

Rhinology resources on the internet*

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SUMMARY

During recent years medical information through Internet is increasingly available to both patients and professionals and ever more biomedical resources become available on line to assist in clinical medicine, education and research. The purpose of this article is to present a detailed list of all the worldwide web sites of rhinology that are accessible through the Internet.

Key words: computer communication networks, internet, rhinology, otolaryngology

INTRODUCTION

During recent years, the Internet has expanded from a tool of the scientific community and computer experts to the most promoted and universally growing technology (Glowniak, 1995; Pallen, 1995). The usefulness in the field of medicine is obvious, since general practitioners and specialists may communicate with experts from various countries and get informa-

tion about diagnostic and therapeutic issues (Kuppersmith et al., 1996; Kuppersmith et al., 1997; Burgess et al., 1999).

The Internet has always provided useful resources to otolaryngologists and specifically to rhinologists, but in recent years the

Footnote: The links published in this article can be found at: www.rhinologyjournal.com/links

Table 1. Endoscopy - Operative techniques.

Anatomy as Related to Rhinoplasty	http://www3.utsouthwestern.edu/cme/endurmat/rohrich/s9612ind.htm
Baylor College of Medicine Otolaryngology Grand Rounds Archive: Plastic and Reconstructive Surgery	http://www.bcm.tmc.edu/oto/grand/fprs.html
Baylor College of Medicine Otolaryngology Grand Rounds Archive: Rhinology	http://www.bcm.tmc.edu/oto/grand/rhino.html
Computer Aided Surgery	http://homepage2.nifty.com/cas/
Cosmetic Surgery Online	http://www.cosmeticsurgeryonline.com/
Endoscopic Laser-Assisted Sinus Surgery	http://toffelcenter.com/index.html
Functional Endoscopic Sinus Surgery Tutorial	http://www.otohns.net/library/ess.asp
Nasal Endoscopic Surgery	http://www.ient.or.jp/
Procedures - American Academy of Facial Plastic and Reconstructive Surgery	http://www.facial-plastic-surgery.org/patient/procedures/procedures.html
Rhinoplasty tutorial	http://www.facialsurgery.com/PRELIM.HTM
University of Colorado-Facial Plastic Surgery and Rhinoplasty Case of the Month	http://www.uchsc.edu/sm/pmb/medround/ENTrounds/

Table 2. Allergy.

Allergic and Non-Allergic Rhinitis	http://www.nationaljewish.org/medfacts/allergic_rhinitis.html
Allergies and Allergic Reactions	http://www.allergy-drug.com/
Allergy and Asthma Rochester Resource Center	http://www.aarrc.com/
Allergy, Asthma & Immunology Online	http://allergy.mcg.edu/
Asthma & Allergy Associates of Florida	http://www.allergyweb.com/
Sinusitis: A Treatment Plan That Works for asthma and allergies too	http://www.sinuses.com/index.htm
The Food Allergy and Anaphylaxis Network	http://www.foodallergy.org/
The National Allergy Bureau	http://www.aaaai.org/nab/

Table 3. Smell.

