List of Abstracts from the Twenty-fifth Annual Meeting of the Association for Chemoreception Sciences

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J. Yoshida-Matsuoka, T. Tsukatani, M. Matsuoka and R.M. Costanzo
A morphological and histochemical study of the response to peripheral deafferentation in the adult zebrafish olfactory bulb B.R. Heard and C.A. Byrd
Unilateral chorda tympani nerve section induces a bilateral increase in lingual macrophages in control-fed but not Na⁺-restricted rats L.P. McCluskey
Nerve cut induced decrease of chorda tympani terminal fields in the NTS of adult control and sodium-restricted rats B.K. Cheon and D.L. Hill

Symposium: Patterning in Olfactory Systems: How Much is Pre-specified?
Patterning in olfactory systems: how much is ‘prespecified’?
L. Tolbert
Interdependence and coordination of axons and odorant receptor genes
A. Chess
The simple but vertebrate-like adult olfactory system of Drosophila derives from a miniature larval system with no more than 21 receptor neurons R.F. Stocker, F. Python, G. Jefferis, E. Marin and L. Luo
Primary olfactory axons can sort out and converge independently of the olfactory bulb in mouse J.A. St John and B. Key
An olfactory bulb-like structure develops in the absence of olfactory sensory input in mouse L. Lopez-Mascaraque, R. Rivera, C. Garcia, F. Valverde and J.A. De Carlos

Posters: Olfactory Receptor Genes
An odorant receptor from Anopheles gambiae that is highly conserved across insect taxa R.J. Pitts, A.N. Fox, A.C. Melo and L.J. Zwiebel
Identification of candidate olfactory receptors of the moth Heliothis virescens J. Krieger, K. Raming, Y.M. Dewer, S. Bette, S. Conzelmann and H. Breer
OR37-receptors: a unique subfamily of olfactory receptors J. Strotmann, R. Hoppe, S. Conzelmann and H. Breer
Understanding the relationship between sequence variation and odorant recognition in olfactory receptors M.L. Schlador, M. Walker and B.J. Trask
Expression of rat odorant receptor mRNA in non-olfactory tissues E. Weler
Functional analysis of stably expressed mammalian olfactory receptors S. Bieri, A. Valero, J. Slack and B. Schilling
The orphan receptor guanylyl cyclase expressed in olfactory sensory neurons of rodents is a pseudogene in human: assignment to chromosome band 11q14 G. Nagatani, K. Wu and H.J. Fülle
Localization of olfactory receptor mRNA in human olfactory receptor neurons N. Rawson, K. Yee and C. Hahn

Posters: Olfactory CNS Coding
Space, time and odor coding I: odor identity within the context of context in Manduca sexta M. Cheich, K.C. Daly and B.H. Smith
Space, time and odor coding II: high dimensional euclidian distance as a measure of odor discriminability and time to discrimination across populations of antennal lobe units in *Manduca sexta*

K.C. Daly and B.H. Smith

Odor responses of projection neurons innervating morphologically identified glomeruli in the antennal lobe of the moth *Manduca sexta*

C. Reisenman, T.A. Christensen and J.G. Hildebrand

Physiological and morphological characteristics of CO₂-sensitive neurons in the antennal lobe of the moth *Manduca sexta*

P.G. Guerenstein and J.G. Hildebrand

Genetic control of olfactory characteristics in male moths

N.J. Vickers

Whole-cell patch-clamp recordings from Kenyon cells in an in vivo preparation of the moth brain

M. Sjöholm and B. Hansson

Ensemble codes for contextual features of olfactory stimuli recorded with multi-electrode arrays in the moth antennal lobe

A. Dacks, T.A. Christensen, V.M. Pawlowski and J.G. Hildebrand

Male and female ferret anal sac gland secretions activate different clusters of glomeruli in the main olfactory bulb

S.K. Woodley, S. Sapute, Z. Lieberman, R. Coulter-Thurley and M. Baum

Changes in odor-evoked *c-fos* expression patterns elicited by operand conditioning in mouse olfactory bulb

