

Appendix I

Greek and Latin Prefixes can sometimes be very useful:

Number	Greek Prefix	Latin Prefix
1	Mono-	Uni-
2	Di-	Bi-/Bis-
3		Tri-/Tris-
4	Tetra (kis)-	Quad-
5	Penta (kis)-	Quin-
6	Hexa (kis)-	Sex-
7	Hepta (kis)-	Sept-
8	(Octakis)-	Octa-
9	Ennea (kis)-	Nona-
10		Deca-
1×10^{-1}		deci- (d)
1×10^{-2}		centi- (c)
1×10^{-3}		milli- (m)
1×10^{-6}		micro-* (μ)
1×10^{-9}		nano- (n)
1×10^{-12}		pico- (p)
21×10^{-15}		femto- (f)
1×10^{-18}		atto- (a)
1×10		Deka (D)
1×10^2		Hecto (H)
1×10^3		Kilo (K)
1×10^4		Myria (M)
1×10^5		Quintal (Q)
10^6		Millier (M) or Ton

Appendix II

Coining scientific terms using Greek/Latin prefixes and suffixes:

Appendix II-1: Useful Greek prefixes

A

Acou/Acu- (hear;聴く)	acoustics (音響学、聴覚学)
acr/Acro (extremity;先端/体)	acroblast (先体芽), acromegaly (先端肥大症)
actin- (ray/radius;線/半径)	actinogenesis (放射線発生), actinocutitis (放射線皮膚炎)
aden- (gland;腺):	adenoma (腺腫), adenodynia (腺痛)
alg- (pain;痛み):	algnesia (痛覚過敏), alginuresis (疼痛性排尿)
all- (other/different;異常):	allergy (アレルギー), allotriolith (異常結石)
alve- (trough/cavity;槽/溝/管)	alveolus (齒槽、肺胞), alveoloclasia (齒槽崩壊)
amph(i/o)- (両側/両方)	amphicyte (二重細胞), amphotony (両交感神経緊張)
amyl- (starch;デンプン):	amylphagia (デンプン貧食), amylolysis (デンプン分解)
ana-/ana- (up/back;上/後/過度の)	anacclasis (反射、屈折), anadipsia (口渴過度)
andr- (man;雄)	andropathy (男性疾患), andromania (女性多淫症)
angi(e/o)- (vessel;管)	angiectomy (血管切除術), angiocarditis (血管心臓炎)
anis(o)- (unequal;不等/非類似)	anisochromatic (不同色の), aniso tonic (非等張の)
ant(i/a)- (against;抗/反対)	antagonist (拮抗薬), antiarrhythmic (抗不整脈)
apo(o)- (away from;分離/誘導体)	apoptosis (断片化), apomorphine (モルヒネ誘導体)
arachn- (spider;クモ)	arachnophobia (クモ恐怖症), arachnodactylia (クモ指症)
arter(i)- (windpipe/artery;動脈):	arteriosclerosis (動脈硬化症), arteriole (細動脈)
arch(e/i)- (first/origin;原始/由来)	archebiosis (原発生), archicortex (古皮質)
arthr(o)- (joint;関節):	arthrosis (関節症), arthritis (関節炎)
aux- (increase;副/法補助)	auxiliary (補助的の), auxotrophic (栄養要求性の)
aut(o)- (self;自己/自動/自律)	autoagglutination (自己凝集反応), autognosis (自己診断)
ax(on)- (axis;軸):	axofugal (軸索遠心性), axon (軸索)

B

Bacter- (small staff, rod):	bacteriolysis (溶菌), bactericidal (殺菌性)
ball- (throw;投げる)	ballistics (弾道学), ballistocardiography (心弾動記録法)
bar- (weight;重量/圧力)	baroreceptor (圧受容器), baroreflex (圧反射)
bi(s)- (two;二/両)	bipolar (双極の), bifurcation (分枝), bisexual (両性の)
bil- (bile;胆汁)	biliary (胆汁の/胆管の), bilirhachia (胆汁髄液症)
blast- (bud/child;胚/芽)	blastoma (芽細胞腫), blastula (胞胚)
blep- (look/see;見る)	blepharal (眼瞼の), blepharectomy (眼瞼切除術)
brady- (slow;遅い):	bradycardia (徐脈), bradylalia (言語緩慢/遅語症)

brom(a/o)-(stench/bromine;臭/臭素) **bromatoxism** (食中毒), **bromidrosis** (臭汗症)

bronch- (windpipe;気管) **bronchitis** (気管支炎), **bronchus** (気管支)

C

Carcin- (crab/cancer;蟹/癌) **carcinogenic** (発癌性の), **carcinoma** (癌腫)

cardi- (heart;心臓): **cardiogram** (心電図), **cardioangiography** (心臓血管造影)

cac- (bad/abnormal;悪/病) **cacoethes** (悪癖), **cacogenesis** (发育不全)

cat(a)- (down;下方に/下部の) **catamnesis** (病後歴), **catabolism** (異化/物質分解代謝)

celio- (belly;腹部) **celiodynia** (腹痛), **celiotomy** (開腹術)

centr- (center;中心/中央/中枢) **centrosome** (中心体), **centrifugation** (遠心分離)

cephal- (head;頭) **cephalomeningitis** (脳膜炎), **cephalopathy** (頭部疾患)

cer- (wax;蠟) **ceraceous** (蠟様), **ceramidosis** (組織中にセラミドの蓄積)

cheil- (lip;口唇/縁) **cheiloschisis** (口唇裂), **cheilorrhaphy** (唇縫合)

cheir- (hand;手) **cheiragra** (手痛風), **cheirognomy** (手相学)

chlor- (green;緑) **chlorophyll** (葉緑素), **chloroplast** (葉緑体)

chro- (color;色) **chroatodysopia** (色盲), **chromatosome** (染色体)

chron- (time;時) **chronotropic** (変時性), **chronophobia** (時間恐怖症)

chy- (pour;注ぐ) **chyle** (乳状液), **chylipoiesis** (乳び生成)

coel- (hollow;空閑) **coeloma** (体胞), **coeloblastula** (有腔胞胚)

colon- (lower intestine;結腸) **colonoscopy** (結腸内視鏡), **colorrhagia** (結腸出血)

colp(o)- (hollow/vagina;膣) **colpitis** (膣炎), **colpocytology** (膣内容細胞学)

cry- (cold;寒冷) **cryesthesia** (寒冷過敏症), **cryobank** (凍結銀行)

crypt- (hide;潜在) **cryptogenic** (潜在性の), **cryptomnesia** (潜在記憶)

cyan- (blue;青) **cyanophilous** (好青性の), **cyanuria** (青尿症)

cycl- (circle/eye;円/眼) **cyclotherapy** (自転車療法), **cyclops** (単眼者)

cyst(i/o)- (bladder;嚢胞) **cystitis** (膀胱炎), **cystolith** (膀胱結石)

cyt- (cell): **cytogenetics** (細胞遺伝学), **cytopenia** (血球減少)

D

Dacry- (tear;涙) **dacryorrhea** (過剰の流涙), **dacryohemorrhhea** (血涙流出)

dactyl- (finger;指) **dactylogram** (指紋), **dactylus** (手または足の指)

dec- (ten;10) **decinormal** (1/10 規定), **decipara** (十産婦)

dendr- (tree;樹木) **dendrochronology** (年輪計数), **dendrite** (樹状突起)

der- (neck;頸) **deranencephalia** (頭頸椎不全奇形)

derm(at)- (skin;皮膚) **dermatitiss** (皮膚炎), **dermatergosis** (職業性皮膚病)

di- (twice/double;二/二倍) **dimmer** (二量体), **dipole** (双極子)

disc- (discus;円盤): **discectomy** (円板除去術), **discoid** (円板状の/盤状の)

dys- (improper;不良/異常): **dysfunction** (機能不全), **dystrophia** (栄養不良)

