thickness and caloric intake in Melbourne children. *Med. J. Austr.*, i:595-597, 1962.

245. Roche, A. F. The influence of tonsillectomy on growth and caloric intake. *J. Pediat.*, 65:360-367, 1964.
246. Roche, A. F. and F. Falkner. The measurement of nutritional status. *Am. J. Clin. Nutr.*, 27: 1259-1260, 1974.
247. Roche, A. F. Anthropometric indices as nutritional indicators. XIV International Congress of Pediatrics. Buenos Aires. 1-12. 1974. Roche, A. F. and F. Falkner. The measurement of nutritional status. *Current Anthrop.*, 16:172-173, 1975.
248. Roche, A. F., Davila, G. H. and E. D. Mellits. Late adolescent changes in weight. pp. 309-318. In: *Biosocial Interrelations in Population Adaptation*. Watts, E.S., Johnston, F.E. and G. W. Lasker, (eds.). Mouton, The Hague, 1975.
249. Roche, A. F. Postnatal growth of adipose tissue in man. *Studies in Physical Anthropology*, 5:53-73, 1979.
250. Roche, A. F. Growth assessment of handicapped children. *Dietetic Currents*, 6:25-30, 1979.
251. Himes, J. H., Roche, A. F. and R. M. Siervogel. Compressibility of skinfolds and the measurement of subcutaneous fatness. *Am. J. Clin. Nutr.* 32:1734-1740, 1979.
252. Himes, J. H., Roche, A. F. and P. Webb. Fat areas as estimates of total body fat. *Am. J. Clin. Nutr.*, 33 :2093-2100, 1980.
253. Pao, E., Himes, J. H. and A. F. Roche. Milk intakes and feeding patterns of breast-fed infants. *J. Am. Dietet. Assoc.* 77:540-545, 1980.
254. Roche, A. F. Possible catch-up growth of the brain. *Acta Medica Auxologica*, 12:165-179, 1980
255. Roche, A. F. The adipocyte number hypothesis. *Child Development*, 52:31-43, 1981.
256. Roche, A. F. Recent advances in child growth and development. pp.321-329. In: *Proc. XI International Congress of Anatomy*. Mexico City, Mexico. S. Federoff (ed.) Alan R. Liss, Inc. New York, 1981.
257. Chumlea, W. c., Knittle, J. L., Roche, A. F., Siervogel, R. M. and P. Webb. Size and number of adipocytes and measures of body fat in boys and girls 10 to 18 years of age. *Am. J. Clin. Nutr.*, 34:1791-1797, 1981.
258. Siervogel, R. M., Roche, A. F., Morris, J. G. and C. J. Glueck. Blood pressure and its relationship to plasma lipids and lipoproteins in children: The Fels Longitudinal Study. *Preventive Medicine*, 10:555-563, 1981.
259. Chumlea, W. c., Roche, A. F., Siervogel, R. M., Knittle, J. L. and P. Webb. Adipocytes and adiposity in adults. *Am. J. Clin. Nutr.*, 34:1798-1803, 1981.
260. Roche, A. F., Siervogel, R. M., Chumlea, W. C. and P. Webb. Grading body fatness from limited anthropometric data. *Am. J. Clin. Nutr.*, 34:2831-2838, 1981
261. Cronk, C. E., Roche, A. F., Kent, R., Berkey, C., Reed, R. B., Valadian, I., Eichorn, D. and R. McCammon. Longitudinal trends and continuity in weight/stature from 3 months to 18 years. *Hum. Biol.*, 54:729-749, 1982.

262. Cronk, C. E., Roche, A. F., Chumlea, W. c., Kent, R. and C. Berkey. Longitudinal trends of weight/stature in childhood in relation to adulthood body fat measures. *Hum. BioI.*, 54:751-764, 1982.
263. Siervogel, R. M., Roche, A. F., Himes, J. H., Chumlea, W. C. and R. McCammon. Subcutaneous fat distribution in males and females from 1 to 39 years of age. *Am. J. Clin. Nutr.*, 36: 162-171, 1982.
264. Chumlea, Wm. c., R. M. Siervogel, A. F. Roche, D. Mukherjee and P. Webb. Changes in adipocyte cellularity in children ten to 18 years of age. *Internat. J. Obesity*. 6: 383-390,1982.
265. Siervogel, R. M., Roche, A. F., Chumlea, W. c., Morris, J. G., Webb, P. and J. L. Knittle. Blood pressure, body composition and fat tissue cellularity in adults. *Hypertension*, 4:382-386, 1982.
266. Cronk, C. E., D. Mukherjee, D. and A. F. Roche. Changes in triceps and subscapular skinfold thickness during adolescence. *Hum. BioI.*, 55:707-722, 1983.
267. Byard, P. J., Siervogel, R. M. and A. F. Roche. Sibling correlations for weight/stature and calf circumference: age changes and possible sex difference. *Hum. BioI.*, 55:677-686, 1983.
268. Cronk, C. E., Roche, A. F., Kent, R., Jr., Berkey, C., Eichorn, D. and R. W. McCammon. Longitudinal trends in subcutaneous fat thickness during adolescence. *Am. J. Phys. Anthropol.* 61:197-204,1983.
269. Chumlea, W. C., Siervogel, R. M., Roche, A. F., Webb, P. and E. Rogers. Increments across age in body composition for children 10 to 18 years of age. *Hum. BioI.* 55:845-852,1983.
270. Mukherjee, D. and A. F. Roche. The estimation of body density, percent body fat and total body fat by maximum R regression equations. *Hum. BioI.* 56:79-109, 1984.
271. Roche, A. F. Research progress in the field of body composition. *Med. Sci. Sports and Exercise* 16: 579-583, 1984.
272. Chumlea, W. C., Roche, A. F. and P. Webb. Body size, subcutaneous fatness and total body fat in older adults. *Int. J. Obesity* 8: 311-317, 1984.
273. Roche, A. F., Rogers, E. and C. E. Cronk. Serial analyses of fat-related variables. pp. 597-602, In: *Human Growth and Development*. Borms, J., Hauspie, R., Sand, A., Susanne, C. and M. Hebbelinck, (eds.). Plenum Publishing Co., New York, 1984.
274. Kouchi, M., Mukherjee, D. and A. F. Roche. Curve fitting for growth in weight during infancy with relationships to adult status, and familial associations of the estimated parameters. *Hum. BioI.* 57:245-265, 1985.
275. Abdel-Malek, A. K., Mukherjee, D. and A. F. Roche. A method of constructing an index of obesity. *Hum. BioI.* 57:415-430, 1985.
276. Roche, A. F., A. K. Abdel-Malek and D. Mukherjee. New approaches to clinical assessment of adipose tissue. pp. 14-19, In: *Body Composition Assessments in Youth and Adults*, A. F. Roche (ed.). Proc. of Sixth Ross Conference on Medical Research, Williamsburg, Virginia, December 1984, Ross Laboratories, Columbus, Ohio, 1985.
277. Roche, A. F. Concluding remarks. pp. 107-108, In: *Body-Composition Assessments in Youth and Adults*, A. F. Roche (ed.) Proc. of Sixth Ross Conference on Medical Research, Williamsburg, Virginia, December 1984, Ross Laboratories, Columbus, Ohio, 1985.

278. Expert Scientific Working Group. Summary of a Report on Assessment of the Iron Nutritional Status of the United States Population. *Am. J. Clin. Nutr.* 42:1318-1330,1985.
279. Pilch, S. M. and F.R. Senti, (eds). Analysis of zinc data from the Second National Health and Nutrition Examination Survey (NHANES II). *J. Nutr.* 115:1393-1397, 1985.
280. Baumgartner, R.N., Roche, A. F., Guo, S. S. Lohman, T. G., Boileau, R. A. and M. H. Slaughter. Adipose tissue distribution: The stability of principal components by sex, ethnicity and maturational stage. *Hum. Biol.*, 58:719-736, 1986.
281. Himes, J.H. and A. F. Roche. Subcutaneous fatness and stature: relationships from infancy to adulthood. *Hum. Biol.* 58:737-750, 1986.
282. Roche, A. F., Baumgartner, R. N. and S. S. Guo. Population Methods: Anthropometry or Estimation. pp. 31-48, In: *Human Body Composition and Fat Distribution*, N. G. Norgan (ed.) Report of an E C Workshop, London, 10-12, December, 1985. Euro-Nut Report Series 1987.
283. Baumgartner, R.N., Roche, A. F., Chumlea, Wm. C., Siervogel, R. M. and C. J. Glueck. Fatness and fat-patterns: Associations with plasma lipids and blood pressures in adults, 18 to 57 years of age. *Am. J. Epidem.* 126:614-628, 1987.
284. Roche, A. F. Skeletal status in normal children. pp.8-11 In: Report Seventh Ross Conference on Medical Research, A. F. Roche (ed.), Ross Laboratories, Columbus, Ohio, 1987.
285. Guo, S. S., Roche, A. F., Chumlea, W. C., Miles, D. S. and R. L. Pohlman. Body composition predictions from bioelectrical impedance. *Hum. Biol.*, 59:221-233, 1987.
286. Roche, A. F. Some aspects of the criterion methods for the measurement of body composition. *Hum. Biol.*, 59:209-220, 1987.
287. Roche, A. F. and S. S. Guo. Development of Predictive Equations. Final Report on Contract EDBCC-00700 from the Institute on Aging, Bethesda, MD., pp. 19, 1987.
288. Baumgartner, R.N., Chumlea, W. C. and A. F. Roche. Associations between bioelectric impedance and anthropometric variables. *Hum. Biol.*, 59:235-244, 1987.
289. Chumlea, W. c., Roche, A. F., Guo S. and B. Woynarowska. The influence of physiologic variables and oral contraceptives on bioelectric impedance. *Hum. Biol.*, 59:257-269, 1987.
290. Siervogel, R. M., Woynarowska, B., Chumlea, W. c., Guo, S. S. and A F. Roche. Bioelectrical impedance measures of body composition: Their relationship with levels of blood pressure in young adults. *Hum. Biol.*, 59:245-255, 1987.
291. Chumlea, W. c., Baumgartner, R. N. and A. F. Roche. Segmental bioelectric impedance measures of body composition. pp. 103-107. In: *In Vivo Body Composition Studies*. Ellis, K. J., Yasumura, S., and W. D. Morgan (eds.). Institute Phys. Sci. Med. London, England, 1987.
292. Roche, A F. and R N. Baumgartner. Tracking in fat distribution during growth. pp. 147-162, In: *Fat Distribution and Metabolic Risk Factors During Growth and Later Health Outcomes*. C. Bouchard and F. E. Johnston (eds.). Alan R. Liss, Inc. New York, 1988.
293. Chumlea, Wm. C. and A F. Roche. Assessment of the nutritional status of healthy and handicapped adults. pp. 115-120, In: *Anthropometric Standardization Manual*. Lohman, T. G., Roche, A F. and R. Martorell (eds.). Human Kinetics Publishers, Inc., Champaign, IL, pp. vi + 177, 1988

294. Chumlea, W. c., Baumgartner, R. N. and A F. Roche. The use of specific resistivity to estimate fat-free mass from segmental body measures of bioelectrical impedance. *Am. J. Clin. Nutr.*, 48:7-15, 1988.
295. Baumgartner, R N., Chumlea, W. C. and A F. Roche. Bioelectric impedance phase angle and body composition. *Am. J. Clin. Nutr.*, 48: 16-23, 1988.
296. Baumgartner, R. N., Heymsfield, S. B., Roche, A F. and M. Bernadino. Quantification of abdominal composition by computed tomography. *Am. J. Clin. Nutr.*, 48:936-945, 1988.
297. Baumgartner, R N. and A F. Roche. Tracking of fat pattern indices in childhood: The Melbourne Growth Study. *Hum. BioI.*, 60:549-567, 1988.
298. Roche, A F., Guo, S. and L. Houtkooper. Biased estimation of fat-free mass. pp. 188-191 In: *Proc. 148th Annual Meeting, American Statistical Association, New Orleans, Louisiana, August 22-25, 1988.*
299. Roche, AF., Guo, S. Baumgartner, R.N., and W.C. Chumlea. Analysis of Data Regarding the Growth of Infants Receiving HA formula. Report to the Nutrition Products Division, Carnation Company, 1988.
300. Roche, A F. Infants, children and adolescents. pp. 179-187 In: *Nutritional Status Assessment of the Individual.* G. E. Livingston, ed. Food and Nutrition Press, Inc., Trumbull, CT, 1989.
301. Baumgartner, R.N., Siervogel, R. M. and A F. Roche. Clustering of cardiovascular risk factors in association with indices of adiposity and adipose tissue distribution in adults. *Am. J. Hum. BioI.* 1 :43-62, 1989.
302. Siervogel, R. M., Baumgartner, RN., Roche, A F., Chumlea, W. C. and C. J. Glueck. Maturity and its relationship to plasma lipid and lipoprotein levels in adolescents: the Fels Longitudinal Study. *Am. J. Hum. BioI.* 1 :217 -226, 1989.
303. Baumgartner, R.N., Chumlea, W. C. and A F. Roche. Estimation of body composition from bioelectric impedance of body segments. *Am. J. Clin. Nutr.* 50:221-226, 1989.
304. Guo, S. S., Roche, A F. and L. Houtkooper. Fat-free mass in children and young adults predicted from bioelectric impedance and anthropometric variables. *Am. J. Clin. Nutr.* 50:435-443, 1989.
305. Roche, A F., Guo S. S. and W. C. Chumlea. Equations to predict fat-free mass in adults. Final Report to RJL Systems, fuc. 27 pp., 1989.
306. Baumgartner, R.N., Siervogel, R. M., Chumlea, W. C. and A F. Roche. Associations between plasma lipoprotein cholesterol, adiposity and adipose tissue distribution during adolescence. *Int. J. Obesity*, 13:31-41, 1989.
307. Byard, P. J., Siervogel, R M. and A F. Roche. An X-linked pattern of inheritance for serial measures of weight/stature². *Am. J. Hum. BioI.* 1:443-449, 1989.
308. Xi, H., Roche, A F. and RN. Baumgartner. Association of adipose tissue distribution with relative skeletal age in boys: The Fels Longitudinal Study. *Am. J. Hum. BioI.*, 1:589-596, 1989.
309. Chumlea, W. C., Vellas, B., Roche, A F., Guo, S. S. and M. Steinbaugh. Particularites et interet des mesures anthropometriques du statut nutritionnel des personnes agees. *Age et Nutrit.*, 1:7-12, 1990

310. Baumgartner, RN., Chumlea, W. C. and A F. Roche. Bioelectric impedance for body composition. *Exercise and Sports Science Reviews*. 18: 193-224, 1990.
311. Ryan, A S., Martinez, G. A and A F. Roche. An evaluation of the associations between socioeconomic status and the growth of Mexican-American children: Data from the Hispanic Health and Nutrition Examination Survey (HHANES 1982-1984). *Am. J. Clin. Nutr.*, 51 :944S-952S, 1990.
312. Ryan, AS., Martinez, G.A, Baumgartner, R.N., Roche, AF., Guo, S. S., Chumlea, W.e. and RJ. Kuczmariski. Median skinfold thickness distributions and fat-wave patterns in Mexican-American children from the Hispanic Health and Nutrition Examination Survey. (H-HANES 1982-1984). *Am. J. Clin. Nutr.*, 51:925S-935S, 1990.
313. Baumgartner, R. N., Roche, A F., Guo, S. S., Chumlea, W. C. and A S. Ryan. Fat patterning and centralized obesity in Mexican-American children in the Hispanic Health and Nutrition Examination Survey (HHANES 1982-1984). *Am. J. Clin. Nutr.*, 51:936S-943S, 1990.
314. Siervogel, R. M., Roche, A F., Guo, S. S., Mukherjee, D. and W. C. Chumlea. Patterns of change in weight/stature² from 2 to 18 years: Findings from long-term serial data for children in the Fels Longitudinal Growth Study. *Int. J. Obesity*, 15:479-485, 1991.
315. Roche, AF., Guo, S. S., Chumlea, W. C. C. and R M. Siervogel. Analysis of Growth Data for infants Receiving Whole Cow's Milk or Different Formulas. Report to the Nutrition Products Division, The Carnation Company, 1991.
316. Roche, A F., Baumgartner, R.N. and S. S. Guo. Anthropometry: Classical and modern approaches. pp. 241-260, in: *New Techniques in Nutrition Research*, R. Whitehead and A Prentice (eds.) Academic Press, New York, 1991.
317. Roche, A F., Guo, S. S., Chumlea, W. C., Siervogel, R. M. and H. J. Khamis. Analysis of Growth Data for Groups of infants Receiving Breast Milk or Formula. Report to the Nutrition Products Division, The Carnation Company, 1991.
318. Baumgartner, R N., Guo, S. S., and A F. Roche. Tracking of lipids and lipoproteins in adolescents from 12 to 22 years of age: The Fels Longitudinal Study. *Ann. N. Y. Acad. Sci.*, 623:406-409, 1991.
319. Byard, P. J., Guo, S. S. and A F. Roche. Family resemblance for patterns of growth in early childhood. *Am. J. Hum. Biol.*, 3:331-338, 1991.
320. Roche, A. F., Guo, S., Siervogel, R M., Chumlea, W. C. and A. Bellisari. New field methods for the study of body composition. pp. 819-827 in: *Nuevas Perspectivas en Antropología*. M. C. Botella, S. A. Jimenez, L. Ruiz, and Ph. du Souich (eds). Granada, Spain, Universidad de Granada, 1991.
321. Roche, A. F. and Siervogel, R. M. Measures of body composition: Their relationship to blood pressure and use in epidemiological research. *Ann. Epidemiol.*, 1:313-319, 1991.
322. Roche, A.F., Guo, S., Chumlea, W. C. c., Siervogel, R. M. and H. J. Khamis. Analysis of Arm Composition in infants Receiving Whole Cow's Milk or Different Formulas. Report to the Nutrition Products Division, The Carnation Company, 1992.
323. Houtkooper, C. B., Going, S. B., Lohman, T. G., Roche, A. F., and Van Loan, M. Bioelectric impedance estimation of fat-free mass in children and youth: A cross-validation study. *J. Appl. Physiol.*, 72:366-373, 1992.
324. Roche, A. F. and W. C. Chumlea. New approaches to the clinical assessment of adipose tissue. pp.

