

ANNUAL PUBLICATIONS**Department of Maxillofacial Reconstruction and Function
Maxillofacial Orthognathics**

1993.1.-2000.3.

I. Staffs and Students (April, 1999)

Professor	T.Kuroda	
Associate Professor	K.Ohyama	
Lecturer	N.Motohashi	S.Suzuki
Research Associate	Y.Kato	Y.Baba
	T.Ono	N.Suda
Hospital Staff	T.Kawamoto	M.Yamamoto
	S.Hiyama	F.Nakagawa
	M.Tsuji	N.Funato
	A. Kitamura	S.Tsuiki
Clinical Training Staff	N.Kawanobe	E.Yamada
Secretary	Y.Kobayashi	
Graduate Student	K.Itoh	R.Ohtsuka
	Y.Ogihara	A.Oueis(Syria)
	Y.Kitahara	T.Hatai
	K.Ohtani	T.Ogawa
	S.Kanda	M.Kongkwan(Thailand)
	K.Ohkubo	H.Shinagawa
	M.Henmi	T.Suzuki
Special Student	M.Sakamoto	T.Enomoto
	M.Ishii	M.Takakura
	N.Sakamoto	K.Hirose
	N.Miikeda	T.Fukaya
	T.Hamada	K.Fukada
	S.Takahashi	M.Ogawa
	H.Furukawa	A.Nunota
	J.Ohyama	N.Imamura
	T.Ishizaki	H.Kawamura
	G.Kuribayashi	R.Shigefuji
	C.Murakami	M.Kusayama
	H.Sakura	T.Takeshima
	M.Yanase	Y.Suzuki(Brasil)
	H.Tsukawaki	M.Mochida

II. Educational Outline of Graduate Course

The main subjects of our education for graduate students are as follows:

1. Basic concept for maxillofacial orthognathics
2. Pre and postnatal craniofacial growth and development
3. Diagnosis and treatment planning for craniofacial dysmorphology
4. Maxillofacial reconstruction and function

III. Research Subjects

Clinical Research

1. Morphology and physiology of craniofacial complex in patients with birth defects and also in patients with developmental anomalies.
2. Morphological evaluation by using 3-D analyzing system.
3. Development of new orthodontic appliance for patients with birth defects.

4. Methodology of diagnosis on birth defects.

Basic Research

1. Control mechanism of tongue posture and mandibular posture.
2. Biochemical analysis on scar tissue.
3. Orthodontic tooth movement in scar tissue.
4. Histogenesis on condylar cartilage in prenatal mice.
5. Animal models for congenital anomalies.