E

Ec(t)- (outside/out of;外/外へ)	ectoderm (外胚葉), ecchondrosis (外軟骨症)
ede- (swell;腫れ)	edema (浮腫 ; 水腫), edematogenous (水腫発生性)
electro- (amber;電気に関係する)	electroencephalography (脳は記録)
endo- (within;内/内部)	endocrinology (内分泌学), endothelium (内皮)
e(m/n)- (in/into;中/内部)	empathy (感情移入), enceinte (妊娠中の)
epi- (on;上/上方)	epithelium (上皮), epinephritis (腎小体炎/副腎炎)
erythr- (red;赤)	erythrocyte (赤血球), erythropenia (赤血球減少症)
eso- (inside;中/内に)	esophagus (食道), esophagogastrostomy (食道噴門筋切開)
eu- (good/normal;良く/健康に)	eukaryote (真核生物), euphoria (多幸感)
ex(o)- (outside;外へ/外の)	exogenous (外因性/の外原性の), exoskeleton (外骨格)

G

Galact- (milk;乳)	galacacrasia (母乳異常), galactostasis (乳汁分泌停止)
gam(o)- (marriage;結婚/性的結合)	gamogenesis (有性生殖), gamophagia (配偶子消失)
gangli- (swelling;腫れ)	ganglion (神経節), ganglionoplegic (神経節麻痺の)
gastr- (stomach 胃)	gastritis (胃炎), gastroenteritis (胃腸炎)
gen(o)- (to produce;生殖)	genotype (遺伝子型/因子型), genome (遺伝子の完全な組)
geo- (earth;地球)	geochemistry (地球化学), geotropism (走地性)
ger(i/o)- (old age;老年)	geriatrics (老年医学), gerocomia (老人看護/衛生)
geront(o)- (old man;老齡)	gerontopia (老眼), gerantophilia (老人愛)
gloss(i/o)- (tongue;舌)	glossitis (舌炎), glossoptosis (舌垂下)
gluc(o)- (sweetness;甘さ)	glucohemia (血糖), glucogenesis (糖新生)
glyco- (sweet;甘い)	glycogen (糖原), glycogenolysis (糖原分解)
gon- (seed;種)	gonad (生殖腺), gonadotroph (性腺刺激細胞)
gon(i/y)- (knee;膝)	gonitis (膝関節), gonycrotesis (外反膝)
gyn(e/o/ec)- (woman;女性)	gynander (半陰陽者), gynecomastia (女性化乳房)
gyr- (ring, circle;円形)	gyrospasm (回転痙攣), gyrometer (脳回測定器)

H

Hem(o/at)- (blood;血)	hemocytometer (血球計), hematemesis (吐血)
hemi- (half;半分/片)	hemiambyopia (片側弱視), hemiplegia (半側麻痺)
hepat(o)- (liver;肝臟)	hepatargia (肝機能不全), hepatocirrhosis (肝硬変)
heter(o)- (other/different;他の)	heterauxesis (不均衡発達), heterogeneity (不均質性)
hex- (six;六)	hexadactyly (6指症) hexaploid (6倍体)
hidr(o)- (sweat;汗)	hidradenitis (汗腺炎), hidrocystomatosis (汗腺囊腫症)
hipp(o)- (horse;馬)	hippocampus (海馬), hippolith (馬胃石)
hist(io/o)- (web/tissue;組織)	histiocytosis (組織球症), histodialysis (組織崩壊)

hom(eo/oio)- (like;同 / 一定)

homo- (same;同一)

hyalo- (glass;ガラス)

hydr(o)- (water;水)

hyp(o)- (under;下)

hyper- (above;上方 / 過剰 / 超)

hypn(o)- (sleep;睡眠)

hyster- (womb)

I

Idio- (own/peculiar;自家 / 特殊)

is(o)- (equal;同様 / 同等)

K

Kerat(o)- (horn/cornea;角膜 / 角化) **keratotin** (角質), **keratohema** (角膜出血)

kin(e/o)- (to move;運動)

L

Lapar- (flank):

leuco-/leuko- (white;白)

lip(a/i/o)- (fat;脂肪 / 脂質)

lith(o)- (stone;石)

ly(s)o- (dissolve;溶解)

M

Macro- (large/long;巨大 / 長い)

malac(o)- (soft;軟)

mani- (mental):

mega(lo)- (big/great;大 / 巨大)

melan(o)- (black):

meso- (middle;中 / 中間)

meta- (after/beyond/over;後 / 変)

micro- (small;小 / 微細)

m(e)io- (smaller;小 / 縮)

mito- (thread;糸 / 糸状)

morpho- (form;形)

myc(et/o)- (fungus;真菌)

myo- (muscle;筋)

N

Narco- (numbness;昏迷)

homeostasis (恒常性), **homoiotherm** (恒温動物)

homodromous (同一方向性), **homospore** (同形胞子)

hyalomere (透明質), **hyalosis** (硝子体変性)

hydraulics (水力学), **hydrohepatosis** (肝水腫)

hypacidemia (低酸血症), **hypokinesia** (運動低下症)

hyperaphia (触覚過敏), **hyperventilation** (過換気)

hypnagogue (催眠性), **hypnobatia** (夢中遊行症)

hysteria (ヒステリー), **hysteroptosis** (子宮下垂症)

idiopathy (特発性疾患), **idiosyncrasy** (固有性質)

isotope (同位元素), **isoelectric** (等電の)

laparotomy (開腹術), **laparogastroscopy** (腹式胃鏡検査法)

leucocytosis (白血球増多症), **leukocyte** (白血球)

lipase (脂肪分解酵素), **lipid** (脂肪), **lipopenia** (脂肪欠乏症)

lithiasis (結石症), **lithonephritis** (結石腎炎)

lyophilic (親液性), **lyso-genecity** (溶原性)

macrencephalia (巨大脳髓症), **macrolabia** (巨大口唇症)

malacosarcosis (筋軟化症), **malacosteon** (骨軟化)

maniac (躁病患者), **manic-depression** (躁うつ病)

megacardia (心臓肥大), **megalochiria** (巨大手)

melaninism (メラニン沈着), **melanoma** (黒色腫)

mesocephalon (中脳), **mesocolon** (結腸間膜)

metachromia (異染性), **metamorphosis** (変化 / 変態)

microammeter (微電流計), **microbe** (微生物)

meiosis (減数分裂), **miopragia** (機能減退)

mitosis (有糸分裂), **mitochondria** (糸粒体)

morphology (形態学), **morphosis** (形態形成)

mycetismus (キノコ中毒), **mycoplasma** (マイコプラズマ)

myoatrophy (筋萎縮), **myofibrosis** (筋線維症)

narcosis (麻醉 / 昏睡), **narcotic** (麻薬 / 麻醉薬)

neph- (kidney):

neur(al/o)- (nerve; 神経)

nos- (disease):

O

Odont- (tooth):

olig(o)- (little/few; 少ない/乏しい)

onco- (bulb/hook; 腫瘍/ひげ状)

oo- (egg; 卵子)

opt(o)- (seen/vision; 視力/視覚)

oro-/orrh- (serum; 臓器/器官)

ortho- (straight; まっすぐ/正常)

osch(e)- (scrotum; 陰囊)

osm(o)- (smell; 嗅)

osm(o)- (impulse; 衝動/浸透)

oste(o)- (bone; 骨)

oto- (ear; 耳)

ox(y)- (keen; 鋭/すっぱい)