- 55-66 ill: Obesity. B. N. Brodoff and P. Bjorntorp, (eds). Philadelphia, J. B. Lippincott Co., 1992.
325. Roche, A. F., and S. S. Guo. Tracking from childhood to adulthood in risk factors for cardiovascular diseases. *Dayton Medicine*. 81-82, 1992.
326. Wellens, R., Malina, R. M., Roche, A. F., Chumlea, W. C., Guo, S. S. and R. M. Siervogel. Body size and fatness in young adults in relation to age at menarche. *Am. J. Hum. Biol.*, 4:783-787, 1992.
327. Roche, A. F. and S. S. Guo. Development, testing and use of predictive equations for body composition measures. pp. 1-6 ill: *Recent Developments in Body Composition Analysis: Methods and Applications*. J G. Kral, T B. Van Itallie (eds.), London, Smith Gordon, 1993.
328. Bellisari, A., Roche, A. F. and R. M. Siervogel. Reliability of B-mode ultrasonic measurements of subcutaneous and intra-abdominal adipose tissue. *illt. J. Obesity*, 17:475-480, 1993.
329. Guo, S. S., Beckett, L., Chumlea, W. C., A. F. Roche and R. M. Siervogel. Serial analysis of plasma lipids and lipoproteins from 9 to 21 years. *Am. J. Clin. Nutr.*, 58:61-67, 1993.
330. Roche, A. F., Guo, S. S. and R. M. Siervogel. Obesity in children and adolescents: Development of predictive equations and their application to epidemiologic studies. *Crit. Rev. Food Sci. and Nutr.*, 33:327-331, 1993.
331. Roche, A. F., Guo, S., Siervogel, R. M., Khamis, H. J. and R. K. Chandra. Growth comparison of breast-fed vs formula-fed infants. *Canad. J. Publ. Health*, 84:132-136, 1993.
332. Roche, A. F. Methodological considerations in the assessment of childhood obesity. *Annals New York Acad. Sci.* 699:6-17, 1993.
333. Roche, A. F., Wilson, M. E., Siervogel, R. M. and S. S. Gidding. Lipids, growth and development. *Metabolism* 42: Suppl. 1,36-44, 1993.
334. Guo, S. S., Chumlea, W. C., Siervogel, R. M. and A. F. Roche. The Carnation Multicenter Longitudinal Study of Growth. Comparison of the effects of infant formulae on the growth of infants from birth to 3 months of age. Report to the Nutrition Products Division, The Carnation Company, 1993.
335. Michaelsen, K. F., Roche, A. F., Northeved, A., Culmsee, J., Boska, M., Guo, S. S., Wellens, R. and R. M. Siervogel. The use of high frequency energy absorption (HFEA) to measure limb musculature. pp. 359-362 In: *Human Body Composition: In Vivo Methods, Models and Assessment*. K. J. Ellis and J. D. Eastman (eds.). New York, Plenum Press, 1993.
336. Guo, S., Chumlea, W.e., Wu, X., Wellens, R., Roche, A.F. and R. M. Siervogel. A comparison of body composition models. pp.27-30 In: *Human Body Composition: ill Vivo Methods, Models and Assessment*. K.J. Ellis, J.D. Eastman (eds.). New York, Plenum Press, 1993.
337. Wellens, R., Roche, A. F., Guo, S., Chumlea, W. C. and R. M. Siervogel. Fat-free mass and percent body fat assessments by dual-energy x-ray absorptiometry, densitometry and total body water. pp.71-74 In: *Human Body Composition: In Vivo Methods, Models and Assessment*. K. J. Ellis and J. D. Eastman (eds.). New York, Plenum Press, 1993.
338. Roche, A.F. Sarcopenia: A critical review of its measurement and health-related significance in the middle-aged and elderly. *Am. J. Hum. Biol.* 6:33-42, 1994
339. Wellens, R., Roche, A. F., Boska, M. D., Guo, S., Michaelsen, K. F. and R. M. Siervogel. High

frequency energy absorption and the measurement of limb muscle. (Unpublished ms.)

340. Roche, A. F. Physical Growth and Development: Universal Changes and Individual differences. pp.4468-4474 In: The International Encyclopedia of Education, 2nd Ed., Husen, T. and T.N. Postlethwaite, Eds. Oxford, Pergamon Press, 1994.
341. Guo, S. S., Chumlea, W. e., Roche, A. F., Siervogel, R. M. and J. D. Gardner. The predictive value of childhood body mass index values for overweight at age 35 y. *Am. J. Clin. Nutr.* 59:810-819, 1994.
342. Wellens, R., Chumlea, W. C., Guo, S. S., Roche, A. F., Reo, N. V. and R. M. Siervogel. Body composition in white adults by dual-energy x-ray absorptiometry, densitometry and total body water. *Am. J. Clin. Nutr.* 59:547-555, 1994.
343. Guo, S. S., Salisbury, S., Roche, A. F., Chumlea, W. e. and R. M. Siervogel. Cardiovascular risk factors and body composition: A review. *Nutrition Research*, 14:1721-1777, 1994.
344. Roche, A. F. and S. S. Guo. Tracking: Its analysis and significance. *Humanbiologica Budapestinensis*, 25:465-469, 1994.
345. Ryan, A. S., Roche, A. F., Wellens, R. and S. S. Guo. Relationship of blood pressure to fatness, and fat patterning in Mexican American adults from the Hispanic Health and Nutrition Examination Survey (HHANES, 1982-1984). *Collegium Anthropologicum*, 18:89-99, 1994.
346. Guo, S. S., Chumlea, W. M., Roche, A. F. and R. M. Siervogel. The Carnation Two-site Longitudinal Study of Infant Growth. Report to the Nutrition Products Division, The Carnation Company, 70 pp., 1994.
347. Roche, A. F., Guo, S., Wellens, R., Chumlea, W. C., Wu, X. and R. M. Siervogel. Fat-free mass from DEXA and from other procedures. Proc. of Satellite Meeting to XV International Congress of Nutrition. "Appropriate Technology in Body Composition." *Asia Pacific J. Clin. Nutr.*, 4:182-185, 1995.
348. Roche, A. F., Wellens, W., Guo, S., Siervogel, R. M., Boska, M. D., A Northeved and K. F. Michaelsen. High frequency energy absorption and the measurement of muscle mass. Proc. of Satellite Meeting to XV International Congress of Nutrition. "Appropriate Technology in Body Composition." *Asia Pacific J. Clin. Nutr.*, 4:199-201, 1995.
349. Roche, A. F. Body composition of ethnic groups in the U.S. Proc. of Satellite Meeting XV International Congress of Nutrition. "Appropriate Technology in Body Composition." *Asia Pacific J. Clin. Nutr.*, 4:63-67, 1995.
350. Roche, A. F. The significance of sarcopenia in relation to health. Proc. of Satellite Meeting to XV International Congress of Nutrition. "Appropriate Technology in Body Composition." *Asia Pacific J. Clin. Nutr.* 4:129-132, 1995.
351. Baumgartner, R. N., Heymsfield, S. B. and A. F. Roche. Human body composition and the epidemiology of chronic disease. *Obesity Research*, 3:73-95, 1995
352. Roche, A. F. and W. Haskell. Annotated Bibliography of Epidemiological Methods in Cardiovascular Research. Chapter 12. Body Composition. For Committee on Criteria and Methods of the Council on Epidemiology, AHA Internet Gopher, 1995.
353. Roche, A. F. Anthropometry and ultrasound pp. 167-190 In: Human Body Composition. A. F. Roche, S. B. Heymsfield and T. G. Lohman (eds.) Champaign, IL; Human Kinetics, 1996.

354. Wellens, R., Roche, A F., Khamis, H., Jackson, A S., Pollock, M. L. and R. M. Siervogel. Relationships between the body mass index and body composition. *Obesity Research*, 4:35-44, 1996.
355. Fuchs, G. J., Clemens, R. A, Hutchinson, S. W., Dewier, M., Roche, A F., Guo, S. S., Chumlea, W. C., Khamis, H. J., Witherly, S. A, Merritt, J., Suskind, R. M. and R. M. Siervogel. Growth of older infants fed low-fat formula. *Nutr. Res.*16:391-400, 1996.
356. Roche, A F. Tracking in body composition and risk factors for cardiovascular disease from childhood to middle age. Pp. 79-90 In: *Children and Exercise XVIII. Exercise and Fitness-Benefits and Risks*. K. Froberg, O. Lammert, H. S. Hansen and C.J.R. Blinkie (eds.). Odense, Denmark, Odense University Publications, 1997.
357. Roche, A F. Physical growth and development: Universal changes and individual differences. In: *International Encyclopedia of Developmental and Instructional Psychology*. E. de Corte and F. Weinert, eds. Oxford, UK, Elsevier Science Ltd. 178-184, 1996.
358. Guo, S. S., Wisemandle, W. A, Tyleshevski, F. E., Roche, A. F., Chumlea, W. c., Siervogel, R. M., Specker, B. and J. Heubi. Inter-machine and inter-method differences in body composition measures from dual energy, x-ray, Absoptometry and Hydrodensitometry. *Age & Nutrition*. 8:12-21, 1997.
359. Roche, A F. and S. S. Guo. Selection of variables, timing of examinations, and retention. pp.6783 In: *Clinical Trials in Infant Nutrition*. J. Perman and J. Rey (eds.). Proc. 40th Nestle Nutrition Workshop Series 40. Philadelphia, Vevey/Lippincott-Raven Press, pp. 67-84, 1997
360. Guo S. S., Chumlea, W. C., Roche, A F. and R. M. Siervogel. Age- and maturity-related changes in body composition during adolescence into adulthood: The Fels Longitudinal Study. *Int. J. Obesity* 21: 1167-1175, 1997.
361. Siervogel, R. M., Wisemandle, W., Guo, S. S., Chumlea, W. e., Towne, B. and A. F. Roche. Adult changes in body composition are associated with changes in cholesterol levels: The Fels Longitudinal Study. Proc. *In Vivo Body Composition Studies. Appl. Radiat. Isot.* 49:727-729, 1998.
362. Guo, S. S., Chumlea, W. C., Roche, A. F. and R. M. Siervogel. Age-and maturity-related changes in body composition during adolescence into adulthood: The Fels Longitudinal Study. *Prog. Appl. Radiat. and Isot.* 49:581-585, 1998.
363. Guo, S. S., Chi, E., Wisemandle, W., Chumlea, W. C., Roche, A. F. and R. M. Siervogel. Serial changes in blood pressure from childhood into young adulthood for females in relation to body mass index and maturational age. *Am. J. Hum. Biol.* 10:589-598, 1998
364. Maynard, L. M., Guo, S. S., Chumlea, W. C., Roche, A. F., Wisemandle, W. A., Zeller, C. M., Towne, B. and R. M. Siervogel. Total- body and regional bone mineral content and areal bone density in children aged 8 to 18 years: The Fels Longitudinal Study. *Am. J. Clin. Nutr.* 68:1111-1117, 1998.
365. Siervogel, R. M., Wisemandle, W., Guo, S. S., Roche, A. F., Chumlea, W. e. and B. Towne. Serial changes in body composition throughout adulthood and their relationships to changes in lipid and lipoprotein levels: The Fels Longitudinal Study. *Arteriosclerosis, Thrombosis and Vascular Biology* 18: 1759-1764, 1998.
366. Siervogel, R. M., Maynard, L. M., Wisemandle, W. A., Roche, A. F., Guo, S. S., Chumlea, W.e. and B. Towne. Annual changes in total body fat (TBF) and fat free mass (FFM) in children from 8 to 18-years in relation to changes in body mass index (BMI): The Fels Longitudinal Study. *Annals of New York Academy of Science* 904:420-423, 2000.

367. Maynard L. M., Wisemandle W. A., Roche A. F., Chumlea W. e., Guo S. S. and R. M. Siervogel. Childhood body composition in relation to body mass index: The Fels Longitudinal Study. *Pediatrics* 107:344-350,2001.
368. Nguyen T. V., Maynard L. M., Towne, B., Roche A. F., Wisemandle W. A., Li, J., Guo S. S., Chumlea W. C. and R. M. Siervogel. Sex-differences in bone mass acquisition during growth: The Fels Longitudinal Study. *J. Clin. Densitometry* 4: 147-157,2001.
369. Demerath E. W., Guo S. S., Chumlea W. e., Towne B., Roche A. F. and R. Moo Siervogel. Comparison of percent body fat estimates using air displacement plethysmography and hydrodensitometry in adults and children. *Int. J. Obes.* 26:389-397, 2002.
370. Guo, S. S., Wu, W., Chumlea, W. C., Siervogel, R. M., and A. F. Roche. Prediction of overweight and obesity from childhood BMI. *Am. J. Clin. Nutr.* 76:653-658,2002.adulthood
371. Demerath E. W., Towne B., Roche A. F., Wisemandle W. A., Blangero J., Chumlea W. C., Guo S. S. and R. M. Siervogel. Relationships between changes in serum leptin concentration and changes in body composition in pre-pubertal children, adolescents, and young adults. *Obes. Res.:(under review)*, 2002.
372. Roche, A. F., Towns, J. W. and H. N. B. Wettenhall. Influence of Norethandrolone on the stature of short children. *J. Pediat.*, 63:967-976, 1963.
373. Wettenhall, H. N. B. and A. F. Roche. Tall girls: assessment and management. *Austr. Paed. J.*, 1:210-216,1965.
374. Roche, A. F. and H. N. B. Wettenhall. The assessment and treatment of potentially tall girls. *Proc. XII Internat. Congo Pediat.*, Mexico City, Mexico, 3:582-583, 1968.
375. Roche, A. F. and H. N. B. Wettenhall. The prediction of adult stature in tall girls. *Austr. Paed. J.*, 5:13-22,1969.
376. Roche, A. F. and N. Y. French. Rapid changes in weight and growth potential during childhood. *Am. J. Phys. Anthropol.*, 31:231-233,1969.
377. Roche, A. F., Eyman, S. L. and G. H. Davila. Skeletal age prediction. *J. Pediat.*, 78:997-1003, 1971.
378. Roche, A. F., Wainer, H. and D. Thissen. The RWT method for predicting adult stature. *Compte Rendu de La XIIIe Reunion des Equipes Chargees des Etudes sur la Croissance et le Developpement de l'enfant Normal.* Paris, France, 50-62, 1974.
379. Wettenhall, H. N. B. and A. F. Roche. Tall girls: Review of estrogen therapy. *Proc. XIV Internat. Congo Pediat.*, Buenos Aires, Argentina, 5:95-101, 1974.
380. Roche, A. F., Wainer, H., and D. Thissen, The prediction of growth in individual children. *Proc. XIV Internat. Congo Pediat.*, Buenos Aires, Argentina. No. 5005, pp. 1-11, 1974.
381. Roche, A. F., Wainer, H. and D. Thissen. The RWT method for the prediction of adult stature. *Pediatrics*, 56:1026-1033, 1975.
382. Wettenhall, H. N. B., Cahill, C. and A. F. Roche. Tall girls: A survey of 15 years management and treatment. *J. Pediat.*, 86:602-610, 1975.
383. Roche, A. F. and H. N. B. Wettenhall. Stature prediction in short boys. *Austr. Paed. J.*, 13:261-264,

1977.