About Pheromones	http://www.nysaes.cornell.edu/fst/faculty/acree/pheronet/pherom.html
Access Excellence - Molecular Basis of Good Taste	http://www.accessexcellence.org/WN/SUA12/taste299.html
Chemical Senses	http://chemse.oupjournals.org/
Chemoreceptors	http://www.unb.ca/courses/biol4775/SPAGES/SPAGE6.HTM
Flavornet	http://www.nysaes.cornell.edu/flavornet/
Molecular Approaches to Olfaction	http://www.hhmi.org/science/neurosci/reed.htm
OdorDB	http://senselab.med.yale.edu/senselab/OdorDB/default.asp
OdorMapDB	http://senselab.med.yale.edu/senselab/OdorMapDB/default.asp
Olfaction - A Review	http://www.leffingwell.com/olfaction.htm
Olfaction et Odeurs	http://olfac.univ-lyon1.fr/O&O/
Olfaction, a Tutorial on the Sense of Smell	http://www.cf.ac.uk/biosi/staff/jacob/teaching/sensory/olfact1.html
Olfactory Ensheathing Cells	http://duke.usask.ca/~rondouc/
Olfactory Receptor Database	http://senselab.med.yale.edu/senselab/ORDB/default.asp
Olfactory Nerve	http://info.med.yale.edu/caim/cnerves/cn1/cn1_1.html
Pheromones	http://www.pheromones.com/
Seeing, Hearing and Smelling the World - Howard Hughes Medical Inst.	http://www.hhmi.org/senses/
SenseLab Project	http://senselab.med.yale.edu/senselab/
Sensing Smell	http://www.hhmi.org/annual99/a243.html
Smell / Olfaction	http://ep.llnl.gov/msds/orgchem/Chem226/smell-links.html
Smell and Taste Disorders - NIDCD	http://www.nidcd.nih.gov/health/pubs_st/smell.htm
Smell and Taste Disorders	http://www.entdr.com/smell_taste.html
Smell and Taste Disorders: A Primary Care Approach	http://www.aafp.org/afp/20000115/427.html
Smell Database - ModularCHEM Consortium, UC Regents, USA	http://mc2.cchem.berkeley.edu/Smells/index.html
Smell Myths	http://zebra.biol.sc.edu/smell/ann/myth0.html
Smell: The Forgotten Sense	http://www.macalstr.edu/~psych/whathap/UBNRP/Smell/smell.html
Taste and Smell Links	http://ep.llnl.gov/msds/orgchem/Chem226/smell-links.html
The Chemoreception Web	http://www.csa.com/crw/home.html
The Molecular Logic of Olfaction	http://www.hhmi.org/science/neurosci/axel.htm
The Osme Fellowship	http://www.btinternet.com/~oakwoods/smell.taste.html
The Vomeronasal Organ	http://neuro.fsu.edu/research/vomer.htm
Tim Jacob - Smell Research	http://www.cf.ac.uk/biosi/staff/jacob/index.html

Table 4. Rhinology Clinics and Research Centers.

Chemosensory Perception Laboratory, University of California, USA	http://orpheus.ucsd.edu/chemosensorylab/
Craniofacial Surgical Planning and Simulation - Telecommunications Institute, University Erlangen-Nuremberg, Germany	http://www-nt.e-technik.uni-erlangen.de/~keeve/IntOps.html
Comprehensive Sinus Clinic	http://www.slucare.edu/sinusclinic/
Howard Hughes Medical Institute	http://www.hhmi.org/
Monell Chemical Senses Center	http://www.monell.org/
Nasal Dysfunction Clinic	http://www-surgery.ucsd.edu/ent/DAVIDSON/NDC/booklet.htm
Neurosciences & Systèmes Sensoriels, Université Claude Bernard Lyon, France	http://olfac.univ-lyon1.fr/
Northwest Facial Plastics Center and the Northwest Nasal Sinus Center	http://www.nwface.com/
Sense of Smell Institute	http://www.senseofsmell.org/home.asp
Sensory Research Institute	http://www.psy.fsu.edu/~fsusri/
Smell and Taste Center of Pennsylvania	http://www.uphs.upenn.edu/pennorl/servcent.htm
Southern California Nasal and Sinus Care Center	http://toffelcenter.com/index.html
Stanford Sinus Center	http://american-rhinologic.org/images/stanford.jpg
Taste and Smell Center, University of Connecticut, USA	http://www.uchc.edu/uconntasteandsmell/index.html
Taste and Smell Clinic	http://www.tasteandsmell.com/
Taste and Smell Disorders Clinic	http://www.blkbox.com/~rdevere/tsdc/
The Japanese Association for the Study of Taste and Smell	http://epn.hal.kagoshima-u.ac.jp/JASTSE/index.html
The Nose & Sinus Center	http://www.thenosedoctor.com/
The OFCN Ear, Nose and Throat Clinic	http://ofcn.org/cyber.serv/hwp/hwc/ent/
The Rocky Mountain Taste and Smell Center	http://www.uchsc.edu/sm/otolaryn/rmtsc.html

Table 5. Organizations and Societies.