P

Pale(o)- (old; 古/旧)

pali(n)- (again; 反復)

pan- (all; 全)

pant(o)- (all; 全て/全部)

para- (to/at/from side; 副/接近)

patho- (disease; 疾患)

ped(o)- (child/foot; 小児/足)

peri- (around; 周囲)

phag(o)- (eat; 食/消化)

pharmaco- (medicine; 薬品/薬剤)

phleb(o)- (vein; 静脈)

phon(o)- (voice; 声)

phot(o)- (light; 光)

phyco- (seaweed; 海藻)

phyt(o)- (plant; 植物)

plasm(o)- (anything formed; 構成物) **plasma** (血漿), **plasmorrhexis** (赤血球崩壊)

ple(i)o- (more; 増加/過多) **pleiochloruria** (過塩素多尿症), **pleonexia** (食欲症)

peur(o)- (rib/side; 胸膜/側)

nephritis (腎炎), **nephrotoxicity** (腎毒性)

neuralgia (神経痛), **neurodegeneration** (神経変性)

nosocomial (病院の; 病院に発生する), **nosogeny** (病因),

odontolith (歯石), **odontogenic** (菌性の)

oligakisuria (奇尿症), **oligosialia** (唾液過少症)

oncology (腫瘍学), **oncotrophic** (腫瘍細胞親和性)

oocyte (卵母細胞), **oogamy** (卵接合)

optics (光学), **optomyometer** (眼筋力測定器)

oroimmunity (受身免疫), **ororhombingitis** (漿膜炎)

orthobiosis (正常生活), **orthodontics** (矯正歯科学)

oscheitis (陰囊炎), **oschehydrocele** (陰囊水瘤)

osmology (嗅覚学), **osmodysphoria** (臭気嫌悪症)

osmolarity (重量モル浸透圧濃度), **osmosis** (浸透現象)

oste anaphysis (骨再生), **osteochondrosis** (骨軟骨症)

otophone (補聴器), **otopyorrhea** (膿性耳漏)

oxytocia (急速分娩), **oxyosmia** (嗅覚超過敏感症)

paleencephalon (古脳), **paleocortex** (古皮質)

palicinesia (病的反復運動), **palinmnesia** (過去追想)

panarthritis (汎関節炎), **panatrophy** (全身萎縮)

pantropic (汎親和性), **pantogami** (乱交)

parablepsia (錯視), **parasympathetic** (副交感神経の)

pathopoesis (病因), **pathology** (病理学)

pediatrics (小児科学), **pedometer** (歩数計)

periaxial (軸周囲の), **percolation** (滲出)

phagedena (侵食潰瘍), **phagocytosis** (食菌作用/捕食現象)

pharmacop(o)eia (薬局法), **pharmacopedia** (薬剤学)

phlebitis (静脈炎), **phlebothrombosis** (静脈血栓症)

phonacoscopy (打診法), **phonology** (音声学)

photesthesia (光識), **photolysis** (光分解)

phycology (海藻学), **phycomycetes** (海藻類)

phytagglutinin (植物凝集素), **phytochemistry** (植物化学)

plasm(o)- (anything formed; 構成物) **plasma** (血漿), **plasmorrhexis** (赤血球崩壊)

ple(i)o- (more; 増加/過多) **pleiochloruria** (過塩素多尿症), **pleonexia** (食欲症)

peur(o)- (rib/side; 胸膜/側)

pleura (胸膜), **pleurobronchitis** (胸膜気管支炎)

pne(o)- (breathe;呼吸する) **pnegram** (呼吸量図), **pneometer** (呼吸量計)
pneum(o)- (breath/lung;呼吸/肺) **pneumarthrosis** (関節気腫), **pneumochysis** (肺水腫)
pneumat(o)- (air/breath;空気/呼吸) **pneumatthema** (空気塞栓), **pneumatois** (気腫)
poly- (many;多数/多発) **polyarthritis** (多発性関節炎), **polycythemia** (赤血球増加症)
proto- (first;最初) **prototype** (原型), **provitamin** (ビタミンの前駆体)
pseudo- (false;偽/擬) **psedocoma** (偽昏睡), **pseudopod** (偽足/仮足)
psycho- (mind/mental;心/精神) **psychology** (心理学), **psychosis** (精神病)
psychro- (cold;寒冷) **psychrolusia** (冷浴), **psychrophile** (好冷菌)
pyel(o)- (pelvis;腎盂) **pyelitis** (腎盂炎), **pyeloureterolysis** (腎盂尿管剝離術)
pykn(o)- (thick/frequent;肥満/濃密) **pyknemia** (血液濃縮), **pyknometer** (比重測定法)
pyo- (pus;膿) **pyochezia** (膿便), **pyonephritis** (化膿性腎炎)
pyr(o)- (heat/fire;熱/火) **pyrexia** (発熱), **pyrolagnia** (火炎嗜好症)

S

Sapro- (rotten;腐敗) **saprobe** (腐生菌), **saprozoite** (腐生虫/動物)
sarc- (flesh) **sarcoma** (肉腫), **sarcoplast** (筋形成細胞)
schist(o)- (split/cleft;分裂/分割) **schistasis** (披裂症), **schitoprosopia** (顔面裂)
schiz(o)- (divide;分割) **schizencephaly** (裂頭), **schizophrenia** (精神分裂病)
scler(o)- (hard;硬い) **sclerema** (強皮症), **sclerosis** (硬化症)
sider(o)- (iron;鉄) **sediophilous** (鉄親和性の), **siderosis** (鉄沈着症)
sito- (food;食物) **sitomania** (大食), **sitotherapy** (食事療法)
somat(o)- (body;身体) **somatasthenia** (体性感覚), **somatotherapy** (食事療法)
sperm(at)o- (seed;種) **spermatochesis** (無射精), **spermospore** (精子胞)
spher(o)- (ball/globe;球形) **spheresthesia** (球覚), **spherometer** (球面計)
sphygm(o)- (pluse;脈拍) **sphygmie** (脈拍の), **sphygmography** (脈波記録法)
spir(o)- (coil;ラセン) **spiral** (らせん状), **spirotrichia** (ラセン毛類)
spondyl(o)- (vertebra;脊椎/椎骨) **spondylitis** (脊椎炎), **spondyldymus** (脊椎結合体)
spongi(o)- (sponge;海綿) **spongitis** (海綿体炎), **spongocyte** (海綿細胞)
spor(o)- (seed;孢子) **sporicide** (殺孢子薬), **sporozoea** (孢子虫類)
staphyl(o)- (grapes;ぶどうの房) **staphlococcus** (ぶどう球菌), **staphloma** (ぶどう腫)
stear(o)-/steat(o)- (fat;脂肪) **stearrhea** (脂肪下痢), **steatonecrosis** (脂肪壊死)
sten(o)- (narrow;狭窄) **stent** (管状支持装置), **stenosis** (狭窄症)
stereo- (solid;立体) **stereochemistry** (立体化学), **stereoisomer** (立体異性物)
sym-/syn- (together;共) **symbion** (共生生物), **synochondrosis** (軟骨結合)

T

Tacho- (speed;速さ) **tachogram** (速度曲線), **tachography** (血流速度計測法)
tachy- (swift;急速) **tachyauexis** (一部急速成長), **tachycardia** (頻脈)

tele- (far off;離れた)	telecinesis (遠隔運動), telethesia (読心術)
tele(o)- (end;終末)	telencephalon (終脳), telomere (終末体)
tera(to)- (monster;奇形)	teras (奇形), teratology (奇形学)
tetra- (four;四)	tetraacetate (四酢酸塩), tetraparesis (四肢不全麻痺)
therm(o)- (heat;熱)	thermhyperesthesia (温覚過敏), thermolabile (熱不安定の)
thromb(o)- (clot;血栓)	thrombapheresis (血小板分離交換法), thrombocyte (血小板)
thym(o)- (thymus;胸腺)	thymitis (胸腺炎), thymometastasis (胸腺転移)
thy(r)o- (shield;甲状腺)	thyremphraxis (甲状腺機能停止), thyromegaly (甲状腺腫大)
toco- (childbirth;出産/分娩)	tocography (陣痛記録法), tocology (産科学)
topo- (place;場所)	toponarcosis (局所麻酔), topochemistry (局所化学)
toxic(o)- (arrow/poison;毒性)	toxicity (毒性), toxicosis (中毒症)
tox(o)- (poison;毒素)	toxemia (毒血症), toxolysin (抗毒素)
trachel(o)- (neck;頸部)	trachelagra (頸部痛風), trachelocystitis (膀胱頸炎)
tri- (three;3 /三倍)	trichromic (三色の), tribranchia (三腕奇形)
troph(o)- (nutrition;栄養)	trophism (栄養機能/価値), trophoneurosis (栄養神経症)