384. Wainer, H., Roche, A. F. and S. Bell. Predicting adult stature without skeletal age and without paternal data. *Pediatrics*, 61 :569-572, 1978.
385. Roche, A. F. and W. C. Chumlea. Serial changes in predicted adult statures for individuals. *Hum. Biol.*, 52:507-513, 1980.
386. Roche, A.F. Adult stature prediction: critical review. *Acta Med Auxol*,16:5-28, 1984.
387. Khamis, H. J. and A. F. Roche Update of Bayley-Pinneau stature prediction method. Report to Genentech, Inc., unpublished, 1991.
388. Khamis, H. J. and A. F. Roche. Predicting adult stature without using skeletal age: The KhamisRoche method. *Pediatrics*, 94:504-507, 1994.
389. Khamis, H. J. and A. F. Roche. Growth outcome of "normal" short children who are retarded in skeletal maturation. *J. Ped. Endocrin.*, 8:85-96, 1995.
390. Roemmich, J. N., Blizzard, R. M., Peddada, S. D., Malina, R. M., Roche, A. F., Tanner, J. M. and A. D. RogoI. Longitudinal assessment of hormonal and physical alterations during normal puberty in boys. IV. Predictions of adult height by the Bayley-Pinneau, Roche-Wainer-Thissen, and Tanner-Whitehouse methods. *Am. J. Hum. Biol.* 9:371-380, 1997.
391. Roche, A. F. Introduction to Symposium. Some aspects of adolescent physiology. *Hum. Biol.*, 46:115-116, 1974.
392. Roche, A. F. Some aspects of adolescent growth and maturation. pp. 33-56, In: *Nutrient Requirements in Adolescence*. McKigney, J. 1., and H. N. Munroe, (eds.). The MIT Press, Cambridge, Mass., 1975.
393. Roche, A. F. Growth after puberty. pp. 17-53, In: *Youth in a Changing World. Cross-Cultural Perspectives on Adolescence*. E. Fuchs, (ed.) Mouton, The Hague, The Netherlands, 1976.
394. Roche, A. F., Davila, G. H. and E. D. Mellits. Late adolescent changes in weight. pp. 309-318, In: *Biosocial Interrelations in Population Adaptation*. Watts, E. S., Johnston, F. E. and G. W. Lasker, (eds.). Mouton, The Hague, The Netherlands, 1975.
395. Roche, A. F. Growth after puberty. pp. 17-53, In: *Youth in a Changing World. Cross-Cultural Perspectives on Adolescence*. E. Fuchs, (ed.) Mouton, The Hague, The Netherlands, 1976.
396. Roche, A. F., Davila, G. H. and E. D. Mellits. Late adolescent changes in weight. pp. 55-64, In: *Youth in a Changing World. Cross-Cultural Perspectives on Adolescence*. E. Fuchs,(ed.). Mouton, The Hague, The Netherlands, 1976.
397. Roche, A. F. and W. C. King. *Humanself*. Experimental edition. Biological Sciences Curriculum Study, Boulder, Colorado, 1972.
398. *Pediatric Anthropometry*. Consultant for film made by Ross Laboratories, Columbus, Ohio. First Prize Health Sciences Communication Association and Network for Continuing Medical Education Award. 1980.
399. Consultant for film. *Pediatric Anthropometry*. Ross Products Division of Abbott Laboratories, Columbus, OH, 2000.

(viii) REFERENCE DATA

400. Roche, A. F. and P. V. V. Hamill. United States Growth Charts. pp. 133-138, In: *Auxology: Human Growth in Health and Disorder*. Gedda, L., and P. Parisi, (eds.), Academic Press, London, England, 1978.
401. Hamill, P. V. V., Drizd, T. A., Johnson, C. L., Reed, R. B., Roche, A. F. and W. M. Moore. Physical growth: National Center for Health Statistics percentiles. *Am. J. Clin. Nutr.*, 32:607-629, 1979.
402. Roche, A. F. and J. H. Himes. Incremental growth charts. *Am. J. Clin. Nutr.*, 33:2041-2052, 1980.
403. Cronk, C. E. and A. F. Roche. Race- and sex-specific reference data for biceps and subscapular skinfolds and weight/stature². *Am. J. Clin. Nutr.*, 35:347-354, 1982.
404. Baumgartner, R. N., Roche, A. F. and J. H. Himes. Incremental growth tables. *Am. J. Clin. Nutr.*, 43:711-722, 1986.
405. Roche, A. F., Mukherjee, D., Guo, S. S. and W. M. Moore. Head circumference reference data: birth to 18 years. *Pediatrics*, 79: 706-712, 1986.
406. Guo, S., Roche, A. F. and W. M. Moore. Reference data for head circumference and one-month increments from one to twelve months. *J. Ped.*, 113:490-494, 1988.
407. Roche, A. F. and S. Guo. Comment on "Fitting smoothed centile curves to reference data" by T. J. Cole. *J. Royal Stat. Soc. A*. 181:414, 1988.
408. Roche, A. F., Guo, S. S. and W. M. Moore. Weight and recumbent length from 1 to 12 mo of age: Reference data for 1 mo-increments. *Am. J. Clin. Nutr.* 49:599-607, 1989.
409. Roche, A. F., Guo, S. S. and D. L. Yeung. Monthly growth increments from a longitudinal study of Canadian infants. *Am. J. Hum. Biol.* 1:271-280, 1989.
410. Guo, S. S., Roche, A. F., Baumgartner, R. N., Chumlea, W. C. and A. S. Ryan. Kernel regression for smoothing percentile curves: reference data for calf and subscapular skinfold thicknesses in Mexican-Americans. *Am. J. Clin. Nutr.*, 51:908S-916S, 1990.
411. Roche, A. F., Guo, S. S., Baumgartner, R. N., Chumlea, W. M., Ryan, A. S. and R. J. Kuczmarksi. Reference data for weight, stature and weight/stature² in Mexican-Americans from the Hispanic Health and Nutrition Examination Survey (HHANES 1982-1984). *Am. J. Clin. Nutr.*, 51 :917S-924S, 1990.
412. Guo, S. S., Roche, A. F. and D. L. Yeung. Monthly growth status from a longitudinal study of Canadian infants. *Canad. J. Public Health*, 81:215-221, 1990.
413. Guo, S. S., Roche, A. F., Fomon, S.J., Nelson, S.B., Chumlea, W. C., Rogers, R. R., Baumgartner, R.N., Ziegler, E. E. and R. M. Siervogel. Reference data on gains in weight & length during the first two years of life. *J. Pediatrics*, 19:355-362, 1991.
414. Guo, S. S., Salisbury, S., Roche, A. F., Chumlea, C. and R. M. Siervogel. Provision of reference data for gains in weight, length, and head circumference for preterm infants. A multicenter longitudinal

study. Report to Ross Product Division, Abbott Laboratories, Columbus, OH. November, 1993.

415. Wellens, R., Roche, A F., Ryan, AS., Guo, S. S. and R. J. Kuczmarski. Head circumference reference data for Mexican Americans from the Hispanic Health and Nutrition Examination survey (HHANES 1982-1984): Comparisons with whites and Blacks from NHANES II (1976-1980). *Am. J. Hum. Biol.* 7:255-263, 1995.
416. Moore, W. M., Guo, S. S. and A F. Roche. Body surface area of infants. Report to Ross Laboratories, 1990. (unpublished).
417. Guo, S.S., K. Wholihan, and AF. Roche. Provision of weight- for-length and head circumference-for-length reference data for preterm low birth weight infants from a multicenter longitudinal study. Report to Ross Products Division, Abbott Laboratories, Columbus, OH, 1995.
418. Ryan, A S., Wellens, R., Roche, A F. and R. J. Kuczmarski. Reference data for arm muscle and arm adipose tissue areas in Mexican-American children from the Hispanic Health and Nutrition Examination Survey (HHANES 1982-1984): Comparisons with whites and blacks from NHANES II (1976-1980). *Am. J. Hum. Biol.*, 8:389-404, 1996.
419. Guo, S. S., Wholihan, K., Roche, A F., Chumlea, W.C. and P. H. Casey. Weight-for-length reference data for preterm, low birth weight infants. *Arch. Ped. and Adol. Med.* 150:964-970, 1996
420. Guo, S. S., Roche, A F., Chumlea, W. c., Casey, P. H. and W. M. Moore. Growth in weight, recumbent length, and head circumference for preterm low-birth-weight infants during the first three years of life using gestation-adjusted ages. *Early Hum. Dev.* 47:305-325, 1997.
421. Roche, A F., Guo, S. S., Wholihan, K. and P. H. Casey. Reference data for head circumference-for length in preterm low birth weight infants. *Arch. Ped. and Adol. Med.* 151:50-57, 1997.
422. Guo, S. S., Roche, A. F., Chumlea, W. C., Casey, P. H., and W. M. Moore. Adjustments to the observed growth of preterm low-birth weight infants for application to infants who are small for gestational age at birth. *Acta Med. Auxoi.* 30:71-88, 1998.
423. Ryan, A.C., Roche, A.E. and R.J. Kuczmarski. Weight, stature and body mass index data for Mexican Americans from the Third Health and Nutrition Examination Survey (NHANES III; 1988-1996). *Am.J. Hum. Biol.* 11:673-686, 1999.
424. Guo, S. S., Roche, A. F. and W. M. Moore. The revised U.S. national growth charts. *Nutrition and M.D.* 25:1-4, 1999.
425. Kuczmarski R. J., Ogden, C. L., Grummer-Strawn L. M., Flegal K. M., Guo S. S., Wei R., Mei Z., Curtin L. R., Roche A. F. and C. L. Johnson. CDC Growth Charts: United States. *Advance Data* 314:1-28,2000.
426. Roche, A. F., Guo, S. S. The New Growth Charts. *Pediatric Basics* 94:2-13, 2001.
427. Ogden, C. L., Kuczmarski, R. J., Flegler, K. M., Mei, Z., Guo, S. S., Wei, R., Grummer-Strawn, L., Curtin, L., Roche, A. F. and C. Johnson. CDC 2000 clinical growth charts for the United States: Improvements to the 1977 NCHS version. *Pediatrics* 109:45-60,2002.
428. Kuczmarski, R. J., Kuczmarski, M. F., Roche, A. F. 2000 CDC growth charts: Background for clinical application. *Topics in Clinical Nutrition* 17: 15-26,2002.
429. Kuzmarski, R. J., Ogden, C. L., Guo, S.S., Grummer-Strawn, L. M., Flegal, K.M., Mei, Z., Wei, R.,

Curtin, L.R., Roche, A.F. and C. L. Johnson. 2000 CDC Growth Charts for the United States: Methods and Development. National Center for Health Statistics, Vital and Health Stat. 11(246): 1-190,2002.

(viii) DERMATOGLYPHICS

430. Siervogel, R. M., Roche, A. F. and E. M. Roche. Developmental fields for digital dermatoglyphic traits revealed by multivariate analysis. *Hum Biol*,50:541-556, 1978.
431. Roche, A. F., Siervogel, R. M. and E. M. Roche. Digital dermatoglyphics in a white population from Southwestern Ohio. pp. 389-409, ill: Dermatoglyphics -- 50 Years Later. Wertelecki, W., Plato, C. c., and D. Bergsma (eds.), *The American Dermatoglyphics Association and the National Foundation, March of Dimes*. Alan R. Liss, New York, NY., 1979.
432. Siervogel, R. M., Roche, A. F. and E. M. Roche. The identification of developmental fields using digital distributions of fingerprint patterns and ridge counts. pp. 135-147, ill: Dermatoglyphics -- 50 Years Later. Wertelecki, W., Plato, C. C., and D. Bergsma, (eds.), *The American Dermatoglyphics Association and the National Foundation, March of Dimes*. Alan R. Liss, New York, NY., 1979.
433. Roche, E. M., Roche, A. F. and R. M. Siervogel. Absence of triradius D in a three-generation pedigree and other variations of main-line D. *Am. J. Phys. Anthrop.*, 51:389-392,1979.
434. Roche, A. F. and S. Sunderland. Axon-myelin relationships in peripheral nerve fibers. *Acta Anat.*, 33:1-37,1958.

(ix) MISCELLANEOUS

435. Roche, A. F. Functional anatomy of the muscles of mastication. A critical review. *J. Pros. Dent.*, 13:548-570, 1962.
436. Roche, A. F., Barkla, D. H., Jago, J. D. and J. S. Maritz. Possible sex differences in incidence of caries in deciduous canines and molars. *Arch. Oral Biol.*, 11 :201-208, 1966.
437. Roche, A. F. and J. W. Towns. Age-associated changes in the shape of the lateral silhouette of the trunk. *Growth*, 32:205-210, 1968.
438. Roche, A. F. and L. W. Sander. The interdisciplinary nature of SRCDD. *Society for Research in Child Development Newsletter*. Summer, 5-6, 1979.
439. Siervogel, R. M., Frey, M. A. B., Kezdi, P., Roche, A. F. and E. L. Stanley. Blood pressure, electrolytes and body size: Their relationships in young relatives of men with essential hypertension. *Hypertension* 2:183-192, 1980.
440. Roche, A. F. Possible catch-up growth of the brain in man. *Acta Med. Auxol.* 12: 165-179, 1980.
441. Roche, A. F. Concluding remarks after Symposium "Growth in Primates." *Hum. Biol.*, 54: 71-75,

1982.

442. Spence, M. A., Falk, C. T., Neiswanger, K., Field, L. L., Allen, F. H., Jr., Siervogel, R. M., Roche, A. F., Crandall, B. F., Marazita, M. L. and R. S. Sparkes. Estimating the recombination frequency for the RTC-Kelllinkage. *Hum. Genet.* 67: 183-186, 1984.
443. Woynarowska, B., Mukherjee, D., Roche, A. F. and R. M. Siervogel. Blood pressure changes during adolescence and subsequent adult blood pressure levels. *Hypertension*, 7:695-701, 1985.
444. Roche, A. F. Obituary: William Walter Greulich, 1899-1986. *Am. J. Phys. Anthropol.*, 72:273-276, 1987.
445. Roche, A. F. Obituary: William Walter Greulich, 1899-1986. *Newsletter, Soc. Res. Child Developm.*, 8, Spring, 1987.
446. Olsen, J. M., Boehnke, M., Neiswanger, K., Roche, A. F. and R. M. Siervogel. Alternative genetic models for the inheritance of the phenylthiocarbamide (PTC) taste deficiency. *Genetic Epidemiology*, 6:423-434, 1989.
447. Roche, A.F. Recent work on growth, maturation and body composition: A personal retrospective. *Acta Med. Auxol.*, 24:137-148,1992.
448. Beckett, L. A., Rosner, B., Roche, A. F. and Guo, S. Serial changes in blood pressure from adolescence into adulthood. *Am. J. Epidem.*, 135:1166-1177, 1992
449. Roche, A. F. Lester W. Sontag. P. 968 in *Garland Encyclopedia of Physical Anthropology*. ed. F. Spencer, New York, Garland Publishing, 1997.
450. Roche, A. F. Fels Research mstitute. Pp. 381-382 in *History of Physical Anthropology*, ed. F. Spencer, New York, Garland Publishing, 1997.
451. Williams, B. H. and A. F. Roche. Obituary. Arthur Bedward Lewis 1909-1996. *Angle Orthodontist* 66:317, 1996.
452. Park, W. J., Li, J. and A. F. Roche. The decanalization of weight, recumbent length, and head circumference during infancy. *Am. J. Hum. Biol.*9:689-698, 1997.
453. Li, J., Park, W. J. and A. F. Roche. Decanalization of weight and stature during childhood and adolescence. *Am. J. Hum. Biol.*10:351-360,1998.
454. Roche, A. F. and J. Li. mterpreting changes in percentile levels for growth. *Ped. Forum* 9:30-34, 1998.
455. Roche, A. F. and V. A. Beal. Obituary. Robert William McCammon. *Am. J.Hum. Biol.* 13:153-154, 2001.