C. Zhang, J. Arielano and D. Restrepo

A fovea in the nose: evidence for disproportionate mapping of the olfactory nose onto the main olfactory bulb of the hamster

T.A. Schoenfeld and T.K. Knott

Experience-induced olfactory bulb mitral/tufted cell receptive field plasticity

M.L. Fletcher and D.A. Wilson

Reproducibility (or lack thereof) in glomerular activations

I. Kida, F. Xu and F. Hyder

Spatial patterns of odor-evoked activity in piriform cortex change during development

K.R. Illig

**Posters:** Gustatory Transduction

Calcium pump isoforms in chemosensory transduction


GPI anchored proteins and lipid rafts in chemosensory signal transduction

J. Yano, M. Valentine, S. Chandran, S. Weeraratane, S. Kasper, Y. Pan, R.R. Preston and J. Van Houten

Gustatory gene expression profiling

I. Nosrat, R. Farjo, M. Othman, A. Swaroop and C.A. Nosrat

Expression profiling of taste receptor cells


Effect of Ni²⁺ on voltage-dependent Na⁺ current in morphologically identified cells of the bullfrog taste organ

T. Suwabe, K. Narita, K. Okuda-Akabane, M. Kubota and Y. Kitada

Rat taste buds express multiple members of the KCNK family of two-pore domain potassium channels


Functional implications of differences in potassium channel expression among lingual taste buds

D.R. Hansen, D.O. Hoyal, C.E. Foley, J. Guenter, D.J. Johnson and T.A. Gilbertson

G proteins and adenylyl cyclases co-expressed in taste receptor cells

T. Abaffy, K. Trubey and N. Chaudhari

Comparison of the responses to different sweet and bitter stimuli in α-gustducin knockout (KO) and wild type mice (WT)

V. Danilova, S. Damak, J. Glendinning, R.F. Margolskee and G. Hellekant

CAP and coflin-1 co-exist in taste cells expressing taste receptors

Y. Ishimaru, Y. Emori and K. Abe

A single cell view of taste sensation

L. Huang, L. Vo, M. Max and R.F. Margolskee

**Posters:** Development of Olfactory Systems

Electrophysiological properties of embryonic olfactory neurons in explant cultures

F. Lischka, A. Lamantia and N. Rawson

Unilateral naris closure and cell death in the nasal septum of the developing rat

P.C. Brunjes and D. Shurling

Horizontal basal cells contain potential stem cells for the olfactory epithelium

J. Roskams, J. Macdonald, B. Murdoch and L. Carter

Dynamic expression of developmental genes in the adult antenna of *Manduca sexta*

J.D. Bohbot and R.G. Vogt

Thyroid hormone-regulated nose genes during Xenopus laevis development

E. Walworth and G.D. Burd

Glia in the axon sorting zone of the moth primary olfactory pathway alter axon responses to subsequent glial encounters

L.A. Oland, C.T. Howard and L.P. Tolbert

Integrins in the developing olfactory system

M.K. Whitley, H.B. Treloar, A. De Arcangelis, E. Georges Labouesse and C.A. Greer

Asynchronous development of olfactory sensory projections

D. Zou, P. Feinstein, C.A. Greer, P. Mombaerts and S. Firestein

Tenascin-C is an inhibitory guidance molecule in the developing mouse olfactory bulb

H.B. Treloar, Y. Yang and C.A. Greer

Cadherins and catenins: expression in mouse olfactory pathway development

M.R. Akins and C.A. Greer

Microarray analysis of bone morphogenetic proteins (BMPs), receptors and modulators in the developing mouse olfactory bulb (OB)

M. Ukhanova, J. Margolis and F.L. Margolis

Neurite stability in the mouse olfactory system: the role of NOGO, P75 and RHOA

C.H. Steward, K.R. Illig and C.A. Greer

Posters: Salt & Sour Taste

Characterization of amiloride-insensitive sodium salt responses using patch clamp recording

J.T. Klein, C.A. Burks and T.A. Gilbertson
Identification of natriferic hormone responsive elements in taste cells: implications for the regulation of salt and water taste
T.A. Gilbertson, W. Chen, S. Rao and D.R. Hansen