U

Ulo- (scar;傷跡)	ulocace (歯肉潰瘍), ulorrhagia (歯肉出血)
uric(o)- (urine;尿)	uricemia (尿酸血症), uricosuria (尿酸尿)
ur(o)-/uron(o)- (urine;尿)	urocele (陰囊尿腫), urinogenital (排尿生殖器の)

X

Xanth(o)- (yellow;黄色)	xanthism (赤色白色皮症), xanthocyanopsia (赤緑色盲)
xeno- (foreign;外来/異物)	xenograft (異種組織移植), xenophobia (他人恐怖症)
xero- (dry;乾燥)	xeroderma (乾皮症), xerostomia (口内乾燥症)
xiph(o) - (sword;劍状突起)	xiphisternum (劍状突起), xiphodymus (劍状突起結合体)

Z

Zoo- (animal;動物)	zoogeny (動物生殖), zoophilous (動物愛好の)
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Examples of scientific writing with Greek prefixes

- 1) **Acromegaly**¹ is caused by iodine deficiency. 1) 先端巨人症
- 2) Damage of **peripheral** nerves may induce **algnesia**² of the extremities.
2) 痛覚過敏
- 3) **Allergy** tests reveal an immunoresponse to a particular allergen.
- 4) **Arteriosclerosis**³ affects men more than women in an overall ratio of 4:1.
3) 動脈硬化症
- 5) **Ede**ma is the accumulation of **interstitial fluid**⁴ in abnormally large amounts.
4) 間質液
- 6) **Peristalsis**⁵ in the **esophagus**⁶ propels masticated food into the stomach.
5) 蠕動運動;6) 食道
- 7) Naficillin or oxacillin (1.5 g every 4 hr for 4 – 6 weeks) is the preferred therapy for methacillin-resistant **Staphylococcus aureus**⁷ in humans. 7) 黄色ぶどう球菌

Appendix II-2: Useful Latin prefixes

A

A- (without; 無 / 不 / 非):	asymmetry (非相称), achloride (非塩酸塩)
ab- (away from; ...から離れる):	abnormal (異常の), aberration (異常、収差)
acet- (vinegar; 酢酸)	acetometer (酢酸計), acetolysis (酸化分解)
acid- (sour; 酸っぱい / 酸性)	acidosis (酸性血症), acidimeter (酸滴定計)
act- (do/act/drive; 作用)	activate (活性化する)
ad- (to/toward; の方へ / 付加)	adhesion (接着、付着), adjuvant (佐剤、補助剤)
aden- (gland, 腺)	adenoma (腺腫), adenodynia (腺痛)
adip- (fat/fatty; 脂肪 / 脂肪の)	adipolysis (脂肪分解), adipopexia (脂肪固定)
aer- (air, gas; 空気 / 気体)	aerobic (有酸素性、有機性), aerosol (エアゾル)
al(a/i)- (wing; 翼)	aliform (翼状の), alate (翼を持った)
alb- (white; 白 / 白色)	albino (白子), albocinereous (灰白質)
ambi- (both, both side; 双 / 両側)	ambivalent (両価 / 両方向性の), ambidextrous (両手利きの)
an- (without; 無 / 不 / 非):	anhydride (無水物), anorexia (食欲不振、無食欲)
articu- (joint; 関節)	articulator (交合器), articulation (関節)
auri- (ear; 耳)	auricle (耳介), auriculoventricular (心房室の)
auro- (gold; 金)	aurotherapy (金剤治療法), aurum (金)

B

Bacill(o)- (little rod; 桿)	bacillus (桿菌), bacillosis (桿菌感染症)
bil- (bilis; 胆汁):	biliary (胆汁の), biluria (胆汁尿症)
botuli (botulus: sausage):	botuliform (ソーセージ型の)
bucc- (cheek; 頬)	buccocervical (頬頸部の), buccoclusal (頬側交合面の)

C

Calc- (stone/limestone; 石)	calcemia (カルシウム血症), calcification (石灰化)
calor- (heat; 熱)	calorimeter (熱量計), caloripuncture (熱穿刺)
carbo(n)- (coal; 炭)	carbonuria (炭素尿症), carbohydrates (炭水化物)
caud- (tail; 尾)	caudate (尾状の), caudectomy (尾切除)
cav- (hollow; 空洞)	cava (大動脈), cavitation (空洞形成)
cec- (blind; 盲)	cecum (盲腸), cecopaxy (盲腸固定術)
cell- (room/cell; 小房 / 細胞)	cellicolous (細胞内在の), cellulitis (小胞炎 / 蜂巣炎)
cerebr- (brain):	cerebrospinal (脳脊髄の)
cervi- (neck; 頸)	cervicovaginitis (子宮頸膺炎), cervicofacial (頸部顔面の)
circum- (around; 周囲)	circumcision (輪切術), circumflex (弓状湾曲)
co(m/n)- (with/together; 補助 / 共に)	coenzyme (補酵素), confluent (合流の / 融合の)

contra- (counter; 反対の/逆の) **contra**indication (配合禁忌), **contralateral** (対側性)
cortico- (bark; 皮/皮質) **cortico**affarent (皮質求心性), **corticospinal** (皮質脊髄の)
cost- (rib; 肋骨) **costalgia** (肋骨痛), **costicartilage** (肋軟骨)
crani- (skull; 頭蓋) **cranioplasty** (頭蓋骨障害), **cranium** (頭蓋)
cut- (skin): **cutaneous** (皮膚の), **cuticularization** (表皮化)

D

De- (down from/separate) **de**celeration (減速), **decerebrellation** (小脳除去)
dent- (tooth; 歯) **dentition** (歯列/生歯/歯群), **denture** (義歯)
dextr(o)-(right hand) **dextrality** (右利き), **dextrocardia** (右心症)
digit- (finger/toe; 指) **digitations** (指状突起), **digitopantar** (足指底)
dis- (apart; 逆転/分離) **dis**cordance (不一致), **dis**location (脱臼/転位)
duoden(o) (twelve) **duodenum** (十二指腸), **duodenohepatic** (十二指腸肝臓の)
dynamo- (power; 力) **dynamophore** (エネルギー源), **dynamogeny** (動力発生)

E

E- (away from; 外へ/離れれ) **ecto**cytic (細胞外の), **ecaudate** (無尾の)
equi- (equal; 等) **equilibrium** (平衡状態), **equipotent** (等力の)
ex (out/away from; 外へ/外の) **ex**cipient (付形剤/賦形剤), **ex**cision (切除術)
extra- (outside/beyond; 外側/越えて) **extra**systole (期外収縮), **extra**vasation (血管外遊出)

F

Febr- (fever; 熱): **febrifuge** (解熱剤), **febrile** (有熱性)
ferr- (iron; 鉄) **ferrous** (鉄(II)の/第一鉄の), **ferric** (鉄(III)の/第二鉄の)
fibr- (fiber; 線維/繊維) **fibrin** (線維素), **fibroblast** (線維芽細胞)
fil- (thread; 糸) **filamentous** (線状の/糸状の), **filaria** (糸状虫)
fiss- (split; 分裂) **fission** (分裂/細胞分裂), **fissula** (小裂), **fissure** (裂溝)
flav(o)- (yellow; 黄色) **flav**escent (淡黄色), **flavonol** (淡黄色結晶性フラバノイド)
funct- (serve; の用をする/供する) **function** (機能), **functio laesa** (機能喪失)

G

Gingiv(o)- (gum; 歯肉) **gingivo**ectomy (歯肉切除術), **gingivo**plasty (歯肉形成術)

I

Ili- (lower abdomen): **iliosacral** (腸骨仙骨の), **ilio**coccygeal (腸骨尾骨の)
immun(o)- (immune; 免疫) **immunization** (免疫法), **immuno**reaction (免疫反応)
im/in- (in/into; 内/下) **implant** (移植組織), **in**fusion (注入法/浸出)
im/in- (not; 非/不) **im**permeable (不透過性), **in**compatibility (不適合性)
infra- (beneath; 下): **infraorbital** (眼窩下), **infra**sonic (低音波の/超低周波の)
intr(a/o)- (into/inside; 中/内部) **intra**venous (静脈内), **intro**vert (内向者)