ABSTRACTS

456. Roche, A. F. The influence ofnorethandrolone on growth increments in short children. *Proc. of the Second Pan-Pacific Science Congress, Sydney, Australia, 1962.*

457. Roche, A. F. Aging in man. Proc. of the Thirty-Seventh Congress, Australian and New Zealand Association for the Advancement of Science, 1963.
458. Roche, A. F. Aging in the human skeleton. Proc. of the Annual Meeting, Australian Gerontological Society, Canberra, 1965.
459. Roche, A. F. The radiological demonstration of sites of elongation in human metatarsals and metacarpals. XIth internat. Congo Radiology, Rome. International Congress Series No. 89, Exc. Med. Found., 221-222, 1965.
460. Roche, A. F. The sites of elongation of human metacarpals and metatarsals. Proc. International Anatomical Congress, Wiesbaden, Germany, June, 1965.
461. Roche, A. F. The sites of elongation of human metacarpals and metatarsals. *J. Anat.*, 99:948, 1965.
462. Roche, A. F. Stature in mongoloids. *J. Anat.*, 100:948, 1966.
463. Roche, A. F. Difficulties associated with the study of growth and development in mentally deficient children. Proc. of the 1st Congress of the International Association for the Scientific Study of Mental Deficiency. Montpellier, France, 1967.
464. Roche, A. F. Absence of the lunate. *J. Anat.*, 103:222, 1968.
465. Roche, A. F. Sex-associated differences in skeletal maturation. *J. Anat.*, 103:219, 1968.
466. Roche, A. F. The assessment and treatment of potentially tall girls. Proc. of the Xth International Congress of Pediatrics, Mexico City, Mexico, 1968.
467. Roche, A. F. Secular changes in growth and maturation. Proc. Biennial Meeting, Society for Research in Child Development, New Orleans, Louisiana, April, 1970.
468. Roche, A. F. Differences in skeletal maturity between the knee and the hand. *Am. J. Anat.*, 1970.
469. Roche, A. F. Replicability of Greulich-Pyle assessments of skeletal maturity. *Am. J. Phys. Anthropol.*, 33:142, 1970.
470. Roche, A. F. The elongation of the human cervical vertebral column. *Anat. Rec.*, 169:412, 1971.
471. Murray, J., Bock, R. D. and A. F. Roche. The measurement of skeletal maturity. *Am. J. Phys. Anthropol.*, 35:290, 1971.
472. Roche, A. F. and G. H. Davila. The age of cessation of growth in stature. *Am. J. Phys. Anthropol.*, 37:448, 1972.
473. Roche, A. F. Differential timing of maximum length increments among bones within individuals. Proc. of the Biennial Meeting of the Society for Research in Child Development. Philadelphia, 1973.
474. Roche, A. F. Introductory address to Symposium. Proc. of the Biennial Meeting for the Society for Research in Child Development. Philadelphia, 1973.
475. Roche, A. F. Some aspects of adolescent growth and nutrition. Proc. of the Adolescent Nutrition Conference, National Institute of Child Health and Human Development, Airlie, VA, 1973.
476. Roche, A. F. Growth after puberty. Proc. of the International Research Conference on Adolescence, IXth International Congress of Anthropological and Ethnological Sciences, Oshkosh, WI, 1973.

477. Roche, A. F. Weight changes after puberty. Proc. of the International Research Conference on Adolescence. IXth International Conference of Anthropological and Ethnological Sciences, Oshkosh, WI, 1973.
478. Roche, A. F. Late adolescent changes in weight. Proc. of the Conference on Biosocial Interrelations in Population Adaptation. Annual Meeting of the Society for the Study of Human Biology, Detroit, MI, 1973.
479. Roche, A. F. Differential timing of spurts between bones within individuals. *Am. J. Phys. Anthrop.*, 40:149, 1974.
480. Roche, A. F. The prediction of adult stature from childhood variables. *Am. J. Phys. Anthrop.*, 41:501, 1974.
481. Roche, A. F. Measurement of the nutritional status of the child. Proc. of the XIV International Pediatric Congress, Buenos Aires, Argentina, 1974.
482. Roche, A. F. Prediction of growth of individual children. Proc. of the XIV International Pediatric Congress, Buenos Aires, Argentina, 1974.
483. Roche, A. F. Anthropometric indices as nutritional indicators. Proc. of the XIV International Pediatric Congress, Buenos Aires, Argentina, 1974.
484. Roche, A. F. Growth after puberty. Proc. of the XIV International Pediatric Congress, Buenos Aires, Argentina, 1974.
485. Roche, A. F. Estrogen therapy of tall girls. Proc. of the XIV International Pediatric Congress, Buenos Aires, Argentina, 1974.
486. Roche, A. F. Methodology of skeletal age assessment. *Am. J. Phys. Anthrop.*, 42:325, 1975.
487. Roche, A. F. Some newer epidemiological variables for children. *Am. J. Epidem.*, 102:431, 1975.
488. Roche, A. F. New methods for assessing skeletal maturity. Proc. of the Biennial Meeting of the Society for Research in Child Development. Denver, CO, 1975.
489. Roche, A. F., Wainer, H. and D. Thissen. The RWT method for the assessment of the skeletal maturity of the knee. *Compte-rendu de la XIIIe reunion des equipes chargees des etudes sur la croissance et le developpement de l'enfant normal.* pp. 159-160, Rennes, France, 1976.
490. Roche, A. F. Are unisex radiographic skeletal maturity standards justified? *Am. J. Phys. Anthrop.*, 44:202, 1976.
491. Roche, A. F. Early onset of menses unrelated to early onset of menopause. *Medical Aspects of Human Sexuality*, 10:83, 1976.
492. Roche, A. F. The estimation of skeletal maturity: methodology and clinical application. *Canad. J. Appl. Sport Sci.*, 1:285-286, 1976.
493. Roche, A. F. Stature prediction and control. *Canad. J. Appl. Sport. Sci.*, 1:286-287, 1976.
494. Roche, A. F. Stature prediction and control. *Canad. J. Appl. Sport. Sci.*, 1:286-287, 1976.
495. Roche, A. F. Growth and differentiation of human adipose tissue. Proc. of the Workshop on Effects of

- Fetal and infant Nutrition on Susceptibility to Obesity. National Academy of Sciences. Washington, DC, 1977.
496. Roche, A. Secular trends in stature, weight and maturation. Proc. of the Biennial Meeting of the Society for Research in Child Development. New Orleans, LA 1977.
 497. Roche, A. F., Siervogel, R. M., Himes, J. H. and D. L. Johnson. Serial auditory thresholds in relation to noise and other factors. J. Acoust. Soc. Am., 62: Suppl. 1,95, 1977.
 498. Roche, A. F. United States growth charts. Acta Med. Auxol., 9:30, 1977
 499. Roche, A. F. A modified stature prediction method. Am. J. Phys. Anthrop., 47:157, 1977.
 500. Roche, A. F., Siervogel, R. M. and E. M. Roche. Digital dermatoglyphics in a Caucasian population from Southwestern OH. Am. J. Hum. Genet., 29:91A, 1977.
 501. Siervogel, R. M., Roche, A. F. and E. M. Roche. Digital distribution of fingerprint patterns and ridge counts: genetic and environmental considerations. Am. J. Hum. Genet., 29:99A, 1977.
 502. Lestrel, P. E. and A. F. Roche. A comparative study of cranial thickness in Down's syndrome: Fourier analysis. Proc. First International Congress Auxology, 9:27. Rome, Italy, April, 1977.
 503. Roche, A. F. Family and longitudinal studies. Am. J. Hum. Genet., 30A: 65A, 1978.
 504. Roche, A. F. Analysis of serial data. Am. J. Phys. Anthrop., 48:430, 1978.
 505. Roche, A. F. Fels Section for the Assessment of Growth and Maturity. Am. J. Clin. Nutr., 31 :908-910, 1978.
 506. Roche, A. F. and J. H. Himes. Growth increment charts. Am. J. Phys. Anthrop., 50:475, 1979.
 507. Himes, J. H., Roche, A. F. and D. Thissen. Parent-specific adjustments for assessment of recumbent length & stature. Am. J. Phys. Anthrop., 50:448, 1979.
 508. Roche, A. F., Lewis, A. B., Wainer, H. and R. McCartin. Late elongation of the cranial base. pp. 55-56, In: Year Book of Dentistry. Hale, M. L., Hazen, J. P., Moyers, R. E., Ridig, D. F., H. B. G. Robinson and S. I. Silverman, (eds.). Year Book Medical Publishers, Chicago, IL, 1979
 509. Chumlea, W. C. and A. F. Roche. Serial changes in prediction of adult stature. Am. J. Phys. Anthrop., 50:427, 1979.
 510. Siervogel, R. M., Himes, J. H., Roche, A. F. and D. L. Johnson. Noise exposure in children and adolescents as measured by dosimetry. J. Acoust. Soc. Am.,65:S125, 1979
 511. Roche, A. F. Serial analyses of subcutaneous fat thickness. Am. J. Phys. Anthrop., 52:271, 1980.
 512. Roche, A. F. Recent advances in child growth and development. The adipocyte number hypothesis and catch-up growth of the brain. XI International Congress of Anatomists, Mexico City, Mexico. Book of Abstracts. 275, 1980.
 513. Roche, A. F. and R. M. Siervogel. Longitudinal study of children's hearing: Its relationship to noise and other factors. J. Acoust. Soc. Am., 68:S89, 1980.
 514. Siervogel, R. M., Roche, A. F. and W. C. Chumlea. Body composition effects on blood pressure. Circulation, 62:III-223, 1980.

515. Roche, A. F. Risk analyses of subcutaneous fat thicknesses data. *Am. J. Phys. Anthrop.*, 54:268, 1981.
516. Roche, A. F. and J. H. Himes. Incremental growth charts. *Nutritional Planning*, 4:28-29, 1981.
517. Himes, J. H. and A. F. Roche. Correlations between skinfolds and radiographic fat thickness. *Am. J. Clin. Nutr.*, 34:1986,1981.
518. Roche, A. F. Analyses of long-term data for subcutaneous fat thicknesses. Book of Abstracts, p. 129, XII International Congress of Nutrition, August 16-21, San Diego, California, 1981.
519. Roche, A. F., Mukherjee, D. and W. C. Chumlea. Examination effects on AC thresholds. *J. Acoust. Soc. Am.*, 70:Sn, 1981.
520. Roche, A. F., Rogers, E. and Cronk, C. E. Long-term changes in obesity-related variables. *Am. J. Clin. Nutr.*, 35:856, 1982.
521. Falk, C., Rubinstein, P., Roche, A., Siervogel, R., Molthan, L. and F. H. Allen. Lod scores for linkage analysis of 28 genetic markers. A survey report on 600 families. *Cytogenet. Cell Genet.*, 32:272, 1982.
522. Roche, A. F. and D. Mukherjee. Ridge regressions to estimate body density and their serial errors. *Am. J. Phys. Anthrop.*, 57:221, 1982.
523. Roche, A. F. Human Biology Council, 1981. International Association of Human Biologists. Newsletter No. 13, 15, 1982.
524. Roche, A. F. Fels Research Institute. Studies in Growth and Genetics. International Association of Human Biologists. Newsletter No. 13,23-24, 1982.
525. Crowell, D., Dornbusch, S., Eichorn, D., Emde, R., Kennell, J., Parmelee, A., Parton, D., Stem, D., Suomi, S. and A. F. Roche. Increasing the interdisciplinary aspects of SRCD. Society for Research in Child Development Newsletter, 2-3, Fall, 1982
526. Byard, P. J. and A. F. Roche. Secular trend for recumbent length and stature in the Fels Longitudinal Study. Abstract No. 003, Proc. III International Congress of Auxology, Brussels, Belgium. August 26-30, 1982.
527. Siervogel, R. M., Roche, A. F. and W. C. Chumlea. Environmental sound exposure in children: its major sources and its effects on hearing and growth. Abstracts, No. 129, III International Congress of Auxology, Brussels, Belgium. August 26-30, 1982.
528. Roche, A. F., Rogers, E. and C. E. Cronk. Serial analyses of fat-related variables. Abstract No. 221(1), III International Congress of Auxology, Brussels, Belgium. August 26-30, 1982.
529. Roche, A. F. Promises and problems in the assessment of skeletal maturity. Proc. of the III International Congress of Auxology. Brussels, Belgium, 1982.
530. Roche, A. F., Rogers, E., Cronk, C. E. and D. Mukherjee. Longterm serial changes in obesity-related variables. *Clinical Research* 30:32-33, 1982.
531. Roche, A. F. Report of the Advisory Commission on Human Biological Research. Newsletter, International Association of Human Biologists, 14: 15-16, 1983.

532. Roche, A. F. Human Biology Council, 1982. Newsletter, International Association of Human Biologists, 14: 20-21, 1983.
533. Roche, A. F., Tyleshevski, F. and E. Rogers. Non-invasive measurement of maturity. *Am. J. Phys. Anthrop.*, 60:246, 1983.
534. Roche, A. F. Non-invasive measurement of physical maturity. *Soc. Res. Child Development Abstracts* 4: 232, 1983.
535. Roche, A. F. Serial changes in body composition. Proc. of the XIth International Congress of Anthropological Ethnological Sciences. Quebec, Canada, 1983.
536. Roche, A. F. Research progress in the field of body composition. *Med. Sci. Sports Exercise* 1983.
537. Siervogel, R. M., Roche, A. F. and W. C. Chumlea. Environmental sound exposure in children. *J. Acoust. Soc. Am.* 73:S7, 1983.
538. Roche, A. F., Mukherjee, D., Siervogel, R. M. and W. C. Chumlea. Serial changes in auditory thresholds from 8-18 years in relation to environmental noise exposure. pp. 32-33, Abstracts, Fourth International Congress on Noise as a Possible Health Problem, Turin, Italy, June, 1983.
539. Roche, A. F. and D. Mukherjee. On some aspects of growth of head circumference. *Am. J. Phys. Anthrop.*, 63:209, 1984.
540. Chumlea, W. C. and A. F. Roche. The anthropometric approach to nutritional assessment of the geriatric patient. Proc. of the Third Annual Interdisciplinary Symposium on Parenteral and Enteral Nutrition. Update 1984. The Health and Nutrition Council, 1984.
541. Chumlea, W. C. and A. F. Roche. Nutritional anthropometric assessment of non-ambulatory persons using recumbent techniques. *Am. J. Phys. Anthrop.* 63:146, 1984.
542. Lestrel, P. E. and A. F. Roche. Variability in cranial base shape with age: Fourier analysis. *Am. J. Phys. Anthrop.* 63: 184, 1984.
543. Roche, A. F. Fifty Years of The Fels Longitudinal Study. *Am. J. Epidemiol.* 120:502, 1984.
544. Roche, A. F. American Dermatoglyphics Association. Newsletter of International Association of Human Biologists. 15:25-27, 1984.
545. Siervogel, R. M., Mukherjee, D. and A. F. Roche. Familial resemblance for patterns of change in weight/stature² (W/S²) from 2 to 18 years. *Am. J. Hum. Genet.* 36:1805, 1984.
546. Mukherjee, D., Neiswanger, K., Siervogel, R. M. and A. F. Roche. Genetic analyses of discrete or continuous traits upon fitting a finite mixture of flexible maximum entropy distributions. *Am. J. Hum. Genet.*, 36:176S, 1984.
547. Roche, A. F. Anthropometric assessment of children with development disabilities. p. 13, Book of Abstracts. 67th Annual Meeting, The American Dietetic Association, Washington, DC. October 15-18, 1984.
548. Siervogel, R. M., Mukherjee, D., Roche, A. F. and W. C. Chumlea. Are childhood patterns of change in body fatness inherited? *Am. J. Phys. Anthrop.* 63:230, 1985.
549. Bock, R. D., Sykes, R. C. and A. Roche. The Fels three-generation data. Evidence for continuing