Hamster chorda tympani responses to potassium are voltage-sensitive
B. Edgar, E. Proko, J. Stewart and R. Stewart

Voltage-sensitivity of hamster chorda tympani sodium responses
E. Proko, R. Greene, O. Russell, C. Hatzis, R. Spatzier and R. Stewart

Alteration of the tastes of salts by cathodal current
D. Do, H. Su, M.E. Frank and T.P. Hettinger

Expression of acid sensing ion channels in isolated human taste receptor cells

Acid-induced calcium responses in murine taste cells
T.A. Richter, E. Pereira and S.D. Roper

Relationship between intracellular pH and Ca$^{2+}$ in fungiform rat taste receptor cells
V. Lyall, S.A. Malik, R.I. Alam, G.L. Heck and J.A. Desimone

Lingual surface potential (LSP) in humans

Posters: Umami Taste
Immunodetecting a candidate umami receptor, taste-mGluR4, in taste cells
N. Chaudhari, E. Pereira, A.M. Landin and S.D. Roper

Responses to GMP and glutamate in taste receptor cells of rat fungiform papillae
T. Ogura, W. Lin and S.C. Kinnamon

Can rats discriminate between the tastes of IMP, GMP and monosodium glutamate?
T.M. Faes, T.C. Wifall, J.D. Mitzelfeld, A.M. Padillo and E.R. Delay

Discrimination between the tastes of sweet stimuli and monosodium glutamate in rats
B.R. Heyer, C.C. Taylor-Burds, J.D. Mitzelfelt and E.R. Delay

Gustatory evoked magnetic fields and perceptual characters of umami substance IMP
S. Saito, T. Kobayakawa and N. Gotow

Slides: Molecular Basis of Sweet Taste
Comparative analysis of the T1R taste receptor genes in primates
X. Li, W. Li, K.J. Mascioli, A.A. Bachmanov, M.G. Tordoff, G. Epple, G.K. Beauchamp and D.R. Reed

T1R receptors are expressed by type II taste cells in the mouse
T.E. Finger, K.T. Anderson, D. Bartel and C.L. Yee

Relative sensitivity to sucrose, glucose and glycine in selective inbred mouse strains
S. Eyal and A.C. Spector

Polymorphisms of the murine TAS1R3 gene assort with strain differences in orosensory responsivity to low but not high concentrations of sucrose
J. Glendinning, M. Joon Young and I. Lin

Sweetener preferences of 129.B6-SAC congenic mice
M.L. Theodorides, X. Li, V.V. Botchkarev, G.K. Beauchamp and A.A. Bachmanov

Symposium: Presidential Symposium: Biology & Chemistry of Floral Scent
Introduction: the biology and chemistry of floral scent
J.G. Hildebrand

Floral scent composition—strategies for component identification
C. Bicchi

Distinguishing signal from noise in complex floral fragrances: a biological perspective
R.A. Raguso

Coding floral odors in the insect brain
G. Galizia, H. Mustaparta and S. Sachse

Human responses to floral odors
B. Van Der Pers-King

Posters: Olfaction in Animal Behavior
Concanavalin A inhibits detection of o-carvone while WGA reduces detection of l-carvone
S. Deutsch and R. Apfelbach

Reversible reduction of odor detection after trometamol application to the olfactory epithelium of rats
E. Weiler, C. Heisig and R. Apfelbach

Fetal odors remain in the mother’s circulation after her pups are born
K. Yamazaki, M. Curran and G.K. Beauchamp

Discrimination of amino acid multimixtures in catfish
S. Valentincic, S. Kralj and V. Zgonik

Adenoviral vector-mediated rescue of the OMP-NULL behavioral phenotype: enhancement of odorant sensitivity
S.L. Youngentob, M. Pyrski and F.L. Margolis

A new approach to communication in birds: structure and function of nasal anatomy
J. Yeh, K. Launer and J.C. Hagelin