J

Juxta- (near/close by; 近 / 傍) **juxtaglomerular** (傍糸球体), **juxta**vesical (傍膀胱)

L

Lact(a/o)- (milk; 乳): **lactometer** (乳脂計), **lacta**cidemia (乳酸血症)

laryng(o)- (larynx; 咽頭) **laryngo**centesis (咽頭穿刺), **laryngo**stenosis (咽頭狭窄)

lev(o)- (left; 左) **levo**rotation (左旋), **levo**torsion (左方回旋)

lymph- (water; 水) **lymph**adenopathy (リンパ節腫症), **lymph**oma (リンパ腫)

M

Mal- (bad; 不良) **mal**absorption (吸収不良), **mal**development (発育不良)

muc(i/o)- (mucus; 粘液) **mucil**age (粘滑剤), **mucos**itis (粘膜炎), **mucosa** (粘膜)

multi- (many; 多数 / 多量) **multi**centricity (多中心性), **multi**parous (経産の)

N

Noci- (to injure; 有害) **no**ciption (侵害受容), **no**ciceptor (侵害受容体)

norm(o)- (rule; 正常) **normo**tension (正常圧 / 張力), **norma**lization (正常化)

nucle(o)- (nucleus; 核) **nucleus** (核), **nucleo**tide (ヌクレオチド)

nutri(o)- (nourish) **nutri**tion (栄養), **nutri**lite (栄養素)

O

Oro- (mouth; 口) **oro**facial (口顔の), **oro**pharynx (口腔咽頭)

oscillo- (swing; 振動) **oscillo**metry (オッシロ測定法), **oscillo**psia (動揺視)

osse(o)- (bony; 骨の) **osse**ocartilaginous (骨軟化の), **osse**ous (骨性の)

ov(i/o)- (egg; 卵) **ovo**ulation (排卵), **ovi**parous (卵生の), **ovo**cyte (卵母細胞)

ox(i/y)- (oxygen; 酸素) **oxi**dation (酸化), **oxy**philic (好酸性の)

P

Palat(o)- (palate; 口蓋) **palat**itis (口蓋炎), **palat**omyography (口蓋筋運動描写)

pont(o)- (bridge): **ponticulus** (小橋), **pont**obulbar (橋延髄の)

par- (bear/give birth): **par**ous (経産婦の), **par**turition (出産、分娩)

per- (through; 時間 / 空間を通して) **per**cussion (打診), **per**colation (滲出)

per- (over; 「化学用語」過) **per**acetate (過酢酸塩), **per**chloride (過塩化物)

post- (after/behind; 後 / 後方) **post**prandial (食後の), **post**abortal (流産後)

pr(a)e- (before; 前) **pra**eputium (包皮), **pre**load (前負荷)

pro- (before; 先 / 前) **pro**drug (薬物の前駆体), **pro**estrus (発情前期)

press(o)- (press): **press**oreceptor (圧受容体), **press**osensitive (圧感受性の)

Q

Quadr(i)- (four; 四 / 4 倍) **quadr**iplegia (四肢麻痺), **quadr**uplet (四胎児)

quasi- (as if; 類似の / 準) **quasi**dominance (偽優勢), **quasi**diploid (準二倍体)

R

Radio- (ray; 半径 / 放射能) **radio**carcinogenesis (放射線発癌), **radio**graphy (X線写真)

re- (again/back; 再 / 後 / 反対) **re**circulation (再循環), **re**construction (再構成)

retr(o)- (behind/backward; 後 / 逆方) **re**traction (後退), **re**trogression (退化)

S

Saccha(o)- (sugar; 糖) **sac**charolytic (糖分解性), **sac**charometer (検糖計)

semi- (half; 半 / 準) **sem**icanal (半管), **semi**permeable (半透性の)

sero- (serum; 血清) **sero**reaction (血清反応), **pyro**lagnia (火炎嗜好症)

spas- (draw/pull): **sp**asm (発作; 痙攣), **sp**asmophile (易痙攣性)

spir(o)- (breathe; 息 / 呼吸) **spir**adenoma (汗腺腫), **spiro**graph (呼吸運動記録気)

sub- (under; 下 / 亜) **sub**cutaneous (皮下), **sub**acute (亜急性)

super- (above; 上 / 過度) **super**ficial (表面の), **super**involution (過度退縮)

T

Ter- (three/thrice; 三 / 三重) **ter**tiary (三次 / 三級), **ter** in die (t.i.d. = 1日3回)

test- (testicle) **test**itis (精巣炎; 睾丸炎), **test**itoxicosis (精巣中毒症)

trache(o)- (windpipe; 気管) **trache**itis (気管炎), **trache**ole (気管小枝)

trans- (through; 通して) **trans**calent (輻射熱可通), **trans**dermal (経皮性の)

tract- (draw) **tract**ion (牽引), **tract**omy (切路術)

tuber- (swelling/nodule) **tuber**culosis (結核症), **tuber**culoderm (皮膚結核性病変)

U

Ultra- (beyond; 過剰 / 超過) **ultra**filtrate (限外濾過液), **ultra**sonics (超音波学)

uni- (one; 1) **uni**lateral (片側性の), **unit**ary (一単位の)

urin(o)- (urine; 尿) **urin**emia (尿毒素), **urin**ology (泌尿器科)

V

Vas(o)- (vessel; 管 / 道) **vas**cularity (血管分布像), **vaso**contriction (血管収縮)

vit- (life) **vit**amin (ビタミン), **vit**aminogenic (ビタミン起因の)

vivi- (alive; 生命 / 生活) **vivi**parous (胎生の), **vivi**section (生体解剖)

Examples of scientific terms with *Latin prefixes*:

- 1) Iron **deficiency**¹ is the primary cause of anemia. 1) 欠乏症
- 2) Patients with **cellular immun**odeficiency encompass a large and rather heterogenous group that includes those with acquired **immun**odeficiency syndrome (AIDS).
- 3) **Postpartum depressive disorders**² usually occur 2 weeks to 6 months after birth. 2) 産後抑うつ性障害

Appendix II-3: Useful Greek/Latin suffixes

-a...

- agra* (G:catching/seizure;急性の疼痛) pella*agra* (ナイアシン欠乏による皮膚炎/口腔炎)
-*alg(es)ia* (G:pain;疼痛) hyper*algesia* (痛覚過敏), neur*algia* (神経痛)
-*ase* (酵素の接尾語) hydrol*ase* (分解酵素), synth*ase* (合成酵素)

-b...

- blast* (germ;芽細胞) hematob*last* (赤芽球), osteob*last* (造骨細胞)

-C...

- chysis* (G:effusion;輸送) metach*chysis* (輸血)
-*cele* (G:tumor/cavity;腫瘍/洞) hepato*cele* (肝ヘルニア), gastro*cele* (胃ヘルニア)
-*cid(e)* (L:cut/kill;殺す) insecti*cide* (殺虫剤), sui*cide* (自殺)
-*cipliant* (L:take/receive;持つ/受ける) re*cipliant* (赤芽球), exci*pliant* (賦形剤)
-*coccus* (G:ball;球/球菌) staphylo*coccus* (ぶとう球菌), diplo*coccus* (双球菌)
-*cyte* (G:cell;細胞) glioc*yte* (神経膠細胞), mono*cyte* (単核細胞)

-d...

- duct* (L:lead/conduct;管/道) ovi*duct* (輸卵管), via*duct* (高架橋)
-*ducent* (L:lead/conduct;管/道) ab*ducent* (外転の)

-h...

- (h)*emia* (G:in blood;血中に存在する) leiph*emia* (貧血), lipo*hemia* (脂肪血症)

-f...