IV. Publications (January, 1993-March, 2000)**A. Original Articles**

1. Fujisaki T., Kato Y., Fujita Y., Sakamoto M., Kamata S., Igarashi K., Hiyama S., Kuroda T.: TMJ dysfunction questionnaire on patients with malocclusion. *J.Jpn. Soc.TMJ*. 5: 64-77, 1993 (in Japanese).
2. Inaba N.: Crossed inhibition of lateral pterygoid motoneurons in guinea pig. *J.Stomatol.Soc.,Jpn*. 60: 344-358, 1993 (in Japanese).
3. Kasugai S., Shibata S., Suzuki S., Susami T., Ogura H.: Characterization of a system of mineralized-tissue formation by rat dental pulp cells in culture. *Archs. Oral Biol*. 38(9): 769-77, 1993.
4. Moriyama K., Motohashi N., Susami T., Baba Y., Uji M., Yoshino H., Ma R. R., Yamamoto M., Kuroda T.: Surgical-Orthodontic treatment for cleft lip and palate patients. *J. Jpn. Cleft Palate Assoc*. 18:181-193, 1993 (in Japanese).
5. Ohyama K., Iwata K., Kitsugi A., Uji M., Yamamoto M., Kuroda T.: Stickler syndrome and Marshall syndrome among the cleft palate patients. *J.Jpn.Cleft Palate Assoc*. 18:373-380,1993 (in Japanese).
6. Ohyama K.,Kuroda T.,Ohkura K. : Visual educational technique on birth defects.*Med.Genet.Rec*.15: 8-20,1993 (in Japanese).
7. Shibata S., Baba O., Niikura M., Suzuki S., Yamashita Y., Ichijo T.: An ultrastructural study of mitotic chondrocytes in the proliferative zone of the rat tibial growth plate. *Anatom Anze*. 175(1): 41-5, 1993.
8. Shibata S., Suzuki S., Yamashita Y., Ichijo T.: A comparative ultrastructural study of the mitotic chondrogenic cells in the mandibular condyle and tibial growth plate of the rat. *Archs. Oral Biol*. 38(10): 845-51, 1993.
9. Shigeta H.: Cytoskeletal actin of scar fibroblasts derived rat palatal mucosa. *Jpn.J.Oral Biol*. 35:51-61, 1993 (in Japanese).
10. Susami T., Kamiyama H., Uji M., Motohashi N., Kuroda T.: Quantitative evaluation of the shape and the elasticity of repaired cleft lip. *Cleft Palate-Craniof J*. 30(3): 309-12, 1993.
11. Susami T., Yoshimasu H., Suda N., Yamamoto M., Enomoto T., Kuroda T.: Surgical-orthodontic treatment of severe maxillary protrusion accompanied by hypoparathyroidism: A case report with Wassmund technique. *J. Jpn. Orthod.Soc*. 52(5): 509-518,1993 (in Japanese).
12. Suda N., Morita I., Kuroda T., Murota S.: Participation of oxidative stress in the process of osteoclast differentiation. *Bioch Bioph Acta*. 1157(3): 318-23, 1993.
13. Tanahashi K., Ohuchi Y., Kido K., Shimizu R., Kuroda T.: Preliminary investigation on the speech analysis and display method for the purpose of evaluating speech irregularity. *Tec.Re.Ieice*. 93:135-142,1993 (in Japanese).
14. Yoneda T., Nakai M., Moriyama K., Scott L., Ida N., Kunitomo T., Mundy GR.: Neutralizing antibodies to human interleukin 6 reverse hypercalcemia associated with a human squamous carcinoma. *Canc Res*. 53(4): 737-40, 1993.
15. Yoneyama T., Doi H., Hamanaka H., Yamamoto M., Kuroda T.: Bending properties and transformation temperatures of heat treated Ni-Ti alloy wire for orthodontic appliances. *J Biom Mater Res*. 27(3): 399-402, 1993.
16. Hiyama S., Ishiwata Y., Kuroda T.: Recording of the inferior head of the human lateral pterygoid muscle activity with intraoral electrodes. *J. Jpn. Orthod.Soc*. 53:683-695,1994(in Japanese).
17. Kato Y., Tengan T., Shimizu R., Uji M., Motohashi N., Kuroda T.: Frontal cephalometric analysis of facial asymmetry. *Jpn.J.Jaw Deform*. 4:87-95, 1994 (in Japanese).
18. Kato Y., Amano M., Kuroda T.: A case report of Craniosynostosis. *J.Tokyo Orthod. Soc*. 4(1): 12-19, 1994 (in Japanese).
19. Ma R.R.: Three dimensional analysis of CT image naso-maxillary complex in cleft lip and palate patients. *J.Stomatol.Soc.,Jpn*. 61: 492-511, 1994 (in Japanese).
20. Motohashi N., Kuroda T., Filho L C. Freitas J A.: P-A cephalometric analysis of nonoperated adult cleft lip and palate. *Cleft Palate-Craniof J*. 31(3): 193-200, 1994.
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29. Ferguson K. A., Ono T., Lowe A. A., Ryan C. F., Fleetham J. A.: The relationship between obesity and craniofacial structure in obstructive sleep apnea. *Chest* 108: 375-381, 1995.
30. Guenther H. L., Hofstetter W., Moseley T. M., Gillespie M. T., Suda N., Martin T. J.: Evidence for the synthesis of parathyroid hormone-related protein (PTHrP) by nontransformed clonal rat osteoblastic cell in vitro. *Bone* 16(3): 341-347, 1995.
31. Hirasawa J., Ishii M., Kuroda T., Fujisaki T., Sakamoto M., Karo Y. : An epidemiological study of TMJ disorders in female college students. *J.Jpn. Soc.TMJ*. 7: 97-106, 1995 (in Japanese).
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33. Ishii M.: An immunohistochemical study in fetal mouse condylar cartilage. *J.Stomatol.Soc.,Jpn*. 62: 16-28, 1995 (in Japanese).
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50. Okada R., Motohashi N., Kuroda T.: Molar occlusal changes in the frontal dimension following surgical orthodontic treatment for patient with skeletal mandibular protrusion. *Jpn.J.Jaw Deform.* 6:129-136, 1996 (in Japanese).
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53. Ono T., Lowe A. A., Ferguson K. A., Fleetham J. A.: A tongue retaining device and sleep-state genioglossus muscle activity in patients with obstructive sleep apnea. *Angle Orthod* 66(4): 273-280, 1996.
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- mouse Meckel's cartilage and mandible. *Archs Oral Biol* 42(12): 787-794, 1997.
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