Timing of Manduca sexta behavioral and physiological traits during wandering
R.P. Kobres, K. Fernandez and R.G. Vogt

Posters: Animal Behavior: Taste & Feeding
Murine taste preference tests: why only two bottles?
M.G. Tordoff and A.A. Bachmanov

PROP and PTC taste sensitivity are distinct phenotypes in mice
T.M. Nelson, S.D. Munger and J.D. Boughter

Cetylpyearsidinium chloride’s aversive taste to rats
L. Hallagan, S. Saperstein, S.J. St John

Determination of NaCl taste thresholds for developmentally NaCl-restricted rats
A.K. Thaw, E.C. Mann, S. Crooms and D.L. Hill

Gustatory detection of a free fatty acid, linoleic acid, by rats
D.N. McCormack, P. Herzog, K.L. Webster and D.W. Pittman

Threshold for the detection of ethanol solutions by the rat
J. Smith, M. Denbleyker, K. Ferrence and P. Smith
Linoleic acid alters licking responses to sweet, sour, and salt tastants in rats
P. Herzog, D.N. McCormack, K.L. Webster and D.W. Pittman

The relative strength of thermal cues in short-term feeding behavior
P.L. Smith and J.C. Smith

Behavioral and immunohistochemical studies for the conditioned temperature aversion
N. Sako, R. Ohashi, N. Sakai and T. Sugimura

Effects of astringents, tastants, and flavorants on oral texture
R.A. De Wijk, J.F. Prinz, L. Engelen and A.M. Janssen

The impact of ethanol and tobacco smoke on intranasal epithelium in the rat
J. Vent, S. Irwin, G. Haynatzki, M.J. Gentry-Nielsen, D.A. Leopold and R. Hallworth

Taste perception in mice bearing a human squamous cell carcinoma
J. Lee, M. Cha, S. Choi, Y. Moon and J. Jahng

Slides: Development of Chemoreceptor Cells
Neurotrophins alter sodium channel properties of embryonic trigeminal and geniculate neurons
A. Grigaliunas, C. Mistretta, D.K. Maccallum and R. Bradley

Each sensory nerve arising from the geniculate ganglion (GG) expresses a unique fingerprint of neurotrophin receptor genes
A.I. Farbman, S.I. Sollars, N. Guagliardo and D.L. Hill

Retinoic acid and neurogenesis in postnatal rat olfactory epithelium
M. Asson-Batres and W.B. Smith

An inducible transcript expressed by reactive epithelial cells that proliferate lobster olfactory sensory neurons
T.S. McClintock, M.D. Nickell, T. Stoss and C.D. Derby

Slides: Functional Organization of Olfactory Systems
Human specific loss of olfactory receptor genes
G. Yoav, M. Orna, P. Svante and L. Doron

Posters: Oscillations & Synchronization in Olfaction
Generation mechanism of EOG oscillations in the rainbow trout
N. Suzuki, M. Takahata and T. Shoji

Vomeronerphins produce low-frequency calcium oscillations in human vomeronasal neurons
B. Winegar and L. Monti-Bloch

Reduced external calcium or potassium channel blockade evokes bursting in crayfish parasol cells
D. Mellon

Odor-induced synchrony occurs among catfish olfactory bulb neurons having similar odorant selectivities irrespective of their bulbular location within the amino acid chemotopic zone
A. Nikonov and J.T. Caprio

Persistent fast oscillatory activity in the rat olfactory bulb is mediated by chemical and electrical synapses in vitro
D. Friedman and B.W. Strowbridge

Odor-induced oscillations in rat olfactory bulb
J.W. Scott and L. Sherrill

Posters: Olfactometry & Gustometry
A temporal automated system for taste experiments
A. Ashkenazi, J. Buckley, T. D’Alessandro, A. Dirubba, M. Fritz, R. Goodman and L.E. Marks

How to make and measure smells—practical lessons in olfactometry
R. Schmidt and W.S. Cain

Development of a precision olfactometer
L. Hastings and R.L. Doty

New technique in real-time monitoring of chemosensory (gas) stimulus for event-related potentials
T. Kobayakawa, H. Toda, H. Yamada and S. Saito