- facient* (L:to do/to make;~を起こす) cale*facient* (熱感を起こす)
-*fact* (L:make;引き起こす) arti*fact* (人工の物)
-*ferent* (L:bear;生産/生成) e*fferent* (遠心性の), a*fferent* (求心性)
-*form* (L:form;形/様/状) fusiform (紡錘状), uni*form*t (単一形)
-*fugal* (L:flight;駆逐) centri*fugal* (遠心性), hepato*fugal* (離肝性)
-*fuge* (L:to put to flight;遠くへやう) centri*fuge* (遠心機), re*fuge* (避難)

-g...

- glia* (G:glue;神経膠) neuro*glia* (神経膠)
-*gen* (G:produce;動因) anti*gen* (抗原), pyro*gen* (発熱因子/発熱物質)
-*genous* (G:initiation/cause;原因) endo*genous* (内因性の), exo*genous* (外因性の)
-*gram* (letter/drawing;記録/曲線) cardio*gram* (心拍動曲線), dia*gram* (図形)
-*graph(y)* (record;記録/造影) osteomyelo*graph* (骨髄造影)

-i...

- ism* (condition/theory;条件/理論) meta*bolism* (代謝), meta*morphism* (変化作用)
-*itis* (inflammation;炎症) hepat*itis* (肝炎), dermat*itis* (皮膚炎)

-ize (G:動詞化の形)	metabo lize (代謝する), meta morphosize (変態する)
-j...	
-ject (L:throw;投げる)	in ject (注射する)
-l...	
-lith (G:stone;石)	oto lith (平衡石), nephro lith (腎結石)
-logy (G:study;学)	immun ology (免疫学), pharmaco logy (薬理学)
-lysis (dissolution;分解/破壊/崩壊)	electro lysis (電気分解), cyto lysis (細胞崩壊)
-lyte/-lyzate (from lysis;分解産物)	electro lyte (電解質)
-m...	
-meter (measure;測定/測定器)	homoxo meter (血液酸素量測定計)
-metry (measure;測定/測定法)	ultrasono metry (超音波計測)
-mitten (send;送る)	inter mitten (間欠性)
-morphous (form;型/形)	a morphous (無定形の), meta morphous (変態の)
-morphosis (G:shaping;形成)	mero morphosis (部分的に不完全再生)
-myces (fungus;真菌/かび)	Saccaro myces (酵母)
-n...	
-necrosis (G:deadness;壊死)	osteone crosis (骨壊死), radio necrosis (放射性壊死)
-nosis (G:disease;症/疾患)	cholesteri nosis (コレステリン沈着症)
-o...	
-ode (G:road/path/form;道/形)	catho de (陰極), ano de (陽極); nemato de (線虫)
-odynia (G:pain;疼痛)	om odynia (肩痛), metro dynia (子宮痛)
-oid (L:form;形/様似物)	lymph oid (リンパ球様の), oestomato id (骨腫様の)
-oma (L:tumor;腫瘍)	esteolipo ma (骨脂肪腫), hepat oma (肝腫瘍)
-ose (G:carbohydrates;炭水化物)	hex ose (六炭糖), gluc ose (ぶどう糖)
-p...	
-pathy (G:disease;疾患)	idio pathy (特発性疾患), neuro pathy (神経障害)
-pellent (L:drive)	re pellent (忌避剤)
-penia (G:poevrty;欠損/減少)	lipo penia (脂肪欠乏), erythro penia (赤血球減少症)
-pex(ia/y) (G:fixation;固定)	lipo pexia (脂肪固定), omento pexy (網固定術)
-phage (G:to eat;食べる)	macro phage (大食細胞)
-phil(e) (loving;好性/親和性)	acido phile (好酸性), hydro phil (親水性の)
-phobia (fear;嫌性/疎性/恐怖)	hydro phobia (恐水性), agoro phobia (広場恐怖)
-phore (bearing;保有)	iono phore (イオン保有体)
-phoresis (borne;泳動)	electro phoresis (電気泳動)
-phyll (G:pigment;色素)	chloro phyll (葉緑素), xantho phyll (葉黄素)
-physis (G:to generate;増殖/肥大)	adenohypo physis (腺下垂体)

- <i>phyte</i> (plant;植物)	auto <i>phyte</i> (自家栄養植物)
- <i>plasm(a)</i> (G:formed;形質)	cyto <i>plasm</i> (細胞質)
- <i>plasia</i> (G:molding;発達/形成)	hemihydro <i>plasia</i> (片側性形成不全)
- <i>plast</i> (G:formed;原細胞)	proto <i>plast</i> (原形質体), chloro <i>plast</i> (葉緑体)
- <i>plasty</i> (G:form/shape;形成)	colpo <i>plasty</i> (膣形成術)
- <i>ploid</i> (G:set;染色体セットの増殖程度)	hap <i>ploid</i> (一倍体), di <i>ploid</i> (二倍体)
- <i>poiesis</i> (G:to make;形成/生成)	hema <i>poiesis</i> (造血), cholan <i>poiesis</i> (胆汁生成)
- <i>psychosis</i> (G:mind healing;精神病)	gerio <i>psychosis</i> (老年期精神病)
- <i>ptosis</i> (G:faling;脱/垂下)	metro <i>ptosis</i> (子宮脱), cholecysto <i>ptosis</i> (胆嚢下垂)
- <i>pyosis</i> (G:suppuration;化膿)	dacryo <i>pyosis</i> (涙器化膿症)
-r...	
- <i>rrhag(e/ia)</i> (G:burst;破裂/過剰)	hemo <i>rrhage</i> (出血), oopho <i>rrhagia</i> (卵巣過剰出血)
- <i>rrhaphy</i> (G:suture;縫合)	orchio <i>rrhaphy</i> (精巣固定術)
- <i>rrhea</i> (G:flow;流量)	leuko <i>rrhea</i> (血帯下), hema <i>torrrhea</i> (失血)
- <i>rrhexis</i> (G:burst;破裂)	emphalo <i>rrhexis</i> (臍破裂), arterio <i>rrhexis</i> (動脈破裂)
-S...	
- <i>schisis</i> (G:fissure;破れ)	merorachi <i>schisis</i> (部分的に脊椎破裂)
- <i>scope</i> (G:view;検査)	micro <i>scope</i> (顕微鏡)
- <i>scopy</i> (G:viewing;検査法)	endo <i>scopy</i> (内視鏡検査法)
- <i>si(a/s)</i> (G:condition;状態/症)	osteocamp <i>sia</i> (骨彎曲症), entosto <i>sis</i> (骨内膜増殖症)
- <i>some</i> (G:body;体)	chromo <i>some</i> (色素体), hetero <i>some</i> (性染色体)
- <i>solvent</i> (L:loose/dissolve;解ける)	dis <i>solvent</i> (溶媒/溶解剤)
- <i>stomy</i> (G:opening/mouth;開口部)	cholecysto <i>stomy</i> (胆嚢造フィステル形成術)
-t...	
- <i>taxis</i> (G:rank and file;向性/走行)	chemo <i>taxis</i> (化学走行)
- <i>troph(y/ia)</i> (G:nutrition;栄養)	hetero <i>trophy</i> (栄養異常), ologo <i>trophia</i> (貧栄養)
- <i>tropic</i> (G:turning;向性の)	hydro <i>tropic</i> (水向性の), neuro <i>tropic</i> (神経向性の)
- <i>tropism</i> (G:tropic;向性)	hydro <i>tropism</i> (水向性), neuro <i>tropism</i> (神経向性)
- <i>tomy</i> (G: cutting;切断/切開術)	cholecys <i>tomy</i> (胆嚢切開術)
-u...	
- <i>uria</i> (G:urine;尿)	hema <i>turia</i> (血尿), lipid <i>uria</i> (脂肪尿)