- secular increase in height. p. 63, Proceedings Nth futernational Congress of Auxology, Montreal, Canada, Book of Abstracts, No. 11.22, 1985.
550. Himes, J.H. and A. F. Roche Subcutaneous fatness and stature: Relationships from infancy to adulthood. p. 55, Proceedings Nth futernat. Congr. of Auxology, Montreal, Canada, Book of Abstracts, No. 10.15, 1985.
551. Poznanski, A. K., Roche, A. F., Mukherjee, D., Packman, L. M. and E. J. Brewer, Jr. Norms of the apparent width of the knee joint: Useful measures in the evaluation of children with juvenile arthritis. *Am. J. Roentgen.*, 145:870, 1985.
552. Roche, A. F. Continuities and discontinuities in postnatal growth. p. 601, Proc. , XII futernational Anatomical Congress, London, August 11-17, 1985.
553. Roche, A. F., Mukherjee, D. and M. Kouchi. Growth in weight and recumbent length during infancy. *Am. J. Phys. Anthrop.*, 66:220, 1985.
554. Roche, A. F. The need for improvements in the measurement of body composition: Some critical issues. *Am. J. Phys. Anthrop.* 69:256, 1986.
555. Steinbaugh, M. L., Chumlea, W. C., Guo, S. S. and A. F. Roche. Estimating body weight for the non-ambulatory elderly. p. 150, Book of Abstracts. *Am. Diet. Assoc. Annual Meeting*, Las Vegas, New Mexico, October 1986.
556. Roche, A. F. Progress in the Analysis of Serial Data in the Century since Bowditch and Future Expectations. Raymond Pearl Memorial Lecture. Proc. Annual Meeting of Human Biology Council, Albuquerque, New Mexico, 1986.
557. Guo, S. S. and A. F. Roche. Reference data for head circumference. *Clin. Res.* 34:977 A, 1986
558. Roche, A. F. Calculation of percent body fat (%BF) and fat-free mass (FFM) from body density. *Am. J. Phys. Anthrop.* 72:247,1987.
559. Chumlea, W. C., Baumgartner, R. N. and A. F. Roche. Segmental bioelectric impedance measures of body composition. p. 35, International Conference on "In Vivo Body Composition Studies," Brookhaven, New York, 1986.
560. Roche, A. F., Chumlea, W. C. and S. S. Guo. Estimation of body composition from impedance and anthropometry. *Med. Sci. Sports and Exer.*, 19:540, 1987.
561. Roche, A. F. Tracking in Fat distribution During Growth. Proc. Conference on Fat Distribution and Metabolic Risk Factors During Growth and Later Health Outcomes. Manoir St. Castin, Lac Beauport, Quebec, Canada, 1987.
562. Roche, A. F. and S. S. Guo. The Fels Longitudinal Study: Design and analysis considerations. p. 249, Program and Abstracts, Joint Statistical Meetings. American Statistical Association, Biometric Society, Institute of Mathematical Statistics, San Francisco, August 17-20, 1987.
563. Chumlea W. C., Baumgartner, R. N. and A. F. Roche. Specific resistivity from segmental impedance. *Med. Sci. Sports and Exer.*, 19:539, 1987.
564. Baumgartner, R., Siervogel, R. M., Guo, S., Chumlea, W. C. and A. F. Roche. Use of bioelectric impedance for estimating body composition in epidemiology. Book of Abstracts, Annual Meeting of Society for Epidemiological Research, Amherst, Massachusetts No. 125, 1987.

565. Guo, S. S. and A. F. Roche. Reference data for one-month increments in weight and recumbent length from one to twelve months. *Clin. Res.* 35:915A, 1987.
566. Roche, A. F. and S. S. Guo. Tracking of weight (W) and of weight/stature² (W/S²) from one month to 30 years. *Inter. J. Obesity*, 11 :436A, 1987.
567. Roche, A. F. Risk of overweight at 18 years dependent on weight and weight/stature² during childhood. Annual meeting, Midwest Society for Pediatric Research. Chicago, Illinois, Poster, 1987, *Clin. Res.* 35:907A, 1987.
568. Roche, A. F. Infants, Children and Adolescents. Proc. Conference on Nutritional Assessment of the Individual, American Health Foundation, New York, 1987.
569. Roche, A. F. Anthropometric criteria of nutritional status for infants, children and adolescents. Book of Abstracts, Conference on Assessment of the Nutritional Status of the Individual, American Health Foundation, New York. October, 1987.
570. Roche, A. F. Assessing the utility of FELS hand-wrist skeletal age assessments. *Am. J. Phys. Anthropol.*, 75:262, 1988.
571. Chumlea, W. C., Baumgartner, R. N. and A. F. Roche. Fat volumes and total body fat from impedance. *Med. Sci. Sports and Exer.* 20:S82, 1988.
572. Roche, A. F. and S. S. Guo. The prediction of fat-free mass from a multi component model. *Med. Sci. Sports and Exer.* 20:58, 1988.
573. Roche, A. F., Guo, S. S., Baumgartner, R. N. and R. A. Falls. The measurement of stature. *Am. J. Clin. Nutr.* 47:922, 1988.
574. Roche, A. F. The assessment of skeletal maturity. Proc. of Second International Symposium on Growth Disorders, Munich, West Germany, 4-5 February, 1988.
575. Roche, A. F., Guo, S. S. and L. Houtkooper. Biased estimation of fat-free mass. p. 183, Program and Abstracts, Joint Statistical Meetings. American Statistical Association, Biometric Society, Institute of Mathematical Statistics, New Orleans, August 22-25, 1988.
576. Guo, S. S., Roche, A. F. and R. M. Siervogel. Kernel estimation of long term serial blood pressure data. p. 275, Program and Abstracts, Joint Statistical Meetings. American Statistical Association, Biometric Society, Institute of Mathematical Statistics, New Orleans, August 22-25, 1988.
577. Roche, A. F. Methods and analysis issues in longitudinal studies of growth. p. 251, Program and Abstracts. American Statistical Association, Biometric Society, Institute of Mathematical Statistics, New Orleans, August 22-25, 1988.
578. Roche, A. F., Guo, S. S. and R. N. Baumgartner. Serial studies of body composition. Book of abstracts. American Anthropological Association. p. 222, 1988.
579. Guo, S. S., Chumlea, W. C., and A. F. Roche. Predictions of fatness in children, adolescents and young adults. *Clin. Res.*, 36:894A, 1988.
580. Roche, A. F., Chumlea, W. C. and S. S. Guo. The assessment of hand-wrist skeletal maturity. *Clin. Res.*, 36:896A, 1988.
581. Olson, J. M., Boehnke, M., Neiswanger, K., Roche, A. F. and R. M. Siervogel. Alternative genetic

- models for the inheritance of PTC taste deficiency. *Am. J. Hum. Genet.*, 43:A219, 1988.
582. Baumgartner, R. N., Roche, A. F., Guo, S. S., Chumlea, W. C., Ryan, A. S. and R. J. Kuczmarski. Changes with age in fat patterning in Mexican-American children in the Hispanic HANES sample. *Am. J. Phys. Anthropol.* 78:189, 1989.
583. Guo S. S., Roche, A. F., Baumgartner, R. N., Chumlea, W. C., Ryan, A. S. and C. L. Johnson. On the applications of kernel regression for smoothing reference data. *Am. J. Phys. Anthropol.* 78:233, 1989.
584. Roche, A. F., Guo, S. S., Baumgartner, R. N., Chumlea, W. C., Ryan, A. S. and R. J. Kuczmarski. Reference data for weight, stature, and weight/stature² in Mexican-Americans from Hispanic Health and Nutrition Examination Survey. *Am. J. Phys. Anthropol.* 78:291, 1989.
585. Guo, S. S., Roche A. F. and W. C. Chumlea. Predicting fat-free mass (FFM) and percent body fat (%BF) from anthropometry and impedance. Poster at Annual Meeting of Human Biology Council, San Diego, April, 1989.
586. Chumlea, W. C., Baumgartner, R. N. and A. F. Roche. Subcutaneous adipose tissue volume and fat-free mass from segmental measures of bioelectric impedance. International Conference on In Vivo Body Composition Studies, Toronto, Canada, Abstract No. 88, 1989.
587. Baumgartner, R. N., Chumlea, W. C. and A. F. Roche. Segmental-bioelectric impedance estimates of body composition. International Conference on In Vivo Body Composition Studies, Toronto, Canada Abstract No. 90, 1989.
588. Siervogel, R. M., Roche, A. F., Guo, S. S., Mukherjee, D. and W. C. Chumlea. Patterns of change in adiposity during childhood and their relation to adiposity at 18 years. *Am. J. Hum. Biol.* 1: 136, 1989.
589. Guo, S. S., Roche A. F. and W. C. Chumlea. Predicting fat-free mass (FFM) and percent body fat (%BF) from anthropometry, resistance and reactance. *Am. J. Hum. Biol.* 1:135, 1989.
590. Roche, A. F., Guo, S. S., Woteki, C., Trowbridge, F. L. and R. Yip. Methods for the revision of the NCHS/CDC growth charts. p. 157, Proc. Annual Meeting, American Statistical Association, Biometric Society, Institute of Mathematical Statistics, Washington, DC, August 6-10, 1989.
591. Roche, A. F. Anthropometry: Classical and Modern Approaches. Proc., Ninth Annual Bristol Myers Symposium on Nutrition Research. New Techniques in Nutrition Research. Robinson College, University of Cambridge, 1989.
592. Roche, A. F., Guo, S. S. and W. M. Moore. Reference data for 1-month increments in weight and recumbent length from 1 to 12 months. *Pediatrics Digest* 7:19, 1989.
593. Chumlea, W. C., Baumgartner, R. N. and A. F. Roche. Simultaneous adipose tissue volume and fat-free mass from segmental measures of bioelectric impedance. Abstract No. 88. International Symposium on in vivo Body Composition Studies, Toronto, 1989.
594. Baumgartner, R. N., Chumlea, W. C. and A. F. Roche. Segmental bioelectric impedance estimates of body composition. Abstract No. 90. International Symposium on in vivo Body Composition Studies, Toronto, 1989.
595. Guo, S. S., Siervogel, R. M. and A. F. Roche. Tracking in body mass index from 2 to 18 years: The Fels Longitudinal Study. *Clin. Res.* 37:963A, 1989.
596. Roche, A. F., S. S. Guo and A. S. Ryan. Data from the Hispanic Health and Nutrition Examination

- Survey for weight, stature and weight/stature² in Mexican-Americans. *Clin. Res.* 37:963A, 1989.
597. Roche, A. F. and S. S. Guo. Prediction of fat-free mass (FFM) from bioelectric impedance and anthropometry. *Am. J. Clin. Nutr.*, 51:522, 1990.
598. Roche, A. F. and S. S. Guo. Development, Testing, and Use of Predictive Equations for Body Composition Measurements. *Proc. International Conference on Human Body Composition: Technology and Clinical Applications: Honolulu, Hawaii, 1990.*
599. Roche, A. F. and S. S. Guo. Data analysis in longitudinal research. *Am. J. Phys. Anthropol.* 81 :287, 1990.
600. Roche, A. F. Post-pubescent growth in stature. *Am. J. Hum. Biol.*, 2: 190, 1990
601. Roche, A. and R. M. Siervogel. Body composition and blood pressure. *Circulation*, 81:722, 1990.
602. Baumgartner, R N., Chumlea, W. C., Guo, S. S. and A. F. Roche. Prediction of growth in fat-free mass from bioelectric resistance and anthropometry in children. Poster for Annual Meeting of Human Biology Council, Miami, April, 1990
603. Baumgartner, R N., Chumlea, W. c., Guo, S. S. and A. F. Roche. Prediction of growth in fat-free mass from bioelectric resistance and anthropometry in children. *Am. J. Hum. Biol.*, 2: 195, 1990.
604. Smith, L., Rosner, B., Roche, A. F. and S. S. Guo. Correlation and prediction of blood pressures from adolescence into adulthood. Program and Abstracts, p. 137. Annual Meeting of the Society for Epidemiological Research, Salt Lake City, Utah. June, 1990.
605. Roche, A. F. Interpretation and usefulness of skeletal age assessments. Roundtable Discussion Group on Current Issues in Pediatric Endocrinology. Dallas, Texas. Book of Abstracts, 1990.
606. Ryan, A. S., Martinez, G. A. and A. F. Roche. The influence of poverty on the growth of Mexican-American children from the Hispanic Health and Nutrition Examination Survey. (HHANES 1982,-1984). *Am. J. Phys. Anthropol.* 81:289,1990.
607. Roche, A. F. The measurement of body fatness. Annual Report of the NIH Program in Biomedical and Behavioral Nutrition Research and Training, 1990.
608. Roche, A. F. and R M. Siervogel. Body composition and blood pressure. *Circulation*, 81:772, 1990.
609. Guo, S. S. and A. F. Roche. Confidence limits for least-squares kernel estimates. *Proc. Joint Statistical Meetings, ASA, Biometric Society, Anaheim, CA, 1990.*
610. Guo, S. S. and A. F. Roche. Modelling the correlation structure of blood pressure in the Fels data. *Proc. Joint Statistical Meetings, American Statistical Association, Biometric Society, Anaheim, CA, 1990.*
611. Roche, A. F. and S. S. Guo. Prediction of fat-free mass (FFM) from bioelectric impedance and anthropometry. *Clin. Res.* 36:756A, 1990.
612. Roche, A. F. and S. S. Guo. Data analysis in longitudinal research. *Am. J. Phys. Anthropol.* 81:287, 1990.
613. Byard, P. J., Guo, S. S. and A. F. Roche. Jents curve analysis of early childhood data from the Fels Longitudinal Study. *Am. J. Hum. Biol.*, 2: 196, 1990.