American Academy of Facial Plastic and Reconstructive Surgery	http://www.facial-plastic-surgery.org/
American Academy of Otolaryngologic Allergy	http://www.aaof.org/
American Academy of Otolaryngology - Head and Neck Surgery	http://www.entnet.org/
American Board of Facial Plastic and Reconstructive Surgery	http://www.abfprs.org/
American Board of Otolaryngology	http://www.aboto.org/
American Laryngological, Rhinological and Otological Society	http://www.triological.com/
American Rhinologic Society	http://www.american-rhinologic.org/
American Society for Head and Neck Surgery	http://www.4woman.gov/nwhic/references/mdreferrals/ashns.htm
Association for Chemoreception Sciences	http://www.achems.org/
Associação Portuguesa de Otoneurologia	http://www.otoneuro.pt/
Association Nationale des ORL en Formation	http://www.anof.com/anof/index.html
Association pour la Recherche et l'Enseignement en Chirurgie Laryngologique, Otologique et Rhinologique	http://perso.wanadoo.fr/lucien.gomulinski/
Australian Society of Otolaryngology Head & Neck Surgery	http://www.asohns.org.au/
Canadian Society of Otolaryngology - Head and Neck Surgery	http://www.csohns.com/
Dutch Association of Otorhinolaryngology and Head & Neck Surgery	http://www.kno.nl/
ENT India Online	http://members.tripod.com/~entindia/
European Chemoreception Research Organisation	http://www.ecro.de/
Federation Argentina Sociedades Otorrinolaryngologia	http://www.faso.org.ar/
French ORL Society	http://www.orl-france.org/index_US_november.html
German Society of Otorhinolaryngology, Head and Neck Surgery	http://www.hno.org/
German-Spanish Society of Otolaryngology	http://www.med.uni-muenchen.de/~hno/sdg/
Greek Society of Rhinology	http://www.hellenicrhinologic.gr/
International Federation of Oto-Rhino-Laryngological Societies	http://www.ifosworld.org/
Italian Academy of Rhinology	http://web.tin.it/iar/
Japan Federation of Ear Nose and Throat	http://www4.justnet.ne.jp/~iren/RENG.HTM
Mexican Federation of ORL	http://www.fesormex.org.mx/
Mexican Society of Otolaryngology	http://www.starnet.net.mx/otorrino/
New Zealand Society of Otolaryngology Head and Neck Surgery	http://www.orl.org.nz/
Oto-Rhino-Laryngological Society of Japan	http://www.jibika.or.jp/
Panhellenic Society of Otolaryngology	http://www.hellasorl.gr/
Philippine Society of Otolaryngology Head and Neck Surgery	http://www.psohns.org.ph/index.php
Sociedad Ecuatoriana de Rinologia y Cirugía Facial	http://www.medicosecuador.com/serf/editorial.htm
Société Française de Chirurgie Plastique et Esthétique de la Face et du Cou	http://www.sfcpefc.org/
Société Française d' ORL	http://sforl.affinitesante.com/affinite/login.asp?RequestedAsso=SFORL&pouet=
Societa Italiana di Otorinolaringologia e Chirurgia Cervico-Facciale	http://www.sioechcf.it/
Society for Neuroscience	http://web.sfn.org/Template.cfm
Spanish Society of Otolaryngology	http://www.seorl.org/
Syndicat des Médecins Spécialisés en O.R.L. & Chirurgie Cervico-faciale	http://www.csmf.org/CSMFUMESPE/SMSorl.html

breadth and the content of the included resources have remarkably increased (Rothschild, 1996; Kuppersmith, 1996; Hutchinson, 1997; Saada, 1998; Rothschild and Kuppersmith, 1999). Many scientific associations, medical journals, academic departments, biomedical libraries and specialists, maintain on the world-wide web interesting sites with information about their activities (Tan, 1997). Useful sites to both, specialists and patients, may also be found on the web, providing educational material (Murphy, 1998), statistical data and all of the modern developments in rhinology. The aim of this paper is to present a detailed list of these sites, classified in broad categories.

DISCUSSION

Several sites including description of new endoscopic methods

of nasal and paranasal sinuses assessment and surgical treatment are presented. In addition, special effort was given to collect information concerning new operative techniques and their related advantages and disadvantages in facial plastic and reconstructive surgery and, especially, in rhinoplasty.

The allergy sites include information about etiology, pathophysiology, diagnosis and treatment of allergic and non-allergic rhinitis. Several other diseases of allergic origin, such as asthma and sinusitis, are included as well. Modern therapeutic guidelines are recommended, based on the significantly increased knowledge about the pathophysiology of these diseases.