Examples of scientific terms with *Latin/Greek* suffixes

- 1) Iron **deficiency** is the most cause of anemia¹. 1)貧血
- 2) Multiple sclerosis², a common neurologic **disorder**³ of unknown cause, inflicts the greatest **incidence**⁴ in young adults. 2)多発性硬化症; 3)障害/疾患; 4)出現率/頻度
- 3) The macrophage-monocyte relationship in *acquired immun**deficiency** syndrome* (AIDS) remains unresolved.
- 4) Arteriosclerosis⁵ affects men more than women in an overall ratio of 4:1. 5)動脈硬化症
- 5) Sperms of ferns⁶ and mosses⁷ swim towards substances released by the ovum⁸ via chemotaxis⁹. 6)シダ類; 7)コケ類/蘚類; 8)卵(複 : ova); 9)化学走性
- 6) Chlorophylls¹⁰ absorb mainly red and blue-violet light, reflecting green light and therefore giving plants their characteristic green color, unless masked by other pigments. 10)葉緑素
- 7) Some cases of Meniere's disease are associated with high blood triglycerides, cholesterol and abnormalities in blood sugar regulation, such as diabetes and hypoglycemia.¹¹ 11)低血糖
- 8) Data collected from people with allergic rhinitis¹² (stuffy nose) and asthma show that these people are more likely to be snorers than are non-allergic people. 12)アレルギー性鼻炎

Appendix II

Useful vocabulary for clinical/experimental studies:

●臓器に関する基本的な用語

Cell	cellular (cyto-) (細胞の)
Tissue	tissular (histo-) (組織の)
Bain/encephalon	encephalic (encephallo-) (脳の)
Cerebrum	cerebral (cerebro-) (大脳の)
Cerebellum	cerebellar (cerebello-) (小脳の)
Hypothalamus	hypothalamic (視床下部の)
Pituitary gland/body	pituitarium/pituitary (下垂体の)
Or hypophysis	hypophysial (下垂体の)
Spinal cord	spinal (spino-) (脊髄の)
Lung	pulmonary (pulmo-) (肺の)
Trachea/windpipe	tracheal [trachel(o)-] (気管の)
Bronchus	bronchial (broncho-) (気管支の)
Heart	cardiac/cardial (cardio-) (心臓の)
Kidney	renal (nephro-) (腎臓の)
Adrenal gland	adrenal (adreno-) (副腎の)
Adrenal cortex	adrenocortical
(adrenocortico-) (副腎皮質の)	
Adrenal medulla	adrenomedullar (adrenomedullo-) (副腎髓質の)
Liver	hepatic (hepato-/hepatico-) (肝臓の)
Pancreas	pancreatic (pancreato-) (膵臓の)
Spleen	splenic [spleen(o)-] (脾臓の)
Stomach	gastric (gastro-) (胃の)
Intestines	intestinal (entero-) (腸の)
Stomach and intestine	gastrointestinal/gastroenteric
(gastrointestino-/gastroentero-) (胃腸の)	
Duodenum	duodenal (duodeno-) (十二指腸の)
Small intestine	enteric (entero-) (小腸の)
Large intestine/colon	colic/colonic (colono-) (大腸の)
Caecum/cecum	caecal/cecal (盲腸の・盲腸の)
Rectum	rectal (recto-) (直腸の)
Appendix/vermix	appendical/appendicular (虫垂の)

Anus	anal (肛門の)
Thyroid gland	thyroidal (thyro-) (甲状腺の)
Salivary gland	salivary (唾液腺の)
Placenta	placental (placento-) (胎盤の)
Corpus luteum	luteal (luteo-) (黄体の)
Ovary	ovarium/ovarian (ovario) (卵巢の)
Testis/testicle	testicular (testiculo-) (精巣の)
Scrotum	scrotal (scroto)-(陰囊の)
Penis	penial/penile (陰茎の)
Uterus	uterine (utero-) (子宮の)
Vagina	vaginal (vagino-) (膣の)
Muscle	muscular (musculo/myo-) (筋の)

●実験動物系の用語

Man	male (雄/男性)
Woman	female (雌/女性)
Homo sapiens	human (人間の; 名詞としても使える)
Fetus	fetal (胎児の)
Embryo	embryonic (胚子の)
Newborn (新生児)	neonatal (新生児の)/(perinatal: 分娩前
後の)	
Infants (乳児)	infantile (乳児の)
pediatrics	pediatric (小児科の)
Cattle/cow/ox	bovine (ウシの)
Horse	equine (ウマの)
Pig	porcine (ブタの)
Dog	canine (イヌの)
Monkey	simian (サルの)
Rabbit	cony (ウサギの)
Cat	feline (ネコの)
Mouse/rat	murine (マウスの/ラトの)
Chicken/bird	avian (鳥の)
Frog	ranine (カエルの)
Mixed breed	mongrel (雑種の)
Mammals belong to	rodent/rodentia (げっ歯類動物)
class Eutheria such as	

mice, rats, hamster, guinea pigs,
squirrels, beavers etc (げっ歯類動物)

離乳	weaning
離乳直後の動物の子	wealing
同腹の子	littermate
一腹の子	litter
交尾する/交尾	copulate/copulation
交配する/交配	mate/mating
繁殖	reproduction
生殖(器)	genital (organ)
交差交配する/交差交配した	crossbreed/crossbred
交雑種(遺伝系統は既知)	hybrid
分娩(人と動物に使用)	delivery/parturition
分娩(動物のみ)	littering
妊娠(した妊娠/妊娠の)	pregnancy (pregnant)
妊娠期間	gestation/pregnancy period
妊娠期の	gestational
母動物	dam
母親の(人及び動物に使用)	maternal
動物の子	progeny, offspring, pup
餌/飼料	feed, diet, food, ration

●一般試験法

血管造(撮)影法	Angiography
聴打診法	Phonacoscopy
液体クロマトグラフ法	Liquid chromatography
高速液体クロマトグラフ法	High-performance liquid
chromatography	
ガスクロマトグラフ法	gas chromatography
核磁気共鳴スペクトル測定法	Nuclear magnetic resonance
spectroscopy	
吸光度測定法	Spectrophotometry
蛍光光度法	Flourophotometry
分光蛍光光度法	Spectrofluorometry
吸収分光光度法	Absorption spectrophotometry

原子吸光光度法

spectrophotometry

赤外吸収スペクトル測定法

旋光度測定法

method

薄層クロマトグラフ法

ろ紙クロマトグラフ法

流通ろ紙クロマトグラフ法

分配クロマトグラフ法

分光検査法

顕微鏡検査法

電子顕微鏡検査法

蛍光顕微鏡検査法

眼底顕微鏡検査法

免疫蛍光顕微鏡検査法

テレビ顕微鏡検査法

熱量測定法

ヘマトキシリン-エオジン染色

緑蛍光蛋白質染色

staining

寒天培地

スチューデンのティ(t)検定

Atomic adsorption

Infrared adsorption spectrometry

Optical rotation measurement

Thin-layer chromatography

Paper chromatography

Flowing filter-paper chromatography

Partition chromatography

Spectroscopy

Microscopy

Electronmicroscopy

Fluorescence microscopy

Fundus microscopy

Immunofluorescent microscopy

Television microscopy

Calorimetry

Hematoxylin-eosin staining

Green fluorescent protein (GFP)

Agar culture medium

Student's t-test (or Student t-test)

Appendix IV

「**Standard (SI) units**」は、「標準的な単位」であり、雑誌投稿する際には要注意。日本国内に使われている単位は、時には標準的な単位 (**SI**: フランス語の **Système international d'unités** から由来された) に適しない。例えば: 血糖値 (mg/dL)、血中コレステロール値 (mg/dL)、血中鉄分濃度 (mEq/L) などの検査値は日本、米国などでは慣用的な単位と記載されるが、SI 単位では、「mmol/L or mmol L⁻¹」と記載される。(例えば: 20世紀の末頃「Life Sciences」という雑誌は、血糖値は「mmol/L or mmol L⁻¹」と記載する事が条件つけられていた。)

● 臨床検査値 (Na、K、Cl) の単位変換: mEq (milli Equivalent) はミリ当量と呼ばれる単位です。当量 (Equivalent: Eq) は $1 \text{ Eq} = 1 \text{ mol} / \text{イオン価数}$ と表される。