Improvements to an olfactometer for psychophysiological and fMRI studies of olfactory processes
T. Lorig, M. Gould and P. Dalton

Single-pass environmental chamber for quantifying human responses to airborne chemicals

Posters: Vomeronasal Chemoreception
Human V1-subtype vomeronasal receptors
L. Sangameswaran, D. Edwards, L. Tran and G. Raghu

Species-specificity in pheromone receptor loci?
R.P. Lane, T. Cutforth, R. Axel, L. Hood and B.J. Trask

Electrophysiological characterization of voltage-activated properties in vomeronasal neurons isolated from adult male and female mice
D. Dean, A. Mazzatenta and A. Menini

The role of GQ/II in signal transduction in the vomeronasal organ
S. Miller, A. Napier and K. Wekesa

Immunohistochemistry of the canine vomeronasal organ
J.C. Dennis, J.G. Algier and E. Morrison

A 20 kDa protein component of male Plethodon shermani pheromone activates female P. shermani vomeronasal neurons
C.R. Wirsig-Wiechmann, L.D. Houck, P.W. Feldhoff, A. Shaikh and R.C. Feldhoff

A proteomic analysis of mucosal proteins in the VNO duct of the Asian elephant: continuing the hunt for pheromone binding proteins
D.R. Greenwood and L.E. Rasmussen

Relaxation of selective pressure on an essential component of vomeronasal transduction during primate evolution
E.R. Liman and H. Innan

Adult human vomeronasal epithelium express molecular markers of neuron-like activity
V. Diaz, A. Morales and A. Castell

Posters: Human Olfaction: Psychophysics
The long term effect of nasal dilators on nasal anatomy and olfactory ability
G.D. Lyng, D.E. Hornung, D.A. Leopold, S.B. Irwin and J. Vent

Characterization of the Sniff Magnitude Test
K.A. Niergarth, M.F. Dulay, R.C. Gesteland and R.A. Frank

The Sniff Magnitude Test: a sensory measure minimally influenced by cognitive factors
M.F. Dulay, K.A. Niergarth, P.K. Shear, R.A. Frank and R.C. Gesteland
Contrasting activation of human brain by complex designed fragrances
Q.X. Yang, J. Wang, P.J. Eslinger, M.B. Smith, R. Ansari, A. Richardson and J. Behan

Olfactory effects of environmental malodor
J. Bell and A.R. Hirsch

Olfactory performance and health status: a European survey
C. Rouby and T. Thomas-Danguin

Sniffing during formation of olfactory imagery
E. Bremner, B.N. Johnson, J.D. Mainland, N. Young, D. Aframian, M. Bensafi and N. Sobel

Supra-threshold evaluations of olfactory stimuli by PROP classified individuals
S.V. Kirkmeyer and B.J. Tepper

The relationship between the nasal cycle and preferred handedness
E.J. Stein, L. Brzuszkiewicz, A. Searleman and D.E. Hornung

Rating properties of odorants
S. Pouliot, J.L. Hudry and M. Jones-Gotman

Odor quality and quantity in cross-adaptation

Individual differences in human olfactory communication of emotions
D. Chen and M.K. McClintock

Olfactory differences between pregnant and non-pregnant women
D.A. Broman, J. Olofsson, M.J. Olsson and S. Nordin

A longitudinal study of food aversions and cravings in pregnant women
S. Nordin, D.A. Broman, J. Olofsson and M. Wulff

Effects of age, sex, and side of stimulation on chemosensory event-related potentials
M. Larsson, J.N. Lundstrom, J. Frasnelli and T. Hummel

Effects of stimulated nostril on olfactory event-related potentials
J. Olofsson, D.A. Broman, P.E. Gilbert, S. Nordin, P. Dean and C. Murphy

Olfactory evoked potentials during monorhinal versus birhinal stimulation with linalool
G. Kobal, C. Wille, C. Mueller and B. Kettenmann

Influences of ethanol ingestion on olfactory function: specific to ethanol odor
R.L. Doty, S.J. Patel and A. Bolhoefer