614. Roche, A. F. Measurement of total body fatness. *NCC Matters*. 3, May, 1990.
615. Roche, A. F., Guo, S. S. and W. M. Moore. Body surface area of infants: Reference data. *Am. J. Phys. Anthropol.* S12:152, 1991.
616. Guo, S. S., Siervogel, R. M., Roche, A. F. and A. Gregor. Mathematical modelling of human growth in stature from The Fels Longitudinal Study. *Am. J. Phys. Anthropol.* S12:84-85, 1991.
617. Guo, S. S., Roche, A. F., Fomon, S. J., Nelson, S. E., Chumlea, W. C., Rogers, R. R, Baumgartner, R N., Ziegler, E. E. and R M. Siervogel. Reference data for weight, length and gains in weight and length during the first two years of life. *Am. J. Clin. Nutr.*, 53: 19, 1991.
618. Roche, A. F., Baumgartner, RN. and R M. Siervogel. B-mode ultrasound measurements of subcutaneous adipose tissue. *Am. J. Clin. Nutr.*, 53:27, 1991.
619. Roche, A. F. and S. S. Guo. Tracking of weight/stature² from early infancy to middle age. *Proc. XIth International Congress of Auxology, Madrid, Spain.* p. 55, 1991.
620. Chumlea, W. C. and A. F. Roche. Estimations of fat-free mass from anthropometry and bioelectric impedance in children and adults. *Proc. Fifth Conference for Federally Supported Human Nutrition Research Centers Units, Washington, DC., February, 1991.*
621. Guo, S. S., Chumlea, W. C., Siervogel, R. M. and A. F. Roche. Longitudinal analysis of serum lipid levels in children and young adults. *Proc. Fifth Conference for Federally Supported Human Nutrition Research Centers and Units, Washington, DC., February, 1991.*
622. Siervogel, R. M., Guo, S. S. and A. F. Roche. Risk of adult overweight predicted from childhood values of body mass index. *Proc. Fifth Conference for Federally Supported Human Nutrition Research Centers and Units, Washington, DC., February, 1991.*
623. Siervogel, R. M., Guo, S. S. and A. F. Roche. Risk of overweight predicted from childhood values of body mass index (weight/stature²). *Pediatric Research*, 29:95A, 1991.
624. Newcomer, B. R., Boska, M., Mieczkowski, L. E., Roche, A. F., Mantil, J. and D. Zubrick. In vivo study of the percent of unsaturated fatty acids in human surface versus mesentery adipose tissue. *Annual Meeting, Society of Magnetic Resonance in Medicine, August 10-16, San Francisco, CA, 657, 1991.*
625. Roche, A. F., Guo, S. S., Siervogel, R. M., Chumlea, W. C. and A. Bellisari. New field methods for the study of body composition. *Proc. VII Congreso Espagnole Anthropologia Biologica*, 72-73, 1991.
626. Roche, A. F., Guo, S. S. and R. M. Siervogel. Obesity in children and their application to epidemiologic studies. *Book of Abstracts, Workshop on Child and Adolescent Obesity: What, How, and When? International Life Sciences Institute-Nutrition Foundation*, 5, 1991.
627. Trowbridge, F. L., Yip, R., Staehling, N, Roche, A. F., Guo, S. S., Johnson, C. and C. Woteki. A revised international growth reference for use in nutritional surveys. *Proc. IX Latin American Congress of Nutrition. San Juan, Puerto Rico*, 86.1991.
628. Siervogel, R. M., Guo, S. S. and A. F. Roche. Risk analysis of body mass index (BMI) using values in childhood and adulthood. Part I. Log odds ratio, relative risk, sensitivity and specificity. *Am. J. Phys. Anthropol.*, S14:651, 1992.
629. Guo, S. S., Roche, A. F., Siervogel, R. M., Chumlea, W. C. and A. Jennings. Risk analysis of body

- mass index (BMI) using prediction of adult overweight from childhood. Part II. Risk estimates and their practical application. *Am. J. Phys. Anthrop.*, S14:85, 1992.
630. Bellisari, A., Roche, A. F. and R. M. Siervogel. B-mode ultrasound measurement of subcutaneous and intra-abdominal adipose tissue: technical issues. *Am. J. Hum. Biol.*, 4: 142, 1992.
631. Bellisari, A., Roche, A. F. and R. M. Siervogel. B-mode ultrasound measurement of subcutaneous and intra-abdominal adipose tissue: technical issues. *Am. J. Hum. Biol.*, 4: 142, 1992
632. Wellens, R., Chumlea, W. C., Guo, S. S., Roche, A. F. and R. M. Siervogel. Assessing the accuracy of single photon absorptiometry for predicting total body bone mineral mass and density as measured by dual energy x-ray absorptiometry. *Am. J. Phys. Anthrop.*, S14: 172, 1992.
633. Towne, B., Siervogel, R. M., Guo, S. S. and A. F. Roche. Genetic analysis of patterns of growth in infant recumbent length. *Am. J. Phys. Anthrop.*, S14:162, 1992.
634. Bellisari, A., Roche, A. F. and R. M. Siervogel. B-mode ultrasonic measurement of subcutaneous and intra-abdominal adipose tissue. *Am. J. Phys. Anthrop.* S14:47-48, 1992
635. Roche, A. F., Michaelsen, K. F., Northeved, A., Culmsee, J., Boska, M., Guo, S. S. and R. Wellens. The measurement of limb musculature with high frequency energy absorption (HFEA). *Med. and Sci. Sports and Exercise* 24:S7, 1992.
636. Wellens, R., Roche, A. F., Guo, S. S., Chumlea, W. C. and R. M. Siervogel. Assessing percent body fat and fat-free mass by dual energy x-ray absorptiometry and densitometry. *Med. Sci. Sports and Exer.*, 24:S59, 1992.
637. Guo, S. S., Chumlea, W. C., Siervogel, R. M. and A. F. Roche. Longitudinal analysis of plasma lipid levels in children and young adults. *Stat. in Med.* 11 :2033-2034, 1992
638. Guo, S. S., Li, L., Chumlea, W. c., Roche, A. F. and R. M. Siervogel. A comparison of two infant growth models. *Biometric Society Book of Abstracts*, pg. 90, 1992.
639. Towne, B., Guo, S. S., Siervogel, R. and A. F. Roche. Genetic analysis of percentile body weight variation from ages 2 to 17. *Am. J. Clin. Nutr.*, Supplement, Abstract #131, 1992.
640. Roche, A. F., Guo, S. S. and R. M. Siervogel. Implications of predicting overweight in adulthood from childhood BMI (weight/stature²). *Am. J. Clin. Nutr.*, Supplement, Abstract #104, 1992.
641. Guo, S. S., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Sensitivity, specificity, and predictive value of childhood BMI for overweight in adulthood. *Am. J. Clin. Nutr.*, Supplement, Abstract #44, 1992.
642. Roche, A. F. Growth research in the last 60 years as exemplified by The Fels Longitudinal Study. *Am. J. Phys. Anthrop.*, S14:139, 1992.
643. Roche, A. F., Guo, S. S. and R. M. Siervogel. Risk of overweight at 18 or 30 years dependent on weight/stature (W/S²) percentiles in childhood. *Internat. Conference on the Prevention of Atherosclerosis and Hypertension Beginning in Youth*. Orlando, FL, May, 1992.
644. Roche, A. F. Growth research in the last 60 years as exemplified by The Fels Longitudinal Study. *Am. J. Phys. Anthrop.*, S14:139, 1992.
645. Guo, S. S., Khamis, H., Chumlea, W. C., Roche, A. F. and R. M. Siervogel. Mathematical modeling

of human growth. *Biometrics*, 1992

646. Michaelsen, K., Roche, A. F., Northeved, A., Culmsee, J., Boska, M., Guo, S. S., Wellens, R. and R. M. Siervogel. The use of high frequency energy absorption (HFEA) to measure limb musculature. Book of Abstracts, International Symposium on In Vivo Body Composition Studies, Abstract No. 87, 1992.
647. Wellens, R., Roche, A. F., Guo, S. S., Chumlea, W. C. and R. M. Siervogel. Fat-free mass and percent body fat assessments by dual-energy x-ray absorptiometry, densitometry and total body water. Book of Abstracts, International Symposium on In Vivo Body Composition, Abstract No. 81, 1992.
648. Guo, S. S., Chumlea, W. c., Wu, X., Siervogel, R. M. and A. F. Roche. A comparison of body composition models. Book of Abstracts, International Symposium on In Vivo Body Composition, Abstract No. 66, 1992.
649. Guo, S. S., Chumlea, W. C., Siervogel, R. M. and A. F. Roche. Tracking of body fatness from 9 to 21 years. *Med. Sci. Sports Exerc.*, 24:S189, 1992.
650. Guo, S. S., Chumlea, W. C., Siervogel, R. M. and A. F. Roche. Serial analysis of lipid levels in children and young adults. International Conference on the Prevention of Atherosclerosis and Hypertension Beginning in Youth, Program Book, A-I, 1992
651. Michaelsen, K. F., Roche, A. F., Guo, S. S., Northeved, A. and J. Culmsee. Muskelmassen i ekstremiter malt med høj frekvens energi absorption (HFEA). Book of Abstracts, p. 34, S. Nordiske Ernaer Ingschowgres, Reykjakik, June 1992.
652. Cottom, C. and A. Roche. Maximizing skeletal maturity information: The FELS Method. Book of Abstracts, p. 11, Study Co-ordinator's Meeting, 1992 National Cooperative Growth Study (NCGS) Meeting, Los Angeles, CA, Nov. 1992.
653. Frane, J. W. and Roche, A. F. Intercorrelations among standing height and measures of skeletal maturity within age- and sex-specific groups. Investigator's 1992 Meeting. National Cooperative Growth Study (NCGS) Meeting. Los Angeles, CA, Nov. 1992
654. Chumlea, W. C., Roche, A. F. and S. B. Heymsfield. Anthropometry in the elderly: methodology and rationale. Book of Abstracts. *New Approaches to Care - An Interdisciplinary Strategy. Nutrition Screening 2.* Ross Laboratories, 1992.
655. Towne, B., Siervogel, R. M. and A.F. Roche. Genetic analysis of sexual dimorphism in pre- to post-adolescent change in body mass index. *Am. J. Phys. Anthropol. Suppl.* 16, 196, 1993.
656. Towne, B., Siervogel, R. M. and A. F. Roche. Genetic analysis of pre- and post-adolescent body mass index of boys and girls. New York Academy of Science Conference on Prevention and Treatment of Childhood Obesity, Book of Abstracts, p. 21, Washington, DC, March 1993.
657. Wellens, R., Siervogel, R. M., Khamis, H. J., Guo, S., Chumlea, W. C. and A. F. Roche. Fat distribution by dual energy x-ray absorptiometry: Association with metabolic and anthropometric variables. 33rd Annual Conference on Cardiovascular Disease Epidemiology and Prevention, American Heart Association Santa Fe, New Mexico, pg. 9, Nov. 1993.
658. Towne, B., Siervogel, R. M., and A. F. Roche. Bivariate genetic analysis of newborn head and chest circumferences. *Am. J. Hum. Biol.* 5:140-141, 1993.

659. Wellens, R., Siervogel, R. M., Khamis, H. J., Guo, S., Chumlea, W. C. and A. F. Roche. The relationship between plasma lipids and lipoproteins with fat distribution in adult men. *Am. J. Hum. Biol.*, 5:141,1993.
660. Roche, A. F., Guo, S., Chumlea, W. C., Wellens, R., Siervogel, R. M. and X. Wu. Body composition by dual energy x-ray absorptiometry: Comparisons with densitometry. *Med. Sci. Sports & Exerc.*, Suppl to 25:S6, 1993.
661. Ilich, J. Z., Hsieh, L. C., Tzagournis, M. A., Roche, A. F., Chumlea, W. C. and V. Matkovic. Bone mineral density and skeletal maturity in preadolescent girls. *Book of Abstracts, Federation of American Societies for Experimental Biology, Experimental Biology 93* :A149, 1993.
662. Siervogel, R M., Towne, B. and Roche, A. F. Genetic pleiotropy for body mass indices and blood pressure in adults. *Book of Abstracts #3190, Federation of American Societies for Experimental Biology, Experimental Biology 93*, 1993.
663. Roche, A. F. Possible associations between low to moderate fat intakes and temporary or permanent retardation of physical growth and maturation. *Proc. Workshop on Biobehavioral Mechanisms in Lipid Metabolism and Atherosclerosis. National Heart, Lung and Blood Institute, Bethesda, MD, 1993.*
664. Guo, S., Roche, A. F., Chumlea, W. C., Li, L. and R M. Siervogel Profiles of blood pressures from 9 to 21 years: Association with body fatness and rate of maturation. *Book of Abstracts, #380, Federation of American Societies for Experimental Biology, Experimental Biology 93*, 1993.
665. Roche, A. F., Guo, S., Chumlea, W. C., Siervogel, R M. and J. Gardner. Risk of overweight in adulthood dependent on childhood values for body mass index. *Proc. VX International Congress of Nutrition. Adelaide, Australia, Abstract, pg. 304, 1993.*
666. Roche, A. F. Methodological considerations for assessing obesity in children. *Prevention and Treatment of Childhood Obesity. Book of Abstracts, p. 2, Washington, March, 1993.*
667. Towne, B., Roche, A. F., Chumlea, W. c., Guo, S. and R M. Siervogel. No evidence of pleiotropy for either body mass index or waist/hip circumference ratio and total serum cholesterol concentration. *Int. J. Obesity, 1: Suppl. 2, 11 OS, 1993*
668. Chumlea, W. C., Roche, A. F. and S. Heymsfield. Anthropometry in the elderly: Methodology and rationale. *Book of Abstracts, p. 47. Nutrition Screening 2. Nutrition Screening Initiative, Washington, 1993.*
669. Wellens, R, Roche, A. F., Khamis, H., Chumlea, W. c., Guo, S. and R M. Siervogel. The body mass index versus dual-energy x-ray absorptiometry as a proxy for body fatness. *Int. J. Obesity 1: Suppl.2, 109S, 1993.*
670. Roche, A. F., Guo, S., Wu, x., Wellens, R Chumlea, W. C. and R. M. Siervogel. Fat free mass from DEXA and other procedures. pg. 13, *Book of Abstracts, Satellite to XV International Congress of Nutrition, Melbourne, September, 1993.*
671. Roche, A. F. Body composition of ethnic groups in the United States. pg. 8, *Book of Abstracts, Satellite to XV International Congress of Nutrition, Melbourne, September, 1993.*
672. Roche, A. F., Wellens, R, Guo, S., Siervogel, R M. and K. F. Michaelsen. High frequency energy absorption and the measurement of regional muscle mass. pg. 20, *Book of Abstracts, Satellite to XV International Congress of Nutrition, Melbourne, September, 1993.*

673. Roche, A. F. Sarcopenia - The evidence of a relationship to health and longevity. pg. 17, Book of Abstracts, Satellite to XV International Congress of Nutrition, Melbourne, September, 1993.
674. Roche, A. F., Cottom, C., Guo, S. S. and K. Attie. Precision of FELS (hand-wrist) and RWT (knee) skeletal ages. p. 15, Book of Abstracts, National Cooperative Growth Study Investigator's Meeting. Scottsdale, AZ, 1993.
675. Cottom, C., Roche, A. F., Guo, S. S. and K. Attie. Precision of FELS (hand-wrist) and RWT (knee) skeletal ages. p. 12, Book of Abstracts, National Cooperative Growth Study Coordinator's Meeting. Scottsdale, AZ, 1993.
676. Khamis, H. J., Roche, A. F. and J. Baptista. Revision of the Bayley-Pinneau (BP) method for the prediction of adult stature. p. 15, Book of Abstracts, National Cooperative Growth Study Coordinator's Meeting. Scottsdale, AZ, 1993.
677. Khamis, H. J. and A. F. Roche. Growth in stature of short slowly maturing children. p. 15, Book of Abstracts, National Cooperative Growth Study Investigator's Meeting. Scottsdale, AZ, 1993.
678. Guo, S. S., Chumlea, W. C., Roche, A. F. and R. M. Siervogei. Longitudinal changes in body fatness from 9 to 21 years. *Int. J. Obesity* 1, Suppl. 2, 96S, 1993.
679. Hintz, R. L., Attie, K. M., Johanson, A. J., Baptista, J., Frane, J., Roche, A. F. and the Genentech Study Group. Idiopathic short stature: Influence of GH treatment in puberty and sex on skeletal maturation and growth response. Joint Meeting of Lawrence Wilkins Pediatric Endocrine Society and the European Society of Pediatric Endocrinologists. San Francisco, CA. *Pediatric Res.*, 33:565, 1993.
680. Roche, A. F. Possible associations between low to moderate fat intakes and temporary or permanent retardation of physical growth and maturation. Book of Abstracts. National Heart, Lung and Blood Institute, Behavioral Mechanisms in Lipid Metabolism and Atherosclerosis Workshop. Bethesda, MD, January, 1993.
681. Hintz, R. L., Attie, K., Johanson, A., Baptista, J., Frane, J. and A. F. Roche. GH treatment in idiopathic short stature: Influence of puberty and sex on skeletal maturation and growth response. p. 28 in Book of Abstracts. Annual Meeting of European Society for Pediatric Research, 1993.
682. Khamis, H. J. and A. F. Roche. Growth in stature of short slowly maturing children. *Am. J. Phys. Anthropol.* 8, 121, 1994.
683. Roche, A. F., Cottom, c., Guo, S. S. and K. Attie. Precision of FELS (hand-wrist) and RWT (knee) skeletal ages. *Am. J. Hum. Biol.* 6:145-146, 1994.
684. Bellisari, A., Wellens, R., Roche, A. F., Boska, M., Guo, S., Chumlea, W. C. and R. M. Siervogei. Validation of ultrasonic and skinfold measurements of subcutaneous adipose tissue using magnetic resonance imaging. *Am. J. Hum. Biol.* 6:116, 1994.
685. Towne, B., Roche, A. F., Chumlea, W. C. and R. M. Siervogei. Genotype by sex interaction in total body fat measured as the sum of six skinfolds. *Am. J. Hum. Biol.* 6: 133, 1994.
686. Guo, S. S., Salisbury, S., Roche, A. F., Chumlea, W. M., Siervogel, R. M., Casey, P. N. and W. M. Moore. Gestational-age corrected reference data on gains in weight, recumbent length, and head circumference for preterm low birthweight infants during the first three years of life: A multicenter study. *Ped. Res.* 35: 114A, 1994.
687. Towne, B., Roche, A. F., Chumlea, W. C., Guo, S. S. and R. M. Siervogei. Analysis of pleiotropy