The pathway of the sense of smell, starting from the molecular base of olfaction, the role of pheromones and the function of

Table 6. Journals.

Acta Oto-Laryngologica	http://www.tandf.co.uk/journals/titles/00016489.html
Acta Oto-Laryngologica Italica	http://www.uniud.it/acta/
Advances in Oto-Rhino-Laryngology	http://www.karger.com/bookseries/adorl/adorl.htm
Allergy	http://www.blackwell-synergy.com/servlet/useragent?func=showIssues&code=all
Allergy and Asthma Proceedings	http://www.oceansidepubl.com/allasth.html
Allergy and Clinical Immunology International	http://www.acii.net/
American Journal of Otolaryngology - Head and Neck Surgery	http://www.harcourthealth.com/scripts/om.dll/serve?action=searchDB&searchDBfor=home&id=ajot
American Journal of Rhinology	http://www.oceansidepubl.com/rhinology.html
Annales d' Otolaryngologie et de Chirurgie Cervico-Faciale	http://www.masson.fr/pages/recsimp/fichliv.asp?PRO_Code_GPE=230
Annals of Otolaryngology, Rhinology and Laryngology	http://www.annals.com/
Archives of Otolaryngology-Head and Neck Surgery	http://archotol.ama-assn.org/
Auris Nasus Larynx	http://www.elsevier.nl/inca/publications/store/6/0/0/1/0/4/
Biomed Central Ear Nose & Throat Disorders	http://www.biomedcentral.com/bmcearnosethroatdisord/
Clinical Otolaryngology and Allied Sciences	http://www.blacksci.co.uk/products/journals/cotol.htm
Chemical Senses	http://chemse.oupjournals.org/
Ear Nose Throat Journal	http://www.entjournal.com/
European Archives of Oto-Rhino-Laryngology	http://link.springer-ny.com/link/service/journals/00405/index.htm
Facial Plastic Surgery Clinics of North America	http://www.harcourthealth.com/scripts/om.dll/serve?action=searchDB&searchDBfor=home&id=cfps
Head & Neck	http://www.interscience.wiley.com/jpages/1043-3074/
HNO	http://link.springer.de/link/service/journals/00106/index.htm
International Journal of Plastic and Aesthetic Surgery (on line)	http://www.imedical.com/ijpas/
Journal of Allergy and Clinical Immunology Online	http://www2.us.elsevierhealth.com/scripts/om.dll/serve?action=searchDB&searchDBfor=home&id=ai
Journal of Laryngology and Otolaryngology	http://www.jlo.co.uk/
Journal of Neurophysiology	http://jn.physiology.org/
Journal of Neuroscience	http://www.jneurosci.org/
Journal of Otolaryngology	http://bcdecker.yy.net/cgi-bin/tangocgi.exe/tango/decker/journals/-journal.qry?function=view&ID=14&_UserReference=1513358204
La Lettre d'ORL et de Chirurgie Cervico-faciale	http://www.edimark.fr/orl.asp
La Revue Officielle de la Societe Francaise	http://www.sforl.com/affinite/login.asp?RequestedAsso=SFORL&pouet=
Laryngo-Rhino-Otologie	http://www.thieme.de/lary/index.html
Laryngoscope	http://www.laryngoscope.com/
ORL	http://www.karger.com/journals/orl/orl_jh.htm
Operative Techniques in Otolaryngology - Head and Neck Surgery	http://www.harcourthealth.com/cgi-bin/displaypage.pl?isbn=10431810
Otolaryngologic Clinics of North America	http://www.harcourthealth.com/scripts/om.dll/serve?action=searchDB&searchDBfor=home&id=coto
Otolaryngology-Head and Neck Surgery	http://www1.mosby.com/mosbyscripts/mosby.dll?action=searchDB&searchDBfor=home&id=HN
Oto-Rhino-Laryngologia Nova	http://www.karger.com/journals/orn/orn_jh.htm
Revue de Laryngologie, Otologie, Rhinologie	http://www.revue-laryngologie.com/
Rhinology	http://www.rhinologyjournal.com/
RhinoNewsPro (on-line)	http://www.rhinologie.com/rhinonews/med.htm

the receptors at the olfactory region of the nose and reaching up to the olfactory centers of the human brain, are described in the related sites. New clinical data about smell disorders and basically about pathogenesis, diagnosis and treatment are included as well. Clinical centers specialized in patient care, diagnosis and treatment of nasal and paranasal sinuses diseases are also included.