* Na⁺イオン (Na: 原子量 23) の場合は、1 価の陽イオンなので

$$1 \text{ mEq/L} = 1 \text{ mmol/L} = 23 \text{ mg/L}$$

* Ca²⁺イオン (Ca: 原子量 40) の場合は、2 価の陽イオンなので

$$1 \text{ mEq/L} = 0.5 \text{ mmol/L} = 20 \text{ mg/L}$$

なお、mmol/L は SI 単位であり、mEq/L は慣用的な単位である。

● 臨床検査値 (LDL, HDL, total cholesterols) の単位変換:

$$\text{Value in mmol/L} \times 39 = \text{value in mg/dL}$$

● 臨床検査値 (triglycerides) の単位変換:

$$\text{Value in mmol/L} \times 89 = \text{value in mg/dL}$$

● 臨床検査値 (glucose) の単位変換:

$$\text{Value in mmol/L} \times 18 = \text{value in mg/dL}$$

Appendix V

Useful vocabulary for clinical/experimental studies:

●臓器に関する基本的な用語

cell	cellular (cyto-) (細胞の)
tissue	tissular (histo-) (組織の)
brain/encephalon	encephalic (encephallo-) (脳の)
cerebrum	cerebral (cerebro-) (大脳の)
cerebellum	cerebellar (cerebello-) (小脳の)
hypothalamus	hypothalamic (視床下部の)
pituitary gland/body Or hypophysis	pituitarium/pituitary (下垂体の) hypophysial (下垂体の)
spinal cord	spinal (spino-) (脊髄の)
lung	pulmonary (pulmo-) (肺の)
trachea/windpipe	tracheal [trachel(o)-] (気管の)
bronchus	bronchial (broncho-) (気管支の)
heart	cardiac/cardial (cardio-) (心臓の)
kidney	renal (nephro-) (腎臓の)
adrenal gland	adrenal (adreno-) (副腎の)
adrenal cortex	adrenocortical (adrenocortico-) (副腎皮質の)
adrenal medulla	adrenomedullar (adrenomedullo-) (副腎髄質の)
liver	hepatic (hepato-/hepatico-) (肝臓の)
pancreas	pancreatic (pancreato-) (膵臓の)
spleen	splenic [spleen(o)-] (脾臓の)
stomach	gastric (gastro-) (胃の)
intestines	intestinal (entero-) (腸の)
stomach/ intestine	gastrointestinal/gastroenteric (gastrointestino-/gastroentero-) (胃腸の)
duodenum	duodenal (duodeno-) (十二指腸の)
small intestine	enteric (entero-) (小腸の)
large intestine/colon	colic/colonic (colono-) (大腸の)
caecum/cecum (米)	caecal/cecal (盲腸の・盲膿の)
rectum	rectal (recto-) (直腸の)
appendix/vermix	appendical/appendicular (虫垂の)
anus	anal (肛門の)
thyroid gland	thyroidal (thyro-) (甲状腺の)

salivary gland	salivary (唾液腺の)
placenta	placental (placento-) (胎盤の)
corpus luteum	luteal (luteo-) (黄体の)
ovary	ovarium/ovarian (ovario) (卵巣の)
testis/testicle	testicular (testiculo-) (精巣の)
scrotum	scrotal (scroto)-(陰囊の)
penis	penial/penile (陰茎の)
uterus	uterine (utero-) (子宮の)
vagina	vaginal (vagino-) (膣の)
muscle	muscular (musculo/myo-) (筋の)

● 実験動物系の用語

man	male (雄/男性)
woman	female (雌/女性)
homo sapiens	human (人間の; 名詞としても使える)
fetus	fetal (胎児の)
embryo	embryonic (胚子の)
newborn	neonatal (新生児の)/(perinatal : 分娩前後の)
infants	infantile (乳児の)
pediatrics	pediatric (小児科の)
cattle/cow/ox	bovine (ウシの)
horse	equine (ウマの)
pig	porcine (ブタの)
dog	canine (イヌの)
monkey	simian (サルの)
rabbit	cony (ウサギの)
cat	feline (ネコの)
mouse/rat	murine (マウスの/ラトの)
chicken/bird	avian (鳥の)
frog (カエル)	ranine (カエルの)
mixed breed	mongrel (雑種の)
mammals belong to	rodent/rodentia (げっ歯類動物の)
class Eutheria (げっ歯類動物)	
such as mice, rats, hamster,	
guinea pigs, squirrels, beavers etc	

● 実験動物系の用語 (和 → 英)

離乳	weaning
離乳直後の動物の子	wealing
同腹の子	littermate
一腹の子	litter
交尾する/交尾	copulate/copulation
交配する/交配	mate/mating
繁殖	reproduction
生殖(器)	genital (organ)
交差交配する/した	crossbreed/crossbred
交雑種(遺伝系統は既知)	hybrid
分娩(人と動物に使用)	delivery/parturition
分娩(動物のみ)	littering
妊娠(妊娠の/妊娠した)	pregnancy (pregnant)
妊娠期間	gestation/pregnancy period
妊娠期の	gestational
母動物	dam
母親の(人及び動物に使用)	maternal
動物の子	progeny, offspring, pup
餌/飼料	feed, diet, food, ration

Appendix VI

Useful methods for clinical/experimental studies:

● 一般試験法

血管造(撮)影法	angiography
聴打診法	phonacoscopy
液体クロマトグラフ法	liquid chromatography
高速液体クロマトグラフ法	high-performance liquid chromatography
ガスクロマトグラフ法	gas chromatography
核磁気共鳴スペクトル測定法	nuclear magnetic resonance spectroscopy
吸光度測定法	spectrophotometry
蛍光光度法	fluorophotometry
分光蛍光光度法	spectrofluorometry
吸収分光光度法	absorption spectrophotometry
原子吸光光度法	atomic absorption spectrophotometry
赤外吸収スペクトル測定法	infrared absorption spectrometry
旋光度測定法	optical rotation measurement method
電気滴定法	electrometric titration
薄層クロマトグラフ法	thin-layer chromatography
ろ紙クロマトグラフ法	paper chromatography
流通ろ紙クロマトグラフ法	flowing filter-paper chromatography
分配クロマトグラフ法	partition chromatography
分光検査法	spectroscopy
顕微鏡検査法	microscopy
臨床顕微鏡検査法	clinical Microscopy
電子顕微鏡検査法	electronmicroscopy
表面照明顕微鏡検査法	epiluminescent microscopy
蛍光顕微鏡検査法	fluorescence microscopy
眼底顕微鏡検査法	fundus microscopy
免疫蛍光顕微鏡検査法	immunofluorescent microscopy
テレビ顕微鏡検査法	television microscopy
熱量測定法	calorimetry
直接熱量測定法	direct calorimetry
間接熱量測定法	indirect calorimetry
蛍光染色	fluorescent staining

陰性染色	negative staining
エールリッヒ酸性ハマトキシリン	Ehrlich's acid hematoxylin staining
グラム染色	Gram's staining
ハマトキシリン-エオジン染色	hematoxylin-eosin staining
緑蛍光蛋白質染色	green fluorescent protein (GFP) staining
培地	culture medium
酢酸塩寒天培地	acetate agar
寒天培地	agar culture medium
ブリリアントグリーン寒天培地	brilliant green (BG) agar
エオシン-メチレンブルー寒天培地	eosin-methylene blue (EMB) agar
無菌試験ブロス	sterility test broth
毛細管抵抗試験	capillary resistance test
炭水化物負荷試験	carbohydrate tolerance test
カイ2乗検定	chi-square (χ^2) test
クレアチニンクリアランス試験	creatinine clearance test
円板拡散試験	disk diffusion test
エールリッヒ試験	Ehrlich's test
フェーリング試験	Fehling's test
スチューデンのティ(t)検定	Student's t-test (or Student t-test)
ぶどう糖負荷試験	glucose tolerance test
マン-ホイットニー検定	Mann-Whitney test
ウィルコックスンの順位和検定	Wilcoxon's (Wilcoxon) rank-sum test

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