- between body mass, fat pattern, and serum HDL-C and LDL-C concentrations. *Am. J. Phys. Anthrop.* 18:196-197, 1994.
688. Wellens, R., Roche, A. F., Jackson, K., Boska, M. D., Guo, S. S. and R. M. Siervogei. Validation of limb muscle mass by high frequency energy absorption (HFEA) versus magnetic resonance imaging (MR!). *Am. J. Phys. Anthrop.* 18:205, 1994.
689. Roche, A. F., Guo, S., Siervogel, R. M. and H. J. Khamis. Growth comparisons of breast-fed and formula-fed infants. *Pediatrics, Clinical Digest Series*, 29-30, June 1994.
690. Roche, A. F. Controversies in body composition assessment. *Med. Sci. Sports and Exerc. Supplement to Vol. 26*, 5118, 1994.
691. Guo, S. S., Roche, A. F., Chumlea, Wm. C., Li, L. and R. M. Siervogel. Longitudinal analysis of blood pressures from 8 to 22 years with BMI measures and maturity levels as time-varying covariates. *Proc. Biometric Society, Eastern North American Region Abstracts* p. 61, 1994.
692. Towne, B., Parks, J., Roche, A. F., Guo, S. S., Chumlea, W. C. and R. M. Siervogel. The genetic epidemiology of patterns of human growth. *Am. J. Hum. Biol.* 6:133, 1994.
693. Wellens, R., Roche, A. F., Khamis, H., Guo, S. S., Chumlea, W. C. and R. M. Siervogel. Body composition by hydro densitometry, dual energy x-ray absorptiometry and total body water in adults. *Med. Sci. Sports and Exerc. Supplement to Vol. 26*, 540, 1994.
694. Roche, A. F. Tracking: Its analysis and significance. *Book of Abstracts*. p. 17. 7th International Congress of Auxology. Szombathely, Hungary, 1994.
695. Wellens, R. W., Khamis, H., Roche, A. F. and R. M. Siervogel. Fat distribution, blood pressure, lipids in post-menopausal black and white women. *Book of Abstracts*, p. 37. Ninth International Interdisciplinary Conference on Hypertension in Blacks, Cleveland, OH, 1994.
696. Roche, A. F., Cottom, C., Graham, T., Dana, K., Rundle, A and K. Attie. Relationships between annual increments in stature and in skeletal age. *Book of Abstracts*, p. 16. Eighth Annual Investigator's Meeting, National Collaborative Growth Study, Orlando, FL, Oct. 1994.
697. Cottom, C., Roche, A. F., Graham, T., Dana, K., Rundle, A and K. Attie. Relationships between annual increments in stature and in skeletal age. *Book of Abstracts*. Eighth Annual Coordinator's Meeting, National Collaborative Growth Study, Orlando, FL, Oct. 1994.
698. Towne, B., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Quantitative genetics of sexual dimorphism in subcutaneous trunk and extremity adipose tissue. *Int. J. Obesity*, 8, Suppl. 2, 117, 1994.
699. Roche, A. F. The nature of the Fels Longitudinal Study, p.3. *Proc. of the Annual Fall Meeting of the American College of Sports Medicine*, Dayton, OH, November, 1994.
700. Hintz, R. L., Leboeuf, G., Attie, K. M., Johanson, A. J., Baptista, J., Roche, A. F. and the Genentech Study Group. Final height in short non-GH deficient children treated with GH. *Growth Research Society*, Aarhus, Denmark June, 1994.
701. Wellens, R., Roche, A. F., Khamis, H., Jackson, A. S., Pollock, M. L. and R. M. Siervogel. The body mass index as a proxy for fatness and fat-free mass in adults. *Am. J. Clin. Nutr.* 61:895, 1995.
702. Towne, B., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Sexual dimorphism in fat patterning

due to genotype by sex interaction. *Am. J. Phys. Anthropol.* S 20, 211-212, 1995.

703. Chumlea, W. C., Guo, S. S., Roche, A. F., Wellens, R. and R. M. Siervogel. Frame size and body composition. *Med. Sci. Sports and Exer.*, 27:S35, 1995.
704. Towne, B., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Quantitative genetic modeling of body fat measures from dual energy x-ray absorptiometry (DXA). *Med Sci. Sports Exer.* 27:S183, 1995.
705. Wellens, R., Roche, A. F., Khamis, H., Chumlea, W. C., Guo, S. S. and R. M. Siervogel. Fatness and fat distribution by anthropometry and dual-energy x-ray absorptiometry as related to cardiovascular risk. *Med. Sci. Sports Exer.*, 27:S34, 1995.
706. Siervogel, R. M., Guo, S., Wisemandle, W., Towne, B., Wellens, R., Hecker, K. L., Hall, L. A., Roche, A. F. and W. C. Chumlea. Trunk fat versus total body fat measures from dual energy x-ray absorptiometry (DXA) in relation to levels of blood pressure in white adults. *Am. J. Clin. Nutr.* 61:895, 1995.
707. Hintz, R. L., Attie, K. M. Johanson, A. J., Baptista, J. and A. F. Roche. Near final height in GH-treated short children without classical GH-deficiency. *Ped. Res.* 37:91A, 1995.
708. Roche, A. F. Tracking in body composition and risk factors for cardiovascular disease from childhood to middle age. p.28. *Proc. Pediatric Work Physiology*,
709. Hecker, K., Towne, B., Guo, S. S., Greenberg, C., Hall, L., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Sex differences in changes during middle age in associations between blood pressure and adiposity. *Am. J. Hum. Biol.*, 7: 126, 1995.
710. Comuzzie, A. G., Towne, B., Blanchero, J., Mahaney, M., Chumlea, W. C., Roche, A. F. and R. M. Siervogel. Differences between Mexican Americans and non-Hispanic whites in the genetic and environmental correlations between waist and hip circumference. *A. J. Hum. Biol.* 7:120, 1995.
711. Roche, A. F., Wellens, R., Guo, S. S. and R. M. Siervogel. Relationships of skeletal age to limb composition during pubescence. *Med. Sci. Sports Exer* 27:S119, 1995.
712. Towne, B., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Quantitative genetics of fasting plasma insulin and body mass index in adults. *Circulation.* 91:22, 1995.
713. Guo, S. S., Wisemandle, W. A., Tyleshevski, F. E., Roche, A. F., Chumlea, W. C., Specker, B., Heubi, J. and R. M. Siervogel. Inter-machine and inter-method differences in body composition measures from dual energy x-ray absorptiometry and hydrodensitometry. 7th Asian Congress of Nutrition. Satellite Meeting on Nutrition, Body Composition and Ethnicity, Tianjiu, People's Republic of China. 3-6 October, 1995.
714. Chumlea, W. C., Guo, S. S., Roche, A. F., and R. M. Siervogel. Concurrent tracking of blood pressure and abdominal circumference in adults followed over a 30 year period. The Fels Longitudinal Study. *Am. J. Epidemiol.* 141:S17, 1995.
715. Roche, A. F., Guo, S. S., Wholihan, K., Chumlea, W. C. and P. H. Casey. Weight-for-length reference data for low birth weight infants born preterm. *Am. J. Phys. Anthropol. Suppl.* 22, 200, 1996.
716. Roche, A. F., Guo, S. S., Chumlea, W. C., Tyleshevski, F. and R. M. Siervogel. The prediction of body mass index values at 35 years. *Am. J. Hum. Biol.*, 8:127, 1996.
717. Bellisari, A. and A. F. Roche. Variable compression of subcutaneous adipose tissue (SAT) by

- skinfold calipers: Comparison with ultrasonic measurements. *Am. J. Biol.*, 8: 109-110, 1996.
718. Towne, B., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Genetics of blood pressure and body mass index before and after puberty. *Circulation*, 93:623, 1996.
719. Numoz, N. J., Towne, B., Greenberg, C., Hecker, K., Hall, L., Guo, S., Chumlea, W.C., Roche, A. F. and R. M. Siervogel. Differences in changes from childhood to young adulthood in associations between blood pressure and body mass index in subject from hypertensive vs. randomly selected families. *Am. J. Hum. Biol.*, 8: 125, 1996.
720. Chumlea, W. C., Roche, A. F., Guo, S. S. and R. M. Siervogel. Growth, maturation and body composition: The Fels Longitudinal Study and Sports Medicine. *Med. Sci. Sports Exerc.*, 28:S106, 1996.
721. Roemmich, J. N., Blizzard, R. M., Peddada, S. D., Malina, R. M., Roche, A. F., Tanner, J. M. and A. D. Rogol. Prediction accuracy of adult height from bone age in boys. *Ped. Res.* 39: 97A, 1996.
722. Guo, S. S., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Serial changes of blood pressure from young adulthood and their association with levels of body fatness and maturity: The Fels Longitudinal Study. Abstract #40. Conference on Modelling Longitudinal Spatially Correlated Data: Methods, Applications, Directions. Nantucket, Massachusetts, October, 1996.
723. Roche, A. F., Guo, S. S., Wholihan, K. and W. C. Chumlea. Weight-for-length reference data for low birth weight infants born preterm. *Am. J. Phys. Anthropol. Suppl.* 22:200, 1996.
724. Siervogel, R. M., Guo, S. S., Chumlea, W. c., Wisemandle, W., Towne, B. and A. F. Roche. Adult changes in body composition are associated with changes in lipids and lipoproteins: The Fels Longitudinal Study. p. 146 In Proc. In Vivo Body Composition Studies, Malmo, Sweden, 1996.
725. Roche, A. F. The Fels Longitudinal Study: Opportunities and difficulties in long term serial studies of growth. Proceedings of Symposium on Problems and Solutions in Longitudinal Research, pp.68, Leeuwenhorst Congress Centre, Noordwijkerhout, The Netherlands, August-September, 1996.
726. Guo, S. S., Chumlea, W. C., Roche, A. F. and R. M. Siervogel. Age-related changes in body composition and maturity from 8 to 23 years. Proc. In Vivo Body Composition Studies, p. 14, Malmo, Sweden, 1996.
727. Towne, B., Roche, A. F. and R. M. Siervogel. Separate genetic influences on the body mass and fat patterning emerge during pubescence. *Obesity Res.* 4: Suppl. 20, 1996.
728. Towne, B., Roche, A. F. and R. M. Siervogel. Heritability of weight gain during the initial phase of the pubertal growth spurt. *Obesity Res.* 4: Suppl. 20, 1996.
729. Towne, B., Roche, A. F., Parks, J. S., Blangero, J. and R. M. Siervogel. Quantitative genetics of pre- and post-pubertal skeletal maturity. *Am. J. Hum. Genet.* 59: Suppl. A191, 1996.
730. Towne, B., Roche, A. F., Parks, J. S., Blangero, J. and R. M. Siervogel. Heritability of skeletal maturity during childhood. *Am. J. Phys. Anthropol. (Suppl.)* 24:228-229, 1997.
731. Guo, S. S., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Serial analyses of blood pressure from 6 to 23 in relation to **BMI** and maturity. Fourth International Conference on Preventive Cardiology. *Canad. J. Cardiol.* 13: Suppl. B. 67, 1997.
732. Roche, A. F. The establishment and maintenance of longitudinal growth studies: Experiences from

Melbourne and Fels. Book of Abstracts. Eighth International Congress of Auxology, Philadelphia, PA, p. 61, 1997.

733. Guo, S. S., Chumlea, W. C., Siervogel, R. M. and A. F. Roche. Age-related changes in body fat and fat-free mass in relation to maturity from 8 to 23 years: The Fels Longitudinal Study. *FASEB Journal* 11: A232, 1997.
734. Towne, B., Demerath, E. W., Maynard, L. M., Roche, A. F. and R. M. Siervogel. Heritability of bone mineral density in young to middle-aged adults. *Am. J. Phys. Anthropol.* S26:220, 1998.
735. Towne, B., Parks, J. S., Blangero, J., Almasy, L., Brown, M. R., Murphy, T. C., Demerath, E. W., Roche, A. F. and R. M. Siervogel. Associations between luteinizing hormone-beta gene polymorphisms and skeletal maturation and growth before and during puberty. *Am. Soc. Hum. Genet. Suppl.* 61: A214, 1997.
736. Towne, B., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Genetics of blood pressure and body mass index before and after puberty. *Circulation*, 93:623, 1997.
737. Towne, B., Roche, A. F., Parks, J. S., Blangero, J. and R. M. Siervogel. Interrelationships between skeletal maturity and age at the onset and peak of the pubertal growth spurt. *Am. J. Hum. Biol.* 9:146, 1997.
738. Commuzie, A. G., Towne, B., Mahaney, M. G., Blangero, J., Roche, A. F., Siervogel, R. M., Stem, M. P. and J. L. Vandenberg. Associations between body composition and serum lipids in Mexican Americans and non-Hispanic Whites. *Am. J. Hum. Biol.* 9: 126, 1997.
739. Guo, S. S., Zeller, C., Chumlea, W. c., Roche, A. F. and R. M. Siervogel. Body composition and secular trends in children and young adults: The Fels Longitudinal Study, 1929-1996. 37th Annual Meeting of American Society for Clinical Nutrition, Montreal, 1997. *Am. J. Clin. Nutr.* 66:220, 1997.
740. Roche, A. F., Guo, S. S., Wholihan, K. and P. H. Casey. Measurement standards for preterm infants. *Advances.* 2, 7, 1997
741. Roche, A. F. The assessment of physical growth. 12th meeting of the Research Society for Growth Disturbance in Children. Book of Abstracts. 1998.
742. Guo, S. S., Huang, C., Chumlea, W. C., Roche, A. F., Wisemandle, W. and Siervogel, R.M. Longterm changes in BMI during growth in relation to adulthood obesity and cardiovascular risk factors. *Int. Congress of Obesity , Body of Abstracts.* 1998.
743. Guo, S. S., Zeller, C., Chumlea, W. C., Roche, A. F., and R. M. Siervogel. Aging, body composition, and related risk factors. The Fels Longitudinal Study (1929-1997), *Int. Congress of Obesity, Book of Abstracts.* 1998.
744. Guo, S. S., Zeller, C. M., Chumlea, W. C., Siervogel, R. M., and A. F. Roche., Aging, bone mineral and related risk factors. Annual meeting of Am. Soc. Bone Min. Res. and Intemat. Bone Mineral Soc., San Francisco, 1998.
745. Guo, S. S., Zeller, C. M., Chumlea, W. C., Siervogel, R. M., and A. F. Roche. Aging, bone, mineral, and related risk factors. Annual meeting of Society for Epidemiological Research. 1998.
746. Guo, S. S., Huang, C., Chumlea, W. C., Roche, A. F., Wisemandle, W. and R M. Siervogel. Long-term changes in BMI during growth in relation to adulthood obesity and cardiovascular risk factors. *Intemat. J. Obesity*, 22:525, 1998.