High throughput microarray detection of olfactory receptor gene expression
X. Zhang, M. Rogers, X. Zhang, D. Zou, J. Liu, M. Ma, G.M. Shepherd and S. Firestein

Processing of odor blends in the insect antennal lobe
C. Kleineidam, N.J. Vickers and C. Linn

Functional organization of input to the mouse olfactory bulb glomerulus visualized with two-photon calcium imaging
M. Wachowiak and R.W. Friedrich

Global representation of chemical structures in the mouse olfactory bulb revealed by fMRI
F. Xu, N. Liu, I. Kida, R.L. Rothman, F. Hyder and G.M. Shepherd

Posters: Olfactory Receptor Cells

Effect of taurine suppression on the olfactory system of the mouse
M. Witt, C. Roth, T. Hummel, U. Warskulat and H. Bidmon

New intracellular staining technique applied to Drosophila neurons
S. Wada and R. Kanzaki

Detecting changes of olfactory neuron activity
A. Blejec

Short-term culture of Caenorhabditis elegans chemosensory neurons
T. Nickell, N.K. Kleene and S.J. Kleene

The use of fresh postmortem human peripheral olfactory tissue for physiologic study
B. Murrow, K. Walton, R. Michaels, B. Jafek, S. Leonard and D. Restrepo

Inhibition of heat shock protein induction in mouse olfactory epithelium by in vivo administration of purinergic receptor antagonists
C.C. Hegg, K. Davis and M.T. Lucero

Posters: Histological Profiles in Peripheral Gustatory Systems

Immunocytochemical characterization of palate taste buds in mice
L.M. Stone, L.S. Baker, R.F. Margolskee and S.C Kinnamon

Mechanical stimulation releases serotonin from rat taste buds
I. Ponsky, J.E. Baur, E. Pereira and S.D. Roper

Radiation induced changes in histology and behavior in the SR90 taste loss model
G. Nelson, F. Ferraro, D. Coonfield and S. Kiefer

Immunohistochemical characterization of GABA and GAD in facial and vagal nerve innervated taste buds of channel catfish
M. Eram and W.C. Michel

Histochemical evidence for presynaptic ionotropic glutamate receptors on primary gustatory afferent terminals in goldfish
G. Huesa and T.E. Finger

Posters: Pheromones & Social Behavior

The generation and control of information currents to exchange social signals during conspecific fights in crayfish
A. Martin, D.A. Bergman and P.A. Moore

Sex, dominance, and individual recognition signals in lobster hierarchies
K.E. Morschauser and J. Atema
Genome-wide analysis of pheromone-mediated gene expression in the honey bee
C.M. Grozinger and G.E. Robinson

The role of heliothine hairpencil compounds in female Heliothis virescens behavior and mating
K.N. Hillier and N.J. Vickers

Physiological and behavioural studies suggest the use of sex pheromones during reproductive activity of the round goby Neogobius melanostomus

Discrimination of semiochemicals by the chilean lizard Liolaemus lemniscatus: role of olfaction and vomerolfaction
A. Labra and E. Desfilis

Chemical exploration of conspecific odors in female opossums (Monodelphis domestica).
M. Halpern, K. Dombrowski and I. Zuri

Olfactory memory and individual recognition in golden hamsters
W. Lai, H.A. Yu, A. Chen and R.E. Johnston

Accurate odor discrimination in the absence of odor preference in male vasopressin 1b receptor-KO mice indicates altered social motivation
K.R. Kelliher, F. Zufall, S.R. Wersinger and W.S. Young

MHC-based mate choice in female rats
E. Shaw-Taylor and M.K. McClintock

Responses of female mouse to fractionated urine of rutting male moose (Alces alces gigas)
C.L. Whittle, R. Bowyer, L.K. Duffy, G. Preti and T.P. Clausen

Socially relevant chemosensory stimuli selectively activate posterior medial amygdala
J. Westberry and M. Meredith

Chemosensory stimulation of fos in medial amygdala reflects neural activation not synaptic enhancement
C. Blake, J. Westberry, S. Sirpal, D. Weinburg and M. Meredith