The group of professional or support organizations, societies

and associations concerning otolaryngology, or specifically rhinology, includes many web sites with information about the objects and rules of the organization, announcements, educational material and membership information. Worldwide distribution of these organizations is observed.

Most otolaryngology journals are represented well on the Internet, by sites including information about the publishing companies, instructions to authors, information to subscribers and prices. Abstracts and lists of contents of all the past issues

Table 7. Discussions.

Craniofacial Plastic Surgery List	mailto:Cfsurg-L@cesar.unicamp.br
FACENet: Facial Plastic Surgery Discussions maintained by Dr. Arlen Meyers	mailto:FACENet-request@tali.uchs.edu
Forum AWMF online	http://foren.medizin-forum.de/articles.public/?newsgroup=52&lid=51
French ORL discussions	http://perso.club-internet.fr/listeorl/
Italian newsgroups	http://www.aooi.it/
Otolaryngology mailing lists from Bobby R. Alford - Department of ORL and Communicative Sciences, maintained by R.B. KupperSmith	mailto:Info@otohns.net
OTOHNS e-mail list	http://www.otohns.net/forms/forumreg.asp
OTORRINO: Spanish Otolaryngology Discussions maintained by Dr. F. Rodriguez de la Fuente	mailto:listserv@listserv.rediris.es
Rhinology Discussions: Nose listserv maintained by Dr. R. Eccles	http://www.jiscmail.ac.uk/lists/nose.html
Spanish ORL discussions	http://personal.redestb.es/frdelafuente/orl1.htm
Usenet group: Sinusitis	news:alt.support.sinusitis
Neuroscience	news:bionet.neuroscience

Table 8. News and Medical Conferences.

ARO News	http://www.aro.org/news/news.html
Association for Research in Otolaryngology	http://www.aro.org/
Cancer News on the Net	http://www.cancernews.com/
CME Infostore	http://www.cmeinfostore.com/
Conference Papers Index	http://library.dialog.com/bluesheets/html/bl0077.html
Congress Resource Center	http://www.docguide.com/crc.nsf/web-bySpecDisp?OpenForm&spec=Otorhinolaryngology
Doctor's Guide	http://www.docguide.com/dgc.nsf/ge/Unregistered.User.545434
Doctor's guide to Otolaryngology Meetings and Conferences	http://www.pslgroup.com/dg/otorhino.htm
Head and Neck Newsletter	http://www.bcm.tmc.edu/oto/headneck.html
Medical Conferences	http://www.medicalconferences.com/
Medical News from Doctors Guide	http://main.pslgroup.com/news/content.nsf/AllMedicalNews?Openform
MediConf - Otorhinolaryngology Meetings	http://www.mediconf.com/scme/8027.HTM
News Archive from National Institute of Clinical Excellence	http://www.nice.org.uk/cat.asp?c=28014
Otohns.net	http://www.otohns.net/news/news.asp
RhinoNewsPRO	http://www.rhinologie.com/rhinonews/med.htm

Table 9. Otolaryngology Resources on the Internet.

Caducée.net - ORL	http://www.caducee.net/Sites/DetailSousRubrique.asp?idsr=47
Guide to Otolaryngology on the Internet - Baylor College of Medicine	
Bobby R. Alford Department of Otorhinolaryngology and Communicative Sciences	http://www.bcm.tmc.edu/oto/others.html
Hardin Meta Directory	http://www.lib.uiowa.edu/hardin/md/idx.html
HealthWeb Otolaryngology	http://healthweb.org/browse.cfm?subjectid=69
Karolinska Institute: Otorhinolaryngologic Diseases	http://www.mic.ki.se/Diseases/c9.html/
Med Mark - Otorhinolaryngology	http://www.medmark.org/orl/
Medical Matrix	http://www.medmatrix.org/reg/login.asp
Medical W.W.Compass-Otolaryngology	http://www.mahoroba.ne.jp/~misaeki/compass/index.html
Medweb - Otolaryngology	http://www.medweb.emory.edu/MedWeb/
ORL FRANCE	http://orl-france.org/portail.html
ORL Pelo Mundo	http://www.hcnet.usp.br/otorrino/orledu.htm
Otorhinolaryngologic Diseases - CliniWeb International	http://www.ohsu.edu/clinweb/C9/C9.html
Otolaryngology Links on the World Wide Web/Mount Sinai	http://www.mssm.edu/ent/links.shtml
Otolaryngology Resources on the Internet, John Serry, MD	http://www.users.interport.net/~jsherry/entlist2.html
Otowelb	http://www.medsch.wisc.edu/otowelb/
Otowelb - Department of Otolaryngology-Head and Neck Surgery at the University of Washington School of Medicine	http://depts.washington.edu/otowelb/contents.html
Sites Francophones d'Otorhinolaryngologie	http://www.chu-rouen.fr/ssf/orlfr.html
Spanish ORL Resources	http://personal.redestb.es/frdelafuente/#ENLACES
Yahoo - Otolaryngology	http://dir.yahoo.com/Health/Medicine/Otolaryngology/