747. Roche, A. F. The Assessment of Physical Growth. Book of Abstracts, 12th Meeting of the Research Society for Growth Disturbance in Children. Tokyo, Japan. p.26, 1998
748. Roche, A. F. The Clinical Appraisal of Overweight and Obesity. Book of Abstracts, Sports Medicine Group, Kyoto Medical Association, Kyoto, Japan. pp.3-6, 1998.
749. Siervogel, R. M., Maynard, L. M., Wisemandle, W. A., Roche, A. F., Guo, S. S., Chumlea, W. C. and Towne, B. Changes in total body fat (TBF) and fat free mass (FFM) in children from 8- to 18 years with changes in body mass index (BMI): The Fels Longitudinal Study. Proceedings IN VIVO Body Composition Symposium, New York, p.140, 1999.
750. Roche, A. F. Reflections on the Fels Longitudinal Study, 1929-1999. Body Composition throughout the Lifespan: Issues, Mechanisms, and Health Outcomes. Symposium, Wright State University, Dayton, OH, 1999.
751. Towne, B., Siervogel, R. M., Parks, J. S., Brown, M. R., Roche, A. F. and J. Blangero. Genetic regulation of skeletal maturation from 3 to 15 years. *Am. J. Hum. Genet.* S65:A401, 1999.
752. Towne, B., Guo, S. S., Chumlea, W. c., Roche, A. F. and R. M. Siervogei. Genetics of age-related changes in cardiovascular disease risk factors. *Am. J. Phys. Anthropol.* S30:304, 2000.
753. Czerwinski S. A., Towne B., Guo S. S., Chumlea W. C., Roche A. F. and R. M. Siervogei. Genetic and environmental influences on lipid and lipoprotein levels in pre-and post-pubertal children. *Am. J. Hum. Biol.* 12:289,2000.
754. Roche A. F. Skeletal age and disease. *Acta Med. Auxoi.* 32:11-12,2000.
755. Towne B., Blangero J., Parks J. S., Brown M. R., Roche A. F. and R. M. Siervogei. Genetic approaches to the study of normal skeletal maturation. *Acta Med. Auxoi.* 32:11, 2000
756. Towne B., Parks J. S., Brown M. R., Siervogel R. M., Roche A. F. and J. Blangero. Longitudinal quantitative genetic analysis of childhood skeletal maturation. *Genetic Epidemiol*9:275, 2000.
757. Kahn H. S., Demerath E. W., Roche A. F., Li J. and R. M. Siervogei. Can a fingerprint ridge-count difference predict adverse anthropometric indices in adulthood? *Am. J. Epidemiol*153(Suppl 11):S28,2001.
758. Town B., Czerwinski S. A., Demerath E. W., Roche A. F., Blangero J. Parks T. S., Brown M. R. and R. M. Siervogei. Genetic associations between pubertal growth and skeletal maturity in healthy boys and girls. *Am. J. Hum. Genet.* 69(Suppl):S398, 2001.
759. Towne B, Czerwinski SA, Demerath EW, Roche AF, Blangero J, Parks JS, Brown MR, Siervogel RM. Genetic associations between pubertal growth and skeletal maturity in healthy boys and girls. *Am. J. Hum. Genet.* 69 (Suppl):398, 2001.
760. Towne B, Duren DL, Czerwinski SA, Demerath EW, Roche AF, Blangero J, Parks JS, Brown MR, Siervogel RM. Genetic architecture of the timing of the pubertal growth spurt and skeletal maturity during puberty. *Am. J. Phys. Anthropol. Suppl.* 24:156, 2002.

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761. Baumgartner, R., Siervogel, R. M., Guo, S., Chumlea, W. C. and A. F. Roche. Use of bioelectric impedance for estimating body composition in epidemiology. Annual Meeting of Society for Epidemiological Research, Amherst, Massachusetts No. 125, 1987.
762. Roche, A. F. Risk of overweight at 18 years dependent on weight and weight/stature² during childhood. Annual meeting, Midwest Society for Pediatric Research. Chicago, Illinois; Clin. Res. 35:907A,1987
763. Guo, S., Roche, A. F. and W. C. Chumlea. Predicting fat-free mass (FFM) and percent body fat (%BF) from anthropometry and impedance. Annual Meeting of Human Biology Council, San Diego, April, 1989.
764. Siervogel, R. M., Roche, A. F., Guo, S., Mukherjee, D. and W. C. Chumlea. Patterns of change in adiposity during childhood and their relation to adiposity at 18 years. Annual Meeting of Human Biology Council, San Diego, April, 1989.
765. Guo, S. S., Roche A. F., and W. C. Chumlea. Predicting fat-free mass (FFM) and percent body fat (%BF) from anthropometry, resistance and reactance. Annual Meeting of Human Biology Council, San Diego, April, 1989.
766. Baumgartner, R. N., Chumlea, W. C., Guo, S. S. and A. F. Roche. Prediction of growth in fat-free mass from bioelectric resistance and anthropometry in children. Annual Meeting of Human Biology Council, Miami, April, 1990.
767. Roche, A. F., Guo, S. S. and W. M. Moore. Body surface area of infants. Annual Meeting, American Association of Physical Anthropology, Milwaukee, WI., April, 1991.
768. Guo, S. S., Siervogel, R. M., Roche, A. F. and A. Gregor. Mathematical modeling of growth in stature from the Fels Longitudinal Study. Annual Meeting, American Association of Physical Anthropology, Milwaukee, WI., April, 1991.
769. Guo, S. S., Roche, A. F., Fomon, S. J., Nelson, S. E., Chumlea, W. C., Rogers, R. R., Baumgartner, R. N., Ziegler, E. E. and R. M. Siervogel. Reference data for weight, length and gains in weight and length during the first two years of life. Annual Meeting, American Society of Clinical Nutrition, Seattle, WA, May, 1991.
770. Roche, A. F., Baumgartner, R. N. and R. M. Siervogel. B-mode ultrasound measurements of subcutaneous adipose tissue. Annual Meeting American Society of Clinical Nutrition, Seattle, W A, May, 1991.
771. Siervogel, R. M., Guo, S. S. and A. F. Roche. Risk analysis of body mass index (BMI) using values in childhood and adulthood. Part I. Log odds ratio, relative risk, sensitivity and specificity. Annual Meeting, American Association of Physical Anthropology, Las Vegas, NY, March, 1992.
772. Guo, S. S., Roche, A. F., Siervogel, R. M., Chumlea, W. C. and A. Jennings. Risk analysis of body mass index (BMI) using prediction of adult overweight from childhood. Part II. Risk estimates and their practical application. Annual Meeting, American Association of Physical Anthropology, Las Vegas, NY, March, 1992.
773. Wellens, R., Chumlea, W. C., Guo, S., Roche, A. F. and R. M. Siervogel. Assessing the accuracy of single photon absorptiometry for predicting total body bone mineral mass and density as measured by dual ex-ray absorptiometry. Annual Meeting, American Association of Physical Anthropology, Las Vegas, NY, March, 1992.

774. Bellisari, A., Roche, A. F. and R. M. Siervogel. B-mode ultrasonic measurement of subcutaneous and intra-abdominal adipose tissue. Annual Meeting, American Association of Physical Anthropologists, Las Vegas, NY, April, 1992.
775. Bellisari, A., Roche, A. F. and R. M. Siervogel. B-mode measurement of subcutaneous and intra-abdominal adipose tissue on technical issues. Annual Meeting of Human Biology Council, Las Vegas, NY, March, 1992.
776. Towne, B., Guo, S. S., Siervogel, R. and A. Roche. Genetic analysis of percentile body weight variation from ages 2 to 17. Annual Meeting of American Society of Clinical Nutrition, Baltimore, MD, April, 1992.
777. Roche, A. F., Guo, S. S. and R. M. Siervogel. Implications of predicting overweight in adulthood from childhood BMI (weight/stature²). Annual Meeting of American Society of Clinical Nutrition, Baltimore, MD, April, 1992.
778. Roche, A. F., Michaelsen, K. F., Northeved, A., Culmsee, J., Boska, M., Guo, S. S. and R. Wellens. The measurement of limb musculature with high frequency energy absorption (HFEA). Annual Meeting of American College of Sports Medicine, Dallas, TX, May, 1992.
779. Wellens, R., Roche, A. F., Guo, S., Chumlea, W. C. and R. M. Siervogel. Assessing percent body fat and fat-free mass by dual energy x-ray absorptiometry and densitometry. Annual Meeting of American College of Sports Medicine, Dallas, TX, May, 1992.
780. Roche, A. F., Guo, S. S. and R. M. Siervogel. Risk of overweight at 18 or 30 years dependent on weight/stature² percentiles in childhood. International Conference on the Prevention of Atherosclerosis and Hypertension Beginning in Youth. Orlando, FL, May, 1992.
781. Michaelsen, K. F., Roche, A. F., Guo, S. S., Northeved, A. and J. Culmsee. Muskelmussen I ekstremiteter malt med hoj trekvens energi absorption (HFEA). S. Nordiske Ernaeringskogres, Reykjavik, Iceland, June, 1992.
782. Cottom, C. and A. F. Roche. Maximizing skeletal maturity information: The FELS Method. Study Co-Ordinator's Meeting, 1992. National Co-Operative Growth Study (NCGS) Meeting. Los Angeles, CA, Nov., 1992.
783. Frane, J. W. and A. F. Roche. Interrelations among stature, and measures of skeletal maturity within age- and sex-specific groups. Investigator's Meeting, 1992. National Co-Operative Growth Study (NCGS) Meeting, Los Angeles, CA, Nov. 1992.
784. Michaelsen, K. F., Roche, A. F., Northeved, A., Culmsee, J., Boska, M., Guo, S. and R. Wellens. The use of high frequency energy absorption (HFEA) to measure limb musculature. International Symposium on In Vivo Body Composition Studies. Houston, TX, Nov. 1992.
785. Wellens, R., Roche, A. F., Guo, S., Chumlea, W. c., and R. M. Siervogel. Fat-free mass and percent body fat assessments by dual-energy x-ray absorptiometry, densitometry and total body water. International Symposium on In Vivo-Body Composition Studies. Houston, TX., Nov., 1992.
786. Guo, S. S., Chumlea, W. C., Wu, x., Wellens, R., Siervogel, R. M. and A. F. Roche. A comparison of body composition models. International Symposium on In Vivo Body Composition Studies. Houston, TX. Nov., 1992.
787. Towne, B., Siervogel, R. M., and A. F. Roche. Genetic analysis of pre- and post-adolescent body mass index of boys and girls. Prevention and treatment of childhood obesity. New York Academy of

Sciences. Bethesda, MD, March, 1993.

788. Hintz, R., K. Attie, A. Johanson, J. Baptista, J. Frane and A. Roche. GH treatment in idiopathic short stature: influence of puberty and sex on skeletal maturation and growth response. Annual Meeting of the European Society for Pediatric Research, 1993.
789. Wellens, R., Roche, A. F., Khamis, H., Chumlea, W. c., Guo, S. S. and R. M. Siervogel. The body mass index versus direct methods as a proxy for body fatness. Annual Meeting of The North American Association for the Study of Obesity, Milwaukee, WI, Oct., 1993.
790. Towne, B., Roche, A. F., Chumlea, W. c., Guo, S. S. and R. M. Siervogel. No evidence of pleiotrophy for either body mass index or waist/hip circumference ratio and plasma cholesterol concentration. Annual Meeting of North American Association for the Study of Obesity, Milwaukee, WI, Oct., 1993.
791. Khamis, H. J. and A. F. Roche. Growth in stature of short slowly maturing children. Annual Meeting of American Association of Physical Anthropologists, Denver, CO, March, 1994.
792. Roche, A. F., Cottom, C. and K. Attie. Precision of FELS (hand-wrist and RWT (knee) skeletal ages. Annual Meeting of the Human Biology Council, Denver, CO, March, 1994.
793. Khamis, H. J. and A. F. Roche. Growth in stature of short slowly maturing children. Annual Meeting of American Association of Physical Anthropologists, Denver, CO, March, 1994.
794. Bellisari, A., Wellens, R., Roche, A. F., Boska, M., Guo, S., Chumlea, W. C. and R. M. Siervogel. Validation of ultrasonic skinfold measurements of subcutaneous adipose tissue using magnetic resonance imaging. Annual Meeting of Human Biology Council, Denver, CO, March, 1994.
795. Towne, B., Roche, A. F., Chumlea, W. C. and R. M. Siervogel. Genotype by sex interaction in total body fat measured as the sum of six skinfolds. Annual Meeting of The Human Biology Council, Denver, CO, March, 1994
796. Guo, S. S., Salisbury, S., Roche, A. F., Chumlea, W. M., Siervogel, R. M., Casey, P. N. and W. M. Moore. Gestational age corrected reference data on gains in weight, recumbent length, and head circumference for preterm low birth weight infants during the first three years of life: A Multicenter Study. Society for Pediatric Research, Seattle, W A, 1994.
797. Towne, B., Roche, A. F., Chumlea, W. C., Guo, S. S. and R. M. Siervogel. Analysis of pleiotrophy between body mass, fat pattern and serum HDL-C and LDL-C concentrations. Annual Meeting of the American Association of Physical Anthropologists. Denver, CO. March, 1994.
798. Wellens, R., Roche, A. F., Jackson, K., Boska, M. D., Guo, S. S. and R. M. Siervogel. Validation of limb muscle mass by high frequency energy absorption (HFEA) versus magnetic resonance imaging (MRI). Annual Meeting of American Association of Physical Anthropologists, March, 1994.
799. Towne, B., Parks, J., Roche, A. F., Guo, S. S., Chumlea, W. C. and R. M. Siervogel. The genetic epidemiology of patterns of human growth. Annual Meeting of the Human Biology Council, Denver, CO, March, 1994.
800. Towne, B., Roche, A. F., Chumlea, W. C., Guo, S. S. and R. M. Siervogel. Multivariate genetic analysis of body mass index, adipose tissue distribution, and serum HDL-C and LDL-C concentrations. American Heart Association, Scientific and Nursing Research Meetings, Atlanta, GA, 1994.

801. Hintz, R. L., Leboeuf, G., Attie, K. M., Johanson, A. J., Baptista, J., Roche, A. F. and the Genentech Study Group. Final height in short non-GH deficient children treated with GH. Growth Research Society, Aarhus, Denmark, June, 1994.
802. Roche, A F., Cottom, c., Graham, T., Dana, K., Rundle, A and K. Attie. Relationships between annual increments in stature and in skeletal age. Book of Abstracts, p. 16 Eighth Annual Investigator's Meeting, National Collaborative Growth Study, Orlando, FL, Oct. 1994.
803. Cottom, C., Roche, A. F., Graham, T., Dana, K., Rundle, A and K. Attie. Relationships between annual increments in stature and in skeletal age. Eighth Annual Investigator's Meeting, National Collaborative Growth Study, Orlando, FL, Oct. 1994.
804. Towne, B., Roche, A F., Chumlea, W. C. and R. M. Siervogel. Sexual dimorphism in fat patterning due to genotype by sex interaction. Annual Meeting of American Association of Physical Anthropologists. Oakland, CA, April, 1995.
805. Roche, A F., Wellens, R., Guo, S. S., Chumlea, W. C., R. M. Siervogel. Relationships of skeletal age to limb composition during pubescence. *Med Sci Sports Exerc* 27(Suppl):S119, 1995
806. Towne, B., Roche, A F., Chumlea, W. C. and R. M. Siervogel. Quantitative genetic modeling of body fat measures from dual energy x-ray absorptiometry (DXA). Annual Meeting of American College of Sports Medicine, Minneapolis, MN, June, 1995.
807. Roche, A F., Guo, S. S., Chumlea, W. c., Tyleshevski, F. and R. M. Siervogel. The prediction of body mass index values at 35 years. Annual Meeting of Human Biology Association, Chapel Hill, NC, April, 1996.
808. Numoz, N. J., Towne, B., Greenberg, C., Hecker, K., Hall, L., Guo, S. S., Chumlea, W. C., Roche, A F. and R. M. Siervogel. Differences in changes from childhood to young adulthood in associations between blood pressure and body mass index in subjects from hypertensive vs randomly selected families. Annual Meeting of Human Biology Association, Chapel Hill, NC, April, 1996
809. Towne, B., Roche, A F., Blangero, J. and R. M. Siervogel. Quantitative genetics of pre- and post-pubertal skeletal maturity. Annual Meeting of American Society for Human Genetics, 1996.
810. Roche, AF., and Guo, S. S. BMI in relation to adult obesity and cardiovascular disease. Annual Meeting of Society for Epidemiological Research, Chicago, IL., 1998
811. Zeller, C. M., Guo, S. S., Chumlea, W. C., Roche, A F. and R. M. Siervogel. Aging, bone mineral and risk factors. Annual Meeting of Sociey for Bone and Mineral Research. San Francisco, 1998.
812. Guo, S. S., Huang, C., Chumlea, W. c., Roche, A F., Wisemandle, W. and R. M. Siervogel. Longterm changes in BMI during growth in relation to adulthood obesity and cardiovascular risk factors. Internat. Congo Obesity, Paris, France, August 1998.