Olfactory sensitivity for androstenone in three species of nonhuman primates
M. Laska, A. Wieser and L. Hernandez Salazar

Posters: Human Olfaction: Pheromones
Effects of androstenolone on mood and physiology increase in emotional contexts
M. Bensafi, T. Tsutsui and N. Sobel

What the nose knows: preference for human body odors as a function of gender and gender preference
Y. Martins, G. Preti and C.J. Wysocki

Androstradienone’s impact on emotional experience through mood induction
R. Freyberg, P. Wilson and J. Haviland-Jones

Individual differences in odor sensitivity to 4,16-androstenadien-3-one
J.N. Lundstrom, J. Lopes and M.J. Olsson

Individual differences (IDs) in the detection of human mood from axillary odor
T.R. McGuire, J. Brahms, C. Morris and J. Haviland-Jones

Posters: Olfaction & Cognition
Olfactory processing: effects of nostril and repetition
F.U. Jonsson, M.J. Olsson and D.A. Broman

Do age differences in odour memory depend on differences in verbal memory?
P. Moeller, C. Wulff and E.P. Koester

Negative affectivity enhances reactivity during repeated odorant exposure
C. Maute and P. Dalton

When senses and cognitions collide: effects of ambient odor administration on evaluations of writing samples
J. Smith and B. Raudenbush

Fragrance expectations and perceived effects: a study of subjective and objective responses
J.C. Koentzer, F. Naqvi and P. Dalton

Autobiographical memory: influences of age and cue type
J.M. Willander, E. Kulkepp and M. Larsson

Synthetic odors and the stroop effect
R. Buschmann-Maiworm, S. Winkel and W. Schurian

Edibility priming: towards a procedure for the measurement of repetition priming effects in olfaction
M.J. Olsson, J.M. Willander and F.U. Jonsson

Early learning about the sensory properties of tobacco
J.A. Mennella, C.A. Forestell, C. Henry and G.K. Beauchamp

Directed attention increases sensitivity to target but not background odors
P. Dalton, J. Diamond and P.A. Breslin

Odor–emotional conditioning: effects on behavior
R.S. Herz, C. Schankler and S. Beland

Posters: Clinical Issues in the Chemical Senses
Differential stress-related gene expression in olfactory bulbs of elderly and AD subjects

A description of axonal abnormalities observed in human olfactory epithelium
E.H. Holbrook, D.A. Leopold and J.E. Schwob

Comprehensive assessment of olfactory functions in young male schizophrenia patients
C.I. Rupp, M. Klimbacher, T. Lechner, T. Walch, G. Kemmler, A. Scholtz and H. Hinterhuber

Dietary events associated with impaired olfactory function
D.V. Santos, E.R. Reiter, L.J. Dinardo and R.M. Costanzo

Suitability of the Odor Stick Identification Test for Japanese in patients suffering from olfactory disturbance

Middle turbinate fenestration: a new endoscopic sinus surgery approach for the improvement of olfactory function
T. Miwa, T. Bukatani, N. Uramoto, T. Yata, M. Furukawa and I. Horikawa

Local and systemic application of corticosteroids in the treatment of olfactory loss
S. Heilmann and T. Hummel

Taste/smell dysfunction in cardiac surgical patients
B. Stahl, L.M. Bartoshuk and M. Funk
Taste strips: validation and clinical application of a new procedure for the quantitative assessment of gustatory function
C. Mueller and G. Kobal

Dysgeusia: more prevalent than suspected?
L.M. Bartoshuk, V.B. Duffy, J.F. Kveton and D.J. Snyder

Colon cancer and genetic variation in taste
M.D. Basson, L.M. Bartoshuk, S.Z. Dichello, J. Weiffenbach and V.B. Duffy

Ipsilateral taste intensity perception deficits in a left insular stroke patient
K.B. Simmons, Y.E. Mak, D.R. Gitelman and D. Small

Use of tastants to facilitate weight loss
M. Gallant-Shean and A.R. Hirsch