Table 10. Miscellaneous.

3-D Reconstruction of the Nasal Passageways	http://www.mco.edu/cci/projects/cool.html#
Animation of Nasal Passages	http://www.innerbody.com/anim/nasal.html
CancerNet at the National Cancer Institute	http://cancerweb.ncl.ac.uk/cancerweb/101402.html
Electronic Noses and their Applications	http://www.emsl.pnl.gov:2080/proj/neuron/papers/keller.wcnn96.html
Free Medline Search: Pubmed	http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed/
Grossan Sinus Irrigator	http://immunotek.com/xltek3.html
Handbook of Nasal Disease	http://www.surgery.ucsd.edu/ent/davidson/NASHAND/nasal.htm
HNOnline Gallery of Clinical Photographs	http://www.med.uni-muenchen.de/~hno/hnonline/homepage.eng.html
Nasopharyngeal cancer - National Cancer Institute	http://cancerweb.ncl.ac.uk/cancerweb/101402.html
Paranasal Sinus and Nasal Cavity Cancer - National Cancer Institute	http://cancerweb.ncl.ac.uk/cancerweb/102892.html
Sensonics, Inc.	http://www.sensonics.com/
SinuCare	http://www.sinucare.com/
Sinusitis: A Treatment Plan That Works	http://www.sinuses.com/toc.htm
The Merck Manual: Smell and Taste Disorders	http://www.merck.com/pubs/mmanual_home/sec6/72.htm
The Nose Project	http://www.wag.caltech.edu/muri/
The Sinus Cure	http://immunotek.com/xSinuscure.htm
University of Pennsylvania Otolaryngology Referral Center	http://www.entconsult.com/
University of Pennsylvania Smell Identification Test	http://www.sensonics.com/Merchant2/merchant.mvc?Screen=CTGY&Store_Code=SI&Category_Code=STP
Virtual Images of Nasal Cavity and Paranasal Sinuses, Kanazawa Municipal Hospital	http://www.ient.or.jp/

are usually included, and sometimes full text articles accompanied by graphics and videos may be obtained. Although most of these journals are specialized in otolaryngology in general, a few of them include exclusively rhinology issues. On-line orders and subscription by e-mail are usually possible. Discussion groups and mailing lists about rhinology aspects maintained by various specialists or academic departments offer valuable information to other professionals or patients about various rhinology topics. Immediate interaction between the referring and consulting physician is usually possible, resulting in the acquisition of knowledge-based information and the improvement of medical education.

ENT news and otolaryngology conferences is a section with a few sites, but very useful to the busy specialists, because all new developments in otolaryngology are presented and information about upcoming medical conferences is available. Apart from news and conferences of general interest, specific rhinology topics are included as well.

Collective lists of otolaryngology resources on the Internet, including rhinology resources, are presented separately and some of them are an excellent start for navigation, by using the links of each site.

Finally, miscellaneous links of interest to the rhinologists or the patients are presented, such as cancer news, medical information concerning rhinologic diseases or imaging rhinologic material.

In conclusion, rhinology resources on the Internet have greatly expanded during recent years. The aim of this paper is to present a detailed list of all web sites of interest to rhinologists, in order to assist professionals familiar with the Internet to find any information easily, and further, to promote the usefulness of the Internet to specialists who are not quite acquainted with this medium.

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